GENERAL INFORMATION AND APPLICATION DATA

ELECTRIC MOTOR DRIVEN FIRE PUMPS

The price of an electric motor driven fire pump unit covers the pump in cast iron bronze fitted construction, mounted on a fabricated steel non-drip rim base, and connected to a "T" frame UL Listed motor by a suitable flexible coupling with coupling guard. Motor manufacturer can be of any listed choice. Couplings are factory choice. All electric motor driven fire pumps are available in R.H. (clockwise) or L.H. (counterclockwise rotation) except PVF pumps which are available only in R.H. rotation. See Section 1510/1610 for electric motor drive fire pump controllers which list Metron and Firetrol listed and approved controllers for fire pump service.

DIESEL ENGINE DRIVEN FIRE PUMPS

The diesel engine driven fire pump price covers the pump in cast iron bronze fitted construction, mounted on a fabricated steel non-drip rim base and connected to an engine by a suitable flexible coupling with coupling guard. Diesel engines are standard with R.H. (clockwise) rotation. A limited number of engines are available with L.H. (counter-clockwise) rotation which requires a price addition, refer to factory. Price additions are necessary for all accessories, such as, fuel system, fuel tank, batteries, mufflers, which are listed separately in Section 1510 and engine controllers in Section 1510/1610.

SUCTION PRESSURE

On UL and ULC Listed pumps, the lantern rings and water seal piping will not be furnished on pumps with suction pressures exceeding 30 psi (UL) 40 psi ULC. Horizontal tire pump orders must include the following information:

1) Suction pressure in psi ("flooded suction" is not acceptable).

2) Insurance authority ("UL/FM" not acceptable) for job, FM and ULC do not have the same specifications regarding suction pressures. Order must specify only one of three agencies having jurisdiction; UL or FM or ULC; combinations of these agencies are not acceptable.

UL listed pumps, built without water seal piping and without lantern rings may use standard packing and standard shaft sleeves when the suction pressure is at least 30 psi and no greater than 150 psi.

The standard pumps listed are suitable for FM and ULC for suction pressure up to and including 75 psi; for higher suction pressures, refer to the factory. Refer to construction details for pumps with high suction pressure on following page 3 of Section 1510.

MAXIMUM PUMP WORKING PRESSURE

The maximum working pressure (pump shut-off pressure plus maximum suction pressure) shall not exceed the values listed in Section 1520. For working pressures above limits shown in Section 1520, refer to factory.

SELECTIONS

It is anticipated that the selections listed will cover 90% or more of requirements. Applications not covered by the selections listed must be referred to the factory. This will include all steam turbine driven applications.

ELECTRIC MOTOR SIZING

The electric motor sizes shown on selection charts conform to standards of NFPA Pamphlet 20 and in the case of open drip proof motors, are based on full utilization of the 15% service factor. They will usually be acceptable to UL and IRI, and to Factory Mutual Since final authority rests entirely with the authority having jurisdiction, Sterling Fluid Systems (USA), Inc. can assume no responsibility for their acceptance of motor size shown.

PUMP MODIFICATIONS

See page 3 for listing of listed and approved modifications.

PUBLICATIONS

For information on electric motor and engine controllers refer to manufacturer's published literature which may be obtained from the manufacturer or their representative. Refer to page 4 of Section 1510 for listing available fire pump publications from factory and listing agencies.

--Continued on pages 2 and 2.1--

STANDARDS FOR HORIZONTAL FIRE PUMPS

-Continued from page 1-

The National Fire Protection Associations, Technical Committee on Fire Pumps is made up of representatives of Underwriter's Laboratories (UL), of both the United States and Canada, Insurance Service Offices (ISO), Factory Mutual (FM), Industrial Risk Insurers (IRI), national trade associations, state government and fire protection equipment manufacturers. This committee is responsible for the preparation of the standard known as N.F.P.A. pamphlet #20.

N.F.P.A. #20 deals with the selection and installation of pumps supplying water for private fire protection. This standard covers the application, test, operation and maintenance of the fire pump system. N.F.P.A. #20 is the basic standard for centrifugal fire pumps and is recognized by both stock and mutual insurance organizations. Each of these maintains their own standards, testing facilities and approving organizations.

Testing Organization	**Underwriters Laboratories (UL)**	**Factory Mutual Research Corporation (FM)**	**Underwriters Laboratories of Canada (ULC)**
Published Standards	U. L. 448	F. M. Approved Standard Centrifugal Fire (Horizontal Split Case Type) Class 1311	ULC 2194U3
Publications of Labeled Equipment	U. L. Fire Protection Equipment List	F. M. Approval Guide	ULC List ofd Equipment and Materials Volume 1
* Local Inspection	Industrial Risk Insurer	F M. District Office	Industrial Risk Insurer

* **Local Inspection (authority having Jurisdiction) may also be associated with the I. S.O. state or local Fire Marshall, plant safety engineer, or the representative of a private insurer such as Kemper Insurance Company. The authority having jurisdiction will vary dependence upon the specific circumstances of each Installation.**

****Some authorities will accept the Underwriters' Laboratories of the United States (UL) label some will require the Underwriters laboratories of Canada (ULC) which is available on most Sterling Fluid Systems (USA), Inc. fire pumps. Order must specify the following Information when ULC label is required; Address of proposed installation, Suction pressure, Complete drive information such as electric motor Hp., voltage, Frequency Engine Model Rpm , etc.**

LABELED FIRE PUMPS

All labeled fire pumps must be specifically approved and/or listed for fire pump service. The capacity ratings are established by N.F.P.A. #20 and are recognized by both UL. and FM. The selection tables in following Section 1510 cover the permissible operating ranges for electric motor and diesel engine driven fire pumps. They have unique performance criteria which must be met in order to be labeled. The following defines the performance requirements of the Horizontal Fire Pumps.

All UL. listed fire pumps will have the above identification mark on pump nameplate.

All FM. approved fire pumps will have the above identification mark on pump nameplate.

All ULC listed fire pumps will have the above identification mark on pump nameplate.

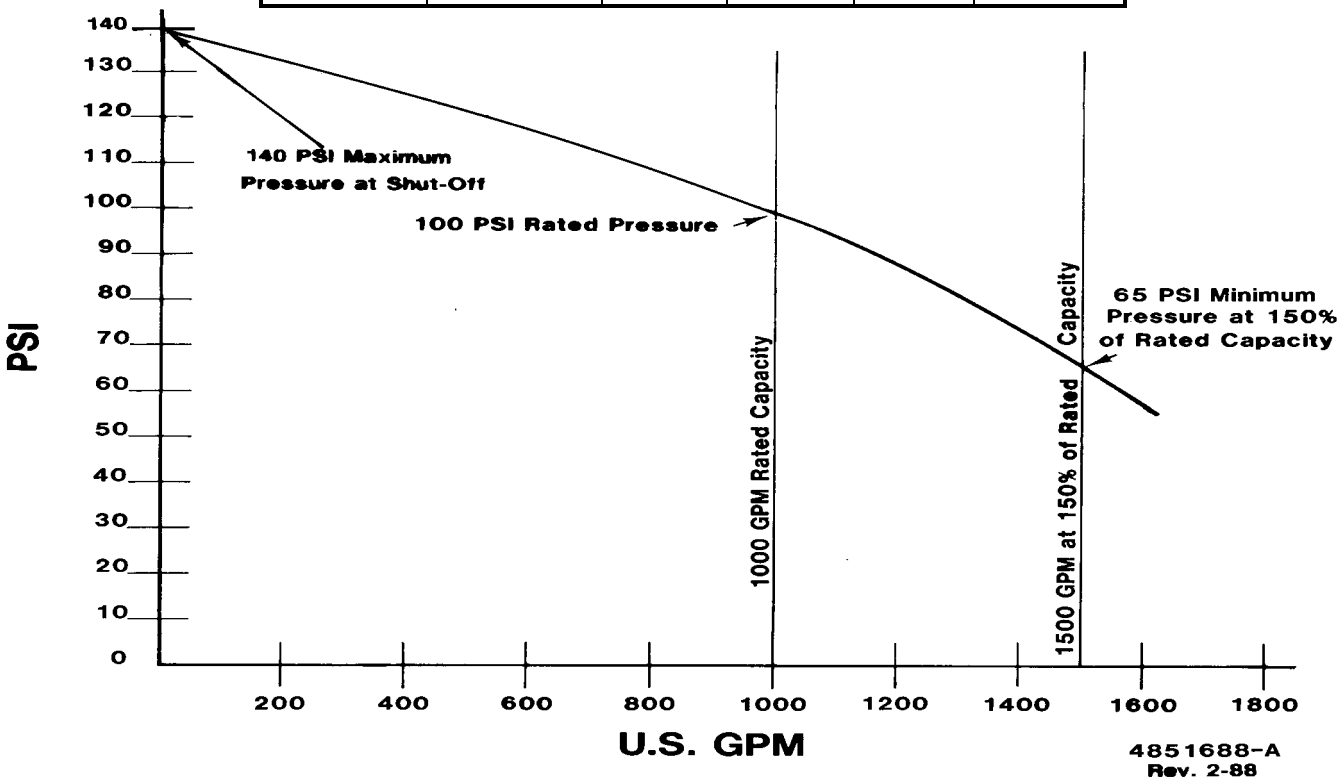
GENERAL INFORMATION AND APPLICATION DATA

- Continued-

HORIZONTAL FIRE PUMP PERFORMANCE CRITERIA

1. Rated Capacity - A labeled fire pump must be rated at one of the following capacities and at a net pressure not less than 40 psi.

GPM	L/Min	GPM	L/Min	GPM	L/Min
25	95	400	1514	2000	7570
50	189	450	1703	2500	9462
100	379	500	1892	3000	11351
150	568	750	2839	3500	13247
200	757	1000	3785	4000	15140
250	946	1250	4731	4500	17032
300	1136	1500	5677	5000	18925



2. Pumps shall develop 150% of rated capacity at not less that 65% of the total head and the shut off head shall not exceed 140% of the rated head. See example curve below.

3. Each pump is to be given a performance test demonstrating compliance to the above.
4. each fire pump is hydrostatically at one and one half times working pressure , but in no instance less than 250 psi.
5. Each pump shall be tested with a torquemeter, dynamometer, or calibrated test motor to determine maximum horsepower requirements. PVF inline fire pumps will be tested with their own job motor.
6. Each pump shall be furnished with a certified performance curve depicting total head, capacity and horsepower requirements

Blank

PUMP MODIFICATIONS

Listed and approved horizontal fire pumps may be UL, ULC and FM labeled when modified as shown below. Modifications are *LIMITED* to:

UL Listing	ULC Listing	FM Approved
Discharge flange, 250 ANSI std	Discharge flange, 250 ANSI std	Discharge flange, 250 ANSI std
Hardened stainless steel shaft sleeves	Hardened stainless steel shaft sleeves	Hardened stainless steel shaft sleeves
AISI 416 stainless steel shaft	AISI 416 stainless steel shaft	AISI 416 stainless steel shaft
Crane High Pressure packing	Crane High Pressure packing	Crane High Pressure packing
High tensile strength bolting	High tensile strength bolting	High tensile strength bolting
High tensile strength pump casing	High tensile strength pump casing	High tensile strength pump casing
Suction flange, 250 ANSI std.	Suction flange, 250 ANSI std.	Suction flange, 250 ANSI std.
Bronze Impeller Rings	Bronze Impeller Rings	Bronze Impeller Rings
Double Row Thrust Bearing Construction	Double Row Thrust Bearing Construction	Double Row Thrust Bearing Construction
316 stainless steel Impeller, Casing, Shaft Sleeves, Packing Glands, Casing Rings	-	316 SS Shaft Sleeves, Packing Glands, Casing Rings
17-4PH stainless steel shaft	-	17-4PH stainless steel shaft
Monel K500 Shafting	-	Monel K500 Shafting
Aluminum-Bronze or Nickel-Aluminum-Bronze for Casings, Impellers, Shaft Sleeves, Stuffing Box Bushings, Packing Glands, Casing Rings	-	Aluminum-Bronze or Nickel-Aluminum-Bronze for Impellers, Shaft Sleeves, Stuffing Box Bushings, Packing Glands, Casing Rings
Ni-Resist for Casings (Limited to 125 Lb. ANSI Flanges), Impellers, Shaft Sleeves, Stuffing Box Bushings, Packing Glands, Casing Rings	-	-

Pumps containing any or all of the above modifications will be identified with the addition of an "H" to the pump model number.

Example:
3AEF9 = standard construction
3AEF9H = heavy construction

IMPORTANT: Modifications are limited to items above. Any other modifications such as; cast iron impellers, mechanical seals, etc., ***will void the UL, ULC or FM label.***

Modifications for heavy construction are limited to the individual pump capabilities as determined by the Indianapolis Proposal Department. Contact the Indianapolis factory to determine which modifications are required. Inquiry must include pump model, rated head, rated flow and maximum suction pressure.

Subject to change without notice.

FIRE PUMP PUBLICATIONS

We encourage you to become familiar with the following Fire Pump Publications.

A. Peerless Pump Company bulletins of Fire Pumps and Equipment:
1. B1500 (General Fire Pump Bulletin)
2. B1510 (General Selection Tables and layout dimensions for Inline, Horizontal Split Case and Vertical Turbine Fire Pumps)
3. B1583 (Base Mounted Motor Controllers)
4. B1585 (Base Mounted Engine Controllers)

Available from:

Marketing Services Department
Peerless Pump Company
P. O. Box 7026
Indianapolis, IN 46207-7026

Cost is ***No Charge (we reserve the right to limit quantities)***

B. NFPA Pamphlet Number 20 (Selection & Installation of Fire Protection Equipment)(Revised Bi-annually).
Available from:

Publication Sales Division
National Fire Protection Association Inc.
Batterymarch Park
P. O. Box 9101
Quincy, MA. 02269-9101
Phone 1-800-344-3555; www.nfpa.org/catalog

Cost is $33.50 Each plus $7.95 (US $) handling charge, payment in advance.

C. UL Fire Protection Equipment: (Description of UL Listed Equipment)(Revised annually).
Available from:

Publication Stock
Underwriters Laboratories Inc.
333 Pfingsten Road
Northbrook, IL. 60062-2096
Phone 847-664-2899 or 1-800-704-4050; e-mail directories@us.ul.com

Cost is $40.00 Each plus shipping and handling charges

D. FM Approval Guide (Description of FM Approved Equipment)(Revised annually).
Available from:

Order Processing Department
Factory Mutual Engineering & Research Corp.
1151 Boston-Providence Turnpike
P. O. Box 9012
Norwood, MA. 02062-9901

Cost is $110 (US $) Each , payment in advance paper edition

E. ULC-FP-04 Fire Potection Equipment
Available from:

Underwriter's Laboratory of Canada
7 Underwriters Road
Toronto, Ontario MIR 3B4
Canada
Phone 416-757-3611; Fax 416-757-1781; www.ulc.ca; e-mail sales@ulc.ca

Cost is $85.00 Each plus shipping and handling (Canadian $), payment in advance.

HORIZONTAL FIRE PUMPS
Diesel Engine Driven Units

Peerless Pump Company
Indianapolis, IN 46207-7026

Fire Pump Diesel Engine Selection

The compression ignition diesel engine is the only currently acceptable engine for fire pump service. The engine must be specifically labeled for fire pump service by a nationally recognized testing laboratory. Spark ignited engines fueled with gasoline, natural gas, LPG are not acceptable engines for fire pump service.

Fire pump diesel engines are rated in accordance with the current issue of NFPA Pamphlet No. 20 with the standard conditions of 300 feet (91.4m) altitude, an air temperature entering the engine air cleaner of 77^{O} F. (25^{O} C.) and at the atmospheric pressure of 29.61 inches (752mm) of Hg.. Table No. 1 (on opposite page 44.5) tabulates the listed usable Bhp of the fire pump diesel engines available from Peerless Pump Company which meet these criteria.

The current issue of NFPA Pamphlet No.20 specifies the following engine Bhp de-rates if fire pump job site's altitude is greater than 300 feet and air temperature entering air cleaner is greater than 77^{O} F.:

A. Derate engine listed usable Bhp 3% for each 1000 feet altitude above 300 feet.
B. Derate engine listed usable Bhp 1% for each 10^{O} F. above 77^{O} F..

Table No. 2 (on opposite page 36.7) tabulates the engine de-rate multiplier factors to be applied to Table No. 1 engine listed Bhp's to calculate the usable engine Bhp when job site's altitude and temperature exceeds 300 feet and 77^{O} F. respectively.

After the pump model is determined from the preceding selection tables and the required pump Bhp is noted, select the engine according to job site's altitude and temperature per one of the following methods:

1. If job site's altitude is 300 feet or less and temperature entering air cleaner is 77^{O} F. or less, select engine from Table No. 1 that has a listed Bhp equal to or greater than required pump Bhp. (See Example No. 1)
2. If job site's altitude is greater than 300 feet and/or air temperature entering the air cleaner is greater than 77^{O} F., refer to Table No. 2 and note the multiplier factor that is to be used for the job site's altitude and/or temperature. Refer to Table No. 1 and select an engine with a listed Bhp closest to but greater than required pump Bhp and multiply by the altitude/temperature factor. If the product is equal to or greater than required pump Bhp, the selected engine may be used. If not, then select the next engine model which has a greater Bhp than the preliminary selected engine and repeat the Bhp calculation procedure. (See Example No. 2)

Example No. 1:
From the selection tables a model 4AEF10, 500 GPM, 231 Feet Head (100 psi), 3000 Rpm, engine driven fire pump having 59 maximum Bhp, is required for a job site altitude of 300 feet with an air temperature of 70^{O} F..

Per Method (1) above the engine can be selected directly from Table No. 1 which would be a Clarke model DDFP03DN engine having 91 listed Bhp at 3000 Rpm since base altitude and temperature has not been exceeded for the listed Bhp of the engine.

Example No. 2:
From the selection tables a model 6AEF16, 1250 GPM, 254 Feet Head (110 psi), 1760 Rpm, engine driven fire pump having 126 maximum Bhp, Is required for a job site altitude of 2000 feet with an air temperature of 95^{O} F..

Method (1) cannot be used as base altitude and temperature is exceeded and Method (2) must be used In selecting engine. From Table No 1 a preliminary selection would be a Clarke model PDFPL6YW engine having a listed rating of 130 Bhp which is the listed Bhp closest to, but greater than the pump required Bhp. From Table No. 2, the de-rate factor for application would be .931, therefore, the maximum usable engine Bhp would be 121 (130 x .931 = 121.03 Bhp) for the PDFPL6YW at 2000 feet altitude and 95^{O} F. temperature. Since the pump requires a maximum of 126 Bhp, the PDFPL6YW engine cannot be used.

Repeating the selection step, from Table 1, the next available engine with a Bhp greater than the PDFPL6YW would be the Caterpillar model 3208DINA(210) engine having a listed rating of 141 Bhp. Using the same de-rate factor of .931 the maximum usable engine Bhp would be 131 (141 x .931 = 131.27 Bhp) for the Caterpillar model 3208DINA(210) engine at 2000 feet altitude and 95^{O} F. temperature which would be suitable for the application.

NOTE: Above examples may not reflect the most economical engine selections.

TABLE NO. 2 ALTITUDE/TEMPERATURE DERATE

ALTITUDE FEET Above Sea Level	TEMPERATURE ^{O}F.													
	77°	80°	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°	140°
300	1.000	.997	.992	.987	.982	.977	.972	.967	.962	.957	.952	.947	.942	.937
1000	.979	.976	.971	.966	.961	.956	.951	.946	.941	.936	.931	.926	.921	.916
1500	.964	.961	.956	.951	.946	.941	.936	.931	.926	.921	.916	.911	.906	.901
2000	.949	.946	.941	.936	.931	.926	.921	.916	.911	.906	.901	.896	.891	.886
2500	.934	.931	.926	.921	.916	.911	.906	.901	.896	.891	.886	.881	.876	.871
3000	.919	.916	.911	.906	.901	.896	.891	.886	.881	.876	.871	.866	.861	.856
3500	.904	.901	.896	.891	.886	.881	.876	.871	.866	.861	.856	.851	.846	.841
4000	.889	.886	.881	.876	.871	.866	.861	.856	.851	.846	.841	.836	.831	.826
4500	.874	.871	.866	.861	.856	.851	.846	.841	.836	.831	.826	.821	.816	.811
5000	.859	.856	.851	.846	.841	.836	.831	.826	.821	.816	.811	.806	.801	.796
5500	.844	.841	.836	.831	.826	.821	.816	.811	.806	.801	.796	.791	.786	.781
6000	.829	.826	.821	.816	.811	.806	.801	.796	.791	.786	.781	.776	.771	.766
6500	.814	.811	.806	.801	.796	.791	.786	.781	.776	.771	.766	.761	.756	.751
7000	.799	.796	.791	.786	.781	.776	.771	.766	.761	.756	.751	.746	.741	.736

Peerless Pump Company
Indianapolis, IN 46207-7026

Horizontal & Inline Fire Pumps
Selection Tables

60 Hertz Motor

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled
3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with 1.15 Service Factor	Type Pump (1)
	Psi	Feet									
50	47	109	2.5PVF8	118	51	3520	6.3	7.5	7.5	N.A.	2
50	47	109	2½PVF8M	118	51	3520	6.3	N.A.	7.5	N.A.	2
50	50	116	2.5PVF8	127	55	3520	6.9	7.5	7.5	N.A.	2
50	50	116	2½PVF8M	127	55	3520	6.9	N.A.	7.5	N.A.	2
50	55	127	2.5PVF8	136	59	3520	8.1	7.5	7.5	N.A.	2
50	55	127	2½PVF8M	136	59	3520	8.1	N.A.	7.5	N.A.	2
50	60	139	2.5PVF8	150	65	3520	9.3	10.0	10.0	N.A.	2
50	60	139	2½PVF8M	150	65	3520	9.3	N.A.	10.0	N.A.	2
50	65	150	2.5PVF8	159	69	3520	10.5	10.0	10.0	N.A.	2
50	65	150	2½PVF8M	159	69	3520	10.5	N.A.	10.0	N.A.	2
50	70	162	2.5PVF8	171	74	3520	11.7	15.0	15.0	N.A.	2
50	70	162	2½PVF8M	171	74	3520	11.7	N.A.	15.0	N.A.	2
50	75	173	2.5PVF8	182	79	3520	12.9	15.0	15.0	N.A.	2
50	75	173	2½PVF8M	182	79	3520	12.9	N.A.	15.0	N.A.	2
50	80	185	2.5PVF8	194	84	3520	14.1	15.0	15.0	N.A.	2
50	80	185	2½PVF8M	194	84	3520	14.1	N.A.	15.0	N.A.	2
50	85	196	2.5PVF8	206	89	3520	15.3	15.0	15.0	N.A.	2
50	85	196	2½PVF8M	206	89	3520	15.3	N.A.	15.0	N.A.	2
50	90	208	2.5PVF8	217	94	3520	16.5	15.0	15.0	N.A.	2
50	90	208	2½PVF8M	217	94	3520	16.5	N.A.	15.0	N.A.	2
50	95	219	2.5PVF8	229	99	3520	17.7	20.0	20.0	N.A.	2
50	95	219	2½PVF8M	229	99	3520	17.7	N.A.	20.0	N.A.	2
50	100	231	2.5PVF8	240	104	3520	18.9	20.0	20.0	N.A.	2
50	100	231	2½PVF8M	240	104	3520	18.9	N.A.	20.0	N.A.	2
50	103	238	2.5PVF8	248	107	3520	19.6	20.0	20.0	N.A.	2
50	103	238	2½PVF8M	248	107	3520	19.6	N.A.	20.0	N.A.	2
100	44	102	2.5PVF8	118	51	3520	6.3	7.5	7.5	N.A.	2
100	44	102	2½PVF8M	118	51	3520	6.3	N.A.	7.5	N.A.	2
100	45	104	2.5PVF8	122	53	3520	6.4	7.5	7.5	N.A.	2
100	45	104	2½PVF8M	122	53	3520	6.4	N.A.	7.5	N.A.	2
100	50	116	2.5PVF8	129	56	3520	7.6	7.5	7.5	N.A.	2
100	50	116	2½PVF8M	129	56	3520	7.6	N.A.	7.5	N.A.	2
100	55	127	2.5PVF8	141	61	3520	8.8	10.0	10.0	N.A.	2
100	55	127	2½PVF8M	141	61	3520	8.8	N.A.	10.0	N.A.	2
100	60	139	2.5PVF8	152	66	3520	10.0	10.0	10.0	N.A.	2
100	60	139	2½PVF8M	152	66	3520	10.0	N.A.	10.0	N.A.	2
100	65	150	2.5PVF8	164	71	3520	11.2	10.0	10.0	N.A.	2
100	65	150	2½PVF8M	164	71	3520	11.2	N.A.	10.0	N.A.	2
100	70	162	2.5PVF8	176	76	3520	12.4	15.0	15.0	N.A.	2
100	70	162	2½PVF8M	176	76	3520	12.4	N.A.	15.0	N.A.	2
100	75	173	2.5PVF8	187	81	3520	13.6	15.0	15.0	N.A.	2
100	75	173	2½PVF8M	187	81	3520	13.6	N.A.	15.0	N.A.	2
100	80	185	2.5PVF8	199	86	3520	14.8	15.0	15.0	N.A.	2
100	80	185	2½PVF8M	199	86	3520	14.8	N.A.	15.0	N.A.	2
100	85	196	2.5PVF8	210	91	3520	16.2	15.0	15.0	N.A.	2
100	85	196	2½PVF8M	210	91	3520	16.2	N.A.	15.0	N.A.	2
100	89	206	3PVF11	229	99	3500	27.0	25.0	25.0	N.A.	2
100	89	206	3PVF11M	229	99	3500	27.0	N.A.	25.0	N.A.	2

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled
3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with 1.15 Service Factor	Type Pump (1)
	Psi	Feet									
100	90	208	2.5PVF8	222	96	3520	17.4	20.0	20.0	N.A.	2
100	90	208	2½PVF8M	222	96	3520	17.4	N.A.	20.0	N.A.	2
100	95	219	2.5PVF8	233	101	3520	18.6	20.0	20.0	N.A.	2
100	95	219	2½PVF8M	233	101	3520	18.6	N.A.	20.0	N.A.	2
100	100	231	2.5PVF8	247	107	3520	19.6	20.0	20.0	N.A.	2
100	100	231	2½PVF8M	247	107	3520	19.6	N.A.	20.0	N.A.	2
100	101	233	2.5PVF8	247	107	3520	19.6	20.0	20.0	N.A.	2
100	101	233	2½PVF8M	247	107	3520	19.6	N.A.	20.0	N.A.	2
100	105	243	3PVF11	261	113	3500	29.0	30.0	30.0	N.A.	2
100	105	243	3PVF11M	261	113	3500	29.0	N.A.	30.0	N.A.	2
100	110	254	3PVF11	273	118	3500	31.0	30.0	30.0	N.A.	2
100	110	254	3PVF11M	273	118	3500	31.0	N.A.	30.0	N.A.	2
100	115	266	3PVF11	284	123	3500	34.0	30.0	30.0	N.A.	2
100	115	266	3PVF11M	284	123	3500	34.0	N.A.	30.0	N.A.	2
100	120	277	3PVF11	293	127	3500	39.0	40.0	40.0	N.A.	2
100	120	277	3PVF11M	293	127	3500	39.0	N.A.	40.0	N.A.	2
100	125	289	3PVF11	305	132	3500	41.0	40.0	40.0	N.A.	2
100	125	289	3PVF11M	305	132	3500	41.0	N.A.	40.0	N.A.	2
100	130	300	3PVF11	314	136	3500	43.0	40.0	40.0	N.A.	2
100	130	300	3PVF11M	314	136	3500	43.0	N.A.	40.0	N.A.	2
100	135	312	3PVF11	326	141	3500	45.0	40.0	40.0	N.A.	2
100	135	312	3PVF11M	326	141	3500	45.0	N.A.	40.0	N.A.	2
100	140	323	3PVF11	337	146	3500	46.0	40.0	40.0	N.A.	2
100	140	323	3PVF11M	337	146	3500	46.0	N.A.	40.0	N.A.	2
100	145	335	3PVF11	347	150	3500	49.0	50.0	50.0	N.A.	2
100	145	335	3PVF11M	347	150	3500	49.0	N.A.	50.0	N.A.	2
100	150	347	3PVF11	358	155	3500	51.0	50.0	50.0	N.A.	2
100	150	347	3PVF11M	358	155	3500	51.0	N.A.	50.0	N.A.	2
100	155	358	3PVF11	367	159	3500	53.0	50.0	50.0	N.A.	2
100	155	358	3PVF11M	367	159	3500	53.0	N.A.	50.0	N.A.	2
100	160	370	3PVF11	379	164	3500	55.0	50.0	50.0	N.A.	2
100	160	370	3PVF11M	379	164	3500	55.0	N.A.	50.0	N.A.	2
100	165	381	3PVF11	390	169	3500	57.0	50.0	50.0	N.A.	2
100	165	381	3PVF11M	390	169	3500	57.0	N.A.	50.0	N.A.	2
100	170	393	3PVF11	400	173	3500	59.0	60.0	60.0	N.A.	2
100	170	393	3PVF11M	400	173	3500	59.0	N.A.	60.0	N.A.	2
100	176	407	3PVF11	423	183	3500	63.0	60.0	60.0	N.A.	2
100	176	407	3PVF11M	423	183	3500	63.0	N.A.	60.0	N.A.	2
150	41	95	2.5PVF8	118	51	3520	6.3	7.5	7.5	N.A.	2
150	41	95	2½PVF8M	118	51	3520	6.3	N.A.	7.5	N.A.	2
150	45	104	2.5PVF8	127	55	3520	6.9	7.5	7.5	N.A.	2
150	45	104	2½PVF8M	127	55	3520	6.9	N.A.	7.5	N.A.	2
150	50	116	2.5PVF8	136	59	3520	8.1	7.5	7.5	N.A.	2
150	50	116	2½PVF8M	136	59	3520	8.1	N.A.	7.5	N.A.	2
150	55	127	2.5PVF8	150	65	3520	9.3	10.0	10.0	N.A.	2
150	55	127	2½PVF8M	150	65	3520	9.3	N.A.	10.0	N.A.	2
150	60	139	2.5PVF8	159	69	3520	10.5	10.0	10.0	N.A.	2
150	60	139	2½PVF8M	159	69	3520	10.5	N.A.	10.0	N.A.	2

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled
3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with 1.15 Service Factor	Type Pump (1)
	Psi	Feet									
150	65	150	2.5PVF8	171	74	3520	11.7	15.0	15.0	N.A.	2
150	65	150	2½PVF8M	171	74	3520	11.7	N.A.	15.0	N.A.	2
150	70	162	2.5PVF8	182	79	3520	12.9	15.0	15.0	N.A.	2
150	70	162	2½PVF8M	182	79	3520	12.9	N.A.	15.0	N.A.	2
150	75	173	2.5PVF8	194	84	3520	14.1	15.0	15.0	N.A.	2
150	75	173	2½PVF8M	194	84	3520	14.1	N.A.	15.0	N.A.	2
150	80	185	2.5PVF8	206	89	3520	15.3	15.0	15.0	N.A.	2
150	80	185	2½PVF8M	206	89	3520	15.3	N.A.	15.0	N.A.	2
150	85	196	2.5PVF8	217	94	3520	16.5	15.0	15.0	N.A.	2
150	85	196	2½PVF8M	217	94	3520	16.5	N.A.	15.0	N.A.	2
150	88	203	3PVF11	235	102	3500	25.0	25.0	25.0	N.A.	2
150	88	203	3PVF11M	235	102	3500	25.0	N.A.	25.0	N.A.	2
150	90	208	2.5PVF8	229	99	3520	17.7	20.0	20.0	N.A.	2
150	90	208	2½PVF8M	229	99	3520	17.7	N.A.	20.0	N.A.	2
150	95	219	2.5PVF8	240	104	3520	18.9	20.0	20.0	N.A.	2
150	95	219	2½PVF8M	240	104	3520	18.9	N.A.	20.0	N.A.	2
150	98	226	2.5PVF8	247	107	3520	19.6	20.0	20.0	N.A.	2
150	98	226	2½PVF8M	247	107	3520	19.6	N.A.	20.0	N.A.	2
150	100	231	3PVF11	236	102	3500	26.0	25.0	25.0	N.A.	2
150	100	231	3PVF11M	236	102	3500	26.0	N.A.	25.0	N.A.	2
150	105	243	3PVF11	247	107	3500	28.0	25.0	25.0	N.A.	2
150	105	243	3PVF11M	247	107	3500	28.0	N.A.	25.0	N.A.	2
150	110	254	3PVF11	257	111	3500	29.5	30.0	30.0	N.A.	2
150	110	254	3PVF11M	257	111	3500	29.5	N.A.	30.0	N.A.	2
150	115	266	3PVF11	270	117	3500	39.0	40.0	40.0	N.A.	2
150	115	266	3PVF11M	270	117	3500	39.0	N.A.	40.0	N.A.	2
150	120	277	3PVF11	281	121	3500	33.0	30.0	30.0	N.A.	2
150	120	277	3PVF11M	281	121	3500	33.0	N.A.	30.0	N.A.	2
150	125	289	3PVF11	292	126	3500	35.0	40.0	40.0	N.A.	2
150	125	289	3PVF11M	292	126	3500	35.0	N.A.	40.0	N.A.	2
150	130	300	3PVF11	303	131	3500	39.0	40.0	40.0	N.A.	2
150	130	300	3PVF11M	303	131	3500	39.0	N.A.	40.0	N.A.	2
150	135	312	3PVF11	315	136	3500	42.0	40.0	40.0	N.A.	2
150	135	312	3PVF11M	315	136	3500	42.0	N.A.	40.0	N.A.	2
150	140	323	3PVF11	327	141	3500	44.0	40.0	40.0	N.A.	2
150	140	323	3PVF11M	327	141	3500	44.0	N.A.	40.0	N.A.	2
150	145	335	3PVF11	338	146	3500	46.0	40.0	40.0	N.A.	2
150	145	335	3PVF11M	338	146	3500	46.0	N.A.	40.0	N.A.	2
150	150	347	3PVF11	349	151	3500	48.0	50.0	50.0	N.A.	2
150	150	347	3PVF11M	349	151	3500	48.0	N.A.	50.0	N.A.	2
150	155	358	3PVF11	361	156	3500	51.0	50.0	50.0	N.A.	2
150	155	358	3PVF11M	361	156	3500	51.0	N.A.	50.0	N.A.	2
150	160	370	3PVF11	379	164	3500	53.0	50.0	50.0	N.A.	2
150	160	370	3PVF11M	379	164	3500	53.0	N.A.	50.0	N.A.	2
150	165	381	3PVF11	391	169	3500	55.0	50.0	50.0	N.A.	2
150	165	381	3PVF11M	391	169	3500	55.0	N.A.	50.0	N.A.	2
150	170	393	3PVF11	402	174	3500	58.0	60.0	60.0	N.A.	2
150	170	393	3PVF11M	402	174	3500	58.0	N.A.	60.0	N.A.	2

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled
3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with 1.15 Service Factor	Type Pump (1)
	Psi	Feet									
150	175	404	3PVF11	414	179	3500	60.0	60.0	60.0	N.A.	2
150	175	404	3PVF11M	414	179	3500	60.0	N.A.	60.0	N.A.	2
200	45	104	3PVF8	122	53	3500	12.0	15.0	15.0	N.A.	2
200	45	104	3PVF8M	122	53	3500	12.0	N.A.	15.0	N.A.	2
200	50	116	3PVF8	134	58	3500	14.0	15.0	15.0	N.A.	2
200	50	116	3PVF8M	134	58	3500	14.0	N.A.	15.0	N.A.	2
200	55	127	3PVF8	143	62	3500	16.0	15.0	15.0	N.A.	2
200	55	127	3PVF8M	143	62	3500	16.0	N.A.	15.0	N.A.	2
200	60	139	3PVF8	155	67	3500	18.0	20.0	20.0	N.A.	2
200	60	139	3PVF8M	155	67	3500	18.0	N.A.	20.0	N.A.	2
200	65	150	3PVF8	166	72	3500	20.0	20.0	20.0	N.A.	2
200	65	150	3PVF8M	166	72	3500	20.0	N.A.	20.0	N.A.	2
200	70	162	3PVF8	178	77	3500	22.0	20.0	20.0	N.A.	2
200	70	162	3PVF8M	178	77	3500	22.0	N.A.	20.0	N.A.	2
200	75	173	3PVF8	187	81	3500	24.0	25.0	25.0	N.A.	2
200	75	173	3PVF8M	187	81	3500	24.0	N.A.	25.0	N.A.	2
200	80	185	3PVF8	199	86	3500	26.0	25.0	25.0	N.A.	2
200	80	185	3PVF8M	199	86	3500	26.0	N.A.	25.0	N.A.	2
200	85	196	3PVF8	210	91	3500	28.0	25.0	25.0	N.A.	2
200	85	196	3PVF8M	210	91	3500	28.0	N.A.	25.0	N.A.	2
200	87	201	3PVF11	235	101	3500	25.0	25.0	25.0	N.A.	2
200	87	201	3PVF11M	235	101	3500	25.0	N.A.	25.0	N.A.	2
200	90	208	3PVF8	222	96	3500	25.0	25.0	25.0	N.A.	2
200	90	208	3PVF8M	222	96	3500	25.0	N.A.	25.0	N.A.	2
200	95	219	3PVF8	233	101	3500	32.0	25.0	25.0	N.A.	2
200	95	219	3PVF8M	233	101	3500	32.0	N.A.	25.0	N.A.	2
200	100	231	3PVF8	238	103	3500	26.4	25.0	25.0	N.A.	2
200	100	231	3PVF8M	238	103	3500	26.4	N.A.	25.0	N.A.	2
200	105	243	3PVF11	252	109	3500	28.0	25.0	25.0	N.A.	2
200	105	243	3PVF11M	252	109	3500	28.0	N.A.	25.0	N.A.	2
200	110	254	3PVF11	261	113	3500	30.0	30.0	30.0	N.A.	2
200	110	254	3PVF11M	261	113	3500	30.0	N.A.	30.0	N.A.	2
200	115	266	3PVF11	275	119	3500	32.0	30.0	30.0	N.A.	2
200	115	266	3PVF11M	275	119	3500	32.0	N.A.	30.0	N.A.	2
200	120	277	3PVF11	282	122	3500	34.0	30.0	30.0	N.A.	2
200	120	277	3PVF11M	282	122	3500	34.0	N.A.	30.0	N.A.	2
200	125	289	3PVF11	296	128	3500	36.0	40.0	40.0	N.A.	2
200	125	289	3PVF11M	296	128	3500	36.0	N.A.	40.0	N.A.	2
200	130	300	3PVF11	305	132	3500	38.0	40.0	40.0	N.A.	2
200	130	300	3PVF11M	305	132	3500	38.0	N.A.	40.0	N.A.	2
200	135	312	3PVF11	319	138	3500	42.0	40.0	40.0	N.A.	2
200	135	312	3PVF11M	319	138	3500	42.0	N.A.	40.0	N.A.	2
200	140	323	3PVF11	328	142	3500	44.0	40.0	40.0	N.A.	2
200	140	323	3PVF11M	328	142	3500	44.0	N.A.	40.0	N.A.	2
200	145	335	3PVF11	342	148	3500	47.0	50.0	50.0	N.A.	2
200	145	335	3PVF11M	342	148	3500	47.0	N.A.	50.0	N.A.	2
200	150	347	3PVF11	351	152	3500	49.0	50.0	50.0	N.A.	2
200	150	347	3PVF11M	351	152	3500	49.0	N.A.	50.0	N.A.	2

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled
3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with 1.15 Service Factor	Type Pump (1)
	Psi	Feet									
200	155	358	3PVF11	363	157	3500	52.0	50.0	50.0	N.A.	2
200	155	358	3PVF11M	363	157	3500	52.0	N.A.	50.0	N.A.	2
200	160	370	3PVF11	381	165	3500	54.0	50.0	50.0	N.A.	2
200	160	370	3PVF11M	381	165	3500	54.0	N.A.	50.0	N.A.	2
200	165	381	3PVF11	394	170	3500	56.0	50.0	50.0	N.A.	2
200	165	381	3PVF11M	394	170	3500	56.0	N.A.	50.0	N.A.	2
200	170	393	3PVF11	405	175	3500	58.0	60.0	60.0	N.A.	2
200	170	393	3PVF11M	405	175	3500	58.0	N.A.	60.0	N.A.	2
200	174	402	3PVF11	415	183	3500	60.2	60.0	60.0	N.A.	2
200	174	402	3PVF11M	415	183	3500	60.2	N.A.	60.0	N.A.	2
250	44	102	3PVF8	122	53	3500	0.0	0.0	0.0	N.A.	2
250	44	102	3PVF8M			3500	0.0	N.A.	0.0	N.A.	2
250	45	104	3PVF8	122	53	3500	12.0	15.0	15.0	N.A.	2
250	45	104	3PVF8M	122	53	3500	12.0	N.A.	15.0	N.A.	2
250	50	116	3PVF8	134	58	3500	14.0	15.0	15.0	N.A.	2
250	50	116	3PVF8M	134	58	3500	14.0	N.A.	15.0	N.A.	2
250	55	127	3PVF8	143	62	3500	16.0	15.0	15.0	N.A.	2
250	55	127	3PVF8M	143	62	3500	16.0	N.A.	15.0	N.A.	2
250	60	139	3PVF8	155	67	3500	18.0	20.0	20.0	N.A.	2
250	60	139	3PVF8M	155	67	3500	18.0	N.A.	20.0	N.A.	2
250	65	150	3PVF8	166	72	3500	20.0	20.0	20.0	N.A.	2
250	65	150	3PVF8M	166	72	3500	20.0	N.A.	20.0	N.A.	2
250	70	162	3PVF8	178	77	3500	22.0	20.0	20.0	N.A.	2
250	70	162	3PVF8M	178	77	3500	22.0	N.A.	20.0	N.A.	2
250	75	173	3PVF8	187	81	3500	24.0	25.0	25.0	N.A.	2
250	75	173	3PVF8M	187	81	3500	24.0	N.A.	25.0	N.A.	2
250	80	185	3PVF8	199	86	3500	26.0	25.0	25.0	N.A.	2
250	80	185	3PVF8M	199	86	3500	26.0	N.A.	25.0	N.A.	2
250	85	196	3PVF8	210	91	3500	28.0	25.0	25.0	N.A.	2
250	85	196	3PVF8M	210	91	3500	28.0	N.A.	25.0	N.A.	2
250	86	199	3PVF11	235	102	3500	26.0	25.0	25.0	N.A.	2
250	86	199	3PVF11M	235	102	3500	26.0	N.A.	25.0	N.A.	2
250	90	208	3PVF8	222	96	3500	30.0	30.0	30.0	N.A.	2
250	90	208	3PVF8M	222	96	3500	30.0	N.A.	30.0	N.A.	2
250	95	219	3PVF8	233	101	3500	32.0	30.0	30.0	N.A.	2
250	95	219	3PVF8M	233	101	3500	32.0	N.A.	30.0	N.A.	2
250	100	231	3PVF8	247	107	3500	28.0	30.0	30.0	N.A.	2
250	100	231	3PVF8M	247	107	3500	28.0	N.A.	30.0	N.A.	2
250	105	243	3PVF11	259	112	3500	30.0	30.0	30.0	N.A.	2
250	105	243	3PVF11M	259	112	3500	30.0	N.A.	30.0	N.A.	2
250	110	254	3PVF11	268	116	3500	31.0	30.0	30.0	N.A.	2
250	110	254	3PVF11M	268	116	3500	31.0	N.A.	30.0	N.A.	2
250	115	266	3PVF11	282	122	3500	34.5	30.0	30.0	N.A.	2
250	115	266	3PVF11M	282	122	3500	34.5	N.A.	30.0	N.A.	2
250	120	277	3PVF11	289	125	3500	36.0	40.0	40.0	N.A.	2
250	120	277	3PVF11M	289	125	3500	36.0	N.A.	40.0	N.A.	2
250	125	289	3PVF11	303	131	3500	38.0	40.0	40.0	N.A.	2
250	125	289	3PVF11M	303	131	3500	38.0	N.A.	40.0	N.A.	2

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled
3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with 1.15 Service Factor	Type Pump (1)
	Psi	Feet									
250	130	300	3PVF11	312	135	3500	40.0	40.0	40.0	N.A.	2
250	130	300	3PVF11M	312	135	3500	40.0	N.A.	40.0	N.A.	2
250	135	312	3PVF11	323	140	3500	42.0	40.0	40.0	N.A.	2
250	135	312	3PVF11M	323	140	3500	42.0	N.A.	40.0	N.A.	2
250	140	323	3PVF11	335	145	3500	47.0	50.0	50.0	N.A.	2
250	140	323	3PVF11M	335	145	3500	47.0	N.A.	50.0	N.A.	2
250	145	335	3PVF11	347	150	3500	49.0	50.0	50.0	N.A.	2
250	145	335	3PVF11M	347	150	3500	49.0	N.A.	50.0	N.A.	2
250	150	347	3PVF11	358	155	3500	51.0	50.0	50.0	N.A.	2
250	150	347	3PVF11M	358	155	3500	51.0	N.A.	50.0	N.A.	2
250	155	358	3PVF11	379	164	3500	53.0	50.0	50.0	N.A.	2
250	155	358	3PVF11M	379	164	3500	53.0	N.A.	50.0	N.A.	2
250	160	370	3PVF11	390	169	3500	55.0	50.0	50.0	N.A.	2
250	160	370	3PVF11M	390	169	3500	55.0	N.A.	50.0	N.A.	2
250	165	381	3PVF11	400	173	3500	57.6	60.0	60.0	N.A.	2
250	165	381	3PVF11M	400	173	3500	57.6	N.A.	60.0	N.A.	2
250	170	393	3PVF11	411	178	3500	60.0	60.0	60.0	N.A.	2
250	170	393	3PVF11M	411	178	3500	60.0	N.A.	60.0	N.A.	2
250	173	400	3PVF11	423	183	3500	61.5	60.0	60.0	N.A.	2
250	173	400	3PVF11M	423	183	3500	61.5	N.A.	60.0	N.A.	2
300	40	92	4PVF8G	116	50	3520	13.0	15.0	15.0	N.A.	2
300	40	92	4PVF8GM	116	50	3520	13.0	N.A.	15.0	N.A.	2
300	45	104	4PVF8G	127	55	3520	15.0	15.0	15.0	N.A.	2
300	45	104	4PVF8GM	127	55	3520	15.0	N.A.	15.0	N.A.	2
300	50	116	4PVF8G	140	61	3520	16.0	15.0	15.0	N.A.	2
300	50	116	4PVF8GM	140	61	3520	16.0	N.A.	15.0	N.A.	2
300	50	116	5PVF7	125	54	3520	18.5	20.0	20.0	N.A.	2
300	50	116	5PVF7M	125	54	3520	18.5	N.A.	20.0	N.A.	2
300	55	127	4PVF8G	149	65	3520	18.0	20.0	20.0	N.A.	2
300	55	127	4PVF8GM	149	65	3520	18.0	N.A.	20.0	N.A.	2
300	55	127	5PVF7	136	59	3520	21.2	20.0	20.0	N.A.	2
300	55	127	5PVF7M	136	59	3520	21.2	N.A.	20.0	N.A.	2
300	60	139	4PVF8G	160	69	3520	20.0	20.0	20.0	N.A.	2
300	60	139	4PVF8GM	160	69	3520	20.0	N.A.	20.0	N.A.	2
300	60	139	5PVF7	146	63	3520	23.9	25.0	25.0	N.A.	2
300	60	139	5PVF7M	146	63	3520	23.9	N.A.	25.0	N.A.	2
300	65	28	6PVF10	154	67	2950	R.F.	R.F.	N.A.	N.A.	2
300	65	150	4PVF8G	170	74	3520	22.0	20.0	20.0	N.A.	2
300	65	150	4PVF8GM	170	74	3520	22.0	N.A.	20.0	N.A.	2
300	65	150	5PVF7	157	68	3520	26.6	25.0	25.0	N.A.	2
300	65	150	5PVF7M	157	68	3520	26.6	N.A.	25.0	N.A.	2
300	70	28	6PVF10	166	72	2950	R.F.	R.F.	N.A.	N.A.	2
300	70	162	4PVF8G	181	78	3520	25.0	25.0	25.0	N.A.	2
300	70	162	4PVF8GM	181	78	3520	25.0	N.A.	25.0	N.A.	2
300	70	162	5PVF7	169	73	3520	29.7	30.0	30.0	N.A.	2
300	70	162	5PVF7M	169	73	3520	29.7	N.A.	30.0	N.A.	2
300	75	173	4PVF8G	192	83	3520	27.0	25.0	25.0	N.A.	2
300	75	173	4PVF8GM	192	83	3520	27.0	N.A.	25.0	N.A.	2

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled
3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with 1.15 Service Factor	Type Pump (1)
	Psi	Feet									
300	75	173	5PVF7	180	78	3520	32.9	30.0	30.0	N.A.	2
300	75	173	5PVF7M	180	78	3520	32.9	N.A.	30.0	N.A.	2
300	78	180	4PVF8G	199	86	3520	28.0	25.0	25.0	N.A.	2
300	78	180	4PVF8GM	199	86	3520	28.0	N.A.	25.0	N.A.	2
300	80	28	6PVF10	190	82	2950	R.F.	R.F.	N.A.	N.A.	2
300	80	185	5PVF7	192	83	3520	36.0	40.0	40.0	N.A.	2
300	80	185	5PVF7M	192	83	3520	36.0	N.A.	40.0	N.A.	2
300	81	187	3PVF11	236	102	3520	26.0	25.0	25.0	N.A.	2
300	81	187	3PVF11M	236	102	3520	26.0	N.A.	25.0	N.A.	2
300	85	196	3PVF11	238	103	3520	26.0	25.0	25.0	N.A.	2
300	85	196	3PVF11M	238	103	3520	26.0	N.A.	25.0	N.A.	2
300	85	196	5PVF7	203	88	3520	40.0	40.0	40.0	N.A.	2
300	85	196	5PVF7M	203	88	3520	40.0	N.A.	40.0	N.A.	2
300	90	28	6PVF10	214	92	2950	R.F.	R.F.	N.A.	N.A.	2
300	90	208	3PVF11	240	104	3520	26.0	25.0	25.0	N.A.	2
300	90	208	3PVF11M	240	104	3520	26.0	N.A.	25.0	N.A.	2
300	95	219	3PVF11	247	107	3520	28.0	25.0	25.0	N.A.	2
300	95	219	3PVF11M	247	107	3520	28.0	N.A.	25.0	N.A.	2
300	100	28	6PVF10	243	105	2950	R.F.	R.F.	N.A.	N.A.	2
300	100	231	3PVF11	259	112	3520	30.0	30.0	30.0	N.A.	2
300	100	231	3PVF11M	259	112	3520	30.0	N.A.	30.0	N.A.	2
300	105	243	3PVF11	270	117	3520	32.0	30.0	30.0	N.A.	2
300	105	243	3PVF11M	270	117	3520	32.0	N.A.	30.0	N.A.	2
300	110	28	6PVF10	261	113	2950	R.F.	R.F.	N.A.	N.A.	2
300	110	254	3PVF11	280	121	3520	34.0	30.0	30.0	N.A.	2
300	110	254	3PVF11M	280	121	3520	34.0	N.A.	30.0	N.A.	2
300	115	266	3PVF11	289	125	3520	36.0	40.0	40.0	N.A.	2
300	115	266	3PVF11M	289	125	3520	36.0	N.A.	40.0	N.A.	2
300	120	28	6PVF10	285	123	2950	R.F.	R.F.	N.A.	N.A.	2
300	120	277	3PVF11	300	130	3520	38.0	40.0	40.0	N.A.	2
300	120	277	3PVF11M	300	130	3520	38.0	N.A.	40.0	N.A.	2
300	125	289	3PVF11	312	135	3500	40.0	40.0	40.0	N.A.	2
300	125	289	3PVF11M	312	135	3500	40.0	N.A.	40.0	N.A.	2
300	130	300	3PVF11	321	139	3500	42.0	40.0	40.0	N.A.	2
300	130	300	3PVF11M	321	139	3500	42.0	N.A.	40.0	N.A.	2
300	135	312	3PVF11	333	144	3500	47.0	50.0	50.0	N.A.	2
300	135	312	3PVF11M	333	144	3500	47.0	N.A.	50.0	N.A.	2
300	140	323	3PVF11	344	149	3500	48.0	50.0	50.0	N.A.	2
300	140	323	3PVF11M	344	149	3500	48.0	N.A.	50.0	N.A.	2
300	145	335	3PVF11	356	154	3500	51.0	50.0	50.0	N.A.	2
300	145	335	3PVF11M	356	154	3500	51.0	N.A.	50.0	N.A.	2
300	150	347	3PVF11	367	159	3500	53.0	50.0	50.0	N.A.	2
300	150	347	3PVF11M	367	159	3500	53.0	N.A.	50.0	N.A.	2
300	155	358	3PVF11	388	168	3500	55.0	50.0	50.0	N.A.	2
300	155	358	3PVF11M	388	168	3500	55.0	N.A.	50.0	N.A.	2
300	160	370	3PVF11	400	173	3500	57.3	50.0	50.0	N.A.	2
300	160	370	3PVF11M	400	173	3500	57.3	N.A.	50.0	N.A.	2
300	168	388	3PVF11	418	181	3500	61.0	60.0	60.0	N.A.	2

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled
3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with 1.15 Service Factor	Type Pump (1)
	Psi	Feet									
300	168	388	3PVF11M	418	181	3500	61.0	N.A.	60.0	N.A.	2
400	50	116	5PVF7	131	57	3520	20.0	20.0	20.0	N.A.	2
400	50	116	5PVF7M	131	57	3520	20.0	N.A.	20.0	N.A.	2
400	55	127	5PVF7	142	61	3520	23.0	20.0	20.0	N.A.	2
400	55	127	5PVF7M	142	61	3520	23.0	N.A.	20.0	N.A.	2
400	60	139	5PVF7	152	66	3520	25.0	25.0	25.0	N.A.	2
400	60	139	5PVF7M	152	66	3520	25.0	N.A.	25.0	N.A.	2
400	64	28	6PVF10	154	67	2950	R.F.	R.F.	N.A.	N.A.	2
400	65	150	5PVF7	163	71	3520	28.0	25.0	25.0	N.A.	2
400	65	150	5PVF7M	163	71	3520	28.0	N.A.	25.0	N.A.	2
400	70	28	6PVF10	168	73	2950	R.F.	R.F.	N.A.	N.A.	2
400	70	162	5PVF7	174	75	3520	31.0	30.0	30.0	N.A.	2
400	70	162	5PVF7M	174	75	3520	31.0	N.A.	30.0	N.A.	2
400	75	173	5PVF7	185	80	3520	34.0	40.0	40.0	N.A.	2
400	75	173	5PVF7M	185	80	3520	34.0	N.A.	40.0	N.A.	2
400	80	28	6PVF10	192	83	2950	R.F.	R.F.	N.A.	N.A.	2
400	80	185	5PVF7	197	85	3520	38.0	40.0	40.0	N.A.	2
400	80	185	5PVF7M	197	85	3520	38.0	N.A.	40.0	N.A.	2
400	84	194	5PVF7	205	89	3520	40.0	40.0	40.0	N.A.	2
400	84	194	5PVF7M	205	89	3520	40.0	N.A.	40.0	N.A.	2
400	86	199	5PVF11	238	103	3550	41.0	40.0	40.0	N.A.	2
400	86	199	5PVF11M	238	103	3550	41.0	N.A.	40.0	N.A.	2
400	90	28	6PVF10	216	94	2950	R.F.	R.F.	N.A.	N.A.	2
400	90	208	5PVF11	238	103	3550	42.0	40.0	40.0	N.A.	2
400	90	208	5PVF11M	238	103	3550	42.0	N.A.	40.0	N.A.	2
400	95	219	5PVF11	243	105	3550	43.0	40.0	40.0	N.A.	2
400	95	219	5PVF11M	243	105	3550	43.0	N.A.	40.0	N.A.	2
400	100	28	6PVF10	240	104	2950	R.F.	R.F.	N.A.	N.A.	2
400	100	231	5PVF11	247	107	3550	44.0	40.0	40.0	N.A.	2
400	100	231	5PVF11M	247	107	3550	44.0	N.A.	40.0	N.A.	2
400	105	243	5PVF11	259	112	3550	47.0	50.0	50.0	N.A.	2
400	105	243	5PVF11M	259	112	3550	47.0	N.A.	50.0	N.A.	2
400	110	28	6PVF10	264	114	2950	R.F.	R.F.	N.A.	N.A.	2
400	110	254	5PVF11	270	117	3550	49.4	50.0	50.0	N.A.	2
400	110	254	5PVF11M	270	117	3550	49.4	N.A.	50.0	N.A.	2
400	115	266	5PVF11	284	123	3550	53.0	50.0	50.0	N.A.	2
400	115	266	5PVF11M	284	123	3550	53.0	N.A.	50.0	N.A.	2
400	119	28	6PVF10	286	124	2950	R.F.	R.F.	N.A.	N.A.	2
400	120	277	5PVF11	293	127	3550	55.0	50.0	50.0	N.A.	2
400	120	277	5PVF11M	293	127	3550	55.0	N.A.	50.0	N.A.	2
400	125	289	5PVF11	307	133	3550	59.0	60.0	60.0	N.A.	2
400	125	289	5PVF11M	307	133	3550	59.0	N.A.	60.0	N.A.	2
400	130	300	5PVF11	319	138	3550	62.0	60.0	60.0	N.A.	2
400	130	300	5PVF11M	319	138	3550	62.0	N.A.	60.0	N.A.	2
400	135	312	5PVF11	330	143	3550	65.0	60.0	60.0	N.A.	2
400	135	312	5PVF11M	330	143	3550	65.0	N.A.	60.0	N.A.	2
400	140	323	5PVF11	342	148	3550	68.0	60.0	60.0	N.A.	2
400	140	323	5PVF11M	342	148	3550	68.0	N.A.	60.0	N.A.	2

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled
3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with 1.15 Service Factor	Type Pump (1)
	Psi	Feet									
400	145	335	5PVF11	353	153	3550	71.0	75.0	75.0	N.A.	2
400	145	335	5PVF11M	353	153	3550	71.0	N.A.	75.0	N.A.	2
400	150	347	5PVF11	365	158	3550	74.0	75.0	75.0	N.A.	2
400	150	347	5PVF11M	365	158	3550	74.0	N.A.	75.0	N.A.	2
400	155	358	5PVF11	379	164	3550	77.0	75.0	75.0	N.A.	2
400	155	358	5PVF11M	379	164	3550	77.0	N.A.	75.0	N.A.	2
400	160	370	5PVF11	390	169	3550	80.0	75.0	75.0	N.A.	2
400	160	370	5PVF11M	390	169	3550	80.0	N.A.	75.0	N.A.	2
400	165	381	5PVF11	402	174	3550	83.0	75.0	75.0	N.A.	2
400	165	381	5PVF11M	402	174	3550	83.0	N.A.	75.0	N.A.	2
400	168	388	5PVF11	409	177	3550	85.0	75.0	75.0	N.A.	2
400	168	388	5PVF11M	409	177	3550	85.0	N.A.	75.0	N.A.	2
450	50	116	5PVF7	135	58	3520	21.0	20.0	20.0	N.A.	2
450	50	116	5PVF7M	135	58	3520	21.0	N.A.	20.0	N.A.	2
450	55	127	5PVF7	146	63	3520	24.0	25.0	25.0	N.A.	2
450	55	127	5PVF7M	146	63	3520	24.0	N.A.	25.0	N.A.	2
450	60	139	5PVF7	156	68	3520	26.0	25.0	25.0	N.A.	2
450	60	139	5PVF7M	156	68	3520	26.0	N.A.	25.0	N.A.	2
450	63	28	6PVF10	154	66	2950	R.F.	R.F.	N.A.	N.A.	2
450	65	150	5PVF7	167	72	3520	29.0	30.0	30.0	N.A.	2
450	65	150	5PVF7M	167	72	3520	29.0	N.A.	30.0	N.A.	2
450	70	28	6PVF10	170	74	2950	R.F.	R.F.	N.A.	N.A.	2
450	70	162	5PVF7	178	77	3520	32.0	30.0	30.0	N.A.	2
450	70	162	5PVF7M	178	77	3520	32.0	N.A.	30.0	N.A.	2
450	75	173	5PVF7	189	82	3520	36.0	40.0	40.0	N.A.	2
450	75	173	5PVF7M	189	82	3520	36.0	N.A.	40.0	N.A.	2
450	80	28	6PVF10	194	84	2950	R.F.	R.F.	N.A.	N.A.	2
450	80	185	5PVF7	200	87	3520	39.0	40.0	40.0	N.A.	2
450	80	185	5PVF7M	200	87	3520	39.0	N.A.	40.0	N.A.	2
450	82	189	5PVF7	206	89	3520	40.0	40.0	40.0	N.A.	2
450	82	189	5PVF7M	206	89	3520	40.0	N.A.	40.0	N.A.	2
450	84	194	5PVF11	238	103	3550	41.0	40.0	40.0	N.A.	2
450	84	194	5PVF11M	238	103	3550	41.0	N.A.	40.0	N.A.	2
450	85	196	5PVF11	240	104	3550	42.0	40.0	40.0	N.A.	2
450	85	196	5PVF11M	240	104	3550	42.0	N.A.	40.0	N.A.	2
450	90	28	6PVF10	218	95	2950	R.F.	R.F.	N.A.	N.A.	2
450	90	208	5PVF11	243	105	3550	43.0	40.0	40.0	N.A.	2
450	90	208	5PVF11M	243	105	3550	43.0	N.A.	40.0	N.A.	2
450	95	219	5PVF11	247	107	3550	44.0	40.0	40.0	N.A.	2
450	95	219	5PVF11M	247	107	3550	44.0	N.A.	40.0	N.A.	2
450	100	28	6PVF10	242	105	2950	R.F.	R.F.	N.A.	N.A.	2
450	100	231	5PVF11	259	112	3550	45.0	40.0	40.0	N.A.	2
450	100	231	5PVF11M	259	112	3550	45.0	N.A.	40.0	N.A.	2
450	105	243	5PVF11	268	116	3550	49.0	50.0	50.0	N.A.	2
450	105	243	5PVF11M	268	116	3550	49.0	N.A.	50.0	N.A.	2
450	110	28	6PVF10	266	115	2950	R.F.	R.F.	N.A.	N.A.	2
450	110	254	5PVF11	280	121	3550	51.0	50.0	50.0	N.A.	2
450	110	254	5PVF11M	280	121	3550	51.0	N.A.	50.0	N.A.	2

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled
3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with 1.15 Service Factor	Type Pump (1)
	Psi	Feet									
450	115	266	5PVF11	289	125	3550	54.0	50.0	50.0	N.A.	2
450	115	266	5PVF11M	289	125	3550	54.0	N.A.	50.0	N.A.	2
450	118	28	6PVF10	286	124	2950	R.F.	R.F.	N.A.	N.A.	2
450	120	277	5PVF11	300	130	3550	57.0	50.0	50.0	N.A.	2
450	120	277	5PVF11M	300	130	3550	57.0	N.A.	50.0	N.A.	2
450	125	289	5PVF11	312	135	3550	61.0	60.0	60.0	N.A.	2
450	125	289	5PVF11M	312	135	3550	61.0	N.A.	60.0	N.A.	2
450	130	300	5PVF11	323	140	3550	63.0	60.0	60.0	N.A.	2
450	130	300	5PVF11M	323	140	3550	63.0	N.A.	60.0	N.A.	2
450	135	312	5PVF11	335	145	3550	66.0	60.0	60.0	N.A.	2
450	135	312	5PVF11M	335	145	3550	66.0	N.A.	60.0	N.A.	2
450	140	323	5PVF11	347	150	3550	70.0	75.0	75.0	N.A.	2
450	140	323	5PVF11M	347	150	3550	70.0	N.A.	75.0	N.A.	2
450	145	335	5PVF11	358	155	3550	73.0	75.0	75.0	N.A.	2
450	145	335	5PVF11M	358	155	3550	73.0	N.A.	75.0	N.A.	2
450	150	347	5PVF11	372	161	3550	76.0	75.0	75.0	N.A.	2
450	150	347	5PVF11M	372	161	3550	76.0	N.A.	75.0	N.A.	2
450	155	358	5PVF11	386	167	3550	79.0	75.0	75.0	N.A.	2
450	155	358	5PVF11M	386	167	3550	79.0	N.A.	75.0	N.A.	2
450	160	370	5PVF11	397	172	3550	82.0	75.0	75.0	N.A.	2
450	160	370	5PVF11M	397	172	3550	82.0	N.A.	75.0	N.A.	2
450	165	381	5PVF11	409	177	3550	85.0	75.0	75.0	N.A.	2
450	165	381	5PVF11M	409	177	3550	85.0	N.A.	75.0	N.A.	2
450	166	383	5PVF11	411	178	3550	86.0	75.0	75.0	N.A.	2
450	166	383	5PVF11M	411	178	3550	86.0	N.A.	75.0	N.A.	2
475	83	192	5PVF11	238	103	3550	41.0	40.0	40.0	N.A.	2
475	83	192	5PVF11M	238	103	3550	41.0	N.A.	40.0	N.A.	2
475	85	196	5PVF11	240	104	3550	42.0	40.0	40.0	N.A.	2
475	85	196	5PVF11M	240	104	3550	42.0	N.A.	40.0	N.A.	2
475	90	208	5PVF11	243	105	3550	43.0	40.0	40.0	N.A.	2
475	90	208	5PVF11M	243	105	3550	43.0	N.A.	40.0	N.A.	2
475	95	219	5PVF11	245	106	3550	45.0	40.0	40.0	N.A.	2
475	95	219	5PVF11M	245	106	3550	45.0	N.A.	40.0	N.A.	2
475	100	231	5PVF11	256	111	3550	47.0	50.0	50.0	N.A.	2
475	100	231	5PVF11M	256	111	3550	47.0	N.A.	50.0	N.A.	2
475	105	243	5PVF11	268	116	3550	49.0	50.0	50.0	N.A.	2
475	105	243	5PVF11M	268	116	3550	49.0	N.A.	50.0	N.A.	2
475	110	254	5PVF11	282	122	3550	52.0	50.0	50.0	N.A.	2
475	110	254	5PVF11M	282	122	3550	52.0	N.A.	50.0	N.A.	2
475	115	266	5PVF11	293	127	3550	55.0	50.0	50.0	N.A.	2
475	115	266	5PVF11M	293	127	3550	55.0	N.A.	50.0	N.A.	2
475	120	277	5PVF11	305	132	3550	58.0	60.0	60.0	N.A.	2
475	120	277	5PVF11M	305	132	3550	58.0	N.A.	60.0	N.A.	2
475	125	289	5PVF11	316	137	3550	61.0	60.0	60.0	N.A.	2
475	125	289	5PVF11M	316	137	3550	61.0	N.A.	60.0	N.A.	2
475	130	300	5PVF11	330	143	3550	64.0	60.0	60.0	N.A.	2
475	130	300	5PVF11M	330	143	3550	64.0	N.A.	60.0	N.A.	2
475	135	312	5PVF11	340	147	3550	68.0	60.0	60.0	N.A.	2

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled
3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with 1.15 Service Factor	Type Pump (1)
	Psi	Feet									
475	135	312	5PVF11M	340	147	3550	68.0	N.A.	60.0	N.A.	2
475	140	323	5PVF11	349	151	3550	71.0	75.0	75.0	N.A.	2
475	140	323	5PVF11M	349	151	3550	71.0	N.A.	75.0	N.A.	2
475	145	335	5PVF11	363	157	3550	74.0	75.0	75.0	N.A.	2
475	145	335	5PVF11M	363	157	3550	74.0	N.A.	75.0	N.A.	2
475	150	347	5PVF11	379	164	3550	77.0	75.0	75.0	N.A.	2
475	150	347	5PVF11M	379	164	3550	77.0	N.A.	75.0	N.A.	2
475	155	358	5PVF11	390	169	3550	80.0	75.0	75.0	N.A.	2
475	155	358	5PVF11M	390	169	3550	80.0	N.A.	75.0	N.A.	2
475	160	370	5PVF11	402	174	3550	83.0	75.0	75.0	N.A.	2
475	160	370	5PVF11M	402	174	3550	83.0	N.A.	75.0	N.A.	2
475	165	381	5PVF11	413	179	3550	86.0	75.0	75.0	N.A.	2
475	165	381	5PVF11M	413	179	3550	86.0	N.A.	75.0	N.A.	2
500	45	104	5PVF7	130	56	3520	20.0	20.0	20.0	N.A.	2
500	45	104	5PVF7M	130	56	3520	20.0	20.0	20.0	N.A.	2
500	50	116	5PVF7	140	61	3520	22.0	20.0	20.0	N.A.	2
500	50	116	5PVF7M	140	61	3520	22.0	22.0	20.0	N.A.	2
500	55	127	5PVF7	150	65	3520	25.0	25.0	25.0	N.A.	2
500	55	127	5PVF7M	150	65	3520	25.0	25.0	25.0	N.A.	2
500	60	139	5PVF7	160	69	3520	27.0	25.0	25.0	N.A.	2
500	60	139	5PVF7M	160	69	3520	27.0	27.0	25.0	N.A.	2
500	61	28	6PVF10	153	66	2950	R.F.	R.F.	N.A.	N.A.	2
500	65	150	5PVF7	171	74	3520	30.0	30.0	30.0	N.A.	2
500	65	150	5PVF7M	171	74	3520	30.0	30.0	30.0	N.A.	2
500	70	28	6PVF10	173	75	2950	R.F.	R.F.	N.A.	N.A.	2
500	70	162	5PVF7	182	79	3520	33.0	30.0	30.0	N.A.	2
500	70	162	5PVF7M	182	79	3520	33.0	33.0	30.0	N.A.	2
500	75	173	5PVF7	193	84	3520	37.0	40.0	40.0	N.A.	2
500	75	173	5PVF7M	193	84	3520	37.0	37.0	40.0	N.A.	2
500	80	28	6PVF10	197	85	2950	R.F.	R.F.	N.A.	N.A.	2
500	80	185	5PVF7	204	88	3520	40.0	40.0	40.0	N.A.	2
500	80	185	5PVF7M	204	88	3520	40.0	40.0	40.0	N.A.	2
500	82	189	5PVF11	238	103	3550	41.0	40.0	40.0	N.A.	2
500	82	189	5PVF11M	238	103	3550	41.0	N.A.	40.0	N.A.	2
500	85	196	5PVF11	240	104	3550	43.0	40.0	40.0	N.A.	2
500	85	196	5PVF11M	240	104	3550	43.0	N.A.	40.0	N.A.	2
500	90	28	6PVF10	221	96	2950	R.F.	R.F.	N.A.	N.A.	2
500	90	208	5PVF11	243	105	3550	44.0	40.0	40.0	N.A.	2
500	90	208	5PVF11M	243	105	3550	44.0	N.A.	40.0	N.A.	2
500	91	28	6PVF10	222	96	3550	57.1	N.A.	R.F.	N.A.	2
500	92	28	6PVF10	222	96	3550	R.F.	R.F.	R.F.	N.A.	2
500	92	28	6PVF10M	222	96	3550	57.1	N.A.	R.F.	N.A.	2
500	95	219	5PVF11	249	108	3550	46.0	40.0	40.0	N.A.	2
500	95	219	5PVF11M	249	108	3550	46.0	N.A.	40.0	N.A.	2
500	100	28	6PVF10	269	116	2950	R.F.	R.F.	N.A.	N.A.	2
500	100	28	6PVF10	239	103	3550	R.F.	R.F.	R.F.	N.A.	2
500	100	28	6PVF10M	239	103	3550	60.8	N.A.	R.F.	N.A.	2
500	100	231	5PVF11	261	113	3550	47.0	50.0	50.0	N.A.	2

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled
3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with 1.15 Service Factor	Type Pump (1)
	Psi	Feet									
500	100	231	5PVF11M	261	113	3550	47.0	N.A.	50.0	N.A.	2
500	105	243	5PVF11	275	119	3550	50.0	50.0	50.0	N.A.	2
500	105	243	5PVF11M	275	119	3550	50.0	N.A.	50.0	N.A.	2
500	110	28	6PVF10	245	106	2950	R.F.	R.F.	N.A.	N.A.	2
500	110	28	6PVF10	261	113	3550	R.F.	R.F.	R.F.	N.A.	2
500	110	28	6PVF10M	261	113	3550	66.7	N.A.	R.F.	N.A.	2
500	110	254	5PVF11	286	124	3550	53.0	50.0	50.0	N.A.	2
500	110	254	5PVF11M	286	124	3550	53.0	N.A.	50.0	N.A.	2
500	115	266	5PVF11	298	129	3550	56.0	50.0	50.0	N.A.	2
500	115	266	5PVF11M	298	129	3550	56.0	N.A.	50.0	N.A.	2
500	117	28	6PVF10	286	124	2950	R.F.	R.F.	N.A.	N.A.	2
500	120	28	6PVF10	284	123	3550	R.F.	R.F.	R.F.	N.A.	2
500	120	28	6PVF10M	284	123	3550	73.7	N.A.	R.F.	N.A.	2
500	120	277	5PVF11	310	134	3550	60.0	60.0	60.0	N.A.	2
500	120	277	5PVF11M	310	134	3550	60.0	N.A.	60.0	N.A.	2
500	125	289	5PVF11	321	139	3550	62.0	60.0	60.0	N.A.	2
500	125	289	5PVF11M	321	139	3550	62.0	N.A.	60.0	N.A.	2
500	130	28	6PVF10	308	133	3550	R.F.	R.F.	R.F.	N.A.	2
500	130	28	6PVF10M	308	133	3550	81.5	N.A.	R.F.	N.A.	2
500	130	300	5PVF11	333	144	3550	65.0	60.0	60.0	N.A.	2
500	130	300	5PVF11M	333	144	3550	65.0	N.A.	60.0	N.A.	2
500	135	312	5PVF11	342	148	3550	68.0	60.0	60.0	N.A.	2
500	135	312	5PVF11M	342	148	3550	68.0	N.A.	60.0	N.A.	2
500	140	28	6PVF10	332	144	3550	R.F.	R.F.	R.F.	N.A.	2
500	140	28	6PVF10M	332	144	3550	89.6	N.A.	R.F.	N.A.	2
500	140	323	5PVF11	356	154	3550	72.0	75.0	75.0	N.A.	2
500	140	323	5PVF11M	356	154	3550	72.0	N.A.	75.0	N.A.	2
500	145	335	5PVF11	372	161	3550	75.0	75.0	75.0	N.A.	2
500	145	335	5PVF11M	372	161	3550	75.0	N.A.	75.0	N.A.	2
500	150	28	6PVF10	357	154	3550	R.F.	R.F.	R.F.	N.A.	2
500	150	28	6PVF10M	357	154	3550	98.2	N.A.	R.F.	N.A.	2
500	150	347	5PVF11	383	166	3550	78.0	75.0	75.0	N.A.	2
500	150	347	5PVF11M	383	166	3550	78.0	N.A.	75.0	N.A.	2
500	155	358	5PVF11	395	171	3550	81.0	75.0	75.0	N.A.	2
500	155	358	5PVF11M	395	171	3550	81.0	N.A.	75.0	N.A.	2
500	160	28	6PVF10	382	165	3550	R.F.	R.F.	R.F.	N.A.	2
500	160	28	6PVF10M	382	165	3550	106.9	N.A.	R.F.	N.A.	2
500	160	370	5PVF11	407	176	3550	84.0	75.0	75.0	N.A.	2
500	160	370	5PVF11M	407	176	3550	84.0	N.A.	75.0	N.A.	2
500	164	379	5PVF11	413	179	3550	86.0	75.0	75.0	N.A.	2
500	164	379	5PVF11M	413	179	3550	86.0	N.A.	75.0	N.A.	2
500	168	28	6PVF10	402	174	3550	R.F.	R.F.	R.F.	N.A.	2
500	168	28	6PVF10M	402	174	3550	114.1	N.A.	R.F.	N.A.	2
500	169	28	6PVF10	405	175	3550	R.F.	R.F.	N.A.	N.A.	2
750	83	28	6PVF10	222	96	3550	R.F.	R.F.	R.F.	N.A.	2
750	83	28	6PVF10M	222	96	3550	57.1	N.A.	R.F.	N.A.	2
750	90	28	6PVF10	139	60	3550	R.F.	R.F.	R.F.	N.A.	2
750	90	28	6PVF10M	139	60	3550	55.0	N.A.	R.F.	N.A.	2

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled
3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with 1.15 Service Factor	Type Pump (1)
	Psi	Feet									
750	100	28	6PVF10	259	112	3550	R.F.	R.F.	R.F.	N.A.	2
750	100	28	6PVF10M	259	112	3550	66.1	N.A.	R.F.	N.A.	2
750	110	28	6PVF10	282	122	3550	R.F.	R.F.	R.F.	N.A.	2
750	110	28	6PVF10M	282	122	3550	73.1	N.A.	R.F.	N.A.	2
750	120	28	6PVF10	306	132	3550	R.F.	R.F.	R.F.	N.A.	2
750	120	28	6PVF10M	306	132	3550	80.8	N.A.	R.F.	N.A.	2
750	130	28	6PVF10	328	142	3550	R.F.	R.F.	R.F.	N.A.	2
750	130	28	6PVF10M	328	142	3550	88.8	N.A.	R.F.	N.A.	2
750	140	28	6PVF10	353	153	3550	R.F.	R.F.	R.F.	N.A.	2
750	140	28	6PVF10M	353	153	3550	97.0	N.A.	R.F.	N.A.	2
750	150	28	6PVF10	378	163	3550	R.F.	R.F.	R.F.	N.A.	2
750	150	28	6PVF10M	378	163	3550	105.4	N.A.	R.F.	N.A.	2
750	160	28	6PVF10	402	174	3550	R.F.	R.F.	R.F.	N.A.	2
750	160	28	6PVF10M	402	174	3550	113.9	N.A.	R.F.	N.A.	2
750	161	28	6PVF10	404	175	3550	R.F.	R.F.	N.A.	N.A.	2
750	162	28	6PVF10 uc	406	176	3550	R.F.	R.F.	N.A.	N.A.	2
750	163	28	6PVF10 uc	406	176	3550	R.F.	R.F.	N.A.	N.A.	2

Peerless Pump Company
Indianapolis, IN 46207-7026

Horizontal & Inline Fire Pumps
Selection Tables

50 Hertz Motor

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut - Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with Service Factor	Type Pump (1)
	Psi	Feet									
100	62	143	3PVF11	162	70	2950	17.0	15.0	15.0	N.A.	2
100	62	143	3PVF11M	162	70	2950	17.0	N.A.	15.0	N.A.	2
100	65	150	3PVF11	173	75	2950	19.0	20.0	20.0	N.A.	2
100	65	150	3PVF11M	173	75	2950	19.0	N.A.	20.0	N.A.	2
100	70	162	3PVF11	185	80	2950	20.0	20.0	20.0	N.A.	2
100	70	162	3PVF11M	185	80	2950	20.0	N.A.	20.0	N.A.	2
100	75	173	3PVF11	196	85	2950	22.0	20.0	20.0	N.A.	2
100	75	173	3PVF11M	196	85	2950	22.0	N.A.	20.0	N.A.	2
100	80	185	3PVF11	208	90	2950	24.0	25.0	25.0	N.A.	2
100	80	185	3PVF11M	208	90	2950	24.0	N.A.	25.0	N.A.	2
100	85	196	3PVF11	219	95	2950	26.0	25.0	25.0	N.A.	2
100	85	196	3PVF11M	219	95	2950	26.0	N.A.	25.0	N.A.	2
100	90	208	3PVF11	231	100	2950	27.0	25.0	25.0	N.A.	2
100	90	208	3PVF11M	231	100	2950	27.0	N.A.	25.0	N.A.	2
100	95	219	3PVF11	243	105	2950	29.0	30.0	30.0	N.A.	2
100	95	219	3PVF11M	243	105	2950	29.0	N.A.	30.0	N.A.	2
100	100	231	3PVF11	254	110	2950	31.0	30.0	30.0	N.A.	2
100	100	231	3PVF11M	254	110	2950	31.0	N.A.	30.0	N.A.	2
100	105	243	3PVF11	266	115	2950	33.0	30.0	30.0	N.A.	2
100	105	243	3PVF11M	266	115	2950	33.0	N.A.	30.0	N.A.	2
100	110	254	3PVF11	277	120	2950	34.0	30.0	30.0	N.A.	2
100	110	254	3PVF11M	277	120	2950	34.0	N.A.	30.0	N.A.	2
100	115	266	3PVF11	289	125	2950	36.0	40.0	40.0	N.A.	2
100	115	266	3PVF11M	289	125	2950	36.0	N.A.	40.0	N.A.	2
100	121	280	3PVF11	300	130	2950	38.0	40.0	40.0	N.A.	2
100	121	280	3PVF11M	300	130	2950	38.0	N.A.	40.0	N.A.	2
150	60	139	3PVF11	143	62	2950	15.0	15.0	15.0	N.A.	2
150	60	139	3PVF11M	143	62	2950	15.0	N.A.	15.0	N.A.	2
150	65	150	3PVF11	155	67	2950	15.0	15.0	15.0	N.A.	2
150	65	150	3PVF11M	155	67	2950	15.0	N.A.	15.0	N.A.	2
150	70	162	3PVF11	166	72	2950	15.0	15.0	15.0	N.A.	2
150	70	162	3PVF11M	166	72	2950	15.0	N.A.	15.0	N.A.	2
150	75	173	3PVF11	178	77	2950	17.1	15.0	15.0	N.A.	2
150	75	173	3PVF11M	178	77	2950	17.1	N.A.	15.0	N.A.	2
150	80	185	3PVF11	189	82	2950	19.0	20.0	20.0	N.A.	2
150	80	185	3PVF11M	189	82	2950	19.0	N.A.	20.0	N.A.	2
150	85	196	3PVF11	199	86	2950	21.0	20.0	20.0	N.A.	2
150	85	196	3PVF11M	199	86	2950	21.0	N.A.	20.0	N.A.	2
150	90	208	3PVF11	211	91	2950	23.0	20.0	20.0	N.A.	2
150	90	208	3PVF11M	211	91	2950	23.0	N.A.	20.0	N.A.	2
150	95	219	3PVF11	222	96	2950	24.5	25.0	25.0	N.A.	2
150	95	219	3PVF11M	222	96	2950	24.5	N.A.	25.0	N.A.	2
150	100	231	3PVF11	233	100	2950	27.0	30.0	30.0	N.A.	2
150	100	231	3PVF11M	233	100	2950	27.0	N.A.	30.0	N.A.	2
150	105	243	3PVF11	246	106	2950	28.0	25.0	25.0	N.A.	2
150	105	243	3PVF11M	246	106	2950	28.0	N.A.	25.0	N.A.	2
150	110	254	3PVF11	256	115	2950	31.0	30.0	30.0	N.A.	2
150	110	254	3PVF11M	256	115	2950	31.0	N.A.	30.0	N.A.	2
150	115	266	3PVF11	273	118	2950	33.0	30.0	30.0	N.A.	2
150	115	266	3PVF11M	273	118	2950	33.0	N.A.	30.0	N.A.	2
150	119	275	3PVF11	282	122	2950	34.0	40.0	40.0	N.A.	2
150	119	275	3PVF11M	282	122	2950	34.0	N.A.	40.0	N.A.	2
200	58	134	3PVF11	143	62	2950	15.0	15.0	15.0	N.A.	2
200	58	134	3PVF11M	143	62	2950	15.0	N.A.	15.0	N.A.	2

Horizontal & Inline Fire Pumps
Selection Tables

50 Hertz Motor

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut - Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with Service Factor	Type Pump (1)
	Psi	Feet									
200	60	139	3PVF11	148	64	2950	15.0	15.0	15.0	N.A.	2
200	60	139	3PVF11M	148	64	2950	15.0	N.A.	15.0	N.A.	2
200	65	150	3PVF11	159	69	2950	15.0	15.0	15.0	N.A.	2
200	65	150	3PVF11M	159	69	2950	15.0	N.A.	15.0	N.A.	2
200	70	162	3PVF11	171	74	2950	16.0	15.0	15.0	N.A.	2
200	70	162	3PVF11M	171	74	2950	16.0	N.A.	15.0	N.A.	2
200	75	173	3PVF11	182	79	2950	18.0	20.0	20.0	N.A.	2
200	75	173	3PVF11M	182	79	2950	18.0	N.A.	20.0	N.A.	2
200	80	185	3PVF11	194	84	2950	19.5	20.0	20.0	N.A.	2
200	80	185	3PVF11M	194	84	2950	19.5	N.A.	20.0	N.A.	2
200	85	196	3PVF11	203	88	2950	21.0	20.0	20.0	N.A.	2
200	85	196	3PVF11M	203	88	2950	21.0	N.A.	20.0	N.A.	2
200	90	208	3PVF11	217	94	2950	24.0	25.0	25.0	N.A.	2
200	90	208	3PVF11M	217	94	2950	24.0	N.A.	25.0	N.A.	2
200	95	219	3PVF11	226	98	2950	25.0	25.0	25.0	N.A.	2
200	95	219	3PVF11M	226	98	2950	25.0	N.A.	25.0	N.A.	2
200	100	231	3PVF11	238	103	2950	27.0	25.0	25.0	N.A.	2
200	100	231	3PVF11M	238	103	2950	27.0	N.A.	25.0	N.A.	2
200	105	243	3PVF11	249	108	2950	29.0	30.0	30.0	N.A.	2
200	105	243	3PVF11M	249	108	2950	29.0	N.A.	30.0	N.A.	2
200	110	254	3PVF11	266	115	2950	31.0	30.0	30.0	N.A.	2
200	110	254	3PVF11M	266	115	2950	31.0	N.A.	30.0	N.A.	2
200	117	270	3PVF11	282	122	2950	34.0	30.0	30.0	N.A.	2
200	117	270	3PVF11M	282	122	2950	34.0	N.A.	30.0	N.A.	2
250	56	129	3PVF11	132	57	2950	15.0	15.0	15.0	N.A.	2
250	56	129	3PVF11M	132	57	2950	15.0	N.A.	15.0	N.A.	2
250	60	139	3PVF11	159	69	2950	15.0	15.0	15.0	N.A.	2
250	60	139	3PVF11M	159	69	2950	15.0	N.A.	15.0	N.A.	2
250	65	150	3PVF11	171	74	2950	16.0	15.0	15.0	N.A.	2
250	65	150	3PVF11M	171	74	2950	16.0	N.A.	15.0	N.A.	2
250	70	162	3PVF11	180	78	2950	17.5	20.0	20.0	N.A.	2
250	70	162	3PVF11M	180	78	2950	17.5	N.A.	20.0	N.A.	2
250	75	173	3PVF11	192	83	2950	19.0	20.0	20.0	N.A.	2
250	75	173	3PVF11M	192	83	2950	19.0	N.A.	20.0	N.A.	2
250	80	185	3PVF11	201	87	2950	21.0	20.0	20.0	N.A.	2
250	80	185	3PVF11M	201	87	2950	21.0	N.A.	20.0	N.A.	2
250	85	196	3PVF11	213	92	2950	22.3	20.0	20.0	N.A.	2
250	85	196	3PVF11M	213	92	2950	22.3	N.A.	20.0	N.A.	2
250	90	208	3PVF11	222	96	2950	24.0	25.0	25.0	N.A.	2
250	90	208	3PVF11M	222	96	2950	24.0	N.A.	25.0	N.A.	2
250	95	219	3PVF11	233	101	2950	26.0	25.0	25.0	N.A.	2
250	95	219	3PVF11M	233	101	2950	26.0	N.A.	25.0	N.A.	2
250	100	231	3PVF11	245	106	2950	29.0	30.0	30.0	N.A.	2
250	100	231	3PVF11M	245	106	2950	29.0	N.A.	30.0	N.A.	2
250	105	243	3PVF11	256	111	2950	31.0	30.0	30.0	N.A.	2
250	105	243	3PVF11M	256	111	2950	31.0	N.A.	30.0	N.A.	2
250	110	254	3PVF11	275	119	2950	33.0	30.0	30.0	N.A.	2
250	110	254	3PVF11M	275	119	2950	33.0	N.A.	30.0	N.A.	2
250	115	266	3PVF11	286	124	2950	34.5	30.0	30.0	N.A.	2
250	115	266	3PVF11M	286	124	2950	34.5	N.A.	30.0	N.A.	2
300	65	28	6PVF10	154	67	2950	R.F	R.F	N.A.	N.A.	2
300	70	28	6PVF10	166	72	2950	R.F	R.F	N.A.	N.A.	2
300	80	28	6PVF10	190	82	2950	R.F	R.F	N.A.	N.A.	2
300	90	28	6PVF10	214	92	2950	R.F	R.F	N.A.	N.A.	2

Horizontal & Inline Fire Pumps
Selection Tables

50 Hertz Motor

(1) Type Pump: 1= Horizontal Split Case Single Stage 2= Inline Close Coupled 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut - Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed Motor Drive Bhp with 1.15 Service Factor	ULC Listed Motor Drive Bhp with 1.15 Service Factor	FM Approved Motor Drive Bhp with Service Factor	Type Pump (1)
	Psi	Feet									
300	100	28	6PVF10	243	105	2950	R.F	R.F	N.A.	N.A.	2
300	110	254	3PVF11	286	124	2950	35.0	30.0	30.0	N.A.	2
300	110	254	3PVF11M	286	124	2950	35.0	N.A.	30.0	N.A.	2
300	110	28	6PVF10	261	113	2950	R.F	R.F	N.A.	N.A.	2
300	120	28	6PVF10	285	123	2950	R.F	R.F	N.A.	N.A.	2
400	64	28	6PVF10	154	67	2950	R.F	R.F	N.A.	N.A.	2
400	70	28	6PVF10	168	73	2950	R.F	R.F	N.A.	N.A.	2
400	80	28	6PVF10	192	83	2950	R.F	R.F	N.A.	N.A.	2
400	90	28	6PVF10	216	94	2950	R.F	R.F	N.A.	N.A.	2
400	100	28	6PVF10	240	104	2950	R.F	R.F	N.A.	N.A.	2
400	110	28	6PVF10	264	114	2950	R.F	R.F	N.A.	N.A.	2
400	119	28	6PVF10	286	124	2950	R.F	R.F	N.A.	N.A.	2
450	63	28	6PVF10	154	66	2950	R.F	R.F	N.A.	N.A.	2
450	70	28	6PVF10	170	74	2950	R.F	R.F	N.A.	N.A.	2
450	80	28	6PVF10	194	84	2950	R.F	R.F	N.A.	N.A.	2
450	90	28	6PVF10	218	95	2950	R.F	R.F	N.A.	N.A.	2
450	100	28	6PVF10	242	105	2950	R.F	R.F	N.A.	N.A.	2
450	110	28	6PVF10	266	115	2950	R.F	R.F	N.A.	N.A.	2
450	118	28	6PVF10	286	124	2950	R.F	R.F	N.A.	N.A.	2
500	61	28	6PVF10	153	66	2950	R.F	R.F	N.A.	N.A.	2
500	70	28	6PVF10	173	75	2950	R.F	R.F	N.A.	N.A.	2
500	80	28	6PVF10	197	85	2950	R.F	R.F	N.A.	N.A.	2
500	90	28	6PVF10	221	96	2950	R.F	R.F	N.A.	N.A.	2
500	100	28	6PVF10	269	116	2950	R.F	R.F	N.A.	N.A.	2
500	110	28	6PVF10	245	106	2950	R.F	R.F	N.A.	N.A.	2
500	117	28	6PVF10	286	124	2950	R.F	R.F	N.A.	N.A.	2

TABLE NO. 1 ENGINE BHP AT 300 FT. AND 77^{o} F.

ENGINE		UL LISTED, FM APPROVED BHP BY RPM											
MANUFACTURER	MODEL NUMBER	1750	1760	1900	2100	2300	2350	2400	2600	2800	3000	3300	3600
Edwards Machinery Inc.	EMI4041D18♣		26UL/29FM		-		-				-		
	EMI4050T18♣		29UL/34FM		-		-				-		
	EMI4041D21-30♣		-		34UL/32FM		39UL/37FM				43		
	EMI4050T21-30♣		-		45UL/39FM		51UL/50FM				52		
	EMI4JB1R♣		42		50		54				63		
	EMI4JB1H		42		50		54				63		
	EMI4080D♣		63		78UL/77FM		85UL/84FM				-		
	EMI4080DH EMI4099TH		63 93		78UL/77FM 104UL/103FM		85UL/84FM 105UL/106FM				- -		
	EMI4099T♣		94UL/93FM		104UL/103FM		105UL/106FM				-		
CLARKE	VMFP04HN	-	-	-	-	-	-	-	-	55	56	56	60
	VMFP04HT	-	-	-	-	-	-	-	-	80	83	86	87
	VMFP06HT	-	-	-	-	-	-	-	-	104	115	120	115
	VMFPT6HT	-	-	-	-	-	-	-	-	135	140	143	145
	VMFPL6HR	-	-	-	-	-	-	-	-	155	160	163	165
	VMFPT6HR	-	-	-	-	-	-	-	-	160	175	180	185
	JU4H-UF10	-	41	-	51	-	55	-	-	-	-	-	-
	JU4H-UF12	-	-	-	-	-	55	-	59	-	-	-	-
	JU4H-UF20	-	60	-	67	-	72	-	-	-	-	-	-
	JU4H-UF22	-	-	-	-	-	72	-	75	-	-	-	-
	JU4H-UF30	-	64	-	79	-	85	-	-	-	-	-	-
	JU4H-UF32	-	-	-	-	-	85	-	85	-	-	-	-
	JU4H-UF40	-	94	-	105	-	106	-	-	-	-	-	-
	JU4H-UF42	-	-	-	-	-	106	-	106	-	-	-	-
	JU4H-UF50	-	110	-	130	-	127			-	-	-	-
	JU4H-UF52	-	-	-	-	-	127	-	127	-	-	-	-
	JU6H-UF30	-	140	-	160	-	160	-	-	-	-	-	-
	JU6H-UF32	-	-	-	-	-	160	-	160	-	-	-	-
	JU6H-UF50	-	183	-	210	-	210			-	-	-	-
	JU6H-UF52	-	-	-	-	-	210	-	210	-	-	-	-
	JU6H-UF60	-	200	-	240	-	240			-	-	-	-
	JU6H-UF62	-	-	-	-	-	240	-	240	-	-	-	-
	JW6H-UF30	-	265	-	275	-	275	-	-	-	-	-	-
	JW6H-UF40	-	290	-	300	-	300	-	-	-	-	-	-
	JW6H-UF50	-	300	-	340	-	350	-	-	-	-	-	-
	JW6H-UF60	-	360	-	375	-	360	-	-	-	-	-	-
	DDFP08FA	-	509	530	552	-	570	-	-	-	-	-	-
	DDFP08FH	-	575	618	669	-	708	-	-	-	-	-	-
CUMMINS	6BTA5.9F2	-	110	-	130	-	-	-	-	-	-	-	-
	6BTA5.9F1	-	182	-	208	-	-	-	-	-	-	-	-
	6BTA5.9F4		140		160	-	-	-	-	-	-	-	-
	6CTA8.3F1	-	-	-	240	-	-	-	-	-	-	-	-
	6CTA8.3F2	-	240	-	270	-	-	-	-	-	-	-	-
	6CTA8.3F3	-	-	-	300	-	-	-	-	-	-	-	-
CATERPILLAR	3126DITA	195			235	250		255		270	200		
	3406BDIT PA0083	292	-	312	331	-	-	-	-	-	-	-	-
	3406BDIT PA2519	370	-	375	375	350	-	-	-	-	-	-	-
	3406BDITA PA0084	420	-	425	430	-	-	-	-	-	-	-	-
	3406BDITA PA2520	460	-	460	482	455	-	-	-	-	-	-	-
	3408BDITA PA3282	481	-	495	507	-	-	-	-	-	-	-	-
	3408BDITA PA2521	510	-	525	525	510	-	-	-	-	-	-	-
	3412DIT PA3280	538	-	-	572	-	-	-	-	-	-	-	-
	3412DIT PA2522	660	-	680	700	625	-	-	-	-	-	-	-
	3412DITA PA3281	638	-	739	739	-	-	-	-	-	-	-	-
	3412DITA PA2523	800	-	860	870	870	-	-	-	-	-	-	-

♣ **Radiator cooled**

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
200	52	120	3UNF8	170	74	2950	30.0	YES	NO	YES	3
200	55	127	2.5UNF8	130	56	2950	20.0	YES	NO	YES	3
200	70	162	2UNF10	190	82	2600	21.0	YES	NO	YES	3
200	81	187	3UNF8	275	119	2950	42.0	YES	NO	YES	3
200	93	215	2UNF10	240	104	2950	30.0	YES	NO	YES	3
200	98	226	4THF12	235	102	2950	44.0	YES	NO	YES	1
200	101	233	2.5UNF8	237	103	2950	53.0	YES	NO	YES	3
200	112	259	2UNF10	270	117	2600	38.0	YES	NO	YES	3
200	148	342	2UNF10	355	154	2950	56.0	YES	NO	YES	3
200	169	390	4THF12	410	177	2950	85.5	YES	NO	YES	1
250	40	92	2ADF8	94	41	2600	6.0	NO	YES	NO	1
250	45	104	2ADF8	102	44	2600	7.0	NO	YES	NO	1
250	50	116	2ADF8	125	54	2600	9.1	NO	YES	NO	1
250	51	118	3UNF8	170	74	2950	30.0	YES	NO	YES	3
250	55	127	2ADF8	135	58	2600	10.0	NO	YES	NO	1
250	55	127	2.5UNF8	130	56	2950	20.0	YES	NO	YES	3
250	60	139	2ADF8	147	64	2600	11.5	NO	YES	NO	1
250	62	143	2ADF8	147	64	2600	11.5	NO	YES	NO	1
250	78	180	3UNF8	275	119	2950	42.0	YES	NO	YES	3
250	88	203	2UNF10	240	104	2950	30.0	YES	NO	YES	3
250	90	208	2UNF10	190	82	2600	21.0	YES	NO	YES	3
250	97	224	4THF12	235	102	2950	44.0	YES	NO	YES	1
250	101	233	2.5UNF8	237	103	2950	53.0	YES	NO	YES	3
250	108	249	2UNF10	270	117	2600	38.0	YES	NO	YES	3
250	142	328	2UNF10	355	154	2950	56.0	YES	NO	YES	3
250	168	388	4THF12	410	177	2950	85.5	YES	NO	YES	1
300	49	113	3UNF8	170	74	2950	30.0	YES	NO	YES	3
300	52	120	2.5UNF8	130	56	2950	20.0	YES	NO	YES	3
300	55	127	3UNF11	133	58	2350	21.8	YES	NO	YES	3
300	60	139	3UNF11	150	65	2350	26.0	YES	NO	YES	3
300	65	150	3UNF11	163	70	2350	29.5	YES	NO	YES	3
300	69	159	3UNF11	165	71	2600	29.0	YES	NO	YES	3
300	70	162	3UNF11	170	74	2350	35.1	YES	NO	YES	3
300	75	173	3UNF11	179	78	2350	37.9	YES	NO	YES	3
300	75	173	3UNF11	178	77	2600	30.0	YES	NO	YES	3
300	76	176	3UNF8	275	119	2950	42.0	YES	NO	YES	3
300	80	185	3UNF11	194	84	2350	42.4	YES	NO	YES	3
300	80	185	3UNF11	194	84	2600	39.0	YES	NO	YES	3
300	80	185	3UNF11	198	86	2800	38.5	YES	NO	YES	3
300	85	196	3UNF11	219	95	2350	49.0	YES	NO	YES	3
300	85	196	3UNF11	204	88	2600	50.8	YES	NO	YES	3
300	85	196	3UNF11	210	91	2800	42.0	YES	NO	YES	3
300	89	206	3UNF11	220	95	3000	45.0	YES	NO	YES	3
300	90	208	3UNF11	219	95	2350	49.0	YES	NO	YES	3
300	90	208	3UNF11	212	92	2600	54.0	YES	NO	YES	3
300	90	208	3UNF11	222	96	2800	46.0	YES	NO	YES	3
300	92	213	3UNF11	219	95	2350	49.0	YES	NO	YES	3
300	95	219	3UNF11	227	98	2600	59.4	YES	NO	YES	3
300	95	219	3UNF11	232	100	2800	49.0	YES	NO	YES	3
300	95	219	3UNF11	233	101	3000	49.1	YES	NO	YES	3
300	96	222	4THF12	235	102	2950	44.0	YES	NO	YES	1
300	100	231	3UNF11	235	102	2600	62.8	YES	NO	YES	3

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
300	100	231	3UNF11	241	104	2800	52.0	YES	NO	YES	3
300	100	231	2.5UNF8	237	103	2950	53.0	YES	NO	YES	3
300	100	231	3UNF11	246	106	3000	53.4	YES	NO	YES	3
300	105	242	3UNF11	248	107	2600	67.5	YES	NO	YES	3
300	105	242	3UNF11	261	113	2800	58.1	YES	NO	YES	3
300	105	242	3UNF11	258	112	3000	57.2	YES	NO	YES	3
300	110	254	3UNF11	265	115	2600	68.0	YES	NO	YES	3
300	110	254	3UNF11	268	116	2800	60.4	YES	NO	YES	3
300	110	254	3UNF11	268	116	3000	60.5	YES	NO	YES	3
300	114	263	3UNF11	265	115	2600	68.0	YES	NO	YES	3
300	115	266	3UNF11	294	127	2800	76.0	YES	NO	YES	3
300	115	266	3UNF11	275	119	3000	63.0	YES	NO	YES	3
300	120	277	3UNF11	302	131	2800	78.0	YES	NO	YES	3
300	120	277	3UNF11	289	125	3000	68.0	YES	NO	YES	3
300	122	282	2UNF10	240	104	2950	30.0	YES	NO	YES	3
300	125	289	3UNF11	311	135	2800	82.0	YES	NO	YES	3
300	125	289	3UNF11	297	129	3000	71.0	YES	NO	YES	3
300	130	300	3UNF11	319	138	3000	85.0	YES	NO	YES	3
300	132	305	3UNF11	311	135	2800	82.0	YES	NO	YES	3
300	135	312	2UNF10	355	154	2950	56.0	YES	NO	YES	3
300	135	312	3UNF11	327	142	3000	88.0	YES	NO	YES	3
300	140	323	3UNF11	345	149	3000	96.0	YES	NO	YES	3
300	147	340	3UNF11	345	149	3000	96.0	YES	NO	YES	3
300	167	386	4THF12	410	177	2950	85.5	YES	NO	YES	1
400	46	106	3UNF8	170	74	2950	30.0	YES	NO	YES	3
400	52	120	3UNF11	133	58	2350	21.8	YES	NO	YES	3
400	55	127	3UNF11	145	63	2350	24.9	YES	NO	YES	3
400	60	139	3UNF11	158	69	2350	28.3	YES	NO	YES	3
400	62	143	2.5UNF8	130	56	2950	20.0	YES	NO	YES	3
400	65	150	3UNF11	161	70	2350	32.4	YES	NO	YES	3
400	66	152	3UNF11	165	71	2600	29.0	YES	NO	YES	3
400	70	162	3UNF11	175	76	2350	36.4	YES	NO	YES	3
400	70	162	3UNF11	178	77	2600	30.0	YES	NO	YES	3
400	71	164	3UNF8	275	119	2950	42.0	YES	NO	YES	3
400	75	173	3UNF11	184	80	2350	39.5	YES	NO	YES	3
400	75	173	3UNF11	189	82	2600	32.8	YES	NO	YES	3
400	77	178	3UNF11	193	84	2800	37.0	YES	NO	YES	3
400	80	185	3UNF11	194	84	2350	43.2	YES	NO	YES	3
400	80	185	3UNF11	198	86	2600	48.6	YES	NO	YES	3
400	80	185	3UNF11	204	88	2800	40.1	YES	NO	YES	3
400	85	196	3UNF11	219	95	2350	49.0	YES	NO	YES	3
400	85	196	3UNF11	204	88	2600	50.8	YES	NO	YES	3
400	85	196	3UNF11	228	99	2800	47.5	YES	NO	YES	3
400	86	199	3UNF11	214	93	3000	43.0	YES	NO	YES	3
400	90	208	3UNF11	212	92	2600	54.0	YES	NO	YES	3
400	90	208	3UNF11	232	100	2800	49.0	YES	NO	YES	3
400	90	208	3UNF11	226	98	3000	46.9	YES	NO	YES	3
400	91	210	3UNF11	219	95	2350	49.0	YES	NO	YES	3
400	92	213	4THF12	235	102	2950	44.0	YES	NO	YES	1
400	95	219	3UNF11	227	98	2600	59.4	YES	NO	YES	3
400	95	219	3UNF11	241	104	2800	52.0	YES	NO	YES	3
400	95	219	3UNF11	233	101	3000	49.1	YES	NO	YES	3

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
400	97	224	2.5UNF8	237	103	2950	53.0	YES	NO	YES	3
400	100	231	3UNF11	235	102	2600	62.8	YES	NO	YES	3
400	100	231	3UNF11	248	107	2800	53.7	YES	NO	YES	3
400	100	231	3UNF11	246	106	3000	53.4	YES	NO	YES	3
400	105	242	3UNF11	248	107	2600	67.5	YES	NO	YES	3
400	105	242	3UNF11	261	113	2800	58.1	YES	NO	YES	3
400	105	242	3UNF11	258	112	3000	57.2	YES	NO	YES	3
400	110	254	3UNF11	265	115	2600	68.0	YES	NO	YES	3
400	110	254	3UNF11	274	119	2800	63.0	YES	NO	YES	3
400	110	254	3UNF11	275	119	3000	63.0	YES	NO	YES	3
400	112	259	3UNF11	265	115	2600	68.0	YES	NO	YES	3
400	115	266	3UNF11	294	127	2800	76.0	YES	NO	YES	3
400	115	266	3UNF11	282	122	3000	65.0	YES	NO	YES	3
400	120	277	3UNF11	302	131	2800	78.0	YES	NO	YES	3
400	120	277	3UNF11	289	125	3000	68.0	YES	NO	YES	3
400	125	289	3UNF11	311	135	2800	82.0	YES	NO	YES	3
400	125	289	3UNF11	297	129	3000	71.0	YES	NO	YES	3
400	130	300	3UNF11	311	135	2800	82.0	YES	NO	YES	3
400	130	300	3UNF11	319	138	3000	85.0	YES	NO	YES	3
400	135	312	3UNF11	335	145	3000	92.0	YES	NO	YES	3
400	140	323	3UNF11	345	149	3000	96.0	YES	NO	YES	3
400	145	334	3UNF11	345	149	3000	96.0	YES	NO	YES	3
400	164	379	4THF12	410	177	2950	85.5	YES	NO	YES	1
450	44	102	3UNF8	170	74	2950	30.0	YES	NO	YES	3
450	50	115	3UNF11	133	58	2350	22.0	YES	NO	YES	3
450	55	127	3UNF11	145	63	2350	25.0	YES	NO	YES	3
450	60	139	3UNF11	162	70	2350	29.5	YES	NO	YES	3
450	63	145	3UNF11	165	71	2600	29.0	YES	NO	YES	3
450	65	150	3UNF11	170	74	2350	35.1	YES	NO	YES	3
450	65	150	3UNF11	173	75	2600	29.5	YES	NO	YES	3
450	68	157	3UNF8	275	119	2950	42.0	YES	NO	YES	3
450	70	162	3UNF11	184	80	2350	39.5	YES	NO	YES	3
450	70	162	3UNF11	183	79	2600	31.3	YES	NO	YES	3
450	75	173	3UNF11	198	86	2350	44.1	YES	NO	YES	3
450	75	173	3UNF11	196	85	2600	39.0	YES	NO	YES	3
450	75	173	3UNF11	198	86	2800	38.5	YES	NO	YES	3
450	80	185	3UNF11	219	95	2350	49.0	YES	NO	YES	3
450	80	185	3UNF11	198	86	2600	48.6	YES	NO	YES	3
450	80	185	3UNF11	210	91	2800	42.0	YES	NO	YES	3
450	84	194	3UNF11	214	93	3000	43.0	YES	NO	YES	3
450	85	196	3UNF11	219	95	2350	49.0	YES	NO	YES	3
450	85	196	3UNF11	204	88	2600	50.8	YES	NO	YES	3
450	85	196	3UNF11	222	96	2800	46.0	YES	NO	YES	3
450	88	203	3UNF11	219	95	2350	49.0	YES	NO	YES	3
450	90	208	3UNF11	215	93	2600	55.0	YES	NO	YES	3
450	90	208	3UNF11	232	100	2800	49.0	YES	NO	YES	3
450	90	208	3UNF11	226	98	3000	46.9	YES	NO	YES	3
450	95	219	3UNF11	227	98	2600	59.4	YES	NO	YES	3
450	95	219	3UNF11	241	104	2800	52.0	YES	NO	YES	3
450	95	219	3UNF11	233	101	3000	49.1	YES	NO	YES	3
450	100	231	3UNF11	238	103	2600	64.1	YES	NO	YES	3
450	100	231	3UNF11	254	110	2800	55.8	YES	NO	YES	3

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
450	100	231	3UNF11	246	106	3000	55.6	YES	NO	YES	3
450	105	242	3UNF11	248	107	2600	67.5	YES	NO	YES	3
450	105	242	3UNF11	268	116	2800	60.4	YES	NO	YES	3
450	105	242	3UNF11	258	112	3000	60.5	YES	NO	YES	3
450	110	254	3UNF11	294	127	2800	76.0	YES	NO	YES	3
450	110	254	3UNF11	275	119	3000	62.8	YES	NO	YES	3
450	111	256	3UNF11	265	115	2600	68.0	YES	NO	YES	3
450	115	266	3UNF11	302	131	2800	78.0	YES	NO	YES	3
450	115	266	3UNF11	282	122	3000	65.0	YES	NO	YES	3
450	120	277	3UNF11	311	135	2800	82.0	YES	NO	YES	3
450	125	289	3UNF11	311	135	2800	82.0	YES	NO	YES	3
450	125	289	3UNF11	297	129	3000	85.0	YES	NO	YES	3
450	129	299	3UNF11	311	135	2800	82.0	YES	NO	YES	3
450	130	300	3UNF11	319	138	3000	88.0	YES	NO	YES	3
450	135	312	3UNF11	335	145	3000	92.0	YES	NO	YES	3
450	140	323	3UNF11	345	149	3000	96.0	YES	NO	YES	3
450	144	333	3UNF11	345	149	3000	96.0	YES	NO	YES	3
500	40	92	4AEF11G	108	47	1760	20.0	YES	YES	YES	1
500	45	104	4AEF11	113	49	1760	27.0	YES	YES	YES	1
500	45	104	4AEF11G	120	52	1760	22.0	YES	YES	YES	1
500	50	116	4AEF11	124	54	1760	32.0	YES	YES	YES	1
500	50	116	4AEF11G	128	55	1760	23.0	YES	YES	YES	1
500	50	116	6AEF12	122	53	1760	38.0	YES	YES	YES	1
500	50	116	4AEF12	143	62	2100	24.0	YES	YES	YES	1
500	50	115	3UNF11	133	58	2350	22.0	YES	NO	YES	3
500	50	116	4AEF10G	142	61	3000	23.0	YES	YES	YES	1
500	55	127	4AEF11	135	58	1760	37.0	YES	YES	YES	1
500	55	127	6AEF12	135	58	1760	43.0	YES	YES	YES	1
500	55	127	4AEF12	155	67	2100	27.0	YES	YES	YES	1
500	55	127	3UNF11	145	63	2350	25.0	YES	NO	YES	3
500	55	127	4AEF10G	155	67	3000	25.0	YES	YES	YES	1
500	55	127	4AEF10G	147	64	3550	27.0	YES	YES	YES	1
500	55	127	5AEF8N	148	64	3550	28.0	YES	YES	YES	1
500	60	139	4AEF11	142	61	1760	39.0	YES	YES	YES	1
500	60	139	6AEF12	147	64	1760	47.0	YES	YES	YES	1
500	60	139	4AEF12	168	73	2100	30.0	YES	YES	YES	1
500	60	139	3UNF11	162	70	2350	29.5	YES	NO	YES	3
500	60	139	4AEF10G	169	73	3000	27.0	YES	YES	YES	1
500	60	139	4AEF10G	159	69	3550	30.0	YES	YES	YES	1
500	60	139	5AEF8N	161	70	3550	31.0	YES	YES	YES	1
500	61	141	3UNF11	165	71	2600	29.0	YES	NO	YES	3
500	65	150	6AEF12	159	69	1760	51.0	YES	YES	YES	1
500	65	150	4AEF12	180	78	2100	32.0	YES	YES	YES	1
500	65	150	4THF15	172	74	2100	40.0	YES	NO	YES	1
500	65	150	3UNF11	170	74	2350	35.1	YES	NO	YES	3
500	65	150	4AEF12	169	73	2350	32.0	YES	YES	YES	1
500	65	150	3UNF11	178	77	2600	30.0	YES	NO	YES	3
500	65	150	4AEF10G	183	79	3000	29.0	YES	YES	YES	1
500	65	150	4AEF10G	172	74	3550	32.0	YES	YES	YES	1
500	65	150	5AEF8N	174	75	3550	34.0	YES	YES	YES	1
500	70	162	6AEF12	166	72	1760	54.0	YES	YES	YES	1
500	70	162	4AEF12	195	84	2100	35.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
500	70	162	3UNF11	184	80	2350	39.5	YES	NO	YES	3
500	70	162	4AEF12	187	81	2350	35.0	YES	YES	YES	1
500	70	162	3UNF11	189	82	2600	32.8	YES	NO	YES	3
500	70	162	4AEF10G	197	85	3000	31.0	YES	YES	YES	1
500	70	162	4AEF10G	184	80	3550	35.0	YES	YES	YES	1
500	70	162	5AEF8N	188	81	3550	37.0	YES	YES	YES	1
500	72	166	5THF15	190	82	2100	50.0	YES	NO	YES	1
500	72	166	4THF15	190	82	2200	46.0	YES	NO	YES	1
500	72	166	3UNF11	188	81	2800	35.0	YES	NO	YES	3
500	75	173	4AEF12	209	90	2100	37.0	YES	YES	YES	1
500	75	173	3UNF11	198	86	2350	44.1	YES	NO	YES	3
500	75	173	4AEF12	199	86	2350	38.0	YES	YES	YES	1
500	75	173	3UNF11	194	84	2600	39.0	YES	NO	YES	3
500	75	173	3UNF11	204	88	2800	40.1	YES	NO	YES	3
500	75	173	4AEF10G	211	91	3000	34.0	YES	YES	YES	1
500	75	173	4AEF10G	196	85	3550	38.0	YES	YES	YES	1
500	75	173	5AEF8N	201	87	3550	40.0	YES	YES	YES	1
500	76	176	6AEF16G	176	76	1760	56.5	YES	YES	YES	1
500	80	185	6AEF16G	184	80	1760	60.6	YES	YES	YES	1
500	80	185	4AEF12	223	97	2100	40.0	YES	YES	YES	1
500	80	185	5THF15	205	89	2200	58.0	YES	NO	YES	1
500	80	185	3UNF11	219	95	2350	49.0	YES	NO	YES	3
500	80	185	4AEF12	211	91	2350	42.0	YES	YES	YES	1
500	80	185	3UNF11	198	86	2600	48.6	YES	NO	YES	3
500	80	185	4AEF10	204	88	2600	42.5	YES	YES	NO	1
500	80	185	3UNF11	222	96	2800	46.0	YES	NO	YES	3
500	80	185	4AEF10G	225	97	3000	36.0	YES	YES	YES	1
500	80	185	4AEF10G	210	91	3550	40.0	YES	YES	YES	1
500	80	185	5AEF8N	215	93	3550	43.0	YES	YES	YES	1
500	81	187	4THF15	210	91	2300	52.0	YES	NO	YES	1
500	82	189	3UNF11	207	90	3000	41.0	YES	NO	YES	3
500	85	196	4AEF12	227	98	2100	40.0	YES	YES	YES	1
500	85	196	3UNF11	219	95	2350	49.0	YES	NO	YES	3
500	85	196	4AEF12	223	97	2350	44.0	YES	YES	YES	1
500	85	196	3UNF11	210	91	2600	52.9	YES	NO	YES	3
500	85	196	4AEF10	215	93	2600	45.5	YES	YES	NO	1
500	85	196	6UNF12	200	87	2600	75.0	YES	NO	YES	3
500	85	196	3UNF11	232	100	2800	49.0	YES	NO	YES	3
500	85	196	3UNF11	220	95	3000	45.0	YES	NO	YES	3
500	85	196	4AEF10G	223	97	3550	43.0	YES	YES	YES	1
500	85	196	5AEF8N	230	100	3550	45.0	YES	YES	YES	1
500	86	199	4THF12	235	102	2950	44.0	YES	NO	YES	1
500	87	201	5THF15	230	100	2300	62.0	YES	NO	YES	1
500	87	201	4THF15	230	100	2400	60.0	YES	NO	YES	1
500	88	203	3UNF11	219	95	2350	49.0	YES	NO	YES	3
500	90	208	4AEF12	237	103	2350	48.0	YES	YES	YES	1
500	90	208	3UNF11	221	95	2600	57.1	YES	NO	YES	3
500	90	208	4AEF10	218	94	2600	46.3	YES	YES	NO	1
500	90	208	3UNF11	241	104	2800	52.0	YES	NO	YES	3
500	90	208	4AEF10	213	92	2800	51.0	NO	YES	YES	1
500	90	208	3UNF11	233	101	3000	49.1	YES	NO	YES	3
500	90	208	4AEF10	225	97	3300	54.0	NO	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
500	90	208	4AEF10G	236	102	3550	45.0	YES	YES	YES	1
500	90	208	5AEF8N	245	106	3550	47.0	YES	YES	YES	1
500	91	210	6AEF16G	218	94	1760	62.3	YES	YES	YES	1
500	93	215	4AEF10	235	102	2800	53.0	YES	YES	YES	1
500	93	215	4AEF10	233	101	3300	56.0	YES	YES	YES	1
500	95	219	6AEF16G	206	89	1760	65.1	YES	YES	YES	1
500	95	219	4AEF12	250	108	2350	50.0	YES	YES	YES	1
500	95	219	3UNF11	233	101	2600	61.9	YES	NO	YES	3
500	95	219	3UNF11	248	107	2800	53.7	YES	NO	YES	3
500	95	219	4AEF10	240	104	2800	54.0	YES	YES	YES	1
500	95	219	3UNF11	246	106	3000	53.4	YES	NO	YES	3
500	95	219	4AEF10	239	103	3000	55.0	NO	YES	YES	1
500	95	219	4AEF10	238	103	3300	58.0	YES	YES	YES	1
500	95	219	3AEF9	261	113	3550	46.0	YES	YES	YES	1
500	95	219	4AEF10	237	103	3550	61.0	NO	YES	YES	1
500	95	219	4AEF10G	250	108	3550	48.0	YES	YES	YES	1
500	96	222	4THF15	245	106	2500	65.0	YES	NO	YES	1
500	96	222	4AEF10	238	103	3550	61.0	YES	YES	YES	1
500	97	224	5THF15	225	97	2400	70.0	YES	NO	YES	1
500	97	224	4AEF10	243	105	3000	57.0	YES	YES	YES	1
500	97	224	4THF12			3100		YES	NO	YES	1
500	98	226	6UNF12	230	100	2800	100.0	YES	NO	YES	3
500	100	231	4TUF5	259	112	1760	53.0	YES	YES	YES	4
500	100	231	4AEF12	266	115	2350	53.0	YES	YES	YES	1
500	100	231	3UNF11	243	105	2600	66.1	YES	NO	YES	3
500	100	231	3UNF11	261	113	2800	58.1	YES	NO	YES	3
500	100	231	4AEF10	251	109	2800	57.0	YES	YES	YES	1
500	100	231	3UNF11	258	112	3000	57.2	YES	NO	YES	3
500	100	231	4AEF10	250	108	3000	59.0	YES	YES	YES	1
500	100	231	4AEF10	248	107	3300	61.0	YES	YES	YES	1
500	100	231	3AEF9	271	117	3550	48.0	YES	YES	YES	1
500	100	231	4AEF10	248	107	3550	64.0	YES	YES	YES	1
500	100	231	4AEF10G	263	114	3550	50.0	YES	YES	YES	1
500	102	236	6AEF16G	217	94	1760	70.0	YES	YES	YES	1
500	104	240	5THF15	275	119	2500	80.0	YES	NO	YES	1
500	104	240	4THF15	275	119	2600	75.0	YES	NO	YES	1
500	105	243	4TUF5	268	116	1760	56.0	YES	YES	YES	4
500	105	243	4AEF12	279	121	2350	55.0	YES	YES	YES	1
500	105	242	3UNF11	265	115	2600	68.0	YES	NO	YES	3
500	105	242	3UNF11	274	119	2800	63.0	YES	NO	YES	3
500	105	243	4AEF10	253	110	2800	60.0	YES	NO	NO	1
500	105	242	3UNF11	268	116	3000	60.5	YES	NO	YES	3
500	105	243	4AEF10	261	113	3000	62.0	YES	YES	YES	1
500	105	243	4AEF10	260	113	3300	64.0	YES	YES	YES	1
500	105	243	3AEF9	286	124	3550	50.0	YES	YES	YES	1
500	105	243	4AEF10	259	112	3550	67.0	YES	YES	YES	1
500	105	243	4AEF10G	276	119	3550	52.0	YES	YES	YES	1
500	108	250	3UNF11	265	115	2600	68.0	YES	NO	YES	3
500	108	249	6UNF12	260	113	2950	120.0	YES	NO	YES	3
500	110	254	4TUF5	277	120	1760	61.0	YES	YES	YES	4
500	110	254	4AEF12	280	121	2350	55.0	YES	YES	YES	1
500	110	254	3UNF11	294	127	2800	76.0	YES	NO	YES	3

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
500	110	254	3UNF11	271	117	3000	61.7	YES	NO	YES	3
500	110	254	4AEF10	273	118	3000	66.0	YES	YES	YES	1
500	110	254	4AEF10	271	117	3300	68.0	YES	YES	YES	1
500	110	254	3AEF9	300	130	3550	53.0	YES	YES	YES	1
500	110	254	4AEF10	271	117	3550	71.0	YES	YES	YES	1
500	110	254	4AEF10G	290	126	3550	55.0	YES	YES	YES	1
500	112	259	6UNF12	268	116	3000	125.0	YES	NO	YES	3
500	113	261	6AEF16G	228	99	1760	76.1	YES	YES	YES	1
500	115	266	4TUF5	284	123	1760	64.0	YES	YES	YES	4
500	115	266	3UNF11	302	131	2800	78.0	YES	NO	YES	3
500	115	266	3UNF11	275	119	3000	63.0	YES	NO	YES	3
500	115	266	4AEF10	285	123	3000	70.0	YES	YES	YES	1
500	115	266	4AEF12	282	122	3000	68.0	YES	YES	YES	1
500	115	266	4AEF10	283	123	3300	72.0	YES	YES	YES	1
500	115	266	3AEF9	313	135	3550	55.0	YES	YES	YES	1
500	115	266	4AEF10	282	122	3550	74.0	YES	YES	YES	1
500	115	266	4AEF10G	303	131	3550	57.0	YES	YES	YES	1
500	117	270	6AEF16G	239	104	1760	81.8	YES	YES	YES	1
500	120	277	4TUF5	293	127	1760	66.0	YES	YES	YES	4
500	120	277	6AEF16G	251	109	1760	85.8	YES	YES	YES	1
500	120	277	3UNF11	311	135	2800	82.0	YES	NO	YES	3
500	120	277	3UNF11	282	122	3000	65.2	YES	NO	YES	3
500	120	277	4AEF10	290	126	3000	71.0	YES	YES	YES	1
500	120	277	4AEF12	295	128	3000	71.0	YES	YES	YES	1
500	120	277	4AEF10	295	128	3300	76.0	YES	YES	YES	1
500	120	277	3AEF9	327	142	3550	57.0	YES	YES	YES	1
500	120	277	4AEF10	294	127	3550	78.0	YES	YES	YES	1
500	120	277	4AEF10G	315	136	3550	59.0	YES	YES	YES	1
500	121	280	5TUF7	292	126	1760	74.0	NO	NO	YES	4
500	121	280	4THF15	320	139	2800	90.0	YES	NO	YES	1
500	122	282	4THF15	325	141	2100	75.0	YES	NO	YES	1
500	125	289	4TUF5	303	131	1760	69.0	YES	YES	YES	4
500	125	289	5TUF7	303	131	1760	79.0	NO	NO	YES	4
500	125	289	6AEF16G	263	114	1760	88.5	YES	YES	YES	1
500	125	289	3UNF11	311	135	2800	82.0	YES	NO	YES	3
500	125	289	3UNF11	297	129	3000	71.0	YES	NO	YES	3
500	125	289	4AEF12	307	133	3000	74.0	YES	YES	YES	1
500	125	289	4AEF10	307	133	3300	80.0	YES	YES	YES	1
500	125	289	3AEF9	340	147	3550	60.0	YES	YES	YES	1
500	125	289	3AEF9G	317	137	3550	68.0	YES	YES	YES	1
500	125	289	4AEF10	306	132	3550	81.0	YES	YES	YES	1
500	127	293	6AEF16G	291	126	1760	122.9	YES	YES	YES	1
500	127	293	3UNF11	311	135	2800	82.0	YES	NO	YES	3
500	128	296	3THF16	370	160	2600	65.0	YES	NO	NO	1
500	130	300	4TUF5	319	138	1760	72.0	YES	YES	YES	4
500	130	300	5TUF7	315	136	1760	83.0	NO	NO	YES	4
500	130	300	3UNF11	327	142	3000	88.0	YES	NO	YES	3
500	130	300	4AEF12	319	138	3000	78.0	YES	YES	YES	1
500	130	300	4AEF10	319	138	3300	84.0	YES	YES	YES	1
500	130	300	3AEF9	342	148	3550	60.0	YES	YES	YES	1
500	130	300	3AEF9G	328	142	3550	71.0	YES	YES	YES	1
500	130	300	4AEF10	318	138	3550	85.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
500	131	303	5THF15	325	141	2100	92.0	YES	NO	YES	1
500	131	303	4THF15	340	147	2900	130.0	YES	NO	YES	1
500	132	305	5TUF7	319	138	1760	85.0	YES	NO	YES	4
500	133	307	6AEF16G	276	120	1760	93.8	YES	YES	YES	1
500	133	307	3THF16	385	167	2950	65.0	YES	NO	YES	1
500	135	311	4TUF5	335	145	1760	75.0	YES	YES	YES	4
500	135	311	5TUF7	327	142	1760	87.0	YES	NO	YES	4
500	135	312	4THF15	350	152	2950	110.0	YES	NO	YES	1
500	135	312	3UNF11	335	145	3000	92.0	YES	NO	YES	3
500	135	312	4AEF12	332	144	3000	82.0	YES	YES	YES	1
500	135	312	4AEF10	331	143	3300	88.0	YES	YES	YES	1
500	135	312	3AEF9G	339	147	3550	74.0	YES	YES	YES	1
500	135	312	4AEF10	330	143	3550	90.0	YES	YES	YES	1
500	137	316	4THF15	345	149	2200	87.0	YES	NO	YES	1
500	138	319	6UNF12	325	141	2800	172.0	YES	NO	YES	3
500	139	321	3THF16	400	173	3000	65.0	YES	NO	NO	1
500	140	324	4TUF5	349	151	1760	78.0	YES	YES	YES	4
500	140	324	5TUF7	333	144	1760	91.0	YES	NO	YES	4
500	140	323	6AEF16G	287	124	1760	110.2	YES	YES	YES	1
500	140	323	3UNF11	345	149	3000	96.0	YES	NO	YES	3
500	140	323	4AEF12	344	149	3000	86.0	YES	YES	YES	1
500	140	323	4AEF10	343	148	3300	92.0	YES	YES	YES	1
500	140	323	4AEF12	336	145	3300	89.0	YES	YES	YES	1
500	140	323	3AEF9G	350	152	3550	77.0	YES	YES	YES	1
500	140	323	4AEF10	341	148	3550	94.0	YES	YES	YES	1
500	141	326	4THF15	360	156	3000	115.0	YES	NO	YES	1
500	142	328	3UNF11	345	149	3000	96.0	YES	NO	YES	3
500	143	330	5THF15	365	158	2200	105.0	YES	NO	YES	1
500	144	333	4THF13	350	152	2950	125.0	NO	NO	125	1
500	145	336	4TUF5	349	151	1760	83.0	YES	YES	YES	4
500	145	336	5TUF7	342	148	1760	96.0	YES	NO	YES	4
500	145	Min	5TYF16	R.F.	R.F.	1760	R.F.	YES	YES	YES	4
500	145	335	4AEF12	356	154	3000	90.0	YES	YES	YES	1
500	145	335	4AEF10	351	152	3300	95.0	YES	YES	YES	1
500	145	335	4AEF12	349	151	3300	92.0	YES	YES	YES	1
500	145	335	3AEF9G	359	155	3550	81.0	YES	YES	YES	1
500	145	335	4AEF10	353	153	3550	98.0	YES	YES	YES	1
500	149	344	6UNF12	345	149	2600	199.0	YES	NO	YES	3
500	150	347	4TUF5	358	155	1760	88.0	YES	YES	YES	4
500	150	347	5TUF7	358	155	1760	102.0	YES	NO	YES	4
500	150	347	4THF15	380	165	2300	100.0	YES	NO	YES	1
500	150	347	4AEF12	368	159	3000	94.0	YES	YES	YES	1
500	150	347	4AEF12	361	156	3300	95.0	YES	YES	YES	1
500	150	347	4AEF10	366	158	3550	103.0	YES	YES	YES	1
500	152	351	3THF16	430	186	2800	80.0	YES	NO	NO	1
500	154	356	6UNF12	360	156	2950	202.0	YES	NO	YES	3
500	155	358	4TUF5	370	160	1760	92.0	YES	YES	YES	4
500	155	358	5TUF7	370	160	1760	106.0	YES	NO	YES	4
500	155	358	4AEF12	381	165	3000	97.0	YES	YES	YES	1
500	155	358	4AEF12	374	162	3300	99.0	YES	YES	YES	1
500	155	358	4AEF10	377	163	3550	107.0	YES	YES	YES	1
500	158	365	5THF15	395	171	2300	121.0	YES	NO	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
500	158	365	4TUF11	453	196	2800	93.0	YES	YES	YES	4
500	158	365	4THF12	410	177	2950	85.5	YES	NO	YES	1
500	159	367	6UNF12	375	162	3000	212.0	YES	NO	YES	3
500	160	370	4TUF5	381	165	1760	96.0	YES	YES	YES	4
500	160	370	5TUF7	381	165	1760	110.0	YES	NO	YES	4
500	160	370	4TUF11	453	196	2800	93.1	YES	YES	YES	4
500	160	370	4AEF12	395	171	3000	100.0	YES	YES	YES	1
500	160	370	4AEF12	386	167	3300	103.0	YES	YES	YES	1
500	160	370	4AEF10	390	169	3550	112.0	YES	YES	YES	1
500	160	370	4AEF12	386	167	3550	110.0	YES	YES	YES	1
500	162	374	4THF15	420	182	2400	114.0	YES	NO	YES	1
500	165	381	4TUF5	393	170	1760	100.0	YES	YES	YES	4
500	165	381	5TUF7	390	169	1760	114.0	YES	NO	YES	4
500	165	381	4TUF11	401	173	2800	119.0	YES	YES	YES	4
500	165	381	4AEF12	408	177	3000	104.0	YES	YES	YES	1
500	165	381	4AEF12	398	172	3300	108.0	YES	YES	YES	1
500	165	381	4AEF10	401	174	3550	116.0	YES	YES	YES	1
500	165	381	4AEF12	391	169	3550	111.0	YES	YES	YES	1
500	170	393	4TUF5	404	175	1760	104.0	YES	YES	YES	4
500	170	393	5TUF7	402	174	1760	118.0	YES	NO	YES	4
500	170	393	4TUF11	413	179	2800	123.0	YES	YES	YES	4
500	170	393	4AEF12	422	183	3000	107.0	YES	YES	YES	1
500	170	393	4AEF12	410	177	3300	112.0	YES	YES	YES	1
500	170	393	4AEF10	406	176	3550	118.0	YES	YES	YES	1
500	170	393	4AEF12	404	175	3550	115.0	YES	YES	YES	1
500	171	Min	6TYF16E	R.F.	R.F.	1760	R.F.	YES	YES	YES	4
500	171	395	5THF15	430	186	2400	138.0	YES	NO	YES	1
500	173	Min	5TYF16	R.F.	R.F.	1900	R.F.	YES	YES	YES	4
500	173	400	5TUF7	416	180	2100	133.0	YES	NO	YES	4
500	175	404	4TUF5	416	180	1760	107.0	YES	YES	YES	4
500	175	404	5TUF7	413	179	1760	122.0	YES	NO	YES	4
500	175	404	5TUF7	416	180	2100	133.0	YES	NO	YES	4
500	175	404	4TUF11	427	185	2800	138.0	YES	YES	YES	4
500	175	404	4AEF12	435	188	3000	110.0	YES	YES	YES	1
500	175	404	4AEF12	422	183	3300	116.0	YES	YES	YES	1
500	175	404	4AEF12	416	180	3550	118.0	YES	YES	YES	1
500	176	407	4THF15	460	199	2500	127.0	YES	NO	YES	1
500	176	407	4THF12		0	3100		YES	NO	YES	1
500	180	416	4TUTF14	446	193	1760	101.0	YES	YES	NO	4
500	180	416	5TUF7	425	184	1760	126.0	YES	NO	YES	4
500	180	416	5TUF7	427	185	2100	138.0	YES	NO	YES	4
500	180	416	4TUF11	438	189	2800	143.0	YES	YES	YES	4
500	180	416	4AEF12	449	194	3000	113.0	YES	YES	YES	1
500	180	416	4AEF12	434	188	3300	121.0	YES	YES	YES	1
500	180	416	4AEF12	430	186	3550	122.0	YES	YES	YES	1
500	183	423	4TUF11	513	222	3000	114.0	YES	YES	YES	4
500	185	427	4TUTF14	457	198	1760	105.0	YES	YES	NO	4
500	185	427	5TUF7	434	188	1760	131.0	YES	NO	YES	4
500	185	427	5TUF7	439	190	2100	143.0	YES	NO	YES	4
500	185	427	4TUF11	451	195	2800	147.1	YES	YES	YES	4
500	185	427	4TUF11	523	226	3000	118.0	YES	YES	YES	4
500	185	427	4AEF12	448	194	3300	125.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
500	185	427	4AEF12	441	191	3550	126.0	YES	YES	YES	1
500	187	432	5THF15	470	203	2500	156.0	YES	NO	YES	1
500	190	439	4TUTF14	469	203	1760	109.0	YES	YES	NO	4
500	190	439	5TUF7	457	198	1760	137.0	YES	NO	YES	4
500	190	439	5TUF7	450	195	2100	148.0	YES	NO	YES	4
500	190	439	4TUF11	462	200	2800	152.1	YES	YES	YES	4
500	190	439	4TUF11	533	231	3000	123.0	YES	YES	YES	4
500	190	439	4AEF12	460	199	3300	129.0	YES	YES	YES	1
500	190	439	4AEF12	453	196	3550	131.0	YES	YES	YES	1
500	191	Max	5TYF16	R.F.	R.F.	1760	R.F.	YES	YES	YES	4
500	193	446	4THF15	490	212	2600	145.0	YES	NO	YES	1
500	195	Min	6TYF16E	R.F.	R.F.	1900	R.F.	YES	YES	YES	4
500	195	450	5TUF7	462	200	2100	153.0	YES	NO	YES	4
500	195	450	3THF16	525	227	2600	105.5	YES	NO	NO	1
500	195	450	4TUF11	537	233	2800	109.6	YES	YES	YES	4
500	195	450	4TUF11	543	235	3000	127.0	YES	YES	YES	4
500	195	450	4AEF12	473	205	3300	132.0	YES	YES	YES	1
500	195	450	4AEF12	466	202	3550	136.0	YES	YES	YES	1
500	196	453	5TUF13B	512	222	2800	172.5	YES	NO	NO	4
500	197	455	5TUF7	475	206	1760	146.0	YES	NO	YES	4
500	200	462	4TUTF14	490	212	1760	117.0	YES	YES	NO	4
500	200	462	5TUF7	474	205	2100	158.0	YES	NO	YES	4
500	200	462	4TUF11	486	211	2800	162.1	YES	YES	YES	4
500	200	462	5TUF13B	525	227	2800	182.2	YES	NO	NO	4
500	200	462	4TUF11	553	239	3000	131.0	YES	YES	YES	4
500	200	462	4AEF12	487	211	3300	136.0	YES	YES	YES	1
500	200	462	4AEF12	478	207	3550	140.0	YES	YES	YES	1
500	205	473	5TUF7	485	210	2100	163.0	YES	NO	YES	4
500	205	474	4TUF11	497	215	2800	167.1	YES	YES	YES	4
500	205	473	5TUF13B	535	232	2800	186.1	YES	NO	NO	4
500	205	474	4TUF11	563	244	3000	136.0	YES	YES	YES	4
500	205	474	4AEF12	500	216	3300	140.0	YES	YES	YES	1
500	205	474	4AEF12	490	212	3550	145.0	YES	YES	YES	1
500	210	485	4TUTF14	511	221	1760	125.0	YES	YES	NO	4
500	210	Max	6TYF16E	R.F.	R.F.	1760	R.F.	YES	YES	YES	4
500	210	485	5TUF7	497	215	2100	168.0	YES	NO	YES	4
500	210	485	4TUF11	509	220	2800	172.1	YES	YES	YES	4
500	210	485	5TUF13B	546	236	2800	190.6	YES	NO	NO	4
500	210	485	4TUF11	573	248	3000	140.0	YES	YES	YES	4
500	210	485	4AEF12	513	222	3300	143.0	YES	YES	YES	1
500	210	485	4AEF12	502	217	3550	150.0	YES	YES	YES	1
500	214	Min	5TYF16	R.F.	R.F.	2100	R.F.	YES	YES	YES	4
500	215	496	5TUF7	508	220	2100	173.0	YES	NO	YES	4
500	215	497	4TUF11	520	225	2800	177.1	YES	YES	YES	4
500	215	496	5TUF13B	557	241	2800	194.7	YES	NO	NO	4
500	215	497	4TUF11	587	254	3000	145.0	YES	YES	YES	4
500	215	497	4AEF12	526	228	3300	146.0	YES	YES	YES	1
500	215	497	4AEF12	514	223	3550	154.0	YES	YES	YES	1
500	219	506	4THF13	510	221	2950	227.0	NO	NO	200	1
500	220	508	4TUTF14	531	230	1760	132.0	YES	YES	NO	4
500	220	508	5TUF7	520	225	2100	178.0	YES	NO	YES	4
500	220	508	4TUF11	532	230	2800	182.1	YES	YES	YES	4

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
500	220	508	5TUF13B	559	242	2800	195.6	YES	NO	NO	4
500	220	508	4TUF11	601	260	3000	150.0	YES	YES	YES	4
500	220	508	4AEF12	540	234	3300	150.0	YES	YES	YES	1
500	220	508	4AEF12	527	228	3550	159.0	YES	YES	YES	1
500	223	Max	5TYF16	R.F.	R.F.	1900	R.F.	YES	YES	YES	4
500	225	520	5TUF7	531	230	2100	184.0	YES	NO	YES	4
500	225	520	4TUF11	543	235	2800	188.1	YES	YES	YES	4
500	225	519	5TUF13B	569	246	2800	199.6	YES	NO	NO	4
500	225	520	4TUF11	614	266	3000	155.0	YES	YES	YES	4
500	225	520	4AEF12	540	234	3550	162.0	YES	YES	YES	1
500	229	529	3THF16	615	266	2800	132.0	YES	NO	NO	1
500	229	529	4THF15	575	249	2800	180.0	YES	NO	YES	1
500	229	529	4TUF11	622	269	3300	151.0	YES	YES	YES	4
500	230	531	4TUTF14	554	240	1760	138.0	YES	YES	NO	4
500	230	531	5TUF7	543	235	2100	189.0	YES	NO	YES	4
500	230	531	4TUF11	556	241	2800	194.9	YES	YES	YES	4
500	230	531	5TUF13B	581	252	2800	204.1	YES	NO	NO	4
500	230	531	4TUF11	628	272	3000	160.0	YES	YES	YES	4
500	230	531	4TUF11	622	269	3300	150.5	YES	YES	YES	4
500	230	531	4AEF12	553	239	3550	166.0	YES	YES	YES	1
500	234	540	5TUF13B	596	258	3000	217.5	YES	NO	NO	4
500	235	543	5TUF7	554	240	2100	194.0	YES	NO	YES	4
500	235	543	4TUF11	567	246	2800	199.9	YES	YES	YES	4
500	235	542	5TUF13B	591	256	2800	208.1	YES	NO	NO	4
500	235	543	4TUF11	641	277	3000	165.0	YES	YES	YES	4
500	235	542	5TUF13B	598	259	3000	219.3	YES	NO	NO	4
500	235	543	4TUF11	608	263	3300	224.5	YES	YES	YES	4
500	235	543	4AEF12	567	245	3550	170.0	YES	YES	YES	1
500	240	554	4TUTF14	575	249	1760	144.0	YES	YES	NO	4
500	240	554	5TUF7	566	245	2100	199.0	YES	NO	YES	4
500	240	Min	6TYF16E	R.F.	R.F.	2100	R.F.	YES	YES	YES	4
500	240	554	4TUF11	R.F.	R.F.	2800	R.F.	YES	YES	YES	4
500	240	554	5TUF13B	602	261	2800	212.6	YES	NO	NO	4
500	240	554	4TUF11	655	284	3000	170.0	YES	YES	YES	4
500	240	554	5TUF13B	611	265	3000	225.7	YES	NO	NO	4
500	240	554	4TUF11	621	269	3300	230.9	YES	YES	YES	4
500	240	554	4AEF12	580	251	3550	174.0	YES	YES	YES	1
500	242	Max	6TYF16E	R.F.	R.F.	1900	R.F.	YES	YES	YES	4
500	245	566	5TUF7	578	250	2100	204.0	YES	NO	YES	4
500	245	566	4TUF11	591	256	2800	209.9	YES	YES	YES	4
500	245	565	5TUF13B	613	265	2800	216.6	YES	NO	NO	4
500	245	566	4TUF11	668	289	3000	175.0	YES	YES	YES	4
500	245	565	5TUF13B	621	269	3000	230.1	YES	NO	NO	4
500	245	566	4TUF11	631	273	3300	235.3	YES	YES	YES	4
500	245	566	4AEF12	593	257	3550	178.0	YES	YES	YES	1
500	247	571	4THF15	620	268	2900	243.0	YES	NO	YES	1
500	250	578	4TUTF14	596	258	1760	150.0	YES	YES	NO	4
500	250	578	5TUF7	589	255	2100	209.0	YES	NO	YES	4
500	250	578	4TUF11	602	261	2800	214.9	YES	YES	YES	4
500	250	577	5TUF13B	624	270	2800	221.1	YES	NO	NO	4
500	250	578	4TUF11	682	295	3000	180.0	YES	YES	YES	4
500	250	577	5TUF13B	632	274	3000	234.8	YES	NO	NO	4

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
500	250	578	4TUF11	642	278	3300	240.0	YES	YES	YES	4
500	250	578	4AEF12	606	262	3550	181.0	YES	YES	YES	1
500	255	589	5TUF7	600	260	2100	214.0	YES	NO	YES	4
500	255	589	4TUF11	613	265	2800	219.9	YES	YES	YES	4
500	255	588	5TUF13B	634	274	2800	225.2	YES	NO	NO	4
500	255	589	4THF15	640	277	2950	216.0	YES	NO	YES	1
500	255	589	4TUF11	695	301	3000	185.0	YES	YES	YES	4
500	255	588	5TUF13B	643	278	3000	239.2	YES	NO	NO	4
500	255	589	4TUF11	653	283	3300	244.4	YES	YES	YES	4
500	255	589	4AEF12	619	268	3550	185.0	YES	YES	YES	1
500	256	Min	5TXF12	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
500	256	Min	5TXF12	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
500	257	594	3THF16	680	294	2950	154.0	YES	NO	YES	1
500	260	600	5TUF7	612	265	2100	219.0	YES	NO	YES	4
500	260	Min	5TYF16	R.F.	R.F.	2300	R.F.	YES	YES	YES	4
500	260	601	4TUF11	R.F.	R.F.	2800	R.F.	YES	YES	YES	4
500	260	600	5TUF13B	646	280	2800	229.6	YES	NO	NO	4
500	260	601	4TUF11	706	306	3000	190.0	YES	YES	YES	4
500	260	600	5TUF13B	654	283	3000	243.9	YES	NO	NO	4
500	260	601	4TUF11	664	287	3300	249.1	YES	YES	YES	4
500	260	601	4AEF12	636	275	3550	190.0	YES	YES	YES	1
500	264	610	4THF15	660	286	3000	227.5	YES	NO	YES	1
500	265	612	5TUF7	624	270	2100	224.0	YES	NO	YES	4
500	265	612	4TUF11	637	276	2800	229.9	YES	YES	YES	4
500	265	611	5TUF13B	656	284	2800	230.0	YES	NO	NO	4
500	265	612	4TUF11	717	310	3000	195.0	YES	YES	YES	4
500	265	611	5TUF13B	664	287	3000	245.0	YES	NO	NO	4
500	265	612	4TUF11	674	292	3300	250.2	YES	YES	YES	4
500	268	619	3THF16	705	305	3000	162.0	YES	NO	NO	1
500	269	621	4TUF11	710	308	2800	197.0	YES	YES	YES	4
500	270	624	5TUF7	635	275	2100	230.0	YES	NO	YES	4
500	270	624	5TUF13B	668	289	2800	238.5	YES	NO	NO	4
500	270	624	4TUF11	728	315	3000	201.0	YES	YES	YES	4
500	270	624	5TUF13B	676	293	3000	253.5	YES	NO	NO	4
500	270	624	4TUF11	706	306	3300	192.0	YES	YES	YES	4
500	273	Min	5TYF16	R.F.	R.F.	2350	R.F.	YES	YES	YES	4
500	275	635	5TUF7	647	280	2100	235.0	YES	NO	YES	4
500	275	635	5TUF13B	679	294	2800	242.6	YES	NO	NO	4
500	275	635	4TUF11	739	320	3000	206.0	YES	YES	YES	4
500	275	635	5TUF13B	687	297	3000	257.8	YES	NO	NO	4
500	275	635	4TUF11	701	304	3300	263.2	YES	YES	YES	4
500	276	Max	5TYF16	R.F.	R.F.	2100	R.F.	YES	YES	YES	4
500	277	640	5TUF7	649	281	2100	235.0	NO	NO	YES	4
500	277	Min	6TYF13E	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
500	277	Min	6TYF13E	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
500	280	647	5TUF13B	690	299	2800	247.1	YES	NO	NO	4
500	280	647	4TUF11	750	325	3000	211.0	YES	YES	YES	4
500	280	647	5TUF13B	697	302	3000	262.6	YES	NO	NO	4
500	280	647	4TUF11	711	308	3300	268.0	YES	YES	YES	4
500	283	Min	6TYF13F	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
500	283	Min	6TYF13F	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
500	285	658	5TUF13B	701	303	2800	251.2	YES	NO	NO	4

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
500	285	658	4TUF11	761	329	3000	216.0	YES	YES	YES	4
500	285	658	5TUF13B	709	307	3000	267.0	YES	NO	NO	4
500	285	658	4TUF11	723	313	3300	272.4	YES	YES	YES	4
500	288	Min	6TYF16E	R.F.	R.F.	2300	R.F.	YES	YES	YES	4
500	290	670	5TUF13B	712	308	2800	255.8	YES	NO	NO	4
500	290	670	4TUF11	772	334	3000	221.0	YES	YES	YES	4
500	290	670	5TUF13B	720	312	3000	271.8	YES	NO	NO	4
500	290	670	4TUF11	734	318	3300	277.2	YES	YES	YES	4
500	295	681	5TUF13B	723	313	2800	260.0	YES	NO	NO	4
500	295	681	4TUF11	783	339	3000	226.0	YES	YES	YES	4
500	295	681	5TUF13B	730	316	3000	276.1	YES	NO	NO	4
500	295	681	4TUF11	744	322	3300	281.5	YES	YES	YES	4
500	298	Max	6TYF16E	R.F.	R.F.	2100	R.F.	YES	YES	YES	4
500	300	Min	6TYF16E	R.F.	R.F.	2350	R.F.	YES	YES	YES	4
500	300	693	5TUF13B	735	318	2800	264.6	YES	NO	NO	4
500	300	693	4TUF11	794	344	3000	232.0	YES	YES	YES	4
500	300	693	5TUF13B	742	321	3000	280.9	YES	NO	NO	4
500	300	693	4TUF11	756	327	3300	286.3	YES	YES	YES	4
500	302	697	5TUF13B	758	328	3300	306.7	YES	NO	NO	4
500	305	704	5TUF13B	746	323	2800	268.9	YES	NO	NO	4
500	305	705	4TUF11	805	348	3000	237.0	YES	YES	YES	4
500	305	704	5TUF13B	752	326	3000	285.3	YES	NO	NO	4
500	305	705	4TUF11	766	332	3300	290.7	YES	YES	YES	4
500	305	704	5TUF13B	765	331	3300	309.8	YES	NO	NO	4
500	310	716	5TUF13B	758	328	2800	273.6	YES	NO	NO	4
500	310	716	4TUF11	816	353	3000	242.0	YES	YES	YES	4
500	310	716	5TUF13B	763	330	3000	287.5	YES	NO	NO	4
500	310	716	4TUF11	777	336	3300	292.9	YES	YES	YES	4
500	310	716	5TUF13B	776	336	3300	315.0	YES	NO	NO	4
500	312	721	4TUF11	816	353	3000	242.0	YES	YES	YES	4
500	315	727	5TUF13B	768	332	2800	277.9	YES	NO	NO	4
500	315	727	5TUF13B	774	335	3000	294.5	YES	NO	NO	4
500	315	728	4TUF11	788	341	3300	299.9	YES	YES	YES	4
500	315	727	5TUF13B	787	341	3300	319.8	YES	NO	NO	4
500	320	739	5TUF13B	780	338	2800	282.6	YES	NO	NO	4
500	320	739	5TUF13B	785	340	3000	299.3	YES	NO	NO	4
500	320	739	4TUF11	799	346	3300	304.7	YES	YES	YES	4
500	320	739	5TUF13B	798	345	3300	325.1	YES	NO	NO	4
500	325	750	5TUF13B	791	342	2800	286.9	YES	NO	NO	4
500	325	750	5TUF13B	796	345	3000	303.7	YES	NO	NO	4
500	325	751	4TUF11	807	349	3300	309.6	YES	YES	YES	4
500	325	750	5TUF13B	808	350	3300	329.9	YES	NO	NO	4
500	330	762	5TUF13B	803	348	2800	291.5	YES	NO	NO	4
500	330	Max	5TXF12	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
500	330	Max	5TXF12	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
500	330	762	5TUF13B	807	349	3000	308.5	YES	NO	NO	4
500	330	762	4TUF11	818	354	3300	314.4	YES	YES	YES	4
500	330	762	5TUF13B	820	355	3300	335.2	YES	NO	NO	4
500	334	Max	5TYF16	R.F.	R.F.	2300	R.F.	YES	YES	YES	4
500	335	773	5TUF13B	814	352	2800	295.8	YES	NO	NO	4
500	335	773	5TUF13B	818	354	3000	313.0	YES	NO	NO	4
500	335	774	4TUF11	829	359	3300	318.9	YES	YES	YES	4

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
500	335	773	5TUF13B	830	359	3300	340.0	YES	NO	NO	4
500	340	785	5TUF13B	826	358	2800	300.5	YES	NO	NO	4
500	340	785	5TUF13B	830	359	3000	317.9	YES	NO	NO	4
500	340	785	4TUF11	841	364	3300	323.8	YES	YES	YES	4
500	340	785	5TUF13B	842	365	3300	345.3	YES	NO	NO	4
500	345	796	5TUF13B	837	362	2800	304.7	YES	NO	NO	4
500	345	796	5TUF13B	840	364	3000	322.5	YES	NO	NO	4
500	345	797	4TUF11	851	368	3300	328.4	YES	YES	YES	4
500	345	796	5TUF13B	852	369	3300	350.1	YES	NO	NO	4
500	350	Max	5TYF16	R.F.	R.F.	2350	R.F.	YES	YES	YES	4
500	350	808	5TUF13B	849	368	2800	309.4	YES	NO	NO	4
500	350	808	5TUF13B	852	369	3000	327.5	YES	NO	NO	4
500	350	809	4TUF11	863	374	3300	333.4	YES	YES	YES	4
500	350	808	5TUF13B	863	374	3300	355.4	YES	NO	NO	4
500	355	820	5TUF13B	860	372	2800	314.0	YES	NO	NO	4
500	355	820	5TUF13B	864	374	3000	332.5	YES	NO	NO	4
500	355	820	4TUF11	875	379	3300	338.4	YES	YES	YES	4
500	355	820	5TUF13B	875	379	3300	360.7	YES	NO	NO	4
500	360	Max	6TYF16E	R.F.	R.F.	2300	R.F.	YES	YES	YES	4
500	360	832	5TUF13B	872	377	2800	318.7	YES	NO	NO	4
500	360	832	5TUF13B	876	379	3000	337.5	YES	NO	NO	4
500	360	832	4TUF11	887	384	3300	343.4	YES	YES	YES	4
500	360	832	5TUF13B	886	384	3300	366.0	YES	NO	NO	4
500	365	843	5TUF13B	883	382	2800	323.0	YES	NO	NO	4
500	365	843	5TUF13B	887	384	3000	342.1	YES	NO	NO	4
500	365	843	4TUF11	898	389	3300	348.0	YES	YES	YES	4
500	365	843	5TUF13B	897	388	3300	370.8	YES	NO	NO	4
500	370	855	5TUF13B	895	387	2800	327.6	YES	NO	NO	4
500	370	Max	6TYF13E	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
500	370	Max	6TYF13E	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
500	370	855	5TUF13B	899	389	3000	345.0	YES	NO	NO	4
500	370	855	4TUF11	910	394	3300	350.9	YES	YES	YES	4
500	370	855	5TUF13B	908	393	3300	376.1	YES	NO	NO	4
500	372	859	5TUF13B	899	389	2800	329.2	YES	NO	NO	4
500	375	Max	6TYF16E	R.F.	R.F.	2350	R.F.	YES	YES	YES	4
500	375	866	5TUF13B	910	394	3000	351.7	YES	NO	NO	4
500	375	866	4TUF11	921	399	3300	357.6	YES	YES	YES	4
500	375	866	5TUF13B	919	398	3300	381.0	YES	NO	NO	4
500	378	Max	6TYF13F	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
500	378	Max	6TYF13F	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
500	380	878	5TUF13B	921	399	3000	356.7	YES	NO	NO	4
500	380	878	4TUF11	932	403	3300	362.6	YES	YES	YES	4
500	380	878	5TUF13B	930	403	3300	386.3	YES	NO	NO	4
500	384	887	4TUF11	941	407	3300	392.2	YES	YES	YES	4
500	385	889	5TUF13B	932	403	3000	361.3	YES	NO	NO	4
500	385	889	5TUF13B	941	407	3300	391.1	YES	NO	NO	4
500	390	901	5TUF13B	944	409	3000	366.2	YES	NO	NO	4
500	390	901	5TUF13B	952	412	3300	396.4	YES	NO	NO	4
500	395	912	5TUF13B	955	413	3000	370.8	YES	NO	NO	4
500	395	912	5TUF13B	962	416	3300	401.3	YES	NO	NO	4
500	400	924	5TUF13B	967	419	3000	375.8	YES	NO	NO	4
500	400	924	5TUF13B	974	422	3300	406.6	YES	NO	NO	4

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
500	405	935	5TUF13B	978	423	3000	380.4	YES	NO	NO	4
500	405	935	5TUF13B	984	426	3300	411.5	YES	NO	NO	4
500	410	947	5TUF13B	990	429	3000	385.3	YES	NO	NO	4
500	410	947	5TUF13B	996	431	3300	416.9	YES	NO	NO	4
500	415	958	5TUF13B	1000	433	3000	389.9	YES	NO	NO	4
500	415	958	5TUF13B	1007	436	3300	421.9	YES	NO	NO	4
500	420	970	5TUF13B	1012	438	3000	394.9	YES	NO	NO	4
500	420	970	5TUF13B	1019	441	3300	427.4	YES	NO	NO	4
500	425	981	5TUF13B	1023	443	3000	399.4	YES	NO	NO	4
500	425	981	5TUF13B	1030	446	3300	432.5	YES	NO	NO	4
500	429	991	5TUF13B	1033	447	3000	402.5	YES	NO	NO	4
500	430	993	5TUF13B	1042	451	3300	437.9	YES	NO	NO	4
500	435	1004	5TUF13B	1052	455	3300	443.0	YES	NO	NO	4
500	440	1016	5TUF13B	1064	461	3300	448.5	YES	NO	NO	4
500	445	1027	5TUF13B	1075	465	3300	453.5	YES	NO	NO	4
500	450	1040	5TUF13B	1088	471	3300	459.4	YES	NO	NO	4
500	455	1051	5TUF13B	1099	476	3300	464.4	YES	NO	NO	4
750	40	92	4AEF11	107	46	1760	25.0	YES	YES	YES	1
750	45	104	4AEF11	120	52	1760	29.0	YES	YES	YES	1
750	50	116	4AEF11	132	57	1760	34.0	YES	YES	YES	1
750	50	116	5AEF14	128	55	1760	39.0	YES	YES	YES	1
750	50	116	6AEF12	130	56	1760	41.0	YES	YES	YES	1
750	55	127	4AEF11	142	61	1760	39.0	YES	YES	YES	1
750	55	127	5AEF14	140	61	1760	43.0	YES	YES	YES	1
750	55	127	6AEF12	143	62	1760	45.0	YES	YES	YES	1
750	58	134	5AEF11	156	68	2600	41.0	YES	YES	NO	1
750	60	139	5AEF14	152	66	1760	47.0	YES	YES	YES	1
750	60	139	6AEF12	154	67	1760	49.0	YES	YES	YES	1
750	60	139	5AEF11	161	70	2600	43.0	YES	YES	NO	1
750	60	139	5AEF8	173	75	3000	40.0	YES	YES	YES	1
750	62	143	4THF15	190	82	2200	46.0	YES	NO	YES	1
750	65	150	5AEF14	164	71	1760	51.0	YES	YES	YES	1
750	65	150	6AEF12	166	72	1760	53.0	YES	YES	YES	1
750	65	150	5AEF11	172	74	2600	47.0	YES	YES	NO	1
750	65	150	5AEF11	178	77	2800	50.0	NO	YES	YES	1
750	65	150	5AEF8	185	80	3000	45.0	YES	YES	YES	1
750	65	150	5AEF8	187	81	3550	44.0	YES	YES	YES	1
750	69	159	6AEF16G	165	72	1760	47.3	YES	YES	YES	1
750	69	159	4THF15	210	91	2300	52.0	YES	NO	YES	1
750	70	162	5AEF14	176	76	1760	54.0	YES	YES	YES	1
750	70	162	6AEF12	173	75	1760	60.0	YES	YES	YES	1
750	70	162	5THF15	205	89	2200	58.0	YES	NO	YES	1
750	70	162	5AEF11	184	80	2600	51.0	YES	YES	NO	1
750	70	162	5AEF11	183	79	2800	52.0	YES	YES	YES	1
750	70	162	5AEF8	197	85	3000	49.0	YES	YES	YES	1
750	70	162	5AEF8	196	85	3300	47.0	YES	YES	YES	1
750	70	162	5AEF8	198	86	3550	48.0	YES	YES	YES	1
750	74	171	5THF11	200	87	2950	55.0	YES	NO	YES	1
750	75	173	5AEF14	187	81	1760	58.0	YES	YES	YES	1
750	75	173	6AEF16G	178	77	1760	57.9	YES	YES	YES	1
750	75	173	5AEF14	182	79	2100	65.0	YES	YES	NO	1
750	75	173	5AEF11	195	84	2600	55.0	YES	YES	NO	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
750	75	173	5AEF11	195	84	2800	56.0	YES	YES	YES	1
750	75	173	5AEF8	208	90	3000	54.0	YES	YES	YES	1
750	75	173	5AEF8	208	90	3300	52.0	YES	YES	YES	1
750	75	173	5AEF8	209	90	3550	52.0	YES	YES	YES	1
750	77	178	4THF15	230	100	2400	60.0	YES	NO	YES	1
750	78	180	5THF15	230	100	2300	62.0	YES	NO	YES	1
750	80	185	5AEF14	198	86	1760	64.0	YES	YES	YES	1
750	80	185	5AEF14	192	83	2100	70.0	YES	YES	NO	1
750	80	185	5AEF11	207	90	2600	60.0	YES	YES	NO	1
750	80	185	5AEF11	206	89	2800	60.0	YES	YES	YES	1
750	80	185	5AEF8	220	95	3300	58.0	YES	YES	YES	1
750	80	185	5AEF8	220	95	3550	55.0	YES	YES	YES	1
750	82	189	4THF15	172	74	2100	40.0	YES	NO	YES	1
750	82	189	4AEF10	226	98	3300	56.0	YES	YES	YES	1
750	83	192	6UNF12	200	87	2600	75.0	YES	NO	YES	3
750	83	192	4AEF10	230	100	2800	53.0	YES	YES	YES	1
750	84	194	4AEF10	236	102	3550	59.0	YES	YES	YES	1
750	85	196	5AEF14	209	90	1760	70.0	YES	YES	YES	1
750	85	196	5AEF14	204	88	2100	75.0	YES	YES	NO	1
750	85	196	4THF15	245	106	2500	65.0	YES	NO	YES	1
750	85	196	5AEF11	219	95	2600	65.0	YES	YES	NO	1
750	85	196	4AEF10	235	102	2800	54.0	YES	YES	YES	1
750	85	196	5AEF11	217	94	2800	64.0	YES	YES	YES	1
750	85	196	4AEF10	235	102	3300	58.0	YES	YES	YES	1
750	85	196	5AEF8	232	100	3300	63.0	YES	YES	YES	1
750	85	196	4AEF10	238	103	3550	60.0	YES	YES	YES	1
750	85	196	5AEF8	231	100	3550	61.0	YES	YES	YES	1
750	86	199	4AEF10	238	103	3000	56.0	YES	YES	YES	1
750	88	203	5THF15	225	97	2400	70.0	YES	NO	YES	1
750	90	208	5AEF14	209	90	1760	70.0	YES	YES	YES	1
750	90	208	5AEF14	216	94	2100	80.0	YES	YES	NO	1
750	90	208	5THF15	190	82	2100	50.0	YES	NO	YES	1
750	90	208	5AEF11	232	100	2600	70.0	YES	YES	NO	1
750	90	208	4AEF10	240	104	2800	54.0	YES	YES	YES	1
750	90	208	5AEF11	228	99	2800	67.0	YES	YES	YES	1
750	90	208	4AEF10	250	108	3000	59.0	YES	YES	YES	1
750	90	208	4AEF10	249	108	3300	61.0	YES	YES	YES	1
750	90	208	5AEF8	243	105	3300	68.0	YES	YES	YES	1
750	90	208	4AEF10	249	108	3550	63.0	YES	YES	YES	1
750	90	208	5AEF8	243	105	3550	66.0	YES	YES	YES	1
750	93	215	6AEF16G	190	82	1760	61.6	YES	YES	YES	1
750	93	215	5AEF14	219	95	2300	87.0	YES	YES	NO	1
750	93	215	4AEF10	253	110	2800	58.0	YES	YES	YES	1
750	94	217	5AEF14	225	97	1760	86.0	YES	YES	YES	1
750	94	217	4THF15	275	119	2600	75.0	YES	NO	YES	1
750	95	219	6AEF16G	202	87	1760	63.8	YES	YES	YES	1
750	95	219	5AEF14	228	99	2100	84.0	YES	YES	NO	1
750	95	219	5AEF14	223	97	2300	89.0	YES	YES	NO	1
750	95	219	5AEF11	244	106	2600	75.0	YES	YES	NO	1
750	95	219	5AEF11	240	104	2800	72.0	YES	YES	YES	1
750	95	219	5THF12	240	104	2950	80.0	YES	NO	YES	1
750	95	219	4AEF10	260	113	3000	62.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
750	95	219	4AEF10	259	112	3300	64.0	YES	YES	YES	1
750	95	219	5AEF8	255	110	3300	74.0	YES	YES	YES	1
750	95	219	4AEF10	260	113	3550	66.0	YES	YES	YES	1
750	95	219	5AEF8	255	110	3550	72.0	YES	YES	YES	1
750	97	224	5THF15	275	119	2500	80.0	YES	NO	YES	1
750	97	224	6UNF12	230	100	2800	100.0	YES	NO	YES	3
750	100	231	5TUF7	268	116	1760	66.0	YES	YES	YES	4
750	100	231	5AEF14	240	104	2100	88.0	YES	YES	NO	1
750	100	231	5AEF14	236	102	2300	95.0	YES	YES	NO	1
750	100	231	5AEF14	235	102	2350	96.0	YES	YES	NO	1
750	100	231	5AEF11	252	109	2600	77.0	YES	YES	NO	1
750	100	231	5AEF11	251	109	2800	77.0	YES	YES	YES	1
750	100	231	4AEF10	273	118	3000	66.0	YES	YES	YES	1
750	100	231	4AEF12	285	123	3000	69.0	YES	YES	YES	1
750	100	231	4AEF10	271	117	3300	68.0	YES	YES	YES	1
750	100	231	4AEF10	270	117	3550	70.0	YES	YES	YES	1
750	100	231	5AEF8	267	116	3550	76.0	YES	YES	YES	1
750	105	243	5TUF7	280	121	1760	70.0	YES	YES	YES	4
750	105	243	6AEF16G	213	92	1760	68.2	YES	YES	YES	1
750	105	243	5AEF14	252	109	2100	92.0	YES	YES	NO	1
750	105	243	5AEF14	248	107	2300	101.0	YES	YES	NO	1
750	105	242	5AEF14	245	106	2350	103.0	YES	YES	NO	1
750	105	243	5AEF14	247	107	2350	102.0	YES	YES	NO	1
750	105	243	5THF15	290	126	2600	95.0	YES	NO	YES	1
750	105	243	5AEF11	264	114	2800	82.0	YES	YES	YES	1
750	105	243	4AEF10	285	123	3000	70.0	YES	YES	YES	1
750	105	243	4AEF12	297	129	3000	72.0	YES	YES	YES	1
750	105	243	4AEF10	283	123	3300	72.0	YES	YES	YES	1
750	105	243	4AEF10	281	122	3550	73.0	YES	YES	YES	1
750	105	243	5AEF8	279	121	3550	83.0	YES	YES	YES	1
750	106	245	5AEF11	260	113	2600	78.0	YES	YES	NO	1
750	107	247	6UNF12	260	113	2950	120.0	YES	NO	YES	3
750	108	249	4THF15	325	141	2100	75.0	YES	NO	YES	1
750	110	254	5TUF7	292	126	1760	74.0	YES	YES	YES	4
750	110	254	6AEF16G	272	118	1760	70.8	YES	YES	YES	1
750	110	254	5AEF14	263	114	2100	97.0	YES	YES	NO	1
750	110	254	5AEF14	260	113	2300	106.0	YES	YES	NO	1
750	110	254	5AEF14	259	112	2350	107.0	YES	YES	NO	1
750	110	254	5AEF14	258	112	2350	109.0	YES	YES	NO	1
750	110	254	5AEF11	276	119	2800	88.0	YES	YES	YES	1
750	110	254	4AEF10	297	129	3000	71.0	YES	YES	YES	1
750	110	254	4AEF12	310	134	3000	75.0	YES	YES	YES	1
750	110	254	4AEF10	294	127	3300	75.0	YES	YES	YES	1
750	110	254	4AEF10	292	126	3550	77.0	YES	YES	YES	1
750	110	254	5AEF8	291	126	3550	89.0	YES	YES	YES	1
750	111	256	5THF11G	290	126	2950	80.0	YES	NO	YES	1
750	111	256	6UNF12	268	116	3000	125.0	YES	NO	YES	3
750	112	259	4THF15	320	139	2800	90.0	YES	NO	YES	1
750	113	261	6AEF16G	225	97	1760	74.2	YES	YES	YES	1
750	115	266	5TUF7	303	131	1760	79.0	YES	YES	YES	4
750	115	266	5AEF14	274	119	2100	104.0	YES	YES	NO	1
750	115	266	5AEF14	272	118	2300	111.0	YES	YES	NO	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
750	115	266	5AEF14	271	117	2350	113.0	YES	YES	NO	1
750	115	266	5AEF14	270	117	2350	115.0	YES	YES	NO	1
750	115	266	5AEF11	288	125	2800	93.0	YES	YES	YES	1
750	115	266	4AEF12	322	139	3000	79.0	YES	YES	YES	1
750	115	266	4AEF10	306	132	3300	79.0	YES	YES	YES	1
750	115	266	4AEF10	303	131	3550	80.0	YES	YES	YES	1
750	117	270	6AEF16G	236	102	1760	80.2	YES	YES	YES	1
750	120	277	5TUF7	315	136	1760	83.0	YES	YES	YES	4
750	120	277	6AEF16G	247	107	1760	84.8	YES	YES	YES	1
750	120	277	5AEF14	286	124	2100	111.0	YES	YES	NO	1
750	120	277	5AEF14	284	123	2300	115.0	YES	YES	NO	1
750	120	277	5AEF14	283	123	2350	118.0	YES	YES	NO	1
750	120	277	5AEF14	282	122	2350	120.0	YES	YES	NO	1
750	120	277	5AEF11	294	127	2800	96.0	YES	YES	YES	1
750	120	277	4AEF12	335	145	3000	83.0	YES	YES	YES	1
750	120	277	4AEF10	318	138	3300	83.0	YES	YES	YES	1
750	120	277	4AEF10	315	136	3550	84.0	YES	YES	YES	1
750	121	280	5THF15	325	141	2100	92.0	YES	NO	YES	1
750	121	280	4THF15	340	147	2900	130.0	YES	NO	YES	1
750	121	280	4AEF12	334	145	3300	89.0	YES	YES	YES	1
750	122	282	4THF15	345	149	2200	87.0	YES	NO	YES	1
750	124	286	5THF15	340	147	2800	115.0	YES	NO	YES	1
750	124	286	4THF15	350	152	2950	110.0	YES	NO	YES	1
750	125	289	5TUF7	327	142	1760	87.0	YES	YES	YES	4
750	125	289	6AEF16G	260	112	1760	87.7	YES	YES	YES	1
750	125	289	5AEF14	297	129	2100	118.0	YES	YES	NO	1
750	125	289	5AEF14	296	128	2300	119.0	YES	YES	NO	1
750	125	289	5AEF14	295	128	2350	122.0	YES	YES	NO	1
750	125	289	5AEF14	294	127	2350	125.0	YES	YES	NO	1
750	125	289	4AEF12	347	150	3000	87.0	YES	YES	YES	1
750	125	289	4AEF10	329	142	3300	87.0	YES	YES	YES	1
750	125	289	4AEF12	337	146	3300	89.0	YES	YES	YES	1
750	125	289	4AEF10	326	141	3550	88.0	YES	YES	YES	1
750	126	291	6AEF16G	293	127	1760	130.8	YES	YES	YES	1
750	130	300	5TUF7	333	144	1760	91.0	YES	YES	YES	4
750	130	300	5AEF14	307	133	2100	122.0	YES	YES	YES	1
750	130	300	5AEF14	307	133	2300	123.0	YES	YES	NO	1
750	130	300	5AEF14	306	132	2350	126.0	YES	YES	NO	1
750	130	300	5AEF14	306	132	2350	129.0	YES	YES	NO	1
750	130	300	4AEF12	359	155	3000	91.0	YES	YES	YES	1
750	130	300	4AEF10	341	148	3300	91.0	YES	YES	YES	1
750	130	300	4AEF12	349	151	3300	92.0	YES	YES	YES	1
750	130	300	4AEF10	338	146	3550	93.0	YES	YES	YES	1
750	131	303	6AEF16G	283	122	1760	102.1	YES	YES	YES	1
750	131	303	4THF15	360	156	3000	115.0	YES	NO	YES	1
750	134	310	5THF15	365	158	2200	105.0	YES	NO	YES	1
750	134	310	5THF11	350	152	2950	105.0	YES	NO	YES	1
750	135	311	5TUF7	342	148	1760	96.0	YES	YES	YES	4
750	135	312	5AEF14	321	139	2100	139.0	YES	YES	YES	1
750	135	312	5AEF14	319	138	2300	130.0	YES	YES	NO	1
750	135	312	5AEF14	319	138	2350	130.0	YES	YES	NO	1
750	135	312	5AEF14	318	138	2350	134.0	YES	YES	NO	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
750	135	312	4AEF12	373	161	3000	95.0	YES	YES	YES	1
750	135	312	4AEF10	358	155	3300	95.0	YES	YES	YES	1
750	135	312	4AEF12	362	157	3300	96.0	YES	YES	YES	1
750	135	312	4AEF10	349	151	3550	97.0	YES	YES	YES	1
750	136	314	5THF15	360	156	2900	130.0	YES	NO	YES	1
750	136	314	4THF13	350	152	2950	125.0	NO	NO	125	1
750	137	316	4THF15	380	165	2300	100.0	YES	NO	YES	1
750	137	316	6UNF12	325	141	2800	172.0	YES	NO	YES	3
750	139	321	4AEF10	358	155	3300	95.0	YES	YES	YES	1
750	140	324	5TUF7	358	155	1760	102.0	YES	YES	YES	4
750	140	323	5AEF14	330	143	2300	138.0	YES	YES	NO	1
750	140	323	5AEF14	330	143	2350	136.0	YES	YES	NO	1
750	140	323	5AEF14	329	142	2350	138.0	YES	YES	NO	1
750	140	323	4AEF12	386	167	3000	99.0	YES	YES	YES	1
750	140	323	4AEF12	374	162	3300	99.0	YES	YES	YES	1
750	140	323	4AEF10	361	156	3550	101.0	YES	YES	YES	1
750	141	326	5THF15	380	165	2950	130.0	YES	NO	YES	1
750	141	326	5AEF12	357	155	3000	119.0	YES	YES	YES	1
750	142	328	5THF11G	368	159	2950	118.0	YES	NO	YES	1
750	145	336	5TUF7	370	160	1760	106.0	YES	YES	YES	4
750	145	335	5AEF14	342	148	2300	146.0	YES	YES	NO	1
750	145	335	5AEF14	341	148	2350	143.0	YES	YES	NO	1
750	145	335	5AEF14	342	148	2350	145.0	YES	YES	NO	1
750	145	335	4AEF12	402	174	3000	102.0	YES	YES	YES	1
750	145	335	5AEF12	365	158	3000	123.0	YES	YES	YES	1
750	145	335	4AEF12	387	168	3300	103.0	YES	YES	YES	1
750	145	335	4AEF10	372	161	3550	105.0	YES	YES	YES	1
750	146	337	5THF15	390	169	3000	150.0	YES	NO	YES	1
750	147	339	4AEF12	386	167	3550	110.0	YES	YES	YES	1
750	148	342	5THF15	395	171	2300	121.0	YES	NO	YES	1
750	148	342	6UNF12	345	149	2600	199.0	YES	NO	YES	3
750	149	344	4THF15	420	182	2400	114.0	YES	NO	YES	1
750	150	347	5TUF7	381	165	1760	110.0	YES	YES	YES	4
750	150	347	5AEF14	354	153	2300	154.0	YES	YES	NO	1
750	150	347	5AEF14	353	153	2350	152.0	YES	YES	NO	1
750	150	347	5AEF14	354	153	2350	153.0	YES	YES	NO	1
750	150	347	4AEF12	417	181	3000	106.0	YES	YES	YES	1
750	150	347	5AEF12	376	163	3000	129.0	YES	YES	YES	1
750	150	347	4AEF12	399	173	3300	108.0	YES	YES	YES	1
750	150	347	4AEF10	384	166	3550	110.0	YES	YES	YES	1
750	150	347	4AEF12	391	169	3550	111.0	YES	YES	YES	1
750	153	353	6UNF12	360	156	2950	202.0	YES	NO	YES	3
750	155	358	5TUF7	390	169	1760	114.0	YES	YES	YES	4
750	155	358	5AEF14	364	158	2300	161.0	YES	YES	NO	1
750	155	358	5AEF14	364	158	2350	160.0	YES	YES	NO	1
750	155	358	5AEF14	365	158	2350	161.0	YES	YES	NO	1
750	155	358	4AEF12	431	187	3000	110.0	YES	YES	YES	1
750	155	358	5AEF12	388	168	3000	135.0	YES	YES	YES	1
750	155	358	4AEF12	411	178	3300	112.0	YES	YES	YES	1
750	155	358	4AEF10	396	171	3550	114.0	YES	YES	YES	1
750	155	358	4AEF12	403	174	3550	115.0	YES	YES	YES	1
750	156	360	5AEF12	397	172	3300	137.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
750	158	365	6UNF12	375	162	3000	212.0	YES	NO	YES	3
750	160	370	5TUF7	402	174	1760	118.0	YES	YES	YES	4
750	160	370	5AEF14	380	165	2300	176.0	YES	YES	NO	1
750	160	370	5AEF14	377	163	2350	169.0	YES	YES	NO	1
750	160	370	5AEF14	377	163	2350	170.0	YES	YES	NO	1
750	160	370	4AEF12	446	193	3000	113.0	YES	YES	YES	1
750	160	370	5AEF12	399	173	3000	142.0	YES	YES	YES	1
750	160	370	4AEF12	424	184	3300	117.0	YES	YES	YES	1
750	160	370	5AEF12	400	173	3300	138.0	YES	YES	YES	1
750	160	370	4AEF10	406	176	3550	118.0	YES	YES	YES	1
750	160	370	4AEF12	415	180	3550	118.0	YES	YES	YES	1
750	162	374	5THF15	430	186	2400	138.0	YES	NO	YES	1
750	163	Min	5TYF16	R.F.	R.F.	1900	R.F.	R.F.	R.F.	R.F.	4
750	163	Min	5TYF16	R.F.	R.F.	1900	R.F.	YES	YES	YES	4
750	164	379	4THF15	460	199	2500	127.0	YES	NO	YES	1
750	164	379	4AEF10	406	176	3550	118.0	YES	YES	YES	1
750	165	382	5TUF7	413	179	1760	122.0	YES	YES	YES	4
750	165	382	5TUF7	416	180	2100	133.0	YES	YES	YES	4
750	165	381	5AEF14	388	168	2350	177.0	YES	YES	NO	1
750	165	381	5AEF14	390	169	2350	175.0	YES	YES	YES	1
750	165	381	5THF12	415	180	2950	157.0	YES	NO	YES	1
750	165	381	4AEF12	454	197	3000	115.0	YES	YES	YES	1
750	165	381	5AEF12	410	177	3000	149.0	YES	YES	YES	1
750	165	381	4AEF12	436	189	3300	121.0	YES	YES	YES	1
750	165	381	5AEF12	410	177	3300	145.0	YES	YES	YES	1
750	165	381	4AEF12	430	186	3550	122.0	YES	YES	YES	1
750	166	Min	6TYF16E	R.F.	R.F.	1760	R.F.	YES	YES	YES	4
750	170	393	5TUF7	425	184	1760	126.0	YES	YES	YES	4
750	170	392	5TUF7	427	185	2100	138.0	YES	YES	YES	4
750	170	393	5AEF14	396	171	2350	183.0	YES	YES	NO	1
750	170	393	5AEF14	394	171	2350	182.0	YES	YES	YES	1
750	170	393	4AEF12	456	197	3000	115.0	YES	YES	YES	1
750	170	393	5AEF12	421	182	3000	156.0	YES	YES	YES	1
750	170	393	4AEF12	448	194	3300	125.0	YES	YES	YES	1
750	170	393	5AEF12	422	183	3300	152.0	YES	YES	YES	1
750	170	393	4AEF12	440	190	3550	126.0	YES	YES	YES	1
750	173	400	5AEF14	400	173	2350	190.0	YES	YES	YES	1
750	175	404	5TUF7	434	188	1760	131.0	YES	YES	YES	4
750	175	404	5TUF7	439	190	2100	143.0	YES	YES	YES	4
750	175	404	5AEF14	410	177	2350	192.0	YES	YES	YES	1
750	175	404	5AEF12	431	187	3000	163.0	YES	YES	YES	1
750	175	404	4AEF12	463	200	3300	129.0	YES	YES	YES	1
750	175	404	5AEF12	432	187	3300	158.0	YES	YES	YES	1
750	175	404	4AEF12	452	196	3550	131.0	YES	YES	YES	1
750	178	411	5THF15	470	203	2500	156.0	YES	NO	YES	1
750	179	413	4THF15	490	212	2600	145.0	YES	NO	YES	1
750	180	416	5TUF7	457	198	1760	137.0	YES	YES	YES	4
750	180	416	5TUF7	450	195	2100	148.0	YES	YES	YES	4
750	180	416	5AEF14	420	182	2350	200.0	YES	YES	YES	1
750	180	416	5AEF12	443	192	3000	171.0	YES	YES	YES	1
750	180	416	4AEF12	477	206	3300	133.0	YES	YES	YES	1
750	180	416	5AEF12	444	192	3300	165.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
750	180	416	4AEF12	465	201	3550	135.0	YES	YES	YES	1
750	181	418	5TUTF16B	480	208	1760	103.0	YES	YES	NO	4
750	185	427	5TUTF16B	490	212	1760	105.0	YES	YES	YES	4
750	185	427	5TUF7	462	200	2100	153.0	YES	YES	YES	4
750	185	427	4AEF12	491	213	3300	137.0	YES	YES	YES	1
750	185	427	5AEF12	455	197	3300	171.0	YES	YES	YES	1
750	185	427	4AEF12	477	206	3550	140.0	YES	YES	YES	1
750	186	430	5AEF12	457	198	3000	185.0	YES	YES	YES	1
750	188	434	5TUF13B	531	230	2800	184.3	YES	NO	NO	4
750	188	434	5AEF12	466	202	3300	179.0	YES	YES	YES	1
750	190	439	5TUTF16B	504	218	1760	124.0	YES	YES	YES	4
750	190	Min	6TYF16E	R.F.	R.F.	1900	R.F.	YES	YES	YES	4
750	190	439	5TUF7	474	205	2100	158.0	YES	YES	YES	4
750	190	Min	5TYF16	R.F.	R.F.	2100	R.F.	YES	YES	YES	4
750	190	439	5TUF13B	535	232	2800	186.2	YES	NO	NO	4
750	190	439	4AEF12	506	219	3300	141.0	YES	YES	YES	1
750	190	439	4AEF12	489	212	3550	145.0	YES	YES	YES	1
750	193	446	5THF15	510	221	2600	177.0	YES	NO	YES	1
750	195	450	5TUF7	485	210	2100	163.0	YES	YES	YES	4
750	195	450	5TUF13B	546	236	2800	190.3	YES	NO	NO	4
750	195	450	4AEF12	520	225	3300	145.0	YES	YES	YES	1
750	195	450	5AEF12	478	207	3300	185.0	YES	YES	YES	1
750	195	450	4AEF12	501	217	3550	149.0	YES	YES	YES	1
750	199	460	4TUF11	618	268	2800	155.0	YES	YES	YES	4
750	200	462	5TUTF16B	527	228	1760	134.0	YES	YES	YES	4
750	200	Max	5TYF16	R.F.	R.F.	1900	R.F.	YES	YES	YES	4
750	200	462	5TUF7	497	215	2100	168.0	YES	YES	YES	4
750	200	462	4TUF11	628	272	2800	160.0	YES	YES	YES	4
750	200	462	5TUF13B	557	241	2800	194.7	YES	NO	NO	4
750	200	462	4AEF12	534	231	3300	148.0	YES	YES	YES	1
750	200	462	5AEF12	489	212	3300	192.0	YES	YES	YES	1
750	200	462	4AEF12	514	223	3550	154.0	YES	YES	YES	1
750	205	Max	6TYF16E	R.F.	R.F.	1760	R.F.	YES	YES	YES	4
750	205	473	5TUF7	508	220	2100	173.0	YES	YES	YES	4
750	205	474	4TUF11	638	276	2800	164.0	YES	YES	YES	4
750	205	473	5TUF13B	567	245	2800	198.7	YES	NO	NO	4
750	205	474	4AEF12	550	238	3300	153.0	YES	YES	YES	1
750	205	474	5AEF12	500	216	3300	201.0	YES	YES	YES	1
750	205	474	4AEF12	527	228	3550	159.0	YES	YES	YES	1
750	210	485	5TUTF16B	550	238	1760	143.0	YES	YES	YES	4
750	210	485	5TUF7	520	225	2100	178.0	YES	YES	YES	4
750	210	485	4TUF11	648	281	2800	169.0	YES	YES	YES	4
750	210	485	5TUF13B	578	250	2800	203.2	YES	NO	NO	4
750	210	485	5AEF12	511	221	3300	209.0	YES	YES	YES	1
750	210	485	4AEF12	541	234	3550	163.0	YES	YES	YES	1
750	213	492	4THF13	510	221	2950	227.0	NO	NO	200	1
750	215	496	5TUF7	531	230	2100	184.0	YES	YES	YES	4
750	215	497	4TUF11	659	285	2800	174.0	YES	YES	YES	4
750	215	496	5TUF13B	589	255	2800	207.3	YES	NO	NO	4
750	215	497	5AEF12	522	226	3300	217.0	YES	YES	YES	1
750	215	497	4AEF12	555	240	3550	167.0	YES	YES	YES	1
750	216	499	4THF15	575	249	2800	180.0	YES	NO	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
750	220	508	5TUTF16B	575	249	1760	152.0	YES	YES	YES	4
750	220	508	5TUF7	543	235	2100	189.0	YES	YES	YES	4
750	220	508	4TUF11	669	290	2800	179.0	YES	YES	YES	4
750	220	508	5TUF13B	591	256	2800	208.1	YES	NO	NO	4
750	220	508	5TUF13B	603	261	3000	222.4	YES	NO	NO	4
750	220	508	5AEF12	533	231	3300	225.0	YES	YES	YES	1
750	220	508	4AEF12	569	246	3550	171.0	YES	YES	YES	1
750	225	520	5TUF7	554	240	2100	194.0	YES	YES	YES	4
750	225	520	4TUF11	679	294	2800	183.0	YES	YES	YES	4
750	225	519	5TUF13B	601	260	2800	212.1	YES	NO	NO	4
750	225	519	5TUF13B	611	265	3000	225.8	YES	NO	NO	4
750	225	520	5AEF12	544	235	3300	233.0	YES	YES	YES	1
750	225	520	4AEF12	583	252	3550	175.0	YES	YES	YES	1
750	227	524	5THF15	575	249	2800	219.0	YES	NO	YES	1
750	230	531	5TUTF16B	598	259	1760	161.0	YES	YES	YES	4
750	230	531	5TUF7	566	245	2100	199.0	YES	YES	YES	4
750	230	531	4TUF11	690	299	2800	188.0	YES	YES	YES	4
750	230	531	5TUF13B	612	265	2800	216.5	YES	NO	NO	4
750	230	Min	5TXF12	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
750	230	Min	5TXF12	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
750	230	531	5TUF13B	622	269	3000	230.5	YES	NO	NO	4
750	230	531	5AEF12	555	240	3300	241.0	YES	YES	YES	1
750	230	531	4AEF12	597	258	3550	179.0	YES	YES	YES	1
750	233	538	4THF15	620	268	2900	243.0	YES	NO	YES	1
750	234	541	4TUF11	707	306	3000	191.0	YES	YES	YES	4
750	234	540	5AEF12	562	243	3300	246.0	YES	YES	YES	1
750	235	543	5TUF7	578	250	2100	204.0	YES	YES	YES	4
750	235	Min	6TYF16E	R.F.	R.F.	2100	R.F.	YES	YES	YES	4
750	235	543	4TUF11	700	303	2800	193.0	YES	YES	YES	4
750	235	542	5TUF13B	622	269	2800	220.5	YES	NO	NO	4
750	235	543	4TUF11	707	306	3000	191.0	YES	YES	YES	4
750	235	542	5TUF13B	632	274	3000	223.5	YES	NO	NO	4
750	235	543	4AEF12	611	265	3550	183.0	YES	YES	YES	1
750	237	Max	6TYF16E	R.F.	R.F.	1900	R.F.	YES	YES	YES	4
750	240	554	5TUTF16B	624	270	1760	170.0	YES	YES	YES	4
750	240	554	5TUF7	589	255	2100	209.0	YES	YES	YES	4
750	240	Min	5TYF16	R.F.	R.F.	2300	R.F.	YES	YES	YES	4
750	240	554	4TUF11	710	307	2800	197.0	YES	YES	YES	4
750	240	554	5TUF13B	634	274	2800	224.8	YES	NO	NO	4
750	240	554	4TUF11	718	311	3000	196.0	YES	YES	YES	4
750	240	554	5TUF13B	643	278	3000	228.2	YES	NO	NO	4
750	240	554	4AEF12	625	271	3550	187.0	YES	YES	YES	1
750	243	561	4THF15	640	277	2950	216.0	YES	NO	YES	1
750	245	566	5TUF7	600	260	2100	214.0	YES	YES	YES	4
750	245	565	5TUF13B	644	279	2800	228.8	YES	NO	NO	4
750	245	566	5THF15	620	268	2900	246.0	YES	NO	YES	1
750	245	566	4TUF11	729	316	3000	201.0	YES	YES	YES	4
750	245	565	5TUF13B	653	283	3000	230.0	YES	NO	NO	4
750	245	566	4AEF12	636	275	3550	190.0	YES	YES	YES	1
750	250	578	5TUTF16B	647	280	1760	178.0	YES	YES	YES	4
750	250	578	5TUF7	612	265	2100	219.0	YES	YES	YES	4
750	250	Max	5TYF16	R.F.	R.F.	2100	R.F.	YES	YES	YES	4

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
750	250	Min	5TYF16	R.F.	R.F.	2350	R.F.	YES	YES	YES	4
750	250	577	5TUF13B	655	284	2800	230.0	YES	NO	NO	4
750	250	578	4TUF11	740	320	3000	206.0	YES	YES	YES	4
750	250	577	5TUF13B	664	287	3000	237.2	YES	NO	NO	4
750	252	582	4THF15	660	286	3000	227.5	YES	NO	YES	1
750	255	589	5TUF7	624	270	2100	224.0	YES	YES	YES	4
750	255	588	5TUF13B	665	288	2800	237.2	YES	NO	NO	4
750	255	589	5THF15	640	277	2950	257.0	YES	NO	YES	1
750	255	589	4TUF11	751	325	3000	211.0	YES	YES	YES	4
750	255	588	5TUF13B	674	292	3000	241.4	YES	NO	NO	4
750	260	600	5TUTF16B	670	290	1760	188.0	YES	YES	YES	4
750	260	600	5TUF7	635	275	2100	230.0	YES	YES	YES	4
750	260	600	5TUF13B	676	293	2800	241.6	YES	NO	NO	4
750	260	601	4TUF11	762	330	3000	217.0	YES	YES	YES	4
750	260	600	5TUF13B	686	297	3000	246.1	YES	NO	NO	4
750	264	610	5THF15	660	286	3000	273.0	YES	NO	YES	1
750	265	612	5TUF7	647	280	2100	235.0	YES	YES	YES	4
750	265	611	5TUF13B	686	297	2800	245.6	YES	NO	NO	4
750	265	612	4TUF11	772	334	3000	222.0	YES	YES	YES	4
750	265	611	5TUF13B	696	301	3000	250.4	YES	NO	NO	4
750	268	Min	6TYF13E	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
750	268	Min	6TYF13E	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
750	270	624	5TUTF16B	693	300	1760	197.0	YES	YES	YES	4
750	270	624	5TUF13B	698	302	2800	250.4	YES	NO	NO	4
750	270	624	4TUF11	783	339	3000	227.0	YES	YES	YES	4
750	270	624	5TUF13B	708	306	3000	255.5	YES	NO	NO	4
750	275	635	5TUF13B	709	307	2800	254.4	YES	NO	NO	4
750	275	635	4TUF11	794	344	3000	232.0	YES	YES	YES	4
750	275	635	5TUF13B	718	311	3000	259.8	YES	NO	NO	4
750	276	Min	6TYF13F	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
750	276	Min	6TYF13F	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
750	280	647	5TUTF16B	721	312	1760	206.0	YES	YES	YES	4
750	280	647	5TUF13B	721	312	2800	259.0	YES	NO	NO	4
750	280	647	4TUF11	805	348	3000	237.0	YES	YES	YES	4
750	280	647	5TUF13B	729	316	3000	264.5	YES	NO	NO	4
750	284	Min	6TYF16E	R.F.	R.F.	2300	R.F.	YES	YES	YES	4
750	285	658	5TUF13B	732	317	2800	263.5	YES	NO	NO	4
750	285	658	4TUF11	816	353	3000	242.0	YES	YES	YES	4
750	285	658	5TUF13B	739	320	3000	268.8	YES	NO	NO	4
750	286	661	4TUF11	816	353	3000	242.0	YES	YES	YES	4
750	290	670	5TUTF16B	739	320	1760	223.0	YES	YES	YES	4
750	290	670	5TUF13B	744	322	2800	268.3	YES	NO	NO	4
750	290	670	5TUF13B	751	325	3000	273.5	YES	NO	NO	4
750	290	670	5TUF13B	766	332	3300	298.0	YES	NO	NO	4
750	294	Max	6TYF16E	R.F.	R.F.	2100	R.F.	YES	YES	YES	4
750	295	681	5TUF13B	755	327	2800	272.7	YES	NO	NO	4
750	295	681	5TUF13B	761	329	3000	277.8	YES	NO	NO	4
750	295	681	4TUF11	860	372	3300	253.0	YES	YES	YES	4
750	295	681	5TUF13B	776	336	3300	302.7	YES	NO	NO	4
750	296	Min	6TYF16E	R.F.	R.F.	2350	R.F.	YES	YES	YES	4
750	300	693	5TUTF16B	767	332	1760	235.0	YES	YES	YES	4
750	300	693	5TUF13B	767	332	2800	277.4	YES	NO	NO	4

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
750	300	Max	5TXF12	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
750	300	Max	5TXF12	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
750	300	693	5TUF13B	772	334	3000	282.5	YES	NO	NO	4
750	300	693	4TUF11	872	377	3300	259.0	YES	YES	YES	4
750	300	693	5TUF13B	787	341	3300	307.9	YES	NO	NO	4
750	305	704	5TUF13B	778	337	2800	281.8	YES	NO	NO	4
750	305	704	5TUF13B	782	339	3000	286.8	YES	NO	NO	4
750	305	705	4TUF11	883	382	3300	266.0	YES	YES	YES	4
750	305	704	5TUF13B	797	345	3300	312.6	YES	NO	NO	4
750	310	716	5TUTF16B	755	327	1760	251.0	YES	YES	YES	4
750	310	716	5TUF13B	791	342	2800	286.6	YES	NO	NO	4
750	310	716	5TUF13B	793	343	3000	291.5	YES	NO	NO	4
750	310	716	4TUF11	895	387	3300	272.0	YES	YES	YES	4
750	310	716	5TUF13B	808	350	3300	317.8	YES	NO	NO	4
750	312	Max	5TYF16	R.F.	R.F.	2300	R.F.	YES	YES	YES	4
750	315	727	5TUF13B	802	347	2800	291.0	YES	NO	NO	4
750	315	727	5TUF13B	804	348	3000	295.8	YES	NO	NO	4
750	315	728	4TUF11	907	393	3300	278.0	YES	YES	YES	4
750	315	727	5TUF13B	819	355	3300	322.5	YES	NO	NO	4
750	320	739	5TUTF16B	779	337	1760	267.0	YES	YES	NO	4
750	320	739	5TUF13B	814	352	2800	295.7	YES	NO	NO	4
750	320	739	5TUF13B	818	354	3000	301.8	YES	NO	NO	4
750	320	739	4TUF11	919	398	3300	285.0	YES	YES	YES	4
750	320	739	5TUF13B	830	359	3300	327.7	YES	NO	NO	4
750	325	750	5TUF13B	825	357	2800	300.1	YES	NO	NO	4
750	325	750	5TUF13B	826	358	3000	305.1	YES	NO	NO	4
750	325	751	4TUF11	930	403	3300	291.0	YES	YES	YES	4
750	325	750	5TUF13B	840	364	3300	332.4	YES	NO	NO	4
750	328	Max	5TYF16	R.F.	R.F.	2350	R.F.	YES	YES	YES	4
750	330	762	5TUTF16B	803	348	1760	284.0	YES	YES	NO	4
750	330	762	5TUF13B	837	362	2800	304.8	YES	NO	NO	4
750	330	762	5TUF13B	838	363	3000	310.2	YES	NO	NO	4
750	330	762	4TUF11	942	408	3300	298.0	YES	YES	YES	4
750	330	762	5TUF13B	851	368	3300	337.6	YES	NO	NO	4
750	335	773	5TUF13B	848	367	2800	309.2	YES	NO	NO	4
750	335	773	5TUF13B	849	368	3000	314.9	YES	NO	NO	4
750	335	774	4TUF11	954	413	3300	304.0	YES	YES	YES	4
750	335	773	5TUF13B	861	373	3300	342.3	YES	NO	NO	4
750	340	785	5TUTF16B	827	358	1760	301.0	YES	YES	NO	4
750	340	785	5TUF13B	860	372	2800	313.9	YES	NO	NO	4
750	340	785	5TUF13B	861	373	3000	320.0	YES	NO	NO	4
750	340	785	4TUF11	966	418	3300	310.0	YES	YES	YES	4
750	340	785	5TUF13B	873	378	3300	345.0	YES	NO	NO	4
750	345	796	5TUF13B	871	377	2800	318.3	YES	NO	NO	4
750	345	796	5TUF13B	872	377	3000	324.7	YES	NO	NO	4
750	345	797	4TUF11	977	423	3300	317.0	YES	YES	YES	4
750	345	796	5TUF13B	883	382	3300	352.2	YES	NO	NO	4
750	350	809	5TUTF16B	851	368	1760	320.0	YES	YES	NO	4
750	350	808	5TUF13B	883	382	2800	323.0	YES	NO	NO	4
750	350	808	5TUF13B	884	383	3000	329.8	YES	NO	NO	4
750	350	809	4TUF11	989	428	3300	323.0	YES	YES	YES	4
750	350	808	5TUF13B	894	387	3300	357.4	YES	NO	NO	4

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
750	352	813	4TUF11	989	428	3300	323.0	YES	YES	YES	4
750	353	Max	6TYF16E	R.F.	R.F.	2300	R.F.	YES	YES	YES	4
750	355	820	5TUF13B	895	387	2800	327.7	YES	NO	NO	4
750	355	820	5TUF13B	896	388	3000	334.9	YES	NO	NO	4
750	355	820	5TUF13B	905	392	3300	362.6	YES	NO	NO	4
750	360	832	5TUTF16B	875	379	1760	337.0	YES	YES	NO	4
750	360	832	5TUF13B	907	393	2800	332.5	YES	NO	NO	4
750	360	Max	6TYF13E	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
750	360	Max	6TYF13E	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
750	360	832	5TUF13B	908	393	3000	340.0	YES	NO	NO	4
750	360	832	5TUF13B	916	397	3300	367.8	YES	NO	NO	4
750	364	841	5TUF13B	916	397	2800	336.0	YES	NO	NO	4
750	365	843	5TUF13B	920	398	3000	344.7	YES	NO	NO	4
750	365	843	5TUF13B	927	401	3300	372.6	YES	NO	NO	4
750	370	855	5TUTF16B	899	389	1760	355.0	YES	YES	NO	4
750	370	Max	6TYF16E	R.F.	R.F.	2350	R.F.	YES	YES	YES	4
750	370	Max	6TYF13F	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
750	370	Max	6TYF13F	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
750	370	855	5TUF13B	932	403	3000	349.7	YES	NO	NO	4
750	370	855	5TUF13B	938	406	3300	377.8	YES	NO	NO	4
750	375	866	5TUF13B	943	408	3000	354.4	YES	NO	NO	4
750	375	866	5TUF13B	948	410	3300	382.5	YES	NO	NO	4
750	380	878	5TUF13B	955	413	3000	359.5	YES	NO	NO	4
750	380	878	5TUF13B	959	415	3300	387.7	YES	NO	NO	4
750	381	880	5TUTF16B	923	400	1760	372.0	YES	YES	NO	4
750	385	889	5TUF13B	966	418	3000	364.1	YES	NO	NO	4
750	385	889	5TUF13B	970	420	3300	392.5	YES	NO	NO	4
750	390	901	5TUF13B	978	423	3000	369.2	YES	NO	NO	4
750	390	901	5TUF13B	981	425	3300	397.7	YES	NO	NO	4
750	395	912	5TUF13B	989	428	3000	373.8	YES	NO	NO	4
750	395	912	5TUF13B	989	428	3300	401.6	YES	NO	NO	4
750	400	924	5TUF13B	1001	433	3000	378.9	YES	NO	NO	4
750	400	924	5TUF13B	1003	434	3300	408.2	YES	NO	NO	4
750	405	935	5TUF13B	1012	438	3000	383.5	YES	NO	NO	4
750	405	935	5TUF13B	1015	439	3300	413.3	YES	NO	NO	4
750	410	947	5TUF13B	1024	443	3000	388.5	YES	NO	NO	4
750	410	947	5TUF13B	1027	445	3300	418.9	YES	NO	NO	4
750	415	958	5TUF13B	1035	448	3000	393.2	YES	NO	NO	4
750	415	958	5TUF13B	1038	449	3300	424.0	YES	NO	NO	4
750	420	970	5TUF13B	1047	453	3000	398.2	YES	NO	NO	4
750	420	970	5TUF13B	1050	455	3300	429.6	YES	NO	NO	4
750	425	981	5TUF13B	1061	459	3300	434.7	YES	NO	NO	4
750	430	993	5TUF13B	1073	465	3300	440.3	YES	NO	NO	4
750	435	1004	5TUF13B	1084	469	3300	445.4	YES	NO	NO	4
750	439	1014	8TUTF15	1067	462	1760	361.6	YES	NO	NO	4
750	440	1016	5TUF13B	1096	474	3300	450.9	YES	NO	NO	4
750	445	1028	8TUTF15	1079	467	1760	365.0	YES	NO	NO	4
750	450	1040	8TUTF15	1091	473	1760	368.7	YES	NO	NO	4
750	455	1051	8TUTF15	1103	478	1760	372.4	YES	NO	NO	4
750	460	1063	8TUTF15	1115	483	1760	376.1	YES	NO	NO	4
750	465	1074	8TUTF15	1127	488	1760	379.7	YES	NO	NO	4
750	470	1086	8TUTF15	1140	493	1760	383.4	YES	NO	NO	4

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
750	475	1097	8TUTF15	1152	499	1760	387.1	YES	NO	NO	4
750	480	1109	8TUTF15	1164	504	1760	390.7	YES	NO	NO	4
750	485	1120	8TUTF15	1176	509	1760	394.3	YES	NO	NO	4
750	490	1132	8TUTF15	1188	514	1760	398.0	YES	NO	NO	4
1000	45	104	6AEF14	120	52	1760	42.0	YES	YES	YES	1
1000	50	116	6AEF14	133	58	1760	46.0	YES	YES	YES	1
1000	55	127	6AEF14	146	63	1760	51.0	YES	YES	YES	1
1000	60	139	6AEF14	158	68	1760	56.0	YES	YES	YES	1
1000	60	139	5AEF8N	181	78	3550	53.0	YES	YES	YES	1
1000	65	150	6AEF14	171	74	1760	61.0	YES	YES	YES	1
1000	65	150	6AEF14G	156	68	2100	72.0	YES	YES	YES	1
1000	65	150	5AEF8N	189	82	3550	56.0	YES	YES	YES	1
1000	68	157	6AEF16G	173	75	1760	54.2	YES	YES	YES	1
1000	70	162	6AEF14	182	79	1760	66.0	YES	YES	YES	1
1000	70	162	6AEF16G	177	77	1760	57.3	YES	YES	YES	1
1000	70	162	6AEF14G	166	72	2100	79.0	YES	YES	YES	1
1000	70	162	6AEF10	187	81	2800	67.0	YES	YES	YES	1
1000	70	162	5AEF8N	199	86	3550	59.0	YES	YES	YES	1
1000	75	173	6AEF14	193	84	1760	74.0	YES	YES	YES	1
1000	75	173	6AEF16N	200	87	1760	65.0	YES	YES	YES	1
1000	75	173	6AEF14G	177	77	2100	88.0	YES	YES	YES	1
1000	75	173	6AEF10	199	86	2800	74.0	YES	YES	YES	1
1000	75	173	5AEF11	206	89	3000	67.0	NO	YES	YES	1
1000	75	173	5AEF8N	211	91	3550	63.0	YES	YES	YES	1
1000	76	176	5AEF11	210	91	3000	69.0	YES	YES	YES	1
1000	79	182	6UNF12	200	87	2600	75.0	YES	NO	YES	3
1000	80	185	6AEF14	205	89	1760	81.0	YES	YES	YES	1
1000	80	185	6AEF16N	212	92	1760	70.0	YES	YES	YES	1
1000	80	185	6AEF14G	188	81	2100	95.0	YES	YES	YES	1
1000	80	185	6AEF10	211	91	2800	81.0	YES	YES	YES	1
1000	80	185	5AEF11	214	93	3000	70.0	YES	YES	YES	1
1000	80	185	5AEF8N	223	97	3550	67.0	YES	YES	YES	1
1000	85	196	6AEF14	211	91	1760	85.0	YES	YES	YES	1
1000	85	196	6AEF16G	189	82	1760	61.6	YES	YES	YES	1
1000	85	196	6AEF16N	223	97	1760	76.0	YES	YES	YES	1
1000	85	196	6AEF14G	200	87	2100	104.0	YES	YES	YES	1
1000	85	196	6AEF10	223	97	2800	89.0	YES	YES	YES	1
1000	85	196	5AEF11	236	102	3000	73.0	YES	YES	YES	1
1000	85	196	6AEF10	221	96	3000	86.0	YES	YES	YES	1
1000	85	196	5AEF11G	235	102	3300	76.0	YES	YES	YES	1
1000	85	196	5AEF8N	236	102	3550	71.0	YES	YES	YES	1
1000	89	206	5THF12	240	104	2950	80.0	YES	NO	YES	1
1000	90	208	6AEF16G	203	88	1760	64.2	YES	YES	YES	1
1000	90	208	6AEF16N	234	101	1760	81.0	YES	YES	YES	1
1000	90	208	6AEF14G	212	92	2100	114.0	YES	YES	YES	1
1000	90	208	6AEF10	235	102	2800	96.0	YES	YES	YES	1
1000	90	208	6THF13	235	102	2800	110.0	YES	NO	YES	1
1000	90	208	5AEF11	247	107	3000	77.0	YES	YES	YES	1
1000	90	208	6AEF10	233	101	3000	94.0	YES	YES	YES	1
1000	90	208	5AEF11G	249	108	3300	82.0	YES	YES	YES	1
1000	90	208	5AEF8	265	115	3550	77.0	YES	YES	NO	1
1000	90	208	5AEF8N	248	107	3550	75.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
1000	94	217	6AEF16G	215	93	1760	69.2	YES	YES	YES	1
1000	95	219	6AEF16G	227	98	1760	75.4	YES	YES	YES	1
1000	95	219	6AEF16N	244	106	1760	87.0	YES	YES	YES	1
1000	95	219	6AEF14G	223	97	2100	123.0	YES	YES	YES	1
1000	95	219	5AEF14	237	103	2350	97.0	YES	YES	NO	1
1000	95	219	6AEF10	247	107	2800	104.0	YES	YES	YES	1
1000	95	219	6UNF12	230	100	2800	100.0	YES	NO	YES	3
1000	95	219	5AEF11	258	112	3000	82.0	YES	YES	YES	1
1000	95	219	6AEF10	245	106	3000	102.0	YES	YES	YES	1
1000	95	219	5AEF11	257	111	3300	85.0	YES	YES	YES	1
1000	95	219	5AEF11G	262	113	3300	84.0	YES	YES	YES	1
1000	95	219	5AEF8	276	119	3550	82.0	YES	YES	YES	1
1000	95	219	5AEF8N	261	113	3550	79.0	YES	YES	YES	1
1000	97	224	6THF13	260	113	2950	125.0	YES	NO	YES	1
1000	100	231	6AEF16N	258	112	1760	93.0	YES	YES	YES	1
1000	100	231	6AEF14G	235	102	2100	134.0	YES	YES	YES	1
1000	100	231	5AEF14	249	108	2350	103.0	YES	YES	NO	1
1000	100	231	5AEF14	248	107	2400	103.0	YES	YES	NO	1
1000	100	231	6AEF10	259	112	2800	111.0	YES	YES	YES	1
1000	100	231	5THF11G	290	126	2950	80.0	YES	NO	YES	1
1000	100	231	5AEF11	269	116	3000	86.0	YES	YES	YES	1
1000	100	231	6AEF10	257	111	3000	110.0	YES	YES	YES	1
1000	100	231	5AEF11	268	116	3300	90.0	YES	YES	YES	1
1000	100	231	5AEF11G	273	118	3300	89.0	YES	YES	YES	1
1000	100	231	5AEF11G	274	119	3550	93.0	YES	YES	YES	1
1000	100	231	5AEF8	287	124	3550	87.0	YES	YES	YES	1
1000	100	231	5AEF8N	275	119	3550	83.0	YES	YES	YES	1
1000	101	233	6THF19	255	110	1900	125.0	YES	NO	YES	1
1000	102	236	6AEF16G	238	103	1760	81.2	YES	YES	YES	1
1000	105	243	6AEF16N	258	112	1760	93.0	YES	YES	YES	1
1000	105	243	6AEF14G	245	106	2100	143.0	YES	YES	YES	1
1000	105	243	5AEF14	261	113	2350	108.0	YES	YES	NO	1
1000	105	243	5AEF14	260	113	2400	109.0	YES	YES	NO	1
1000	105	243	6AEF10	270	117	2800	113.0	YES	YES	YES	1
1000	105	243	5AEF11	281	122	3000	91.0	YES	YES	YES	1
1000	105	243	6AEF10	270	117	3000	118.0	YES	YES	YES	1
1000	105	243	5AEF11	279	121	3300	95.0	YES	YES	YES	1
1000	105	243	5AEF11G	285	123	3300	93.0	YES	YES	YES	1
1000	105	243	6AEF10	266	115	3300	114.0	YES	YES	YES	1
1000	105	243	5AEF11G	285	123	3550	97.0	YES	YES	YES	1
1000	105	243	5AEF8	294	127	3550	90.0	YES	YES	NO	1
1000	105	243	5AEF8N	285	123	3550	86.0	YES	YES	YES	1
1000	105	243	6AEF10	267	116	3550	117.0	YES	YES	YES	1
1000	106	245	6UNF12	260	113	2950	120.0	YES	NO	YES	3
1000	108	254	6AEF16N	282	122	1760	100.0	YES	YES	YES	1
1000	110	254	6AEF16G	250	108	1760	85.5	YES	YES	YES	1
1000	110	254	6AEF14G	257	111	2100	153.0	YES	YES	YES	1
1000	110	254	5AEF14	273	118	2350	114.0	YES	YES	NO	1
1000	110	254	5AEF14	271	117	2400	115.0	YES	YES	NO	1
1000	110	254	5AEF11	293	127	3000	96.0	YES	YES	YES	1
1000	110	254	6AEF10	282	122	3000	127.0	YES	YES	YES	1
1000	110	254	6UNF12	268	116	3000	125.0	YES	NO	YES	3

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
1000	110	254	5AEF11	291	126	3300	99.0	YES	YES	YES	1
1000	110	254	5AEF11G	296	128	3300	97.0	YES	YES	YES	1
1000	110	254	6AEF10	278	120	3300	122.0	YES	YES	YES	1
1000	110	254	5AEF11G	296	128	3550	102.0	YES	YES	YES	1
1000	110	254	6AEF10	277	120	3550	122.0	YES	YES	YES	1
1000	115	266	6AEF16G	262	114	1760	88.3	YES	YES	YES	1
1000	115	266	6TUF10B	333	144	1760	110.0	YES	YES	NO	4
1000	115	266	6AEF14G	269	116	2100	163.0	YES	YES	YES	1
1000	115	266	5AEF14	285	123	2350	118.0	YES	YES	NO	1
1000	115	266	5AEF14	283	123	2400	120.0	YES	YES	NO	1
1000	115	266	5AEF11	305	132	3000	102.0	YES	YES	YES	1
1000	115	266	6AEF10	294	127	3000	135.0	YES	YES	YES	1
1000	115	266	5AEF11	302	131	3300	104.0	YES	YES	YES	1
1000	115	266	5AEF11G	309	134	3300	102.0	YES	YES	YES	1
1000	115	266	6AEF10	290	126	3300	131.0	YES	YES	YES	1
1000	115	266	5AEF11G	307	133	3550	106.0	YES	YES	YES	1
1000	115	266	6AEF10	288	125	3550	128.0	YES	YES	YES	1
1000	119	276	6AEF18	277	120	1760	164.1	YES	YES	YES	1
1000	120	277	6AEF18	279	121	1760	165.3	YES	YES	YES	1
1000	120	277	6TUF10B	343	148	1760	115.0	YES	YES	NO	4
1000	120	277	6AEF14G	280	121	2100	173.0	YES	YES	YES	1
1000	120	277	5AEF14	297	129	2350	122.0	YES	YES	NO	1
1000	120	277	5AEF14	295	128	2400	125.0	YES	YES	NO	1
1000	120	277	5AEF11	317	137	3000	108.0	YES	YES	YES	1
1000	120	277	6AEF10	305	132	3000	142.0	YES	YES	YES	1
1000	120	277	5AEF11	313	135	3300	109.0	YES	YES	YES	1
1000	120	277	5AEF11G	322	139	3300	106.0	YES	YES	YES	1
1000	120	277	6AEF10	303	131	3300	140.0	YES	YES	YES	1
1000	120	277	5AEF11G	317	137	3550	111.0	YES	YES	YES	1
1000	120	277	6AEF10	299	129	3550	134.0	YES	YES	YES	1
1000	123	284	6AEF16G	294	127	1760	132.6	YES	YES	YES	1
1000	123	284	5THF15	360	156	2900	130.0	YES	NO	YES	1
1000	124	286	6AEF16G	274	119	1760	93.1	YES	YES	YES	1
1000	125	289	6AEF18	291	126	1760	172.7	YES	YES	YES	1
1000	125	289	6TUF10B	353	153	1760	120.0	YES	YES	NO	4
1000	125	289	6AEF14G	292	126	2100	184.0	YES	YES	YES	1
1000	125	289	5AEF14	309	134	2350	127.0	YES	YES	NO	1
1000	125	289	5AEF14	307	133	2400	129.0	YES	YES	NO	1
1000	125	289	5AEF11	329	142	3000	114.0	YES	YES	YES	1
1000	125	289	5AEF11	324	140	3300	113.0	YES	YES	YES	1
1000	125	289	5AEF11G	334	145	3300	110.0	YES	YES	YES	1
1000	125	289	6AEF10	315	136	3300	150.0	YES	YES	YES	1
1000	125	289	5AEF11G	328	142	3550	115.0	YES	YES	YES	1
1000	125	289	6AEF10	311	135	3550	144.0	YES	YES	YES	1
1000	126	291	6THF19	315	136	2100	165.0	YES	NO	YES	1
1000	128	296	5THF15	380	165	2950	130.0	YES	NO	YES	1
1000	130	300	6AEF18	304	132	1760	181.5	YES	YES	YES	1
1000	130	300	6TUF10B	363	157	1760	125.0	YES	YES	NO	4
1000	130	300	6AEF14G	303	131	2100	194.0	YES	YES	YES	1
1000	130	300	5AEF14	305	132	2350	131.0	YES	YES	NO	1
1000	130	300	5AEF14	319	138	2400	134.0	YES	YES	NO	1
1000	130	300	5AEF11	350	152	3000	117.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
1000	130	300	5AEF11	334	145	3300	117.0	YES	YES	YES	1
1000	130	300	5AEF11G	346	150	3300	115.0	YES	YES	YES	1
1000	130	300	6AEF10	328	142	3300	159.0	YES	YES	YES	1
1000	130	300	5AEF11G	340	147	3550	120.0	YES	YES	YES	1
1000	130	300	6AEF10	323	140	3550	154.0	YES	YES	YES	1
1000	131	303	6AEF16G	284	123	1760	103.7	YES	YES	YES	1
1000	131	303	5THF11G	368	159	2950	118.0	YES	NO	YES	1
1000	132	305	6AEF14G	303	131	2100	194.0	YES	YES	YES	1
1000	132	305	5THF15	290	126	2600	95.0	YES	NO	YES	1
1000	132	305	5AEF12	365	158	3000	123.0	YES	YES	YES	1
1000	134	310	5THF15	390	169	3000	150.0	YES	NO	YES	1
1000	135	312	6AEF16G	291	126	1760	121.3	YES	YES	YES	1
1000	135	312	6AEF18	317	137	1760	192.2	YES	YES	YES	1
1000	135	312	6TUF10B	372	161	1760	131.0	YES	YES	NO	4
1000	135	312	5AEF14	332	144	2350	137.0	YES	YES	NO	1
1000	135	312	5AEF14	331	143	2400	138.0	YES	YES	NO	1
1000	135	312	5AEF11	343	148	3000	120.0	YES	YES	YES	1
1000	135	312	5AEF12	372	161	3000	127.0	YES	YES	YES	1
1000	135	312	5AEF11	347	150	3300	125.0	YES	YES	YES	1
1000	135	312	5AEF11G	359	155	3300	119.0	YES	YES	YES	1
1000	135	312	6AEF10	341	148	3300	168.0	YES	YES	YES	1
1000	135	312	5AEF11G	352	152	3550	124.0	YES	YES	YES	1
1000	135	312	6AEF10	336	145	3550	164.0	YES	YES	YES	1
1000	136	314	6UNF12	325	141	2800	172.0	YES	NO	YES	3
1000	139	321	6THF19	340	147	2200	200.0	YES	NO	YES	1
1000	140	323	6AEF18	330	143	1760	202.0	YES	YES	YES	1
1000	140	323	6TUF10B	381	165	1760	136.0	YES	YES	NO	4
1000	140	323	5AEF14	342	148	2350	145.0	YES	YES	NO	1
1000	140	323	5AEF14	342	148	2400	144.0	YES	YES	NO	1
1000	140	323	5THF15	640	277	2950	257.0	YES	NO	YES	1
1000	140	323	5AEF12	382	165	3000	133.0	YES	YES	YES	1
1000	140	323	5AEF11	359	155	3300	131.0	YES	YES	YES	1
1000	140	323	5AEF11G	370	160	3300	124.0	YES	YES	YES	1
1000	140	323	6AEF10	353	153	3300	177.0	YES	YES	YES	1
1000	140	323	5AEF11G	365	158	3550	129.0	YES	YES	YES	1
1000	140	323	6AEF10	349	151	3550	174.0	YES	YES	YES	1
1000	145	335	6AEF18	337	146	1760	212.0	YES	YES	YES	1
1000	145	335	6TUF10B	390	169	1760	141.0	YES	YES	NO	4
1000	145	335	5AEF14	353	153	2350	153.0	YES	YES	NO	1
1000	145	335	5AEF14	353	153	2400	151.0	YES	YES	NO	1
1000	145	335	6UNF12	345	149	2600	199.0	YES	NO	YES	3
1000	145	335	5AEF12	395	171	3000	140.0	YES	YES	YES	1
1000	145	335	5AEF11	371	161	3300	138.0	YES	YES	YES	1
1000	145	335	5AEF11G	381	165	3300	130.0	YES	YES	YES	1
1000	145	335	5AEF12	397	172	3300	137.0	YES	YES	YES	1
1000	145	335	6AEF10	366	158	3300	187.0	YES	YES	YES	1
1000	145	335	5AEF11G	377	163	3550	134.0	YES	YES	YES	1
1000	145	335	6AEF10	361	156	3550	184.0	YES	YES	YES	1
1000	150	347	6TUF10B	397	172	1760	146.0	YES	YES	NO	4
1000	150	347	5AEF14	364	158	2350	160.0	YES	YES	NO	1
1000	150	347	5AEF14	364	158	2400	159.0	YES	YES	NO	1
1000	150	347	5AEF12	404	175	3000	145.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
1000	150	347	5AEF11	384	166	3300	144.0	YES	YES	YES	1
1000	150	347	5AEF11G	392	170	3300	136.0	YES	YES	YES	1
1000	150	347	5AEF12	407	176	3300	142.0	YES	YES	YES	1
1000	150	347	5AEF11G	389	168	3550	138.0	YES	YES	YES	1
1000	150	347	6AEF10	374	162	3550	194.0	YES	YES	YES	1
1000	152	351	6THF19	375	162	2300	215.0	YES	NO	YES	1
1000	152	351	6UNF12	360	156	2950	202.0	YES	NO	YES	3
1000	155	358	6TUF10B	407	176	1760	151.0	YES	YES	NO	4
1000	155	Min	6TYF16E	R.F.	R.F.	1760	R.F.	YES	YES	YES	4
1000	155	Min	6TYF16E	R.F.	R.F.	2100	R.F.	YES	YES	YES	4
1000	155	358	5AEF14	375	162	2350	168.0	YES	YES	YES	1
1000	155	358	5AEF14	375	162	2400	167.0	YES	YES	NO	1
1000	155	358	5AEF12	415	180	3000	153.0	YES	YES	YES	1
1000	155	358	5AEF11	396	171	3300	151.0	YES	YES	YES	1
1000	155	358	5AEF11G	396	171	3300	149.0	YES	YES	YES	1
1000	155	358	5AEF12	418	181	3300	149.0	YES	YES	YES	1
1000	155	358	5AEF11G	401	174	3550	143.0	YES	YES	YES	1
1000	155	358	6AEF10	387	168	3550	204.0	YES	YES	YES	1
1000	157	363	6THF13	420	182	2800	196.0	YES	NO	YES	1
1000	157	363	6UNF12	375	162	3000	212.0	YES	NO	YES	3
1000	159	367	5THF15	340	147	2800	115.0	YES	NO	YES	1
1000	159	367	5THF12	415	180	2950	157.0	YES	NO	YES	1
1000	160	370	6TUF10B	416	180	1760	156.0	YES	YES	NO	4
1000	160	370	5AEF14	390	169	2350	175.0	YES	YES	YES	1
1000	160	370	6THF19	390	169	2350	225.0	YES	NO	YES	1
1000	160	370	5AEF14	386	167	2400	175.0	YES	YES	NO	1
1000	160	370	5AEF12	426	184	3000	160.0	YES	YES	YES	1
1000	160	370	5AEF11	410	177	3300	157.0	YES	YES	YES	1
1000	160	370	5AEF11G	402	174	3300	153.0	YES	YES	YES	1
1000	160	370	5AEF12	429	186	3300	155.0	YES	YES	YES	1
1000	160	370	5AEF11G	415	180	3550	148.0	YES	YES	YES	1
1000	160	370	6AEF10	400	173	3550	214.0	YES	YES	YES	1
1000	165	381	6TUF10B	425	184	1760	161.0	YES	YES	NO	4
1000	165	381	5AEF14	400	173	2350	189.0	YES	YES	YES	1
1000	165	381	5AEF14	396	171	2400	183.0	YES	YES	YES	1
1000	165	381	5AEF12	436	189	3000	167.0	YES	YES	YES	1
1000	165	381	5AEF11	416	180	3300	158.0	YES	YES	YES	1
1000	165	381	5AEF11G	408	177	3300	156.0	YES	YES	YES	1
1000	165	381	5AEF12	439	190	3300	162.0	YES	YES	YES	1
1000	165	381	5AEF11G	425	184	3550	153.0	YES	YES	YES	1
1000	165	381	6AEF10	413	179	3550	224.0	YES	YES	YES	1
1000	170	393	6TUF10B	434	188	1760	166.0	YES	YES	NO	4
1000	170	393	5AEF14	410	177	2400	195.0	YES	YES	YES	1
1000	170	393	5AEF12	448	194	3000	174.0	YES	YES	YES	1
1000	170	393	5AEF12	450	195	3300	168.0	YES	YES	YES	1
1000	170	393	5AEF11G	436	189	3550	159.0	YES	YES	YES	1
1000	171	395	6THF19	425	184	1900	234.5	YES	NO	YES	1
1000	171	395	6AEF18	393	170	2100	277.9	YES	YES	YES	1
1000	171	395	6THF13	460	199	2950	223.0	YES	NO	YES	1
1000	175	404	6TUF10B	444	192	1760	171.0	YES	YES	NO	4
1000	175	405	6AEF18	404	175	2100	285.3	YES	YES	YES	1
1000	175	404	5AEF14	417	181	2400	201.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
1000	175	404	5AEF12	458	198	3000	181.0	YES	YES	YES	1
1000	175	404	5AEF12	461	200	3300	175.0	YES	YES	YES	1
1000	175	404	5AEF11G	447	194	3550	166.0	YES	YES	YES	1
1000	175	404	5AEF12	465	201	3550	173.0	YES	YES	YES	1
1000	180	416	6TUF10B	453	196	1760	177.0	YES	YES	NO	4
1000	180	416	6AEF18	416	180	2100	293.5	YES	YES	YES	1
1000	180	416	5AEF12	472	204	3300	181.0	YES	YES	YES	1
1000	180	416	5AEF11G	459	199	3550	172.0	YES	YES	YES	1
1000	180	416	5AEF12	475	206	3550	180.0	YES	YES	YES	1
1000	181	Min	6TYF16E	R.F.	R.F.	1900	R.F.	YES	YES	YES	4
1000	181	418	5THF15	510	221	2600	177.0	YES	NO	YES	1
1000	181	418	5AEF12	464	201	3000	185.0	YES	YES	YES	1
1000	185	427	6TUF10B	462	200	1760	184.0	YES	YES	NO	4
1000	185	427	6AEF18	428	185	2100	303.8	YES	YES	YES	1
1000	185	427	5AEF12	483	209	3300	188.0	YES	YES	YES	1
1000	185	427	5AEF12	484	210	3550	186.0	YES	YES	YES	1
1000	190	439	6TUF10B	471	204	1760	190.0	YES	YES	NO	4
1000	190	439	6AEF18	444	192	2100	316.8	YES	YES	YES	1
1000	190	439	5AEF12	494	214	3300	196.0	YES	YES	YES	1
1000	195	450	6AEF18	455	197	2100	328.8	YES	YES	YES	1
1000	195	450	5AEF12	505	219	3300	204.0	YES	YES	YES	1
1000	196	Max	6TYF16E	R.F.	R.F.	1760	R.F.	YES	YES	YES	4
1000	196	Max	6TYF16E	R.F.	R.F.	2100	R.F.	YES	YES	YES	4
1000	200	462	6TUF10B	490	212	1760	201.0	YES	YES	NO	4
1000	200	462	6AEF18	467	202	2100	341.8	YES	YES	YES	1
1000	200	462	5AEF12	515	223	3300	212.0	YES	YES	YES	1
1000	205	474	6AEF18	474	205	2100	347.5	YES	YES	YES	1
1000	205	474	5AEF12	526	228	3300	220.0	YES	YES	YES	1
1000	208	480	6THF19	515	223	2100	313.0	YES	NO	YES	1
1000	210	485	6TUF10B	515	223	1760	212.0	YES	YES	NO	4
1000	210	485	5AEF12	537	232	3300	228.0	YES	YES	YES	1
1000	213	492	5THF15	575	249	2800	219.0	YES	NO	YES	1
1000	215	497	5AEF12	548	237	3300	235.0	YES	YES	YES	1
1000	220	508	5AEF12	562	243	3300	246.0	YES	YES	YES	1
1000	227	Min	6TYF16E	R.F.	R.F.	2100	R.F.	YES	YES	YES	4
1000	228	527	6THF19	565	245	2200	360.0	YES	NO	YES	1
1000	230	Max	6TYF16E	R.F.	R.F.	1900	R.F.	YES	YES	YES	4
1000	232	536	5THF15	620	268	2900	246.0	YES	NO	YES	1
1000	250	578	5THF15	660	286	3000	273.0	YES	NO	YES	1
1000	251	580	6THF19	620	268	2300	412.0	YES	NO	YES	1
1000	251	580	6THF19	620	268	2350	412.0	YES	NO	YES	1
1000	254	Min	6TYF13E	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
1000	268	Min	6TYF13F	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
1000	278	Min	6TYF16E	R.F.	R.F.	2300	R.F.	YES	YES	YES	4
1000	291	Min	6TYF16E	R.F.	R.F.	2350	R.F.	YES	YES	YES	4
1000	345	Max	6TYF16E	R.F.	R.F.	2300	R.F.	YES	YES	YES	4
1000	346	Max	6TYF13E	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
1000	361	Max	6TYF16E	R.F.	R.F.	2350	R.F.	YES	YES	YES	4
1000	361	Max	6TYF13F	R.F.	R.F.	2950	R.F.	YES	YES	YES	4
1250	40	92	6AEF14	117	51	1760	41.0	YES	YES	YES	1
1250	45	104	6AEF14	130	56	1760	46.0	YES	YES	YES	1
1250	50	116	6AEF14	144	62	1760	50.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
1250	55	127	6AEF14	157	68	1760	55.0	YES	YES	YES	1
1250	60	139	6AEF14	169	73	1760	60.0	YES	YES	YES	1
1250	60	139	6AEF16	165	71	1760	62.0	YES	YES	YES	1
1250	64	148	6AEF14G	158	68	2100	73.0	YES	YES	YES	1
1250	65	150	6AEF14	181	78	1760	60.0	YES	YES	YES	1
1250	65	150	6AEF16	177	77	1760	73.0	YES	YES	YES	1
1250	65	150	6AEF14G	160	69	2100	75.0	YES	YES	YES	1
1250	65	150	6AEF10	191	83	2800	69.0	NO	NO	YES	1
1250	66	152	6AEF10	193	84	2800	71.0	YES	NO	YES	1
1250	70	162	6AEF14	192	83	1760	73.0	YES	YES	YES	1
1250	70	162	6AEF16	189	82	1760	77.0	YES	YES	YES	1
1250	70	162	6AEF14G	171	74	2100	83.0	YES	YES	YES	1
1250	70	162	6AEF10	200	87	2800	74.0	YES	NO	YES	1
1250	74	171	6UNF12	200	87	2600	75.0	YES	NO	YES	3
1250	74	172	6AEF10	204	88	2800	75.0	YES	YES	YES	1
1250	75	173	6AEF14	203	88	1760	80.0	YES	YES	YES	1
1250	75	173	6AEF16	201	87	1760	82.0	YES	YES	YES	1
1250	75	173	6AEF14G	182	79	2100	91.0	YES	YES	YES	1
1250	75	173	6AEF10	206	89	2800	76.0	YES	YES	YES	1
1250	75	173	6AEF10	212	92	3000	80.0	NO	NO	YES	1
1250	76	176	6AEF12	213	92	2600	93.0	YES	YES	NO	1
1250	76	176	6AEF10	215	93	3000	81.0	YES	YES	YES	1
1250	80	185	6AEF14	211	91	1760	86.0	YES	YES	YES	1
1250	80	185	6AEF16	212	92	1760	87.0	YES	YES	YES	1
1250	80	185	6AEF14G	193	84	2100	99.0	YES	YES	YES	1
1250	80	185	6AEF12	221	96	2600	96.0	YES	YES	NO	1
1250	80	185	6AEF10	216	94	2800	81.0	YES	YES	YES	1
1250	80	185	6AEF10	224	97	3000	88.0	YES	YES	YES	1
1250	82	189	5THF12	240	104	2950	80.0	YES	NO	YES	1
1250	84	194	6THF13	235	102	2800	110.0	YES	NO	YES	1
1250	85	196	6AEF16	223	97	1760	93.0	YES	YES	YES	1
1250	85	196	6AEF14G	204	88	2100	108.0	YES	YES	YES	1
1250	85	196	6AEF12	229	99	2600	100.0	YES	YES	NO	1
1250	85	196	6AEF10	231	100	2800	90.0	YES	YES	YES	1
1250	85	196	6AEF10	235	102	3000	95.0	YES	YES	YES	1
1250	89	206	6UNF12	230	100	2800	100.0	YES	NO	YES	3
1250	90	208	6AEF16	235	102	1760	99.0	YES	YES	YES	1
1250	90	208	6AEF14G	216	94	2100	117.0	YES	YES	YES	1
1250	90	208	6AEF12	240	104	2600	105.0	YES	YES	NO	1
1250	90	208	6AEF10	241	104	2800	94.0	YES	YES	YES	1
1250	90	208	6AEF12	240	104	2800	112.0	YES	YES	YES	1
1250	90	208	6AEF10	247	107	3000	103.0	YES	YES	YES	1
1250	93	215	6THF13	260	113	2950	125.0	YES	NO	YES	1
1250	95	219	6AEF16	247	107	1760	106.0	YES	YES	YES	1
1250	95	219	6AEF14G	227	98	2100	127.0	YES	YES	YES	1
1250	95	219	6AEF12	251	109	2600	112.0	YES	YES	NO	1
1250	95	219	6AEF10	263	114	2800	103.0	YES	YES	YES	1
1250	95	219	6AEF12	250	108	2800	113.0	YES	YES	YES	1
1250	95	219	6AEF10	258	112	3000	111.0	YES	YES	YES	1
1250	96	222	8THF14E	240	104	2800	140.0	YES	NO	YES	1
1250	97	224	6THF19	255	110	1900	125.0	YES	NO	YES	1
1250	97	224	6AEF10	262	113	3300	111.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
1250	97	224	6AEF10	262	113	3550	115.0	YES	YES	YES	1
1250	100	231	6AEF16	259	112	1760	113.0	YES	YES	YES	1
1250	100	231	6AEF14G	239	103	2100	137.0	YES	YES	YES	1
1250	100	231	6AEF12	264	114	2600	120.0	YES	YES	NO	1
1250	100	231	6AEF10	270	117	2800	113.0	YES	YES	YES	1
1250	100	231	6AEF12	260	113	2800	121.0	YES	YES	YES	1
1250	100	231	6AEF10	270	117	3000	119.0	YES	YES	YES	1
1250	100	231	6AEF10	269	116	3300	116.0	YES	YES	YES	1
1250	100	231	6AEF10	269	116	3550	118.0	YES	YES	YES	1
1250	101	233	6UNF12	260	113	2950	120.0	YES	NO	YES	3
1250	103	238	6AEF10	270	117	2800	113.0	YES	YES	YES	1
1250	105	243	6AEF16	270	117	1760	120.0	YES	YES	YES	1
1250	105	243	6AEF14G	249	108	2100	146.0	YES	YES	YES	1
1250	105	243	6AEF12	277	120	2600	128.0	YES	YES	NO	1
1250	105	243	6AEF12	271	117	2800	128.0	YES	YES	YES	1
1250	105	243	6AEF10	283	123	3000	127.0	YES	YES	YES	1
1250	105	243	6AEF12	262	113	3000	138.0	YES	YES	YES	1
1250	105	243	6UNF12	268	116	3000	125.0	YES	NO	YES	3
1250	105	243	6AEF10	281	122	3300	124.0	YES	YES	YES	1
1250	105	243	6AEF10	280	121	3550	124.0	YES	YES	YES	1
1250	108	249	8THF14E	260	113	2950	170.0	YES	NO	YES	1
1250	110	254	6AEF16	281	122	1760	126.0	YES	YES	YES	1
1250	110	254	6AEF18	268	116	1760	148.0	NO	YES	YES	1
1250	110	254	6AEF14G	261	113	2100	156.0	YES	YES	YES	1
1250	110	254	6AEF12	289	125	2600	135.0	YES	YES	NO	1
1250	110	254	6AEF12	282	122	2800	133.0	YES	YES	YES	1
1250	110	254	6AEF10	294	127	3000	135.0	YES	YES	YES	1
1250	110	254	6AEF12	274	119	3000	142.0	YES	YES	YES	1
1250	110	254	6AEF10	292	126	3300	133.0	YES	YES	YES	1
1250	110	254	6AEF10	291	126	3550	130.0	YES	YES	YES	1
1250	115	266	6AEF16	294	127	1760	137.0	YES	YES	YES	1
1250	115	266	6AEF18	278	120	1760	150.0	YES	YES	YES	1
1250	115	266	6AEF14G	272	118	2100	166.0	YES	YES	YES	1
1250	115	266	6AEF12	302	131	2600	142.0	YES	YES	NO	1
1250	115	266	6AEF12	300	130	2800	143.0	YES	YES	YES	1
1250	115	266	6AEF10	305	132	3000	142.0	YES	YES	YES	1
1250	115	266	6AEF12	288	125	3000	148.0	YES	YES	YES	1
1250	115	266	6AEF10	304	132	3300	142.0	YES	YES	YES	1
1250	115	266	6AEF10	302	131	3550	137.0	YES	YES	YES	1
1250	120	277	6AEF16	306	132	1760	146.0	YES	YES	YES	1
1250	120	277	6AEF18	288	125	1760	156.0	YES	YES	YES	1
1250	120	277	6AEF14G	284	123	2100	176.0	YES	YES	YES	1
1250	120	277	6AEF12	313	135	2600	148.0	YES	YES	NO	1
1250	120	277	6AEF12	310	134	2800	151.0	YES	YES	YES	1
1250	120	277	6AEF12	300	130	3000	153.0	YES	YES	YES	1
1250	120	277	6AEF10	316	137	3300	150.0	YES	YES	YES	1
1250	120	277	6AEF10	311	135	3550	144.0	YES	YES	YES	1
1250	122	282	6THF19	315	136	2100	165.0	YES	NO	YES	1
1250	125	289	6AEF16	313	135	1760	152.0	YES	YES	YES	1
1250	125	289	6AEF18	300	130	1760	163.0	YES	YES	YES	1
1250	125	289	6AEF14G	295	128	2100	187.0	YES	YES	YES	1
1250	125	289	6AEF12	325	141	2600	154.0	YES	YES	NO	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
1250	125	289	6AEF12	324	140	2800	160.0	YES	YES	YES	1
1250	125	289	6AEF12	312	135	3000	157.0	YES	YES	YES	1
1250	125	289	6AEF10	328	142	3300	159.0	YES	YES	YES	1
1250	125	289	6AEF12	313	135	3300	181.0	YES	YES	NO	1
1250	125	289	6AEF10	326	141	3550	156.0	YES	YES	YES	1
1250	126	291	6AEF12	316	137	3300	183.0	YES	YES	YES	1
1250	130	300	6AEF18	316	137	1760	172.0	YES	YES	YES	1
1250	130	300	6AEF14G	303	131	2100	194.0	YES	YES	YES	1
1250	130	300	6AEF12	336	145	2600	160.0	YES	YES	NO	1
1250	130	300	6AEF12	335	145	2800	164.0	YES	YES	YES	1
1250	130	300	6AEF12	324	140	3000	166.0	YES	YES	YES	1
1250	130	300	6AEF10	336	145	3300	165.0	YES	YES	YES	1
1250	130	300	6AEF12	325	141	3300	181.0	YES	YES	YES	1
1250	130	300	6AEF10	337	146	3550	165.0	YES	YES	YES	1
1250	132	305	6UNF12	325	141	2800	172.0	YES	NO	YES	3
1250	134	310	6THF19	340	147	2200	200.0	YES	NO	YES	1
1250	135	312	6AEF18	325	141	1760	182.0	YES	YES	YES	1
1250	135	312	6AEF12	349	151	2600	166.0	YES	YES	NO	1
1250	135	312	6AEF12	347	150	2800	174.0	YES	YES	YES	1
1250	135	312	6AEF12	336	145	3000	174.0	YES	YES	YES	1
1250	135	312	6AEF10	350	152	3300	175.0	YES	YES	YES	1
1250	135	312	6AEF12	336	145	3300	187.0	YES	YES	YES	1
1250	135	312	6AEF10	350	152	3550	175.0	YES	YES	YES	1
1250	140	323	6AEF18	333	144	1760	193.0	YES	YES	YES	1
1250	140	323	6AEF12	360	156	2600	172.0	YES	YES	NO	1
1250	140	323	6AEF12	357	155	2800	181.0	YES	YES	YES	1
1250	140	323	6AEF12	348	151	3000	183.0	YES	YES	YES	1
1250	140	323	6AEF10	364	158	3300	185.0	YES	YES	YES	1
1250	140	323	6AEF12	347	150	3300	192.0	YES	YES	YES	1
1250	140	323	6AEF10	360	156	3550	183.0	YES	YES	YES	1
1250	142	328	6UNF12	345	149	2600	199.0	YES	NO	YES	3
1250	145	335	6AEF18	336	145	1760	195.0	YES	YES	YES	1
1250	145	335	6AEF12	362	157	2600	173.0	YES	YES	NO	1
1250	145	335	6AEF12	371	161	2800	187.0	YES	YES	YES	1
1250	145	335	6AEF12	360	156	3000	190.0	YES	YES	YES	1
1250	145	335	6AEF12	359	155	3300	198.0	YES	YES	YES	1
1250	145	335	6AEF10	369	160	3550	189.0	YES	YES	YES	1
1250	148	342	6THF19	375	162	2300	215.0	YES	NO	YES	1
1250	148	342	5THF12	415	180	2950	157.0	YES	NO	YES	1
1250	149	344	6UNF12	360	156	2950	202.0	YES	NO	YES	3
1250	150	347	6AEF12	383	166	2800	195.0	YES	YES	YES	1
1250	150	347	6THF13	420	182	2800	196.0	YES	NO	YES	1
1250	150	347	6AEF12	378	164	3000	202.0	YES	YES	YES	1
1250	150	347	6AEF12	369	160	3300	203.0	YES	YES	YES	1
1250	150	347	6AEF10	386	167	3550	203.0	YES	YES	YES	1
1250	150	347	6AEF12	374	162	3550	225.0	YES	YES	NO	1
1250	152	351	6AEF12	378	164	3550	R.F.	YES	YES	YES	1
1250	154	356	6UNF12	375	162	3000	212.0	YES	NO	YES	3
1250	155	358	6THF19	390	169	2350	225.0	YES	NO	YES	1
1250	155	358	6AEF12	395	171	2800	201.0	YES	YES	YES	1
1250	155	358	6AEF12	390	169	3000	210.0	YES	YES	YES	1
1250	155	358	6AEF12	378	164	3300	208.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
1250	155	358	6AEF10	401	174	3550	212.0	YES	YES	YES	1
1250	155	358	6AEF12	384	166	3550	R.F.	YES	YES	YES	1
1250	160	370	6AEF12	410	177	2800	209.0	YES	YES	YES	1
1250	160	370	6AEF12	401	174	3000	217.0	YES	YES	YES	1
1250	160	370	6AEF12	390	169	3300	217.0	YES	YES	YES	1
1250	160	370	6AEF10	411	178	3550	222.0	YES	YES	YES	1
1250	160	370	6AEF12	396	171	3550	R.F.	YES	YES	YES	1
1250	164	379	6THF13	460	199	2950	223.0	YES	NO	YES	1
1250	164	379	6AEF10	434	188	3550	226.0	YES	YES	YES	1
1250	165	381	6AEF18	386	167	2100	252.0	NO	YES	YES	1
1250	165	381	6AEF12	424	184	2800	215.0	YES	YES	YES	1
1250	165	381	6AEF12	413	179	3000	224.0	YES	YES	YES	1
1250	165	381	6AEF12	402	174	3300	227.0	YES	YES	YES	1
1250	165	381	6AEF12	408	177	3550	R.F.	YES	YES	YES	1
1250	166	383	6THF19	425	184	1900	234.5	YES	NO	YES	1
1250	167	386	6AEF18	390	169	2100	253.0	YES	YES	YES	1
1250	169	390	6AEF12	434	188	2800	215.0	YES	YES	YES	1
1250	170	Min	6TYF16E	R.F.	R.F.	1900	R.F.	YES	YES	YES	4
1250	170	393	6AEF18	397	172	2100	255.0	YES	YES	YES	1
1250	170	393	6AEF12	425	184	3000	227.0	YES	YES	YES	1
1250	170	393	6AEF12	415	180	3300	237.0	YES	YES	YES	1
1250	170	393	6AEF12	420	182	3550	R.F.	YES	YES	YES	1
1250	174	402	8THF14E	420	182	2800	278.0	YES	NO	YES	1
1250	175	404	6AEF18	408	177	2100	263.0	YES	YES	YES	1
1250	175	404	6AEF12	436	189	3000	238.0	YES	YES	YES	1
1250	175	404	6AEF12	427	185	3300	246.0	YES	YES	YES	1
1250	175	404	6AEF12	432	187	3550	R.F.	YES	YES	YES	1
1250	180	416	6AEF18	418	181	2100	270.0	YES	YES	YES	1
1250	180	416	6AEF12	448	194	3000	245.0	YES	YES	YES	1
1250	180	416	6AEF12	443	192	3300	257.0	YES	YES	YES	1
1250	180	416	6AEF12	444	192	3550	R.F.	YES	YES	YES	1
1250	185	427	6AEF18	432	187	2100	280.0	YES	YES	YES	1
1250	185	427	6AEF12	460	199	3000	252.0	YES	YES	YES	1
1250	185	427	6AEF12	455	197	3300	266.0	YES	YES	YES	1
1250	185	427	6AEF12	456	197	3550	R.F.	YES	YES	YES	1
1250	190	439	6AEF18	447	194	2100	287.0	YES	YES	YES	1
1250	190	439	6AEF12	467	202	3300	276.0	YES	YES	YES	1
1250	190	439	6AEF12	468	203	3550	R.F.	YES	YES	YES	1
1250	195	450	6AEF18	455	197	2100	299.0	YES	YES	YES	1
1250	195	450	6AEF12	479	207	3300	285.0	YES	YES	YES	1
1250	195	450	6AEF12	480	208	3550	R.F.	YES	YES	YES	1
1250	196	453	8THF14E	470	203	2950	324.0	YES	NO	YES	1
1250	200	462	6AEF18	468	203	2100	317.0	YES	YES	YES	1
1250	200	462	6AEF12	491	213	3300	292.0	YES	YES	YES	1
1250	200	462	6AEF12	492	213	3550	R.F.	YES	YES	YES	1
1250	203	469	6THF19	515	223	2100	313.0	YES	NO	YES	1
1250	205	474	6AEF18	475	206	2100	327.0	YES	YES	YES	1
1250	205	474	6AEF12	504	218	3300	300.0	YES	YES	YES	1
1250	205	474	6AEF12	504	218	3550	R.F.	YES	YES	YES	1
1250	210	485	6AEF12	516	223	3300	308.0	YES	YES	YES	1
1250	210	485	6AEF12	516	223	3550	R.F.	YES	YES	YES	1
1250	214	Min	6TYF16E	R.F.	R.F.	2100	R.F.	YES	YES	YES	4

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
1250	215	Max	6TYF16E	R.F.	R.F.	1900	R.F.	YES	YES	YES	4
1250	215	497	6AEF12	528	229	3300	315.0	YES	YES	YES	1
1250	215	497	6AEF12	528	229	3550	R.F.	YES	YES	YES	1
1250	220	508	6AEF12	540	234	3300	324.0	YES	YES	YES	1
1250	220	508	6AEF12	540	234	3550	R.F.	YES	YES	YES	1
1250	225	520	6THF19	565	245	2200	360.0	YES	NO	YES	1
1250	225	520	6AEF12	551	239	3300	332.0	YES	YES	YES	1
1250	225	520	6AEF12	550	238	3550	R.F.	YES	YES	YES	1
1250	229	529	6AEF12	562	243	3300	338.0	YES	YES	YES	1
1250	230	531	6AEF12	562	243	3550	R.F.	YES	YES	YES	1
1250	235	543	6AEF12	574	248	3550	R.F.	YES	YES	YES	1
1250	240	554	6AEF12	588	255	3550	R.F.	YES	YES	YES	1
1250	245	566	6AEF12	600	260	3550	R.F.	YES	YES	YES	1
1250	246	568	6THF19	620	268	2300	412.0	YES	NO	YES	1
1250	246	568	6THF19	620	268	2350	412.0	YES	NO	YES	1
1250	246	Min	6TYF13F	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
1250	250	578	6AEF12	612	265	3550	R.F.	YES	YES	YES	1
1250	255	589	6AEF12	622	269	3550	R.F.	YES	YES	YES	1
1250	260	601	6AEF12	634	274	3550	R.F.	YES	YES	YES	1
1250	265	Min	6TYF16E	R.F.	R.F.	2300	R.F.	YES	YES	YES	4
1250	265	612	6AEF12	646	280	3550	R.F.	YES	YES	YES	1
1250	270	624	6AEF12	658	285	3550	R.F.	YES	YES	YES	1
1250	274	Max	6TYF16E	R.F.	R.F.	2100	R.F.	YES	YES	YES	4
1250	275	Min	6TYF13E	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
1250	278	Min	6TYF16E	R.F.	R.F.	2350	R.F.	YES	YES	YES	4
1250	329	Max	6TYF13E	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
1250	331	Max	6TYF16E	R.F.	R.F.	2300	R.F.	YES	YES	YES	4
1250	347	Max	6TYF16E	R.F.	R.F.	2350	R.F.	YES	YES	YES	4
1250	348	Max	6TYF13F	R.F.	R.F.	2950	R.F.	R.F.	R.F.	R.F.	4
1500	40	92	8AEF13	107	46	1760	58.0	YES	YES	YES	1
1500	45	104	6AEF14G	122	53	1760	58.0	YES	YES	YES	1
1500	45	104	8AEF13	118	51	1760	66.0	YES	YES	YES	1
1500	50	116	6AEF14G	132	57	1760	67.0	YES	YES	YES	1
1500	50	116	8AEF13	129	56	1760	74.0	YES	YES	YES	1
1500	55	127	6AEF14G	145	63	1760	73.0	YES	YES	YES	1
1500	55	127	8AEF13	140	61	1760	84.0	YES	YES	YES	1
1500	60	139	6AEF14G	156	68	1760	79.0	YES	YES	YES	1
1500	60	139	8AEF13	151	65	1760	94.0	YES	YES	YES	1
1500	62	143	6AEF14G	160	69	2100	75.0	YES	YES	YES	1
1500	65	150	6AEF14G	167	72	1760	86.0	YES	YES	YES	1
1500	65	150	8AEF13	162	70	1760	105.0	YES	YES	YES	1
1500	65	150	6AEF14G	167	72	2100	79.0	YES	YES	YES	1
1500	70	162	6AEF14G	178	77	1760	93.0	YES	YES	YES	1
1500	70	162	8AEF13	173	75	1760	116.0	YES	YES	YES	1
1500	70	162	6AEF14G	178	77	2100	88.0	YES	YES	YES	1
1500	75	173	6AEF14G	189	82	1760	101.0	YES	YES	YES	1
1500	75	173	8AEF13	184	80	1760	127.0	YES	YES	YES	1
1500	75	173	6AEF14G	189	82	2100	96.0	YES	YES	YES	1
1500	78	180	6THF13	235	102	2800	110.0	YES	NO	YES	1
1500	80	185	6AEF14G	201	87	1760	110.0	YES	YES	YES	1
1500	80	185	6AEF14G	199	86	2100	104.0	YES	YES	YES	1
1500	80	185	6UNF12	230	100	2800	100.0	YES	NO	YES	3

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
1500	85	196	6AEF14G	208	90	1760	115.0	YES	YES	YES	1
1500	85	196	6AEF16	241	104	1760	102.0	NO	YES	YES	1
1500	85	196	6AEF14G	211	91	2100	113.0	YES	YES	YES	1
1500	87	201	6AEF16	239	103	1760	104.0	YES	YES	YES	1
1500	88	203	6THF13	260	113	2950	125.0	YES	NO	YES	1
1500	90	208	6AEF16	251	109	1760	108.0	YES	YES	YES	1
1500	90	208	6AEF14G	222	96	2100	123.0	YES	YES	YES	1
1500	91	210	8THF14E	240	104	2800	140.0	YES	NO	YES	1
1500	95	219	6AEF16	262	113	1760	115.0	YES	YES	YES	1
1500	95	219	6AEF14G	233	101	2100	132.0	YES	YES	YES	1
1500	95	219	6UNF12	260	113	2950	120.0	YES	NO	YES	3
1500	97	224	6AEF10	279	121	3550	118.0	YES	YES	YES	1
1500	99	229	6UNF12	268	116	3000	125.0	YES	NO	YES	3
1500	100	231	6AEF16	273	118	1760	121.0	YES	YES	YES	1
1500	100	231	6AEF14G	245	106	2100	142.0	YES	YES	YES	1
1500	100	231	6AEF10	285	123	3300	128.0	YES	YES	YES	1
1500	100	231	6AEF10	285	123	3550	122.0	YES	YES	YES	1
1500	105	243	6AEF16	285	123	1760	129.0	YES	YES	YES	1
1500	105	243	6AEF18	270	117	1760	148.0	NO	YES	YES	1
1500	105	243	6AEF14G	255	110	2100	151.0	YES	YES	YES	1
1500	105	243	8THF14E	260	113	2950	170.0	YES	NO	YES	1
1500	105	243	6AEF10	297	129	3300	136.0	YES	YES	YES	1
1500	105	242	6AEF10	295	128	3550	127.0	YES	YES	YES	1
1500	108	249	6AEF18	276	119	1760	150.0	YES	YES	YES	1
1500	110	254	6AEF16	296	128	1760	139.0	YES	YES	YES	1
1500	110	254	6AEF18	280	121	1760	151.0	YES	YES	YES	1
1500	110	254	6AEF14G	266	115	2100	161.0	YES	YES	YES	1
1500	110	254	6AEF12	310	134	2600	146.0	YES	YES	NO	1
1500	110	254	8THF14D	280	121	2800	190.0	YES	NO	YES	1
1500	110	254	6AEF10	308	133	3300	144.0	YES	YES	YES	1
1500	110	254	6AEF10	307	133	3550	141.0	YES	YES	YES	1
1500	112	258	6AEF12	300	130	3000	152.0	YES	YES	YES	1
1500	115	266	6AEF16	308	133	1760	148.0	YES	YES	YES	1
1500	115	266	6AEF18	290	126	1760	157.0	YES	YES	YES	1
1500	115	266	6THF19	255	110	1900	125.0	YES	NO	YES	1
1500	115	266	6AEF14G	278	120	2100	171.0	YES	YES	YES	1
1500	115	266	6AEF12	322	139	2600	152.0	YES	YES	NO	1
1500	115	266	6AEF12	313	135	3000	156.0	YES	YES	YES	1
1500	115	266	6AEF10	320	139	3300	153.0	YES	YES	YES	1
1500	115	266	6AEF10	319	138	3550	150.0	YES	YES	YES	1
1500	116	268	6THF19	315	136	2100	165.0	YES	NO	YES	1
1500	120	277	6AEF16	314	136	1760	152.0	YES	YES	YES	1
1500	120	277	6AEF18	303	131	1760	164.0	YES	YES	YES	1
1500	120	277	6AEF14G	289	125	2100	181.0	YES	YES	YES	1
1500	120	277	6AEF12	334	145	2600	158.0	YES	YES	NO	1
1500	120	277	6AEF12	329	142	2800	163.0	YES	YES	YES	1
1500	120	277	6AEF12	325	141	3000	163.0	YES	YES	YES	1
1500	120	277	6AEF10	331	143	3300	161.0	YES	YES	YES	1
1500	120	277	6AEF10	330	143	3550	159.0	YES	YES	YES	1
1500	121	280	6AEF12	325	141	3300	183.0	YES	YES	YES	1
1500	125	289	6AEF18	316	137	1760	172.0	YES	YES	YES	1
1500	125	289	6AEF14G	301	130	2100	193.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
1500	125	289	6AEF12	346	150	2600	165.0	YES	YES	NO	1
1500	125	289	6AEF12	341	148	2800	171.0	YES	YES	YES	1
1500	125	289	6AEF12	337	146	3000	172.0	YES	YES	YES	1
1500	125	289	6AEF10	343	148	3300	170.0	YES	YES	YES	1
1500	125	289	6AEF12	330	143	3300	185.0	YES	YES	YES	1
1500	125	289	6AEF10	342	148	3550	169.0	YES	YES	YES	1
1500	127	293	6UNF12	325	141	2800	172.0	YES	NO	YES	3
1500	128	296	6AEF14G	303	131	2100	193.0	YES	YES	YES	1
1500	128	296	6THF19	340	147	2200	200.0	YES	NO	YES	1
1500	130	300	6AEF18	325	141	1760	182.0	YES	YES	YES	1
1500	130	300	6AEF12	358	155	2600	171.0	YES	YES	NO	1
1500	130	300	6AEF12	353	153	2800	178.0	YES	YES	YES	1
1500	130	300	6AEF12	349	151	3000	180.0	YES	YES	YES	1
1500	130	300	6AEF10	355	154	3300	178.0	YES	YES	YES	1
1500	130	300	6AEF12	342	148	3300	190.0	YES	YES	YES	1
1500	130	300	6AEF10	353	153	3550	177.0	YES	YES	YES	1
1500	134	310	6AEF12	366	158	2600	175.0	YES	YES	NO	1
1500	135	312	6AEF18	336	145	1760	195.0	YES	YES	YES	1
1500	135	312	6AEF12	366	158	2800	185.0	YES	YES	YES	1
1500	135	312	6AEF12	361	156	3000	188.0	YES	YES	YES	1
1500	135	312	6AEF10	367	159	3300	187.0	YES	YES	YES	1
1500	135	312	6AEF12	354	153	3300	195.0	YES	YES	YES	1
1500	135	312	6AEF10	369	160	3550	187.0	YES	YES	YES	1
1500	140	323	6AEF18	348	151	1760	202.0	YES	YES	YES	1
1500	140	323	6AEF12	378	164	2800	192.0	YES	YES	YES	1
1500	140	323	6AEF12	373	161	3000	197.0	YES	YES	YES	1
1500	140	323	6AEF12	366	158	3300	201.0	YES	YES	YES	1
1500	140	323	6AEF10	377	163	3550	196.0	YES	YES	YES	1
1500	143	330	6THF19	375	162	2300	215.0	YES	NO	YES	1
1500	144	333	6THF13	420	182	2800	196.0	YES	NO	YES	1
1500	144	333	6UNF12	360	156	2950	202.0	YES	NO	YES	3
1500	145	335	6AEF12	390	169	2800	198.0	YES	YES	YES	1
1500	145	335	6AEF12	385	167	3000	206.0	YES	YES	YES	1
1500	145	335	6AEF12	376	163	3300	206.0	YES	YES	YES	1
1500	145	335	6AEF10	389	168	3550	205.0	YES	YES	YES	1
1500	145	335	6AEF12	395	171	3550	206.0	YES	YES	YES	1
1500	150	347	6AEF12	401	174	2800	205.0	YES	YES	YES	1
1500	150	347	6AEF12	397	172	3000	214.0	YES	YES	YES	1
1500	150	347	6UNF12	375	162	3000	212.0	YES	NO	YES	3
1500	150	347	6AEF12	386	167	3300	214.0	YES	YES	YES	1
1500	150	347	6AEF10	401	174	3550	215.0	YES	YES	YES	1
1500	150	347	6AEF12	407	176	3550	214.0	YES	YES	NO	1
1500	151	348	8TUF15	420	182	1760	206.0	YES	YES	NO	4
1500	151	349	6THF19	390	169	2350	225.0	YES	NO	YES	1
1500	152	350	6AEF12	408	177	3550	220.0	YES	YES	YES	1
1500	155	358	8TUF15	429	186	1760	216.0	YES	YES	NO	4
1500	155	358	6AEF12	413	179	2800	212.0	YES	YES	YES	1
1500	155	358	6AEF12	409	177	3000	221.0	YES	YES	YES	1
1500	155	358	6AEF12	399	173	3300	223.0	YES	YES	YES	1
1500	155	358	6AEF10	413	179	3550	224.0	YES	YES	YES	1
1500	155	358	6AEF12	410	177	3550	223.0	YES	YES	YES	1
1500	157	363	6THF13	460	199	2950	223.0	YES	NO	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
1500	160	370	8TUF15	444	192	1760	226.0	YES	YES	NO	4
1500	160	370	6AEF18	384	166	2100	252.0	YES	YES	YES	1
1500	160	370	6AEF12	425	184	2800	217.0	YES	YES	YES	1
1500	160	370	6AEF12	421	182	3000	227.0	YES	YES	YES	1
1500	160	370	6AEF12	411	178	3300	233.0	YES	YES	YES	1
1500	160	370	6AEF10	418	181	3550	230.0	YES	YES	YES	1
1500	160	370	6AEF12	415	180	3550	233.0	YES	YES	YES	1
1500	162	374	6THF19	425	184	1900	234.5	YES	NO	YES	1
1500	165	381	8TUF15	458	198	1760	237.0	YES	YES	NO	4
1500	165	381	6AEF18	396	171	2100	254.0	YES	YES	YES	1
1500	165	381	6AEF12	433	187	3000	235.0	YES	YES	YES	1
1500	165	381	6AEF12	424	184	3300	242.0	YES	YES	YES	1
1500	165	381	6AEF12	420	182	3550	242.0	YES	YES	YES	1
1500	169	390	8THF14E	420	182	2800	278.0	YES	NO	YES	1
1500	170	393	8TUF15	471	204	1760	247.0	YES	YES	NO	4
1500	170	393	6AEF18	406	176	2100	262.0	YES	YES	YES	1
1500	170	393	6AEF12	445	193	3000	242.0	YES	YES	YES	1
1500	170	393	6AEF12	436	189	3300	252.0	YES	YES	YES	1
1500	170	393	6AEF12	430	186	3550	252.0	YES	YES	YES	1
1500	175	404	8TUF15	484	210	1760	257.0	YES	YES	NO	4
1500	175	404	6AEF18	413	179	2100	267.0	YES	YES	YES	1
1500	175	404	6AEF12	456	197	3000	249.0	YES	YES	YES	1
1500	175	404	6AEF12	449	194	3300	261.0	YES	YES	YES	1
1500	175	404	6AEF12	440	190	3550	261.0	YES	YES	YES	1
1500	179	413	8THF14D	460	199	2800	353.0	YES	NO	YES	1
1500	180	416	6AEF18	431	187	2100	279.0	YES	YES	YES	1
1500	180	416	6AEF12	468	203	3000	256.0	YES	YES	YES	1
1500	180	416	6AEF12	462	200	3300	271.0	YES	YES	YES	1
1500	180	416	6AEF12	451	195	3550	271.0	YES	YES	YES	1
1500	185	427	6AEF18	442	191	2100	287.0	YES	YES	YES	1
1500	185	427	6AEF12	474	205	3300	280.0	YES	YES	YES	1
1500	185	427	6AEF12	462	200	3550	280.0	YES	YES	YES	1
1500	190	439	6AEF18	455	197	2100	299.0	YES	YES	YES	1
1500	190	439	8THF14E	470	203	2950	324.0	YES	NO	YES	1
1500	190	439	6AEF12	486	210	3300	288.0	YES	YES	YES	1
1500	190	439	6AEF12	473	205	3550	288.0	YES	YES	YES	1
1500	195	450	6AEF18	465	201	2100	312.0	YES	YES	YES	1
1500	195	450	6AEF12	498	216	3300	296.0	YES	YES	YES	1
1500	195	450	6AEF12	499	216	3550	296.0	YES	YES	YES	1
1500	199	460	6THF19	515	223	2100	313.0	YES	NO	YES	1
1500	200	462	6AEF18	475	206	2100	327.0	YES	YES	YES	1
1500	200	462	6AEF12	510	221	3300	304.0	YES	YES	YES	1
1500	200	462	6AEF12	510	221	3550	304.0	YES	YES	YES	1
1500	202	467	6AEF18	480	208	2100	332.0	YES	YES	YES	1
1500	205	474	6AEF12	522	226	3300	311.0	YES	YES	YES	1
1500	205	474	6AEF12	521	226	3550	311.0	YES	YES	YES	1
1500	210	485	6AEF12	533	231	3300	319.0	YES	YES	YES	1
1500	210	485	6AEF12	534	231	3550	319.0	YES	YES	YES	1
1500	215	497	6AEF12	545	236	3300	327.0	YES	YES	YES	1
1500	215	497	6AEF12	545	236	3550	327.0	YES	YES	YES	1
1500	220	508	6THF19	565	245	2200	360.0	YES	NO	YES	1
1500	220	508	6AEF12	556	241	3300	335.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
1500	220	508	6AEF12	554	240	3550	335.0	YES	YES	YES	1
1500	225	520	6AEF12	565	245	3550	361.0	YES	YES	YES	1
1500	230	531	6AEF12	576	249	3550	369.0	YES	YES	YES	1
1500	235	543	6AEF12	588	255	3550	378.0	YES	YES	YES	1
1500	240	554	6AEF12	599	259	3550	386.0	YES	YES	YES	1
1500	241	557	6THF19	620	268	2300	412.0	YES	NO	YES	1
1500	243	561	6THF19	620	268	2350	412.0	YES	NO	YES	1
1500	245	566	6AEF12	617	267	3550	395.0	YES	YES	YES	1
1500	250	578	6AEF12	629	272	3550	404.0	YES	YES	YES	1
1500	255	589	6AEF12	639	277	3550	411.0	YES	YES	YES	1
1500	260	601	6AEF12	651	282	3550	420.0	YES	YES	YES	1
1500	265	612	6AEF12	662	287	3550	428.0	YES	YES	YES	1
1500	270	624	6AEF12	670	290	3550	438.0	YES	YES	YES	1
2000	45	104	8AEF15G	130	56	1760	73.0	NO	YES	YES	1
2000	48	111	8AEF15G	138	60	1760	80.0	YES	YES	YES	1
2000	50	116	8AEF15G	142	61	1760	82.0	YES	YES	YES	1
2000	55	127	8AEF15G	153	66	1760	90.0	YES	YES	YES	1
2000	60	139	8AEF15G	166	72	1760	98.0	YES	YES	YES	1
2000	63	146	8AEF13	164	71	1760	110.0	YES	YES	YES	1
2000	65	150	6AEF14Q	176	76	1760	110.0	YES	YES	NO	1
2000	65	150	8AEF13	169	73	1760	114.0	YES	YES	YES	1
2000	65	150	8AEF15G	180	78	1760	108.0	YES	YES	YES	1
2000	67	155	6AEF14Q	183	79	1760	115.0	YES	YES	YES	1
2000	70	162	6AEF14Q	187	81	1760	118.0	YES	YES	YES	1
2000	70	162	8AEF13	180	78	1760	126.0	YES	YES	YES	1
2000	70	162	8AEF15G	194	84	1760	117.0	YES	YES	YES	1
2000	70	162	8AEF15G	186	81	2100	125.0	YES	YES	YES	1
2000	74	171	8AEF13	182	79	1760	127.0	YES	YES	YES	1
2000	75	173	6AEF14Q	208	90	1760	130.0	YES	YES	YES	1
2000	75	173	8AEF15G	207	90	1760	126.0	YES	YES	YES	1
2000	75	173	8AEF15G	197	85	2100	134.0	YES	YES	YES	1
2000	80	185	6AEF14Q	222	96	1760	140.0	YES	YES	YES	1
2000	80	185	8AEF15G	222	96	1760	134.0	YES	YES	YES	1
2000	80	185	8AEF15G	209	90	2100	144.0	YES	YES	YES	1
2000	84	194	8THF14E	240	104	2800	140.0	YES	NO	YES	1
2000	85	196	6AEF14Q	233	101	1760	127.0	YES	YES	YES	1
2000	85	196	8AEF15G	236	102	1760	141.0	YES	YES	YES	1
2000	85	196	6AEF14Q	227	98	2100	152.0	YES	YES	NO	1
2000	85	196	8AEF15G	220	95	2100	154.0	YES	YES	YES	1
2000	87	201	6AEF14Q	232	100	2100	155.0	YES	YES	YES	1
2000	89	206	8AEF15G	248	107	1760	149.0	YES	YES	YES	1
2000	90	208	6AEF14Q	247	107	1760	137.0	YES	YES	YES	1
2000	90	208	8AEF17W	244	106	1760	146.0	YES	YES	YES	1
2000	90	208	6AEF14Q	235	102	2100	157.0	YES	YES	YES	1
2000	90	208	8AEF15G	232	100	2100	164.0	YES	YES	YES	1
2000	91	210	8HYF23A	230	100	1475	200.0	NO	NO	YES	1
2000	94	217	8HYF23B	252	109	1475	190.0	YES	NO	YES	1
2000	95	219	6AEF14Q	263	114	1760	151.0	YES	YES	YES	1
2000	95	219	8AEF17W	270	117	1760	150.0	YES	YES	YES	1
2000	95	219	6AEF14Q	245	106	2100	165.0	YES	YES	YES	1
2000	95	219	8AEF15G	246	106	2100	175.0	YES	YES	YES	1
2000	95	219	8THF14E	260	113	2950	170.0	YES	NO	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
2000	97	224	8THF14D	278	120	2960	170.0	YES	NO	YES	1
2000	100	231	6AEF14Q	263	114	1760	165.0	YES	YES	YES	1
2000	100	231	8AEF17W	291	126	1760	156.0	YES	YES	YES	1
2000	100	231	6AEF14Q	257	111	2100	173.0	YES	YES	YES	1
2000	100	231	8AEF15G	260	113	2100	186.0	YES	YES	YES	1
2000	102	236	6AEF14Q	267	116	1760	168.0	YES	YES	YES	1
2000	103	238	8AEF20	276	119	1760	184.0	YES	YES	YES	1
2000	104	240	8THF14D	280	121	2800	190.0	YES	NO	YES	1
2000	105	243	8AEF17W	298	129	1760	174.0	YES	YES	YES	1
2000	105	243	8AEF20	280	121	1760	185.0	YES	YES	YES	1
2000	105	243	6AEF14Q	270	117	2100	182.0	YES	YES	YES	1
2000	105	243	8AEF15G	273	118	2100	197.0	YES	YES	YES	1
2000	110	254	8AEF17W	305	132	1760	193.0	YES	YES	YES	1
2000	110	254	8AEF20	295	128	1760	195.0	YES	YES	YES	1
2000	110	254	8AEF20G	273	118	1760	230.0	YES	YES	YES	1
2000	110	254	6AEF14Q	283	123	2100	192.0	YES	YES	YES	1
2000	110	254	8AEF15G	287	124	2100	208.0	YES	YES	YES	1
2000	110	254	8AEF17W	272	118	2100	214.0	YES	YES	YES	1
2000	115	266	8AEF17W	308	133	1760	209.0	YES	YES	YES	1
2000	115	266	8AEF20	305	132	1760	203.0	YES	YES	YES	1
2000	115	266	8AEF20G	285	123	1760	241.0	YES	YES	YES	1
2000	115	266	6AEF14Q	296	128	2100	202.0	YES	YES	YES	1
2000	115	266	8AEF15G	300	130	2100	217.0	YES	YES	YES	1
2000	115	266	8AEF17W	284	123	2100	222.0	YES	YES	YES	1
2000	118	273	8AEF17W	308	133	1760	209.0	YES	YES	YES	1
2000	120	277	8AEF20	317	137	1760	211.0	YES	YES	YES	1
2000	120	277	8AEF20G	297	129	1760	252.0	YES	YES	YES	1
2000	120	277	6AEF14Q	309	134	2100	212.0	YES	YES	YES	1
2000	120	277	8AEF15G	314	136	2100	225.0	YES	YES	YES	1
2000	120	277	8AEF17W	298	129	2100	230.0	YES	YES	YES	1
2000	125	289	8AEF20	328	142	1760	220.0	YES	YES	YES	1
2000	125	289	8AEF20G	308	133	1760	262.0	YES	YES	YES	1
2000	125	289	6AEF14Q	323	140	2100	222.0	YES	YES	YES	1
2000	125	289	8AEF15G	327	142	2100	234.0	YES	YES	YES	1
2000	125	289	8AEF17W	312	135	2100	239.0	YES	YES	YES	1
2000	130	300	8AEF20	339	147	1760	231.0	YES	YES	YES	1
2000	130	300	8AEF20G	320	139	1760	271.0	YES	YES	YES	1
2000	130	300	6AEF14Q	337	146	2100	233.0	YES	YES	YES	1
2000	130	300	6AEF14Q	337	146	2100	233.0	YES	YES	YES	1
2000	130	300	8AEF15G	341	148	2100	242.0	YES	YES	YES	1
2000	130	300	8AEF17W	329	142	2100	244.0	YES	YES	YES	1
2000	135	312	8AEF20	351	152	1760	243.0	YES	YES	YES	1
2000	135	312	8AEF20G	332	144	1760	281.0	YES	YES	YES	1
2000	135	312	6AEF14Q	353	153	2100	244.0	YES	YES	YES	1
2000	135	312	8AEF17W	347	150	2100	248.0	YES	YES	YES	1
2000	140	323	8AEF20	362	157	1760	256.0	YES	YES	YES	1
2000	140	323	8AEF20G	342	148	1760	289.0	YES	YES	YES	1
2000	140	323	6AEF14Q	360	156	2100	250.0	YES	YES	YES	1
2000	140	323	8AEF17W	366	158	2100	252.0	YES	YES	YES	1
2000	145	335	8AEF20	372	161	1760	266.0	YES	YES	YES	1
2000	145	335	8AEF20G	356	154	1760	306.0	YES	YES	YES	1
2000	145	335	8AEF17W	388	168	2100	255.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
2000	150	347	8HYF23B	380	165	1475	390.0	YES	NO	YES	1
2000	150	347	8AEF20	388	168	1760	272.0	YES	YES	YES	1
2000	150	347	8AEF20G	368	159	1760	321.0	YES	YES	YES	1
2000	150	347	8AEF17W	404	175	2100	257.0	YES	YES	YES	1
2000	150	347	8AEF20	378	164	2100	295.0	YES	YES	YES	1
2000	155	358	8AEF20	394	171	1760	276.0	YES	YES	YES	1
2000	155	358	8AEF20G	379	164	1760	335.0	YES	YES	YES	1
2000	155	358	8AEF17W	409	177	2100	298.0	YES	YES	YES	1
2000	155	358	8AEF20	390	169	2100	306.0	YES	YES	YES	1
2000	159	367	8THF14E	420	182	2800	278.0	YES	NO	YES	1
2000	160	370	8AEF20G	391	169	1760	350.0	YES	YES	YES	1
2000	160	370	8AEF17W	418	181	2100	320.0	YES	YES	YES	1
2000	160	370	8AEF20	403	174	2100	317.0	YES	YES	YES	1
2000	164	379	8HYF23A	395	171	1475	500.0	NO	NO	YES	1
2000	165	381	8AEF20G	402	174	1760	365.0	YES	YES	YES	1
2000	165	381	8AEF17W	427	185	2100	343.0	YES	YES	YES	1
2000	165	381	8AEF20	415	180	2100	328.0	YES	YES	YES	1
2000	169	390	8AEF17W	427	185	2100	343.0	YES	YES	YES	1
2000	170	393	8AEF20G	414	179	1760	380.0	YES	YES	YES	1
2000	170	393	8AEF20	427	185	2100	338.0	YES	YES	YES	1
2000	174	402	8THF14D	460	199	2800	353.0	YES	NO	YES	1
2000	175	404	8AEF20G	421	182	1760	412.0	YES	YES	YES	1
2000	175	404	8AEF20	439	190	2100	348.0	YES	YES	YES	1
2000	179	413	8THF14E	470	203	2950	324.0	YES	NO	YES	1
2000	180	416	8AEF20	450	195	2100	358.0	YES	YES	YES	1
2000	185	427	8AEF20	462	200	2100	368.0	YES	YES	YES	1
2000	190	439	8AEF20	473	205	2100	380.0	YES	YES	YES	1
2000	195	450	8AEF20	485	210	2100	395.0	YES	YES	YES	1
2000	197	455	8THF14D	520	225	2960	423.0	YES	NO	YES	1
2000	200	462	8AEF20	496	215	2100	410.0	YES	YES	YES	1
2000	205	474	8AEF20	508	220	2100	425.0	YES	YES	YES	1
2000	210	485	8AEF20	520	225	2100	440.0	YES	YES	YES	1
2000	212	490	8AEF20	525	227	2100	448.0	YES	YES	YES	1
2500	51	118	8AEF15	144	62	1760	106.0	YES	YES	NO	1
2500	52	120	8AEF15	147	64	1760	109.0	YES	YES	YES	1
2500	55	127	8AEF15	153	66	1760	117.0	YES	YES	YES	1
2500	60	139	8AEF15	165	71	1760	129.0	YES	YES	YES	1
2500	65	150	8AEF15	176	76	1760	140.0	YES	YES	YES	1
2500	70	162	8AEF15	189	82	1760	154.0	YES	YES	YES	1
2500	75	173	8AEF15	203	88	1760	167.0	YES	YES	YES	1
2500	80	185	8AEF15	217	94	1760	179.0	YES	YES	YES	1
2500	80	185	8AEF17A	195	84	1760	177.0	YES	YES	YES	1
2500	80	185	8AEF17Q	207	90	1760	166.0	YES	YES	YES	1
2500	85	196	10AEF20	220	95	1470	199.0	YES	YES	YES	1
2500	85	196	8HYF23A	230	100	1475	200.0	NO	NO	YES	1
2500	85	196	8AEF15	229	99	1760	191.0	YES	YES	YES	1
2500	85	196	8AEF17A	203	88	1760	191.0	YES	YES	YES	1
2500	85	196	8AEF17Q	218	94	1760	176.0	YES	YES	YES	1
2500	90	208	10AEF20	234	101	1470	214.0	YES	YES	YES	1
2500	90	208	8AEF15	242	105	1760	204.0	YES	YES	YES	1
2500	90	208	8AEF17A	211	91	1760	203.0	YES	YES	YES	1
2500	90	208	8AEF17Q	228	99	1760	186.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
2500	95	219	10AEF20	246	106	1470	225.0	YES	YES	YES	1
2500	95	219	8AEF15	253	110	1760	214.0	YES	YES	YES	1
2500	95	219	8AEF17A	221	96	1760	216.0	YES	YES	YES	1
2500	95	219	8AEF17Q	240	104	1760	201.0	YES	YES	YES	1
2500	95	219	8THF14D	280	121	2800	190.0	YES	NO	YES	1
2500	98	226	8AEF15	255	110	1760	216.0	YES	YES	YES	1
2500	100	231	10AEF20	259	112	1470	238.0	YES	YES	YES	1
2500	100	231	8HYF23B	252	109	1475	190.0	NO	NO	YES	1
2500	100	231	8AEF17A	237	103	1760	230.0	YES	YES	YES	1
2500	100	231	8AEF17Q	251	109	1760	215.0	YES	YES	YES	1
2500	102	236	8THF14D	278	120	2960	170.0	YES	NO	YES	1
2500	105	243	10AEF20	270	117	1470	253.0	YES	YES	YES	1
2500	105	243	8AEF17A	253	110	1760	244.0	YES	YES	YES	1
2500	105	243	8AEF17Q	263	114	1760	230.0	YES	YES	YES	1
2500	105	243	8AEF20G	281	122	1760	238.0	YES	YES	YES	1
2500	105	243	8AEF15A	269	116	2100	261.0	YES	YES	YES	1
2500	105	243	8THF14E	310	134	2800	205.0	YES	NO	YES	1
2500	110	254	10AEF20	283	123	1470	269.0	YES	YES	YES	1
2500	110	254	8AEF17A	268	116	1760	261.0	YES	YES	YES	1
2500	110	254	8AEF17Q	275	119	1760	247.0	YES	YES	YES	1
2500	110	254	8AEF20G	293	127	1760	248.0	YES	YES	YES	1
2500	110	254	8AEF15A	282	122	2100	276.0	YES	YES	YES	1
2500	115	266	10AEF20	293	127	1470	287.0	YES	YES	YES	1
2500	115	266	8AEF17A	281	122	1760	281.0	YES	YES	YES	1
2500	115	266	8AEF17Q	287	124	1760	263.0	YES	YES	YES	1
2500	115	266	8AEF20G	304	132	1760	259.0	YES	YES	YES	1
2500	115	266	8AEF15A	292	126	2100	287.0	YES	YES	YES	1
2500	115	266	8AEF17Q	284	123	2100	269.0	YES	YES	YES	1
2500	119	275	8THF14E	340	147	2950	250.0	NO	NO	YES	1
2500	120	277	10AEF20	304	132	1470	307.0	YES	YES	YES	1
2500	120	277	8AEF17A	293	127	1760	301.0	YES	YES	YES	1
2500	120	277	8AEF17Q	297	129	1760	277.0	YES	YES	YES	1
2500	120	277	8AEF20G	315	136	1760	268.0	YES	YES	YES	1
2500	120	277	8AEF15A	310	134	2100	306.0	YES	YES	YES	1
2500	120	277	8AEF17Q	295	128	2100	281.0	YES	YES	YES	1
2500	125	289	10AEF20	310	134	1470	319.0	YES	YES	YES	1
2500	125	289	8AEF17A	304	132	1760	316.0	YES	YES	YES	1
2500	125	289	8AEF17Q	304	132	1760	284.0	YES	YES	YES	1
2500	125	289	8AEF15A	323	140	2100	321.0	YES	YES	YES	1
2500	125	289	8AEF17Q	306	132	2100	293.0	YES	YES	YES	1
2500	127	293	10AEF20	316	137	1470	328.0	YES	YES	YES	1
2500	130	300	8AEF17A	309	134	1760	334.0	YES	YES	YES	1
2500	130	300	8AEF20G	337	146	1760	286.0	YES	YES	YES	1
2500	130	300	8AEF15A	334	145	2100	334.0	YES	YES	YES	1
2500	130	300	8AEF17Q	317	137	2100	306.0	YES	YES	YES	1
2500	135	312	8AEF17A	315	136	1760	352.0	YES	YES	YES	1
2500	135	312	8AEF20G	349	151	1760	298.0	YES	YES	YES	1
2500	135	312	8AEF15A	347	150	2100	348.0	YES	YES	YES	1
2500	135	312	8AEF17Q	328	142	2100	319.0	YES	YES	YES	1
2500	137	317	8AEF17A	320	139	1760	370.0	YES	YES	YES	1
2500	140	323	8AEF20G	359	155	1760	311.0	YES	YES	YES	1
2500	140	323	8AEF15A	360	156	2100	377.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
2500	140	323	8AEF17Q	339	147	2100	337.0	YES	YES	YES	1
2500	141	326	8HYF23B	380	165	1475	390.0	NO	NO	YES	1
2500	142	328	8HYF23C	350	152	1475	400.0	YES	NO	YES	1
2500	144	333	8THF14E	420	182	2800	278.0	YES	NO	YES	1
2500	145	335	8AEF20G	371	161	1760	326.0	YES	YES	YES	1
2500	145	335	8AEF15A	365	158	2100	395.0	YES	YES	YES	1
2500	145	335	8AEF17Q	351	152	2100	354.0	YES	YES	YES	1
2500	150	347	8AEF20G	383	166	1760	341.0	YES	YES	YES	1
2500	150	347	8AEF15A	375	162	2100	415.0	YES	YES	YES	1
2500	150	347	8AEF17Q	363	157	2100	372.0	YES	YES	YES	1
2500	155	358	8AEF20G	393	170	1760	354.0	YES	YES	YES	1
2500	155	358	8AEF15A	383	166	2100	420.0	YES	YES	YES	1
2500	155	358	8AEF20G	387	168	2100	389.0	YES	YES	YES	1
2500	160	370	8AEF20G	404	175	1760	368.0	YES	YES	YES	1
2500	160	370	8AEF20G	399	173	2100	402.0	YES	YES	YES	1
2500	161	372	8HYF23A	395	171	1475	500.0	NO	NO	YES	1
2500	163	377	8THF14E	470	203	2950	324.0	NO	NO	YES	1
2500	164	379	8THF14D	460	199	2800	353.0	YES	NO	YES	1
2500	165	381	8AEF20G	414	179	1760	382.0	YES	YES	YES	1
2500	165	381	8AEF20G	410	177	2100	415.0	YES	YES	YES	1
2500	167	386	8HYF23C	405	175	1475	530.0	YES	NO	YES	1
2500	170	393	8AEF20G	423	183	1760	394.0	YES	YES	YES	1
2500	170	393	8AEF20G	422	183	2100	428.0	YES	YES	YES	1
2500	175	404	8AEF20G	434	188	2100	440.0	YES	YES	YES	1
2500	180	416	8AEF20G	446	193	2100	451.0	YES	YES	YES	1
2500	185	427	8AEF20G	457	198	2100	463.0	YES	YES	YES	1
2500	188	434	8THF14D	520	225	2960	423.0	YES	NO	YES	1
2500	190	439	8AEF20G	469	203	2100	474.0	YES	YES	YES	1
2500	195	450	8AEF20G	481	208	2100	485.0	YES	YES	YES	1
2500	200	462	8AEF20G	493	213	2100	500.0	YES	YES	YES	1
2500	202	467	8AEF20G	498	216	2100	508.0	YES	YES	YES	1
3000	72	166	12HYF20D	182	79	1480	220.0	NO	NO	YES	1
3000	75	173	10AEF16	197	85	1760	236.0	YES	YES	YES	1
3000	80	185	10AEF16	211	91	1760	257.0	YES	YES	YES	1
3000	82	189	12AF19G	196	85	1480	304.0	YES	YES	YES	1
3000	83	192	12AF19G	196	85	1480	304.0	YES	YES	YES	1
3000	85	196	12AF19G	208	90	1480	310.0	YES	YES	YES	1
3000	85	196	10AEF16	221	96	1760	276.0	YES	YES	YES	1
3000	85	196	10AEF20	239	103	1760	226.0	YES	YES	YES	1
3000	90	208	12AF19G	219	95	1480	330.0	YES	YES	YES	1
3000	90	208	10AEF16	232	100	1760	292.0	YES	YES	YES	1
3000	90	208	10AEF20	248	107	1760	240.0	YES	YES	YES	1
3000	92	212	10AEF16	241	104	1900	290.9	YES	NO	NO	1
3000	95	219	12AF19G	231	100	1480	350.0	YES	YES	YES	1
3000	95	219	10AEF16	245	106	1760	316.0	YES	YES	YES	1
3000	95	219	10AEF20	257	111	1760	256.0	YES	YES	YES	1
3000	95	219	10AEF16	246	106	1900	303.0	YES	NO	NO	1
3000	97	224	12HYF20C	235	102	1480	350.0	NO	NO	YES	1
3000	100	231	12AF19G	243	105	1480	370.0	YES	YES	YES	1
3000	100	231	10AEF16	257	111	1760	342.0	YES	YES	YES	1
3000	100	231	10AEF20	267	116	1760	273.0	YES	YES	YES	1
3000	100	231	10AEF16	258	112	1900	327.3	YES	NO	NO	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
3000	100	231	8AEF15A	267	116	2100	259.0	YES	YES	YES	1
3000	102	236	10AEF20	279	121	1900	291.0	YES	YES	YES	1
3000	105	243	12AF19G	254	110	1480	390.0	YES	YES	YES	1
3000	105	243	10AEF16	268	116	1760	370.0	YES	YES	YES	1
3000	105	243	10AEF20	278	120	1760	289.0	YES	YES	YES	1
3000	105	243	10AEF16	269	116	1900	352.0	YES	NO	NO	1
3000	105	243	10AEF20	284	123	1900	293.0	YES	YES	YES	1
3000	105	243	8AEF15A	281	122	2100	274.0	YES	YES	YES	1
3000	110	254	12AF19G	266	115	1480	410.0	YES	YES	YES	1
3000	110	254	10AEF16	280	121	1760	395.0	YES	YES	YES	1
3000	110	254	10AEF20	287	124	1760	302.0	YES	YES	YES	1
3000	110	254	10AEF16	279	121	1900	374.5	YES	NO	NO	1
3000	110	254	10AEF20	293	127	1900	310.0	YES	YES	YES	1
3000	110	254	8AEF15A	295	128	2100	290.0	YES	YES	YES	1
3000	113	261	12HYF20D	300	130	1480	400.0	NO	NO	YES	1
3000	115	266	12AF19G	277	120	1480	430.0	YES	YES	YES	1
3000	115	266	10AEF16	291	126	1760	413.0	YES	YES	YES	1
3000	115	266	10AEF20	298	129	1760	320.0	YES	YES	YES	1
3000	115	266	10AEF16	291	126	1900	399.3	YES	NO	NO	1
3000	115	266	10AEF20	303	131	1900	328.0	YES	YES	YES	1
3000	115	266	8AEF15A	309	134	2100	305.0	YES	YES	YES	1
3000	118	272	10AEF20	331	143	1470	324.0	YES	NO	YES	1
3000	119	275	12AF19G	289	125	1480	454.0	YES	YES	YES	1
3000	120	277	10AEF16	302	131	1760	436.0	YES	YES	YES	1
3000	120	277	10AEF20	311	135	1760	337.0	YES	YES	YES	1
3000	120	277	10AEF16	302	131	1900	422.2	YES	NO	NO	1
3000	120	277	10AEF20	313	135	1900	346.0	YES	YES	YES	1
3000	120	277	8AEF15A	323	140	2100	320.0	YES	YES	YES	1
3000	121	280	12HYF20C	309	134	1480	505.0	NO	NO	YES	1
3000	123	284	10AEF16	305	132	1760	436.0	YES	YES	YES	1
3000	125	289	10AEF20	324	140	1760	356.0	YES	YES	YES	1
3000	125	289	10AEF16	313	135	1900	447.3	YES	NO	NO	1
3000	125	289	10AEF20	324	140	1900	363.0	YES	YES	YES	1
3000	125	289	8AEF15A	335	145	2100	335.0	YES	YES	YES	1
3000	130	300	10AEF20	335	145	1760	369.0	YES	YES	YES	1
3000	130	300	10AEF16	324	140	1900	470.4	YES	NO	NO	1
3000	130	300	10AEF20	335	145	1900	381.0	YES	YES	YES	1
3000	130	300	8AEF15A	346	150	2100	348.0	YES	YES	YES	1
3000	135	312	8HYF23C	350	152	1475	400.0	YES	NO	YES	1
3000	135	312	10AEF20	349	151	1760	383.0	YES	YES	YES	1
3000	135	312	10AEF16	336	145	1900	495.7	YES	NO	NO	1
3000	135	312	10AEF20	346	150	1900	398.0	YES	YES	YES	1
3000	135	312	8AEF15A	360	156	2100	364.0	YES	YES	YES	1
3000	140	323	10AEF20	360	156	1760	396.0	YES	YES	YES	1
3000	140	323	10AEF16	347	150	1900	519.1	YES	NO	NO	1
3000	140	323	10AEF20	357	155	1900	415.0	YES	YES	YES	1
3000	140	323	8AEF15A	364	158	2100	377.0	YES	YES	YES	1
3000	144	333	10AEF16	352	152	1900	530.0	YES	NO	NO	1
3000	145	335	10AEF20	374	162	1760	414.0	YES	YES	YES	1
3000	145	335	10AEF20	368	159	1900	432.0	YES	YES	YES	1
3000	145	335	8AEF15A	370	160	2100	395.0	YES	YES	YES	1
3000	150	347	10AEF20	385	167	1760	432.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
3000	150	347	10AEF20	379	164	1900	448.0	YES	YES	YES	1
3000	150	347	8AEF15A	376	163	2100	415.0	YES	YES	YES	1
3000	155	358	10AEF20	397	172	1760	451.0	YES	YES	YES	1
3000	155	358	10AEF20	389	168	1900	460.0	YES	YES	YES	1
3000	160	370	10AEF20	409	177	1760	471.0	YES	YES	YES	1
3000	160	370	10AEF20	405	175	1900	478.0	YES	YES	YES	1
3000	162	374	8HYF23C	405	175	1475	530.0	YES	NO	YES	1
3000	165	381	10AEF20	419	181	1760	493.0	YES	YES	YES	1
3000	165	381	10AEF20	417	181	1900	493.0	YES	YES	YES	1
3000	170	393	10AEF20	430	186	1760	517.0	YES	YES	YES	1
3000	170	393	10AEF20	429	186	1900	509.0	YES	YES	YES	1
3000	175	404	10AEF20	441	191	1760	540.0	YES	YES	YES	1
3000	175	404	10AEF20	439	190	1900	525.0	YES	YES	YES	1
3000	180	416	10AEF20	455	197	1760	560.0	YES	YES	YES	1
3000	180	416	10AEF20	452	196	1900	547.0	YES	YES	YES	1
3000	185	427	10AEF20	464	201	1900	566.0	YES	YES	YES	1
3000	190	439	10AEF20	475	206	1900	587.0	YES	YES	YES	1
3000	195	450	10AEF20	486	210	1900	614.0	YES	YES	YES	1
3000	200	462	10AEF20	498	216	1900	640.0	YES	YES	YES	1
3000	205	474	10AEF20	509	220	1900	667.0	YES	YES	YES	1
3000	210	485	10AEF20	519	225	1900	688.0	YES	YES	YES	1
3500	69	159	12HYF20D	182	79	1480	220.0	NO	NO	YES	1
3500	75	173	10AEF16	207	90	1760	249.0	YES	YES	YES	1
3500	80	185	12AF19G	196	85	1480	304.0	YES	YES	YES	1
3500	80	185	10AEF16	217	94	1760	270.0	YES	YES	YES	1
3500	85	196	12AF19G	208	90	1480	320.0	YES	YES	YES	1
3500	85	196	10AEF16	228	99	1760	289.0	YES	YES	YES	1
3500	89	205	10AEF16	243	105	1900	296.3	YES	NO	NO	1
3500	90	208	12AF19G	219	95	1480	340.0	YES	YES	YES	1
3500	90	208	10AEF16	239	103	1760	310.0	YES	YES	YES	1
3500	90	208	10AEF16	243	105	1900	296.3	YES	NO	NO	1
3500	95	219	12AF19G	231	100	1480	360.0	YES	YES	YES	1
3500	95	219	10AEF16	251	109	1760	331.0	YES	YES	YES	1
3500	95	219	10AEF16	253	110	1900	318.1	YES	NO	NO	1
3500	95	219	10AEF20	279	121	1900	291.0	YES	YES	YES	1
3500	96	222	12HYF20C	235	102	1480	350.0	NO	NO	YES	1
3500	100	231	12AF19G	243	105	1480	380.0	YES	YES	YES	1
3500	100	231	10AEF16	264	114	1760	356.0	YES	YES	YES	1
3500	100	231	10AEF16	264	114	1900	342.0	YES	NO	NO	1
3500	100	231	10AEF20	288	125	1900	301.0	YES	YES	YES	1
3500	105	243	12AF19G	254	110	1480	400.0	YES	YES	YES	1
3500	105	243	10AEF16	274	119	1760	385.0	YES	YES	YES	1
3500	105	243	10AEF16	276	119	1900	366.0	YES	NO	NO	1
3500	105	243	10AEF20	297	129	1900	318.0	YES	YES	YES	1
3500	110	254	12AF19G	266	115	1480	420.0	YES	YES	YES	1
3500	110	254	10AEF16	286	124	1760	409.0	YES	YES	YES	1
3500	110	254	10AEF16	286	124	1900	388.2	YES	NO	NO	1
3500	110	254	10AEF20	306	132	1900	335.0	YES	YES	YES	1
3500	111	256	12HYF20D	300	130	1480	400.0	NO	NO	YES	1
3500	115	266	12AF19G	277	120	1480	440.0	YES	YES	YES	1
3500	115	266	10AEF16	297	129	1760	436.0	YES	YES	YES	1
3500	115	266	10AEF16	297	129	1900	412.6	YES	NO	NO	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
3500	115	266	10AEF20	317	137	1900	353.0	YES	YES	YES	1
3500	117	270	12AF19G	289	125	1480	454.0	YES	YES	YES	1
3500	119	275	12HYF20C	309	134	1480	505.0	NO	NO	YES	1
3500	120	277	10AEF16	305	132	1760	436.0	YES	YES	YES	1
3500	120	277	10AEF20	329	142	1760	361.0	YES	YES	YES	1
3500	120	277	10AEF16	308	133	1900	435.0	YES	NO	NO	1
3500	120	277	10AEF20	328	142	1900	370.0	YES	YES	YES	1
3500	125	289	10AEF20	342	148	1760	375.0	YES	YES	YES	1
3500	125	289	10AEF16	319	138	1900	459.6	YES	NO	NO	1
3500	125	289	10AEF20	339	147	1900	387.0	YES	YES	YES	1
3500	130	300	10AEF20	353	153	1760	388.0	YES	YES	YES	1
3500	130	300	10AEF16	330	143	1900	482.3	YES	NO	NO	1
3500	130	300	10AEF20	350	152	1900	404.0	YES	YES	YES	1
3500	135	312	10AEF20	366	158	1760	402.0	YES	YES	YES	1
3500	135	312	10AEF16	341	148	1900	507.1	YES	NO	NO	1
3500	135	312	10AEF20	361	156	1900	422.0	YES	YES	YES	1
3500	140	323	10AEF20	377	163	1760	419.0	YES	YES	YES	1
3500	140	323	10AEF16	352	152	1900	530.0	YES	NO	NO	1
3500	140	323	10AEF20	372	161	1900	439.0	YES	YES	YES	1
3500	142	328	10AEF16	352	152	1900	530.0	YES	NO	NO	1
3500	145	335	10AEF20	390	169	1760	439.0	YES	YES	YES	1
3500	145	335	10AEF20	384	166	1900	454.0	YES	YES	YES	1
3500	150	347	10AEF20	402	174	1760	458.0	YES	YES	YES	1
3500	150	347	10AEF20	397	172	1900	469.0	YES	YES	YES	1
3500	155	358	10AEF20	412	178	1760	478.0	YES	YES	YES	1
3500	155	358	10AEF20	406	176	1900	480.0	YES	YES	YES	1
3500	160	370	10AEF20	423	183	1760	500.0	YES	YES	YES	1
3500	160	370	10AEF20	421	182	1900	498.0	YES	YES	YES	1
3500	165	381	10AEF20	433	187	1760	522.0	YES	YES	YES	1
3500	165	381	10AEF20	433	187	1900	515.0	YES	YES	YES	1
3500	170	393	10AEF20	445	193	1760	548.0	YES	YES	YES	1
3500	170	393	10AEF20	442	191	1900	530.0	YES	YES	YES	1
3500	175	404	10AEF20	460	199	1760	560.0	YES	YES	YES	1
3500	175	404	10AEF20	455	197	1900	553.0	YES	YES	YES	1
3500	180	416	10AEF20	467	202	1900	572.0	YES	YES	YES	1
3500	185	427	10AEF20	478	207	1900	594.0	YES	YES	YES	1
3500	190	439	10AEF20	488	211	1900	617.0	YES	YES	YES	1
3500	195	450	10AEF20	500	216	1900	644.0	YES	YES	YES	1
3500	200	462	10AEF20	511	221	1900	670.0	YES	YES	YES	1
3500	205	473	10AEF20	519	225	1900	688.0	YES	YES	YES	1
4000	66	152	12HYF20D	182	79	1480	220.0	NO	NO	YES	1
4000	78	180	12AF19G	196	85	1480	304.0	YES	YES	YES	1
4000	80	185	12AF19G	208	90	1480	310.0	YES	YES	YES	1
4000	84	194	10AEF16	238	103	1900	285.6	YES	NO	NO	1
4000	85	196	12AF19G	219	95	1480	330.0	YES	YES	YES	1
4000	90	208	12AF19G	231	100	1480	350.0	YES	YES	YES	1
4000	90	208	10AEF16	251	109	1900	312.9	YES	NO	NO	1
4000	94	217	12HYF20C	235	102	1480	350.0	NO	NO	YES	1
4000	95	219	12AF19G	243	105	1480	370.0	YES	YES	YES	1
4000	95	219	10AEF16	261	113	1900	334.4	YES	NO	NO	1
4000	100	231	12AF19G	254	110	1480	390.0	YES	YES	YES	1
4000	100	231	10AEF16	270	117	1760	375.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
4000	100	231	10AEF16	272	118	1900	358.1	YES	NO	NO	1
4000	105	243	12AF19G	266	115	1480	410.0	YES	YES	YES	1
4000	105	243	10AEF16	281	122	1760	402.0	YES	YES	YES	1
4000	105	243	10AEF16	283	123	1900	381.8	YES	NO	NO	1
4000	108	249	12HYF20D	300	130	1480	400.0	NO	NO	YES	1
4000	110	254	12AF19G	277	120	1480	430.0	YES	YES	YES	1
4000	110	254	10AEF16	293	127	1760	426.0	YES	YES	YES	1
4000	110	254	10AEF16	293	127	1900	403.7	YES	NO	NO	1
4000	112	258	12AF19G	289	125	1760	458.0	YES	YES	YES	1
4000	115	266	12AF19G	289	125	1480	450.0	YES	YES	YES	1
4000	115	266	10AEF16	305	132	1760	436.0	YES	YES	YES	1
4000	115	266	12AF19G	293	127	1760	463.0	YES	YES	YES	1
4000	115	266	10AEF16	304	132	1900	427.7	YES	NO	NO	1
4000	117	270	10AEF16	305	132	1760	436.0	YES	YES	YES	1
4000	118	273	12HYF20C	309	134	1480	505.0	NO	NO	YES	1
4000	120	277	12AF19G	307	133	1760	491.0	YES	YES	YES	1
4000	120	277	10AEF16	315	136	1900	449.8	YES	NO	NO	1
4000	125	289	12AF19G	321	139	1760	520.0	YES	YES	YES	1
4000	125	289	10AEF16	326	141	1900	474.0	YES	NO	NO	1
4000	130	300	12AF19G	335	145	1760	550.0	YES	YES	YES	1
4000	130	300	10AEF16	336	145	1900	496.3	YES	NO	NO	1
4000	135	312	12AF19G	349	151	1760	581.0	YES	YES	YES	1
4000	135	312	10AEF16	348	151	1900	520.7	YES	NO	NO	1
4000	139	321	10AEF16	352	152	1900	530.0	YES	NO	NO	1
4000	140	323	12AF19G	363	157	1760	602.0	YES	YES	YES	1
4000	145	335	12AF19G	376	163	1760	638.0	YES	YES	YES	1
4000	150	347	12AF19G	390	169	1760	662.0	YES	YES	YES	1
4000	155	358	12AF19G	401	174	1760	678.0	YES	YES	YES	1
4000	161	372	12AF19G	414	179	1760	711.0	YES	YES	YES	1
4500	63	146	12HYF20D	182	79	1480	220.0	NO	NO	YES	1
4500	76	176	12AF19G	196	85	1480	304.0	YES	YES	YES	1
4500	80	185	12AF19G	208	90	1480	320.0	YES	YES	YES	1
4500	80	185	10AEF16	238	103	1900	286.4	YES	NO	NO	1
4500	85	196	12AF19G	219	95	1480	340.0	YES	YES	YES	1
4500	85	196	10AEF16	248	107	1900	307.7	YES	NO	NO	1
4500	90	208	12AF19G	231	100	1480	360.0	YES	YES	YES	1
4500	90	208	10AEF16	259	112	1900	331.0	YES	NO	NO	1
4500	91	210	12HYF20C	235	102	1480	350.0	NO	NO	YES	1
4500	93	215	10AEF16	265	115	1760	360.0	YES	YES	YES	1
4500	95	219	12AF19G	243	105	1480	380.0	YES	YES	YES	1
4500	95	219	10AEF16	266	115	1760	362.0	YES	YES	YES	1
4500	95	219	10AEF16	269	116	1900	352.4	YES	NO	NO	1
4500	100	231	12AF19G	254	110	1480	400.0	YES	YES	YES	1
4500	100	231	10AEF16	282	122	1760	394.0	YES	YES	YES	1
4500	100	231	10AEF16	280	121	1900	375.8	YES	NO	NO	1
4500	105	243	12AF19G	266	115	1480	420.0	YES	YES	YES	1
4500	105	243	12HYF20D	300	130	1480	400.0	NO	NO	YES	1
4500	105	243	10AEF16	294	127	1760	420.0	YES	YES	YES	1
4500	105	243	10AEF16	291	126	1900	399.4	YES	NO	NO	1
4500	109	252	12AF19G	289	125	1760	458.0	YES	YES	YES	1
4500	110	254	12AF19G	277	120	1480	440.0	YES	YES	YES	1
4500	110	254	10AEF16	302	131	1760	436.0	YES	YES	YES	1

(1) Type Pump: 1= Horizontal Split Case Single Stage 3=End Suction Frame Mounted 4= Horizontal Split Case Multistage

US Gpm	Head		Pump Model	Shut-Off Head Feet	Shut -Off Head Psi	Speed Rpm	Pump Max Bhp	UL Listed for Engine Drive	ULC Listed for Engine Drive	FM Approved for Engine Drive	Type Pump (1)
	Psi	Feet									
4500	110	254	12AF19G	291	126	1760	463.0	YES	YES	YES	1
4500	110	254	10AEF16	301	130	1900	421.0	YES	NO	NO	1
4500	113	261	12AF19G	289	125	1480	454.0	YES	YES	YES	1
4500	114	263	10AEF16	302	131	1760	436.0	YES	YES	YES	1
4500	115	266	12AF19G	302	131	1760	491.0	YES	YES	YES	1
4500	115	266	10AEF16	312	135	1900	444.7	YES	NO	NO	1
4500	116	268	12HYF20C	309	134	1480	505.0	NO	NO	YES	1
4500	120	277	12AF19G	317	137	1760	514.0	YES	YES	YES	1
4500	120	277	10AEF16	322	139	1900	466.6	YES	NO	NO	1
4500	125	289	12AF19G	328	142	1760	544.0	YES	YES	YES	1
4500	125	289	10AEF16	334	145	1900	490.5	YES	NO	NO	1
4500	130	300	12AF19G	342	148	1760	568.0	YES	YES	YES	1
4500	130	300	10AEF16	344	149	1900	512.5	YES	NO	NO	1
4500	135	312	12AF19G	353	153	1760	584.0	YES	YES	YES	1
4500	135	312	10AEF16	352	152	1900	530.0	YES	NO	NO	1
4500	140	323	12AF19G	367	159	1760	618.0	YES	YES	YES	1
4500	145	335	12AF19G	378	164	1760	651.0	YES	YES	YES	1
4500	150	347	12AF19G	390	169	1760	652.0	YES	YES	YES	1
4500	155	358	12AF19G	403	174	1760	684.0	YES	YES	YES	1
4500	160	370	12AF19G	414	179	1760	711.0	YES	YES	YES	1
5000	106	245	12AF19G	289	125	1760	458.0	YES	YES	NO	1
5000	110	254	12AF19G	300	130	1760	470.0	YES	YES	YES	1
5000	115	266	12AF19G	314	136	1760	497.0	YES	YES	YES	1
5000	120	277	12AF19G	325	141	1760	520.0	YES	YES	YES	1
5000	125	289	12AF19G	337	146	1760	550.0	YES	YES	YES	1
5000	130	300	12AF19G	351	152	1760	581.0	YES	YES	YES	1
5000	135	312	12AF19G	363	157	1760	596.0	YES	YES	YES	1
5000	140	323	12AF19G	376	163	1760	632.0	YES	YES	YES	1
5000	145	335	12AF19G	390	169	1760	656.0	YES	YES	YES	1
5000	150	347	12AF19G	398	172	1760	670.0	YES	YES	YES	1
5000	155	358	12AF19G	411	178	1760	704.0	YES	YES	YES	1
5000	157	363	12AF19G	414	179	1760	711.0	YES	YES	YES	1

FIRE PUMP FITTINGS ORDERING INFORMATION

(Read Carefully Before Ordering)
ALL REQUESTED INFORMATION MUST BE SUPPLIED ON APPLICABLE ITEMS

Item No.

1. ***Eccentric Suction Reducer*** Select size depending on local authority having jurisdiction. When not shown, suction flange is already minimum or exceeds minimum size of NFPA Pamphlet 20, therefore this item not required.

2. ***Concentric Discharge Increaser*** Ditto information for Item No. 1.

4. ***Commercial Discharge Tee with 90^0 Relief Valve Elbow:*** Select size depending on local authority having jurisdiction.

The following applies to items (5) and (6) when used on Electric Motor Driven Fire Pump units:

> The *current NFPA Pamphlet #20 states:*
> "Where pumps are driven by constant speed motors and the pump shut-off pressure plus the static suction pressure exceeds the pressure for which the system components are rated, relief valves are required."

Because of many questions on the application rules - the following clarifications are made.

A. The fire pump is considered a "system component".

B. Standard single stage horizontal fire pumps with 125 lb ANSI have a maximum working pressure of 175 psi at fluid temperatures up to 1500F. This is the same limit common to many commercial fitting components in the fire protection system.

C. The fire protection system engineer establishes the relief valve requirement by choice of system component pressure ratings for "borderline" systems.

D. When 125 1b. ANSI flanged system components are used, the pump with 125 1b. flanges needs a relief valve only if its shutoff pressure plus maximum static suction pressure exceeds 175 psig. In this case, Peerless Pump can only recommend that the pilot operated relief valve be used since it may be set at 167 psig maximum and pass its rated capacity with no more than 175 psig resultant system pressure. (The direct acting relief valve is much less accurate and requires 25% excess pressure over reset pressure to relieve its rated capacity). A centrifugal jockey pump must also have a relief valve if its discharge pressure can exceed 175 psig.

E. When 250 lb. ANSI flanged system components have been specified by the system engineer and the pump can be a single stage pump - request a factory quote for the pump with a 250 lb. discharge flange and submit maximum static suction pressure and pump rating conditions. The pump will rarely need a relief valve. However, the maximum working pressure for the pump casing may not be identical to the maximum working pressure rating for a 250 lb. ANSI flange.

F. "Borderline" pressures for the TUF and TUTF pumps require a full disclosure of system pressures and components for a factory quote.

G. Although permitted by NFPA Pamphlet #20, relief valves on constant speed electric motor driven pumps may not accomplish desired results and their use must not be encouraged by Peerless Pump Company.

Continued on page 46

FIRE PUMP FITTINGS ORDERING INFORMATION *continued* -

Item No.

5. Direct Acting Relief Valve: **A "** main relief valve" Is required for all units connected to an adjustable speed driver (engine or steam turbine). A "main relief valve" may also be required on a constant speed driver (electric motor) if the pump shut off pressure plus the static suction pressure exceeds the pressure for which the system is designed to operate. 3, 4 and 6 inch valves are Kunkle Model 218CS164. 8 inch is Kunkle 252R80W (not listed or approved).

Select the "main relief valve" based on the following.

a. Pump rated GPM and pump MWP (Maximum Working Pressure) shown in this section.

b. Valve size and type based on the requirement ~f local insuring authorities. Some local insuring authorities may require a "direct acting" valve. Note the UL listing and FM approval status of direct acting valves.

c. Set range: The "main relief valve" should be set to open at a pressure slightly higher than the normal operating pressure of the pump. Eight inch valve for 125 psi MWP is furnished with a special spring for each job. Advise the approximate pressure setting requirement when this valve is used.

d. A "direct acting relief valve" will start to open and drip at approximately 80% of the set pressure. A valve set at 170 psi will start to drip at approximately 136 psi.

6. Pilot operated Relief Valve: A "main relief valve" is required for all units connected to an adjustable speed driver (engine or steam turbine). A "main relief valve" may also be required on a constant speed driver (electric motor) if the pump shut off pressure plus the static suction pressure exceeds the pressure for which the system is designed to operate. All valve sizes are Watts-Muesco Model 1116FM.

Select the "main relief valve" based on the following.

a. Pump rated GPM and pump MWP (Maximum Working Pressure) shown in this section.

b. Valve size and type based on there requirement of local insuring authorities. Some local insuring authorities may require a "pilot operated" valve. Note the UL listing and FM approval status of pilot operated valves.

c. Set range: The "main relief valve" should be set to open at a pressure slightly higher than the normal operating pressure of the pump.

d. A "pilot operated relief valve" will start to open and drip at approximately 98% of the set pressure. A valve set at 170 psi will start to drip at approximately 166 psi.

e. When piping two (2) or main relief valves into a common header, direct acting relief valves should be used. Pilot operated relief valves are not suitable because reverse flow can result through the valve which is not operating. If pilot operated valves are used, a check valve must be installed to prevent reverse flow.

Cla-Val Model 2050B4KG1 or OCV Model 108FCA pilot duty valves are available at extra cost, but listing status and dimensions are different than Watts-Muesco, refer to factory for pricing and dimensions if either manufacturer is required.

FIRE PUMP FITTINGS
ORDERING INFORMATION
—continued—

Item No.

7. ***Overflow Cone:*** Select size depending on relief valve size. One design Is of the enclosed overflow type with sight glass. Maximum allowable back pressure is 100 psi.

9. ***Hose Valve Head:*** Select size depending on GPM and number of hose valves required. When the pipe between the hose valve head and connection to the pump discharge pipe is over 15 feet in length, the next larger pipe size must be used (NFPA Pamphlet #20 paragraph 2-14.3.4).

10. ***Angle Type Hose Valves with Caps and Chains:***

Select hose valve thread as required by local authority.
The factory has threading details on the following standards:
A. National Standard Threads
(The following require price adder for special threading)
B. Chicago Fire Department Standard Hose Threads
C. Toledo Standard Thread
D. New York Corporation Standard Thread
E. Detroit Fire Department Thread
F. Cleveland Standard Thread
G. Akron Standard Thread
H. Cincinnati Old Standard Thread
I. Iron Pipe Standard

If any other than above threading Is required, full threading details (sketch, drawing or template) (drawing preferred) must be furnished.

13. ***Casing Relief Valve:*** A casing relief valve is required by NFPA Pamphlet 20 on all automatic or manually controlled turbine or electric motor driven units. Suction pressure must be specified to select proper range relief valve. (Not required on engine driven units.)

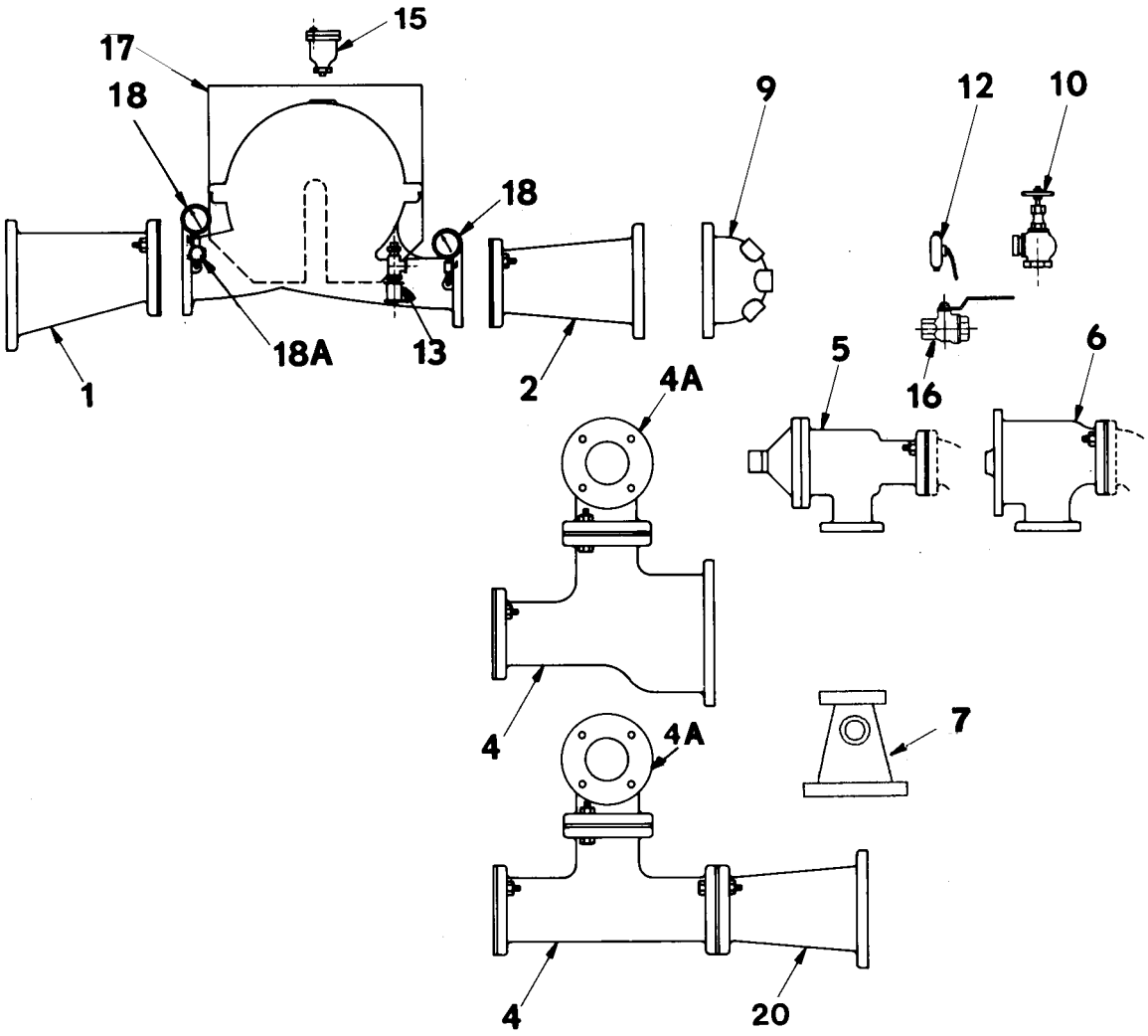
15. ***Automatic Air Release Valve:*** Required on *all* units, see page 52 for maximum working pressure and UL listing FM approval status.

16. ***Drain Valve:*** Required on outside hose valve head (Item 9) when branch line is subject to freezing. Formerly was Ball Drip Valve.

17. ***Splash Partition:*** Required by NFPA Pamphlet 20 when Inside Hose Valve Head or Concentric Discharge Increaser with Hose Valve Taps is used. For motor driven units only.

18. ***Suction and Discharge Gauges***: Required by NFPA Pamphlet 20. Gauge Protector for Suction Gauge furnished when required to protect gauge (Item 18A) (300 PSI MWP fittings only). Suction Gauge range is 15 psi vacuum -0- 300 PSI on 175 PSI MWP fittings and 300 PSI MWP fittings. Discharge Gauge range is 0-300 PSI on 175 PSI MWP fittings and 0-600 PSI on 300 PSI MWP fittings. Both gauges are 3.5 Inches In diameter and are furnished with gauge cocks and necessary pipe fittings to connect to pump flanges.

FIRE PUMP FITTINGS
ORDERING INFORMATION
-continued-



ITEM NO. DESCRIPTION

1 Eccentric Suction Reducer *	2 Concentric Discharge Reducer *
4 Commercial Discharge Tee *	4A Relief Valve Elbow (included with Item 4)
5 Direct Acting Relief Valve	6 Pilot Operated Relief Valve
7 Overflow Cone *	9 Hose Valve Head *
10 Angle Hose Valve	12 Hose Valve Cap & Chain
13 Casing Relief Valve	15 Automatic Air Release Valve
16 Drain Valve	17 Splash Partition
18 Suction & Discharge Gauge Set	18A Gauge Protector (300 psi MWP Units Only)
20 Concentric Reducer (required in some Tee assemblies) *	

* At Peerless Pump Company's option, these items may be furnished of fabricated steel.

Typical Specifications

GENERAL: The pumps furnished for fire protection service shall be supplied with the specified drivers, controls and pump accessory items by the pump manufacturer. The pump, driver and control shall be

□ Underwriters Laboratories (UL) Listed
□ Underwriters Laboratories-Canada (ULC) Listed

for fire protection service. The pumping equipment shall be installed as recommended in the National Fire Protection Association (NFPA) Pamphlet 20, Standard for the Installation of Centrifugal Fire Pumps. The fire pump shall be designed to deliver _____ U.S. gallons per minute (gpm) at a total differential pressure of ___ psi. The fire pump shall also be capable of delivering not less than 150% of rated flow at not less than 65% rated head. Peerless Pump model _____ shall be furnished with driver, controllers and accessories as detailed in this specification. Pump manufacturer shall have unit responsibility for the proper operation of the complete unit assembly as indicated by field acceptance tests.

MANUFACTURER'S FACTORY TESTS: Each individual pump shall be run tested prior to shipment. Inline pump casings shall be hydrostatically tested at a pressure not less than one and one-half times the no flow (shut off) head of the pump's maximum diameter impeller but in no case less than 250 psig.

FIELD ACCEPTANCE TEST: A field acceptance performance test shall be conducted upon completion of pump installation. The test shall be made by flowing water through calibrated nozzles, approved flow meters or other such accurate devices as may be selected by the authority having jurisdiction. The test shall be conducted as recommended in NFPA Pamphlet 20 by:

□ the installing contractor
□ the owner
□ the owner's representative
□ (other)_____

in the presence of the authority having jurisdiction and with that authority's final approval and acceptance. Failure to submit documentation of factory and field tests will be just cause for equipment rejection.

INLINE FIRE PUMPS: The fire pump shall be a Peerless Pump model _____ vertical shaft Inline pump. The pump shall be specifically labeled for fire service system. The pump shall be connected to the (fire standpipe)(fire sprinkler)(underground fire main) system. The suction supply for the fire pump shall be from a (public service water main)(elevated storage tank) (underground reservoir) at a maximum pressure of _____ pounds per square inch (psi) and a minimum pressure of _____(psi).The pump casing assembly shall be cast iron with _____inch 125 pound rated suction and _____inch (125)(250) pound rating discharge flange connections machined to American National Standards Institute (ANSI) dimensions.

ELECTRIC MOTORS: The pump driver shall be a vertical solid shaft induction motor rated __ horsepower, 3 phase, (50)(60) Hertz with (Open Drip Proof) (Totally Enclosed) NEMA enclosure for operation on _____ volt service.
The motor locked rotor current shall not exceed the values stated in NFPA Pamphlet 20, The motor shall be constructed so that the total hydraulic and static thrust of the pump's rotating assembly can be carried by the motor thrust bearing(s). The motor shall mount directly on the pump adapter with a registered fit for correct shaft alignment.

ELECTRIC MOTOR CONTROLLERS: The automatic electric motor controller shall be (UL listed)(FM approved)(ULC Listed) specifically for fire pump service. The controller shall be designed for

□ full voltage
□ part winding
□ primary resistance reduced voltage
□ wye-delta open transition
□ wye-delta closed transition
□ auto-transformer
□ solid state (soft start)

type starting. The controller shall be rated for the horsepower specified in this specification's electric motors section. The controller shall be capable of interrupting a short circuit current at least equal to the available short circuit current in the controller supply circuit. This fire pump controller installation requires an withstand rating of not less than _____amps RMS symmetrical at an operating voltage of _____ volts.
The controller shall be:

□ floor or wall mounted for electrical connection to the motor by the equipment installer.
□ mounted on a common base with the fire pump and wired to the motor by the pump manufacturer.

FITTINGS: The pump manufacturer shall furnish piping accessory items for the pump installation which will adapt the pump connections to the fire protection system and test connection as follows. Fittings subjected to pump discharge pressure shall be ANSI (125)(250) pound rating. Fittings subjected to suction pressure shall be ANSI 125 pound rating.

□ eccentric tapered suction reducer
□ concentric tapered discharge increaser
□ hose valve test header
□ hose valves with caps and chains
□ automatic air release valve
□ hose valve head drain valve
□ suction and discharge pressure gauges

Blank

Typical Specifications for Horizontal Fire Pumps

GENERAL: The pumps furnished for fire protection service shall be supplied with the specified drivers, controls and pump accessory items by the pump manufacturer. The pump, driver and control shall be

☐ Underwriters Laboratories (UL) Listed

☐ Factory Mutual Research Corporation (FM) Approved

☐ Underwriters Laboratories-Canada (ULC) Listed

for fire protection service. The pumping equipment shall be installed as recommended in the National Fire Protection Association (NFPA) Pamphlet 20, Standard for the Installation of Centrifugal Fire Pumps. The fire pump shall be designed to deliver _____U.S. gallons per minute (gpm) at a total differential pressure of _____ psi. The fire pump shall also be capable of delivering not less than 150% of rated flow at not less than 65% rated head. Peerless Pump model _____ shall be furnished with driver, controllers and accessories as detailed in this specification. Pump manufacturer shall have unit responsibility for the proper operation of the complete unit assembly as indicated by field acceptance tests.

MANUFACTURER'S FACTORY TESTS: Each individual pump shall be hydrostatically tested and run tested prior to shipment. The pump shall be hydrostatically tested at a pressure of not less than one and one-half times the no flow (shut off) head of the pump's maximum diameter impeller plus the maximum allowable suction head but in no case less than 250 psig.

FIELD ACCEPTANCE TEST: A field acceptance performance test shall be conducted upon completion of pump installation. The test shall be made by flowing water through calibrated nozzles, approved flow meters or other such accurate devices as may be selected by the authority having jurisdiction. The test shall be conducted as recommended in NFPA Pamphlet 20 by

☐ the installing contractor

☐ the owner

☐ the owner's representative

☐ (other)_____

in the presence of the authority having jurisdiction and with that authority's final approval and acceptance. Failure to submit documentation of factory and field tests will be just cause for equipment rejection.

HORIZONTAL CENTRIFUGAL PUMPS: The fire pump shall be of horizontal centrifugal (single stage) (multistage) construction specifically labeled for fire service and shall be a Peerless Pump model _____The pump shall be connected to the (fire standpipe) (fire sprinkler) (underground fire main) system. The suction supply for the fire pump shall be from a (public service water main) (elevated storage tank) (ground storage tank) (underground reservoir) at a maximum pressure of _____ pounds per square inch (psi) and a minimum pressure of _____ psi. The pump casing shall be cast iron with _____ inch 125 pound ANSI rated suction and _____ inch(125) (250) pound ANSI rated discharge flanges machined to American National Standards Institute (ANSI) dimensions.

ELECTRIC MOTORS: The pump driver shall be horizontal foot mounted ball bearing induction motor rated _____ horsepower, 3 phase, (50)(60) Hertz with open drip-proof NEMA _____enclosure for operation on _____ volt phase service. The motor locked rotor current shall not exceed the values stated in NFPA Pamphlet 20. The motor shall be mounted on a steel base common to the pump and shall be connected to the pump with a flexible coupling protected by a suitable guard. The fire pump manufacturer shall accurately align the pump and motor shafts prior to shipment. After field installation but prior to grouting the base, a millwright or similarly qualified person shall check and verify or correct the shaft alignment.

ELECTRIC MOTOR CONTROLLERS: The automatic electric motor controller shall be (UL listed)(FM approved) specifically for fire pump service. The controller shall be designed for

☐ full voltage

☐ part winding

☐ primary resistance reduced voltage

☐ wye-delta open transition

☐ wye-delta closed transition

☐ auto-transformer

☐ solid state (soft start)

type starting. The controller shall be rated for the horsepower specified in this specification's electric motors section. The controller shall be capable of interrupting a short circuit current at least equal to the available short circuit current in the controller supply circuit. This fire pump controller installation requires an withstand rating of not less than _____ amps RMS symmetrical at an operating voltage of _____volts. The controller shall be:

☐ floor or wall mounted for electrical connection to the motor by the equipment installer.

☐ mounted on a common base with the fire pump and wired to the motor by the pump manufacturer.

FITTINGS: The pump manufacturer shall furnish piping accessory items for the pump installation which will adapt the pump connections to the fire protection system and test connection as follows. Fittings subjected to pump discharge pressure shall be ANSI (125)(250) pound rating. Fittings subjected to suction pressure shall be ANSI 125 pound rating.

☐ eccentric tapered suction reducer

☐ concentric tapered discharge increaser

☐ hose valve test header

☐ hose valves with caps and chains

☐ pump casing relief valve

☐ automatic air release valve

☐ hose valve head drain valve

☐ suction and discharge pressure gauges

Additional accessories required when pump is engine or steam turbine driven:

☐ main relief valve:

- ☐ direct acting (spring actuated)
- ☐ pilot operated (hydraulically actuated)
- ☐ relief valve overflow cone, enclosed type

☐ discharge tee with elbow (for mounting relief valve)

DIESEL ENGINES: The pump driver shall be a horizontal shaft type internal combustion engine Model _____ manufactured by: _____ rated at _____ rpm, clockwise rotation viewed from the end opposite the pump. The engine shall be provided by the pump manufacturer with, at a minimum, the following accessories for automatic operation.

☒ Peerless Pump Model 4000 Mantrol UL listed emergency manual operator, factory wired and mounted on the engine junction box for standby engine starting and operation in case of main controller or interconnecting wiring malfunction.

☒ cooling waterlines, pressure regulator, strainer, bypass lines and necessary fittings for engine cooling system, pre-piped and factory mounted.

☒ flexible exhaust connector

☒ residential exhaust silencer

☒ engine jacket water heater, factory installed.

☒ one set dual batteries, lead acid storage type.

☒ fuel system as recommended in NFPA Pamphlet 20

☒ fuel storage tank sized to provide a minimum supply of one gallon of fuel per engine maximum rated horsepower plus 5% for sump area plus 5% for expansion area. The tank shall be furnished (with)(without) legs for floor mounting and with a direct reading level gauge. Fuel tank shall (single wall)(dual wall) UL listed; single wall non-listed

☐ The engine shall be run tested with the pump by the pump manufacturer prior to shipment.

ENGINE CONTROLLERS: The automatic engine controller shall be (UL listed)(FM approved) specifically for fire pump service. The controller must be capable of performing or contain the following features:

☒Built in battery charger

☐ time clock for weekly automatic test

☐ system pressure recorder

☐ timing relay for automatic stop

☐ power failure start

☐ low fuel level switch

☐ pump room alarm audible and visual signals

☐ The controller shall be wired to the corresponding engine function terminals and shall be mounted on a common base with the engine and pump. A complete running test of the base mounted controller, engine and pump shall be performed by the pump manufacturer prior to shipment.

☐ The engine controller shall be floor mounted for electrical connection to the engine by the equipment installer.

HORIZONTAL OR INLINE FIRE PUMPS
PUMP DATA

Peerless Pump Company
Indianapolis, IN 46207-7026

Fire Pump Model	Commercial Model Pump	Shaft Dia. At Cplg.	Suction Flange Size x ANSI Lb. Standard	Discharge Flange Size x ANSI Lb. Standard	Maximum Working Pressure Psi	
					Std. ②	H ③
2½PVF8	None	-	2½ x 125	2½ x 125	175	-
2½PVF8M	PV2½x2½x8A	-	2½ x 125	2½ x 125	175	-
3PVF8	None	-	3 x 125	3 x 125	175	-
3PVF8M	PV3x3x8A	-	3 x 125	3 x 125	175	-
3PVF11	None	-	3 x 125	3 x 250 ④	175	250
3PVF11M	PV3x3x11	-	3 x 125	3 x 250 ④	175	250
4PVF5G	None	-	4 x 125	4 x 125	175	-
4PVF8GM	PV4x4x8G	-	4 x 125	4 x 125	175	-
5PVF7	None	-	5 x 125	5 x 125	175	-
5PVF7M	PV5x5x7	-	5 x 125	5 x 125	175	-
5PVF11	None	-	5 x 125	5 x 250 ④	175	250
5PVF11M	PV5X5X11	-	5 x 125	5 x 250 ④	175	250
2ADF8	2AD8	0.937	3 x 125	2 x 125	175	275
3AEF9	3AE9	1.375	4 x 250 ④	3 x 250 ④	300	425
3AEF9G	3AE9G	1.375	4 x 250 ④	3 x 250 ④	300	425
4AEF10	4AE10	1.375	5 x 250 ④	4 x 250 ④	275	450
4AEF10G	4AE10G	1.375	5 x 250 ④	4 x 250 ④	275	450
4AEF11	4AE11	1.125	5 x 250 ④	4 x 250 ④	250	250
4AEF11G	4AE11G	1.125	5 x 250 ④	4 x 250 ④	250	250
4AEF12	4AE12 Double Volute	1.375	5 x 250 ④	4 x 250 ④	300	5i0
5AEF8	5AE8	1.375	6 x 125	5 x 125 ④	300	300
5AEF8G	None	1.375	6 x 125	5 x 125 ④	300	300
5AEF8N	5AEF8N	1.375	6 x 125	5 x 125 ④	300	300
5AEF11	5AE11	1.562	6 x 250 ④	5 x 250 ④	300	510
5AEF11G	5AE11G	1.562	6 x 250 ④	5 x 250 ④	300	510
5AEF12	5AE12 Double Volute	1.562	6 x 250 ④	5 x 250 ④	250	510
5AEF14	5AE14	1.375	6 x 250 ④	5 x 250 ④	250	250
5AEF14N	5AE14N	1.375	6 x 250 ④	5 x 250 ④	250	250
6AEF10	None	1.562	8 x 125	6 x 250 ④	300	300
6AEF12	6AE12 Double Volute	1.875	8 x 250 ④	6 x 250 ④	350	500
6AEF14	6AE14	1.562	8 x 250 ④	6 x 250 ④	250	250
6AEF14G	6AE14G	1.562	8 x 250 ④	6 x 250 ④	250	250
6AEF14Q ⑤	None	1.562	8 x 250 ④	6 x 250 ④	250	250
6AEF16	6AE16	1.562	8 x 125	6 x 250 ④	250	250
6AEF16N	6AE16N	1.562	8 x 125	6 x 250 ④	250	250
6AEF18	6AE18	1.875	8 x 125	6 x 250 ④	300	300
8AEF13	8AE13	1.562	10 x 250 ④	8 x 250 ④	250	250
8AEF15A ⑤	8AE15	1.875	10 x 250 ④	8 x 250 ④	250	250
8AEF15G	8AE15G	1.875	10 x 250 ④	8 x 250 ④	250	250
8AEF17A	8AE17A Double Volute	1.875	10 x 250 ④	8 x 250 ④	262	262
8AEF17Q	8AE17Q Double Volute	1.875	10 x 250 ④	8 x 250 ④	262	262
8AEF17W Double Volute	(None)	1.875	10 x 250 ④	8 x 250 ④	262	262
8AEF20	8AE20	2.250	10 x 125	8 x 250 ④	300	300
8AEF20G	8AE20G	2.250	10 x 125	8 x 250 ④	300	300
10AEF16	10AE16 Double Volute	2.250	12 x 125	10 x 125	175	175
10AEF20	10AE20 Double Volute	2.500	12 x 125	10 x 250 ④	250	250
12AF19G	12A19G	3.000	14 x 125	12 x 125	175	253
4TUF5	4TU14	1.875	5 x 125	4 x 250	400	428
4TUF11	4TU11	1.750	6 x 125	4 x 400	550	550
5TUF7	5TU15	2.000	6 x 125	5 x 250	400	420
6TUF10B	6TU16B	2.250	8 x 125	6 x 250	300	500
8TUF15	8TU16F	2.750	10 x 125	8 x 250	335	335
4TUTF14	4TUT14	1.750	5 x 125	4 x 250	428	428
5TUTF16B	5TUT16B	2.250	6 x 125	5 x 250	400	510

NOTES: (for page 2 of Section 1520)

① *(General)* The fire pump dimensions are the same as the commercial pump shown. The fire pump's hydraulic performance is not the same as the commercial pump's due to internal changes and on some fire pump models the internal parts are not interchangeable with the commercial model. Refer to Section 1550 for further details on ordering repair parts (pump serial number and model number from nameplate is required).

② The **Std.** (standard) constructed pump is limited to a suction pressure no greater than 75 psi and/or a maximum working pressure (pump shut-off pressure psi plus suction pressure psi) no greater than value indicated in the **Std.** column. The fire pump model number built to standard construction will be as indicated in the first column of table. UL listed pumps constructed without waterseal piping and lantern rings, may use standard shaft sleeves and packing when the suction pressure is at least 30 psi but no greater than 150 psi.

③ The **H** (heavy) constructed pump is limited to a suction pressure no greater than 250 psi and/or a maximum working pressure (pump shut-off pressure psi plus suction pressure psi) no greater than value shown in **H** column. All **H** column pumps ***are not constructed*** to be applied at the maximum limit shown in **H** column. The maximum working pressure of a pump beyond the **Std.** value depends on the modifications used to meet the job's specifications. For example a 3AEF9 specified to meet 325 psi maximum working pressure will have only the modifications necessary for 325 psi maximum working pressure and would not be suitable for 400 psi maximum working pressure. The pump model number having heavy construction for 325 psi mwp will include an "H" suffix (example: 3AEF9H).Refer to the factory for the available "H" pump modifications.

④ The flange will be drilled for either 125 Lb ANSI for 175 psi maximum working pressure or 250 Lb. ANSI for a maximum working pressure shown in the **Std.** column.

⑤ The 6AEF14Q and 8AEF15A pump models have double row outboard bearing design.

CE Mark CE

European product liability and safety requirements have made sales to Europe increasingly difficult in recent years. The requirement that every product sold in Europe bear the CE Marking has resulted in the need for considerable extra effort. US made product that does not bear CE Marking must be sent to a third party to be certified as being in compliance. Failure to take this step could result in significant risk of fines, confiscation of equipment, and even criminal liability!

The US may have led the way with product safety and liability laws, but other nations have followed suit. The relatively recent creation of the European Union, and the desire to standardize liability laws and to promote free trade across the EU has resulted in the CE Marking requirements. While these laws do offer the opportunity for the free movement of goods within and into the EU and eliminate national differences, they also place some stricter requirements on those manufacturing for or selling in the EU. In many cases, the EU requirements are stricter than, and certainly always different to the US requirements.

There are a multitude of product safety and liability laws that apply to product being marketed in Europe. Those most relevant to pumps are the Directives generally known as the Machinery Directive, the Low Voltage Directive, and the Electromagnetic Compatibility Directive. These directives apply to virtually all pump systems. Other directives may apply to pumps intended for specific uses. The accepted means to show compliance with the directives is to comply with European “harmonized standards”. There may be hundreds of standards relating to each of the directives. The manufacturer or seller of a product is responsible for determining which Directives and standards apply to his product. The scope of this effort has resulted in low volume manufacturers, such as pump manufacturers, being slow to take the challenge of CE Marking their product.

Without factory CE Marking, it was necessary to sell the product first to a third party, often a European pump manufacturer, who would make any required changes to the product or its’ documentation and re-sell it with their own compliant instructions. This obviously adds cost and delay into the sales equation. Clearly, factory CE Marking is the answer.

Peerless Pump announces CE Marking on model AEF fire pumpsets

Peerless Pump can now offer model AEF fire pumpsets with factory CE Marking. This offering includes the entire line of model AEF pumps, however there are some limitations on drivers and controls. (See the table below for detail of availability of drivers and controls.) This offering will make Peerless Pumps more competitive by reducing cost and lead-time. Peerless fire pumpsets bearing the CE Marking are compliant with the Machinery, Low Voltage, and Electromagnetic Compatibility Directives. These pumpsets should move quickly through customs and on to the customer.

Model AEF Fire Pumpsets -- Now Available

Type	Pump Models	Drivers	Controls
Diesel Engine Driven Fire Pumpsets	All model AE pumps	Clarke US built engines of JU, JW, and VM series Clarke UK built engines IK6R-UF11/15/19	Master Controls with Modification 8E Models: DCF or DCM
			Firetrol Controls: Mark II controls available by June 2003
Electric Motor Driven Fire Pumpsets	All model AE pumps	U.S. Electrical Motors 50Hz, 3 phase, AC Squirrel-Cage Induction Motors with one of the following type designations: A, C, CE, CT, D, H, J, R, S, T, or UT (there may be other prefix and/or sufix letters or numbers)	Master Controls MC & EC Series Controls with Modification 8E Models: ECA, ECP, ECR, ECO, ECY, ECS, ECT, MCA, MCP, MCR, MCO, MCY, MCS, or MCT
			Metron Controls -- Full Service Electric Controllers
			Firetrol Controls: Mark II controls will be available with CE Marking early to mid 2003

Contact a sales or applications engineering professional at Peerless Pump for more details and for pricing.

CALCULATION OF TOTAL HEAD (H)

To duplicate factory test curves during field tests, the pump must be credited with the velocity head difference at each test point. Correct Total Head (H) calculations are made as follows:

$$H = h_D - h_S + h_V + C$$

H_D = Discharge pressure gauge reading in psi multiplied by 2.31 for fresh cool water. Gauge on pump discharge flange.

h_S = Suction pressure gauge reading in psi multiplied by 2.31 for fresh cool water. (If suction lift exists, suction lift shown by gauge must be converted to feet and then considered as + h_S rather than - h_S in above formula.) Gauge on pump suction flange.

h_V = Velocity head difference. From curves on page 4 for pump size and test gpm point.

C = Gauge correction. Normally not used unless vertical distance in feet between center of suction and discharge gages is over 1 foot. Add if discharge gauge is above suction gage, subtract if below suction gauge.

EXAMPLE #1

5" discharge x 6" suction pump with positive suction pressure, fresh cool water. Discharge gauge reading = 115 psi, suction gauge reading = 30 psi test point capacity = 1000 gpm. Difference in elevation of suction and discharge gage centers 2.5 ft., discharge gage above suction gauge.

$h_D = 115 \times 2.31 = 266$ ft. $\quad h_S = 30 \times 2.31 = 69.5$ ft.

$h_V = 2.15$ ft. $\quad C = 2.5$ ft.

$H = 266 - 69.5 + 2.15 + 2.5 = 201.15$ ft.

EXAMPLE #2

3" discharge x 4" suction pump with suction lift, fresh cool water. Discharge gauge reading = 61 psi, suction gauge reading = -4 psi (vacuum). Test point capacity = 500 gpm. Difference in elevation of suction and discharge gage centers 3/8 inch, discharge gauge below suction gauge.

$h_D = 61 \times 2.31 = 141$ ft. $\quad h_S = 4 \times 2.31 = 9.25$ ft.

$h_V = 5.6$ ft. $\quad C =$ neglect, under 1 ft.

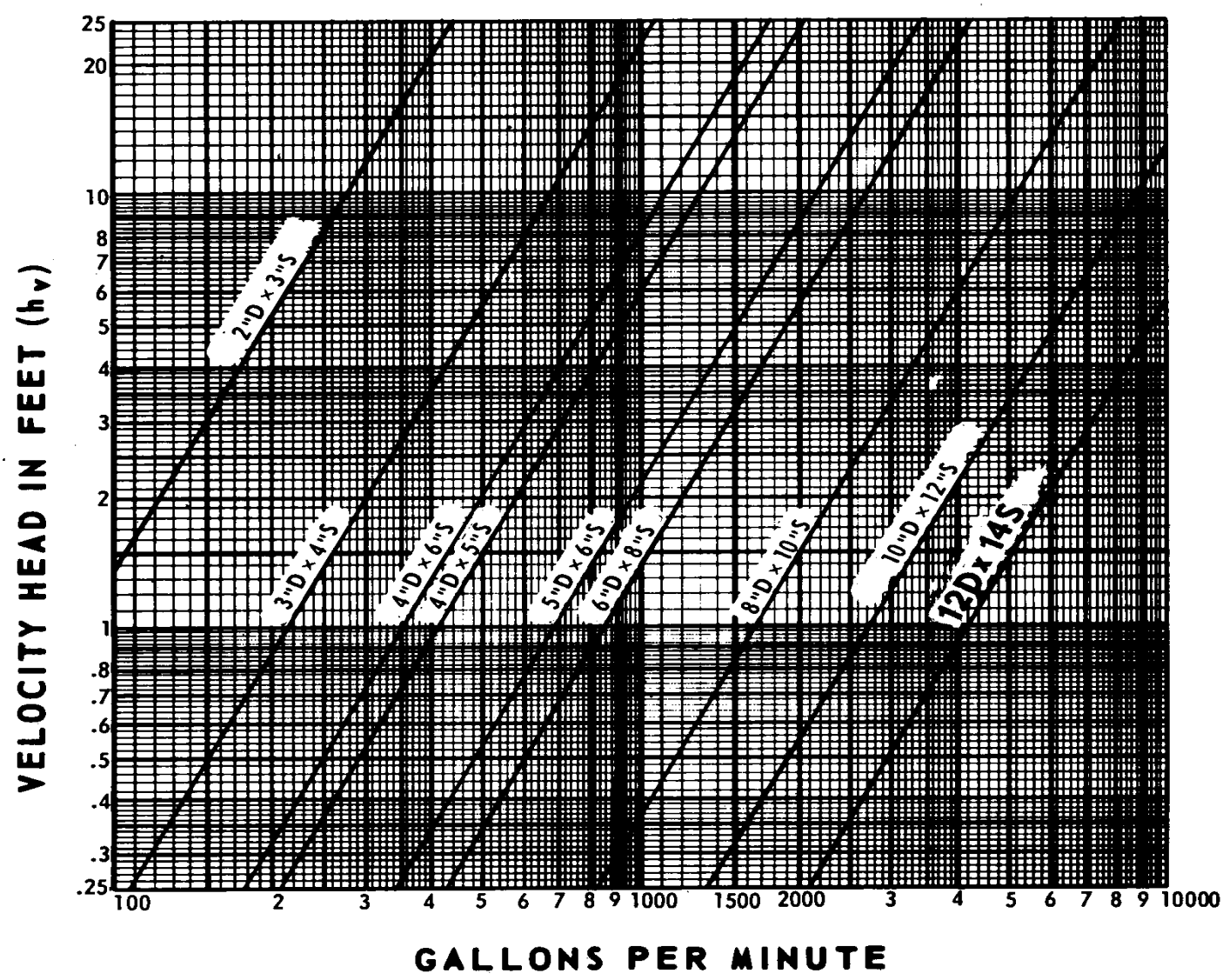
$H = 141 + 9.25 + 5.6 + 0 = 155.85$ ft.

Should gauges read in other than psi, readings must be converted to feet head using proper constants. For other than simple, fresh water calculations described above, refer to Hydraulic Institute Standards or other proper hydraulic references.

HORIZONTAL OR VERTICAL FIRE PUMPS
Diesel Engine Driven Unit

Peerless Pump Company
Indianapolis, IN 46207-7026

VELOCITY HEAD DIFFERENCE CURVES
H0RIZ0NTAL FIRE PUMPS



LEGEND

D = Discharge Size S = Suction Size

EXAMPLE

3" Discharge x 4" Suction Pump (3" D x 4" S) at 750 GPM, Velocity. Head. is 12.3 ft.

TO DETERMINE PUMP TOTAL HEAD SEE OPPOSITE SIDE OF THIS SHEET.

Clarke Model JU4H-UF20
Engine Data

4 Cylinder Inline Block, 4 Cycle, 17.6 to 1 Compression Ratio, Naturally Aspirated, 4.19 Inch Bore, 5.00 Inch Stroke, 275 Cubic Inch Displacement.

NOMINAL ENGINE RPM			1760	2100	2350
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation			60	67	72
CFM Air @ 60° F. for Combustion			140	155	166
BTU/Minute Heat Rejection to Air			780	900	960
Max. Fuel Consumption-GPM.			0.063	0.088	0.093
Lube Oil-Quarts			9	9	9
Cooling Waste Water-GPM			8	9	10
Cooling System Capacity-Quarts			15	15	15
Max Allowable Exhaust Back Pressure In/Hg			2.21	2.21	2.21
Max. Cooling Water Temp·°F*			95	95	95
Max. Pump House Temp.°F*			115	115	115
Min. Pump House Temp. °F*			50	50	50
Emission Data	Grams/Bhp/Hr	HC	0.15	0.27	0.37
		NOx	6.3	6.2	6.1
		CO	0.83	1.24	1.58
		SO_2	0.19	0.24	0.24
		Particulate	0.13	0.14	0.15

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 12 Volt Negative Ground Electrical System
2) 1500 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 3 In. Flanged Exhaust Connection
5) Primary and Secondary Fuel Filters
6) Starter 12 V Pre-wired To Manual Contactors
7) Alternator w/ Integral Regulator
8) Lube Oil Pressure Gauge
9) Tachometer/Hourmeter
10) Electronic Over speed Control w/Reset
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 1-1/4 In NPT Outlet
14) A 11 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulators, Strainers; Solenoid Valve (furnished on Horizontal Pumps only);shut Off Valves, Manual By-Pass Valve, pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly is furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Universal Joint Drive Shaft (Horizontal and Vertical Turbine Pumps)
18) Full Flow Lube Oil Filter w/By-Pass Valve
19) V Belt Driven Water Pump
20) Tamper Proof Throttle Control
21) Gear Driven Gear Type Oil Pump
22) Stanadyne Direct Injection
23) Guarded Manifold
24) Fuel Check Valve per NFPA #20
25) Volt Meter
26) Jacket Water Temperature Gauge
27) Low Oil Pressure Switch
28) Dual Starter Contactors and Dual Starters
29) Plate Type Lube Oil Cooler

Clarke Model JU4H-UF22
Engine Data

4 Cylinder Inline Block, 4 Cycle, 17.6 to 1 Compression Ratio, Naturally Aspirated, 4.19 Inch Bore, 5.00 Inch Stroke, 275 Cubic Inch Displacement.

NOMINAL ENGINE RPM			2350	2600
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation			72	75
CFM Air @ 60° F. for Combustion			166	186
BTU/Minute Heat Rejection to Air			960	1020
Max. Fuel Consumption-GPM.			0.093	0.097
Lube Oil-Quarts			9	9
Cooling Waste Water-GPM			10	11
Cooling System Capacity-Quarts			15	15
Max Allowable Exhaust Back Pressure In/Hg			2.21	2.21
Max. Cooling Water Temp.°F*			95	95
Max. Pump House Temp.°F*			115	115
Min. Pump House Temp. °F*			50	50
		HC	0.37	0.47
		NOx	6.1	6.0
Emission Data	Grams/Bhp/Hr	CO	1.58	1.93
		SO_2	0.24	0.24
		Particulate	0.15	1.15

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 12 Volt Negative Ground Electrical System
2) 1500 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 3 In. Flanged Exhaust Connection
5) Primary and Secondary Fuel Filters
6) Starter 12 V Pre-wired To Manual Contactors
7) Alternator w/ Integral Regulator
8) Lube Oil Pressure Gauge
9) Tachometer/Hourmeter
10) Electronic Over speed Control w/Reset
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 1-1/4 In NPT Outlet
14) A 11 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulators, Strainers; Solenoid Valve (furnished on Horizontal Pumps only);shut Off Valves, Manual By-Pass Valve, pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly is furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Universal Joint Drive Shaft (Horizontal and Vertical Turbine Pumps)
18) Full Flow Lube Oil Filter w/By-Pass Valve
19) V Belt Driven Water Pump
20) Tamper Proof Throttle Control
21) Gear Driven Gear Type Oil Pump
22) Stanadyne Direct Injection
23) Guarded Manifold
24) Fuel Check Valve per NFPA #20
25) Volt Meter
26) Jacket Water Temperature Gauge
27) Low Oil Pressure Switch
28) Dual Starter Contactors and Dual Starters
29) Plate Type Lube Oil Cooler

Clarke Model JU4H-UF50
Engine Data

4 Cylinder Inline Block, 4 Cycle, 17.0 to 1 Compression Ratio, Turbo-Charged, 4.19 Inch Bore, 5.00 Inch Stroke, 275 Cubic Inch Displacement.

NOMINAL ENGINE RPM			1760	2100	2350
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation			110	130	127
CFM Air @ 60° F. for Combustion			190	244	277
BTU/Minute Heat Rejection to Air			1500	1740	1680
Max. Fuel Consumption-GPM.			0.0633	0.075	0.082
Lube Oil-Quarts			9	9	9
Cooling Waste Water-GPM			8	9	9
Cooling System Capacity-Quarts			15	15	15
Max Allowable Exhaust Back Pressure In/Hg			2.21	2.21	2.21
Max. Cooling Water Temp·°F*			95	95	95
Max. Pump House Temp.°F*			115	115	115
Min. Pump House Temp. °F*			50	50	50
Emission Data	Grams/Bhp/Hr	HC	0.25	0.21	0.19
		NOx	9.9	9.9	8.7
		CO	0.19	0.34	0.45
		SO_2	0.11	0.11	0.12
		Particulate	0.04	0.06	0.08

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 12 Volt Negative Ground Electrical System
2) 1500 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 4 In. Flanged Exhaust Connection
5) Primary and Secondary Fuel Filters
6) Starter 12 V Pre-wired To Manual Contactors
7) Alternator w/ Integral Regulator
8) Lube Oil Pressure Gauge
9) Tachometer/Hourmeter
10) Electronic Over speed Control w/Reset
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 1-1/4 In NPT Outlet
14) A 11 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulators, Strainers; Solenoid Valve (furnished on Horizontal Pumps only);shut Off Valves, Manual By-Pass Valve, pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly is furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Universal Joint Drive Shaft (Horizontal and Vertical Turbine Pumps)
18) Full Flow Lube Oil Filter w/By-Pass Valve
19) V Belt Driven Water Pump
20) Tamper Proof Throttle Control
21) Gear Driven Gear Type Oil Pump
22) Stanadyne Direct Injection
23) Guarded Manifold
24) Fuel Check Valve per NFPA #20
25) Volt Meter
26) Jacket Water Temperature Gauge
27) Low Oil Pressure Switch
28) Dual Starter Contactors and Dual Starters
29) Plate Type Lube Oil Cooler

Clarke Model JU4H-UF52
Engine Data

4 Cylinder Inline Block, 4 Cycle, 17.0 to 1 Compression Ratio, Turbo-Charged, 4.19 Inch Bore, 5.00 Inch Stroke, 275 Cubic Inch Displacement.

NOMINAL ENGINE RPM			2350	2600
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation			127	127
CFM Air @ 60° F. for Combustion			277	316
BTU/Minute Heat Rejection to Air			1680	1680
Max. Fuel Consumption-GPM.			0.082	0.132
Lube Oil-Quarts			9	9
Cooling Waste Water-GPM			9	11
Cooling System Capacity-Quarts			15	15
Max Allowable Exhaust Back Pressure In/Hg			2.21	2.21
Max. Cooling Water Temp.°F*			95	95
Max. Pump House Temp.°F*			115	115
Min. Pump House Temp. °F*			50	50
Emission Data	Grams/Bhp/Hr	HC	0.19	0.17
		NOx	8.7	7.8
		CO	0.45	0.51
		SO_2	0.12	0.19
		Particulate	0.08	0.09

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 12 Volt Negative Ground Electrical System
2) 1500 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 4 In. Flanged Exhaust Connection
5) Primary and Secondary Fuel Filters
6) Starter 12 V Pre-wired To Manual Contactors
7) Alternator w/ Integral Regulator
8) Lube Oil Pressure Gauge
9) Tachometer/Hourmeter
10) Electronic Over speed Control w/Reset
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 1-1/4 In NPT Outlet
14) A 11 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulators, Strainers; Solenoid Valve (furnished on Horizontal Pumps only);shut Off Valves, Manual By-Pass Valve, pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly is furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Universal Joint Drive Shaft (Horizontal and Vertical Turbine Pumps)
18) Full Flow Lube Oil Filter w/By-Pass Valve
19) V Belt Driven Water Pump
20) Tamper Proof Throttle Control
21) Gear Driven Gear Type Oil Pump
22) Stanadyne Direct Injection
23) Guarded Manifold
24) Fuel Check Valve per NFPA #20
25) Volt Meter
26) Jacket Water Temperature Gauge
27) Low Oil Pressure Switch
28) Dual Starter Contactors and Dual Starters
29) Plate Type Lube Oil Cooler

Clarke Model JU6H-UF30
Engine Data

6 Cylinder Inline Block, 4 Cycle, 17 to 1 Compression Ratio, Turbo-Charged, 4.19 Inch Bore, 5.00 Inch Stroke, 415 Cubic Inch Displacement.

NOMINAL ENGINE RPM			1760	2100	2350
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation			140	160	160
CFM Air @ 60° F. for Combustion			275	361	422
BTU/Minute Heat Rejection to Air			2580	2880	2880
Max. Fuel Consumption-GPM.			0.153	0.178	0.185
Lube Oil-Quarts			21	21	21
Cooling Waste Water-GPM			7	8	9
Cooling System Capacity-Gallons			20	20	20
Max Allowable Exhaust Back Pressure In/Hg			2.21	2.21	2.21
Max. Cooling Water Temp·°F*			60	60	60
Max. Pump House Temp.°F*			115	115	115
Min. Pump House Temp. °F*			50	50	50
Emission Data	Grams/Bhp/Hr	HC	0.33	0.30	0.27
		NOx	6.0	5.0	4.7
		CO	0.42	0.41	0.40
		SO_2	0.20	0.21	0.22
		Particulate	0.09	0.10	0.11

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 12 Volt Negative Ground Electrical System
2) 1500 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 6 In. Flanged Exhaust Connection
5) Primary and Secondary Fuel Filters
6) Starter 12 V Pre-wired To Manual Contactors
7) Alternator w/ Integral Regulator
8) Lube Oil Pressure Gauge
9) Tachometer/Hourmeter
10) Electronic Over speed Control w/Reset
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 1-1/4 In NPT Outlet
14) A 11 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulators, Strainers; Solenoid Valve (furnished on Horizontal Pumps only);shut Off Valves, Manual By-Pass Valve, pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly is furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Universal Joint Drive Shaft (Horizontal and Vertical Turbine Pumps)
18) Full Flow Lube Oil Filter w/By-Pass Valve
19) Gear Driven Water Pump
20) Tamper Proof Throttle Control
21) Gear Driven Gear Type Oil Pump
22) Gear Driven Gear Type Fuel Pump, Direct Injection
23) Guarded Manifold
24) Fuel Check Valve per NFPA #20
25) Volt Meter
26) Jacket Water Temperature Gauge
27) Low Oil Pressure Switch
28) Dual Starter Contactors
29) Plate Type Lube Oil Cooler

Clarke Model JU6H-UF32
Engine Data

6 Cylinder Inline Block, 4 Cycle, 17 to 1 Compression Ratio, Turbo-Charged, 4.19 Inch Bore, 5.00 Inch Stroke, 415 Cubic Inch Displacement.

NOMINAL ENGINE RPM			2350	2600
UL Listed, FM Approved Bhp @ 77^{o} F. and 300 Ft. Elevation			160	160
CFM Air @ 60^{o} F. for Combustion			422	498
BTU/Minute Heat Rejection to Air			2880	2880
Max. Fuel Consumption-GPM.			0.185	0.185
Lube Oil-Quarts			21	21
Cooling Waste Water-GPM			9	10
Cooling System Capacity-Gallons			20	20
Max Allowable Exhaust Back Pressure In/Hg			2.21	2.21
Max. Cooling Water Temp.^{o}F*			60	60
Max. Pump House Temp.^{o}F*			115	115
Min. Pump House Temp. ^{o}F*			50	50
Emission Data	Grams/Bhp/Hr	HC	0.27	0.24
		NOx	4.7	4.7
		CO	0.40	0.40
		SO_2	0.22	0.21
		Particulate	0.11	0.12

*These conditions must be satisfied to maintain a engine block temperature of 170^{o} F. when engine is operating.

Standard Engine Equipment:

1) 12 Volt Negative Ground Electrical System
2) 1500 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 6 In. Flanged Exhaust Connection
5) Primary and Secondary Fuel Filters
6) Starter 12 V Pre-wired To Manual Contactors
7) Alternator w/ Integral Regulator
8) Lube Oil Pressure Gauge
9) Tachometer/Hourmeter
10) Electronic Over speed Control w/Reset
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 1-1/4 In NPT Outlet
14) A 11 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulators, Strainers; Solenoid Valve (furnished on Horizontal Pumps only);shut Off Valves, Manual By-Pass Valve, pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly is furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Universal Joint Drive Shaft (Horizontal and Vertical Turbine Pumps)
18) Full Flow Lube Oil Filter w/By-Pass Valve
19) Gear Driven Water Pump
20) Tamper Proof Throttle Control
21) Gear Driven Gear Type Oil Pump
22) Gear Driven Gear Type Fuel Pump, Direct Injection
23) Guarded Manifold
24) Fuel Check Valve per NFPA #20
25) Volt Meter
26) Jacket Water Temperature Gauge
27) Low Oil Pressure Switch
28) Dual Starter Contactors
29) Plate Type Lube Oil Cooler

Clarke Model JU6H-UF50
Engine Data

6 Cylinder Inline Block, 4 Cycle, 17 to 1 Compression Ratio, Turbo-Charged, 4.19 Inch Bore, 5.00 Inch Stroke, 415 Cubic Inch Displacement.

NOMINAL ENGINE RPM			1760	2100	2350
UL Listed, FM Approved Bhp @ 77^{o} F. and 300 Ft. Elevation			183	210	210
CFM Air @ 60^{o} F. for Combustion			314	433	508
BTU/Minute Heat Rejection to Air			3360	3840	3840
Max. Fuel Consumption-GPM.			0.178	0.205	0.215
Lube Oil-Quarts			21	21	21
Cooling Waste Water-GPM			9	11	12
Cooling System Capacity-Gallons			20	20	20
Max Allowable Exhaust Back Pressure In/Hg			2.21	2.21	2.21
Max. Cooling Water Temp.^{o}F*			60	60	60
Max. Pump House Temp.^{o}F*			115	115	115
Min. Pump House Temp. ^{o}F*			50	50	50
Emission Data	Grams/Bhp/Hr	HC	0.28	0.21	0.16
		NOx	6.6	6.4	5.9
		CO	0.41	0.44	0.46
		SO_2	0.19	0.19	0.20
		Particulate	0.08	0.09	0.10

*These conditions must be satisfied to maintain a engine block temperature of 170^{o} F. when engine is operating.

Standard Engine Equipment:

1) 12 Volt Negative Ground Electrical System
2) 1500 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 6 In. Flanged Exhaust Connection
5) Primary and Secondary Fuel Filters
6) Starter 12 V Pre-wired To Manual Contactors
7) Alternator w/ Integral Regulator
8) Lube Oil Pressure Gauge
9) Tachometer/Hourmeter
10) Electronic Over speed Control w/Reset
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 1-1/4 In NPT Outlet
14) A 11 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulators, Strainers; Solenoid Valve (furnished on Horizontal Pumps only);shut Off Valves, Manual By-Pass Valve, pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly is furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Universal Joint Drive Shaft (Horizontal and Vertical Turbine Pumps)
18) Full Flow Lube Oil Filter w/By-Pass Valve
19) Gear Driven Water Pump
20) Tamper Proof Throttle Control
21) Gear Driven Gear Type Oil Pump
22) Gear Driven Gear Type Fuel Pump, Direct Injection
23) Guarded Manifold
24) Fuel Check Valve per NFPA #20
25) Volt Meter
26) Jacket Water Temperature Gauge
27) Low Oil Pressure Switch
28) Dual Starter Contactors
29) Plate Type Lube Oil Cooler

Clarke Model JU6H-UF52
Engine Data

6 Cylinder Inline Block, 4 Cycle, 17 to 1 Compression Ratio, Turbo-Charged, 4.19 Inch Bore, 5.00 Inch Stroke, 415 Cubic Inch Displacement.

NOMINAL ENGINE RPM			2350	2600
UL Listed, FM Approved Bhp @ 77^{o} F. and 300 Ft. Elevation			210	210
CFM Air @ 60^{o} F. for Combustion			508	568
BTU/Minute Heat Rejection to Air			3840	3840
Max. Fuel Consumption-GPM.			0.215	0.212
Lube Oil-Quarts			21	21
Cooling Waste Water-GPM			12	13
Cooling System Capacity-Gallons			20	20
Max Allowable Exhaust Back Pressure In/Hg			2.21	2.21
Max. Cooling Water Temp.^{o}F*			60	60
Max. Pump House Temp.^{o}F*			115	115
Min. Pump House Temp. ^{o}F*			50	50
Emission Data	Grams/Bhp/Hr	HC	0.16	0.13
		NOx	5.9	5.9
		CO	0.46	0.47
		SO_2	0.20	0.19
		Particulate	0.10	0.10

*These conditions must be satisfied to maintain a engine block temperature of 170^{o} F. when engine is operating.

Standard Engine Equipment:

1) 12 Volt Negative Ground Electrical System
2) 1500 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 6 In. Flanged Exhaust Connection
5) Primary and Secondary Fuel Filters
6) Starter 12 V Pre-wired To Manual Contactors
7) Alternator w/ Integral Regulator
8) Lube Oil Pressure Gauge
9) Tachometer/Hourmeter
10) Electronic Over speed Control w/Reset
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 1-1/4 In NPT Outlet
14) A 11 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulators, Strainers; Solenoid Valve (furnished on Horizontal Pumps only);shut Off Valves, Manual By-Pass Valve, pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly is furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Universal Joint Drive Shaft (Horizontal and Vertical Turbine Pumps)
18) Full Flow Lube Oil Filter w/By-Pass Valve
19) Gear Driven Water Pump
20) Tamper Proof Throttle Control
21) Gear Driven Gear Type Oil Pump
22) Gear Driven Gear Type Fuel Pump, Direct Injection
23) Guarded Manifold
24) Fuel Check Valve per NFPA #20
25) Volt Meter
26) Jacket Water Temperature Gauge
27) Low Oil Pressure Switch
28) Dual Starter Contactors
29) Plate Type Lube Oil Cooler

Clarke Model JU6H-UF60
Engine Data

6 Cylinder Inline Block, 4 Cycle, 17 to 1 Compression Ratio, Turbo-Charged, 4.19 Inch Bore, 5.00 Inch Stroke, 415 Cubic Inch Displacement.

NOMINAL ENGINE RPM			1760	2100	2350
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation			200	240	240
CFM Air @ 60° F. for Combustion			354	494	538
BTU/Minute Heat Rejection to Air			3660	4380	4380
Max. Fuel Consumption-GPM.			0.167	0.172	0.187
Lube Oil-Quarts			21	21	21
Cooling Waste Water-GPM			11	13	13
Cooling System Capacity-Gallons			20	20	20
Max Allowable Exhaust Back Pressure In/Hg			2.21	2.21	2.21
Max. Cooling Water Temp·°F*			60	60	60
Max. Pump House Temp.°F*			115	115	115
Min. Pump House Temp. °F*			50	50	50
Emission Data	Grams/Bhp/Hr	HC	0.14	0.12	0.10
		NOx	5.1	4.2	3.5
		CO	0.42	0.44	0.46
		SO_2	0.16	0.14	0.15
		Particulate	0.11	0.14	0.16

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 12 Volt Negative Ground Electrical System
2) 1500 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 6 In. Flanged Exhaust Connection
5) Primary and Secondary Fuel Filters
6) Starter 12 V Pre-wired To Manual Contactors
7) Alternator w/ Integral Regulator
8) Lube Oil Pressure Gauge
9) Tachometer/Hourmeter
10) Electronic Over speed Control w/Reset
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 1-1/4 In NPT Outlet
14) A 11 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulators, Strainers; Solenoid Valve (furnished on Horizontal Pumps only);shut Off Valves, Manual By-Pass Valve, pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly is furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Universal Joint Drive Shaft (Horizontal and Vertical Turbine Pumps)
18) Full Flow Lube Oil Filter w/By-Pass Valve
19) Gear Driven Water Pump
20) Tamper Proof Throttle Control
21) Gear Driven Gear Type Oil Pump
22) Gear Driven Gear Type Fuel Pump, Direct Injection
23) Guarded Manifold
24) Fuel Check Valve per NFPA #20
25) Volt Meter
26) Jacket Water Temperature Gauge
27) Low Oil Pressure Switch
28) Dual Starter Contactors
29) Plate Type Lube Oil Cooler

Clarke Model JU6H-UF62
Engine Data

6 Cylinder Inline Block, 4 Cycle, 17 to 1 Compression Ratio, Turbo-Charged, 4.19 Inch Bore, 5.00 Inch Stroke, 415 Cubic Inch Displacement.

NOMINAL ENGINE RPM			2350	2600
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation			240	240
CFM Air @ 60° F. for Combustion			538	578
BTU/Minute Heat Rejection to Air			4380	4380
Max. Fuel Consumption-GPM.			0.187	0.212
Lube Oil-Quarts			21	21
Cooling Waste Water-GPM			13	14
Cooling System Capacity-Gallons			20	20
Max Allowable Exhaust Back Pressure In/Hg			2.21	2.21
Max. Cooling Water Temp·°F*			60	60
Max. Pump House Temp.°F*			115	115
Min. Pump House Temp. °F*			50	50
Emission Data	Grams/Bhp/Hr	HC	0.10	0.09
		NOx	3.5	3.3
		CO	0.46	0.48
		SO_2	0.15	0.17
		Particulate	0.16	0.17

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 12 Volt Negative Ground Electrical System
2) 1500 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 6 In. Flanged Exhaust Connection
5) Primary and Secondary Fuel Filters
6) Starter 12 V Pre-wired To Manual Contactors
7) Alternator w/ Integral Regulator
8) Lube Oil Pressure Gauge
9) Tachometer/Hourmeter
10) Electronic Over speed Control w/Reset
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 1-1/4 In NPT Outlet
14) A 11 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulators, Strainers; Solenoid Valve (furnished on Horizontal Pumps only);shut Off Valves, Manual By-Pass Valve, pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly is furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Universal Joint Drive Shaft (Horizontal and Vertical Turbine Pumps)
18) Full Flow Lube Oil Filter w/By-Pass Valve
19) Gear Driven Water Pump
20) Tamper Proof Throttle Control
21) Gear Driven Gear Type Oil Pump
22) Gear Driven Gear Type Fuel Pump, Direct Injection
23) Guarded Manifold
24) Fuel Check Valve per NFPA #20
25) Volt Meter
26) Jacket Water Temperature Gauge
27) Low Oil Pressure Switch
28) Dual Starter Contactors
29) Plate Type Lube Oil Cooler

Clarke Model JW6H-UF30 *(Formerly JDFP-06WA)*
Engine Data

6 Cylinder Inline Block, 4 Cycle, 16.5 to 1 Compression Ratio, Turbo-Charged, 4.56 Inch Bore, 5.06 Inch Stroke, 496 Cubic Inch Displacement.

NOMINAL ENGINE RPM			**1470**	**1760**	**2100**	**2350**
UL Listed, FM Approved Bhp @ 77^{o} F. and 300 Ft. Elevation			220	265	275	275
CFM Air @ 60^{o} F. for Combustion			410	580	730	856
BTU/Minute Heat Rejection to Air			1440	1680	1740	1740
Max. Fuel Consumption-GPM.			0.217	0.233	0.250	0.267
Lube Oil-Quarts			32	32	32	32
Cooling Waste Water-GPM			18	22	25	31
Cooling System Capacity-Gallons			5.5	5.5	5.5	5.5
Max Allowable Exhaust Back Pressure In/Hg			1.4	1.91	2.06	2.21
Max. Cooling Water Temp.^{o}F*			60	60	60	60
Max. Pump House Temp.^{o}F*			115	115	115	115
Min. Pump House Temp. ^{o}F*			50	50	50	50
Emission Data	Grams/Bhp/Hr	HC	0.32	0.23	0.28	-
		NOx	6.7	6.7	6.0	-
		CO	0.29	0.29	0.28	-
		SO_2	0.73	0.67	0.60	-
		Particulate	0.07	0.07	0.08	-

*These conditions must be satisfied to maintain a engine block temperature of 170^{o} F. when engine is operating.

Standard Engine Equipment:

1) 12 Volt Negative Ground Electrical System
2) 2500 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 6 In. Flanged Exhaust Connection
5) Primary and Secondary Fuel Filters
6) Starter 12 V Pre-wired To Manual Contactors
7) Alternator w/ Integral Regulator
8) Lube Oil Pressure Gauge
9) Tachometer/Hourmeter
10) Electronic Over speed Control w/Reset
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 1-1/4 In NPT Outlet
14) A 11 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulators, Strainers; Solenoid Valve (furnished on Horizontal Pumps only);shut Off Valves, Manual By-Pass Valve, pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly is furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Universal Joint Drive Shaft (Horizontal and Vertical Turbine Pumps)
18) Full Flow Lube Oil Filter w/By-Pass Valve
19) Gear Driven Water Pump
20) Tamper Proof Throttle Control
21) Gear Driven Gear Type Oil Pump
22) Gear Driven Gear Type Fuel Pump, Direct Injection
23) Insulated Manifold
24) Fuel Check Valve per NFPA #20
25) Volt Meter
26) Jacket Water Temperature Gauge
27) Low Oil Pressure Switch
28) Dual Starter Contactors
29) Plate Type Lube Oil Cooler

Clarke Model JW6H-UF40 *(FormerlyJDFP-06WR)*
Engine Data

6 Cylinder Inline Block, 4 Cycle, 15.7 to 1 Compression Ratio, Turbo-Charged, 4.56 Inch Bore, 5.06 Inch Stroke, 496 Cubic Inch Displacement.

NOMINAL ENGINE RPM			1470	1760	2100	2350
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation			240	290	300	300
CFM Air @ 60° F. for Combustion			460	615	760	923
BTU/Minute Heat Rejection to Air			1560	1800	1920	1920
Max. Fuel Consumption-GPM.			0.217	0.225	0.233	0.242
Lube Oil-Quarts			32	32	32	32
Cooling Waste Water-GPM			19	23	29	31
Cooling System Capacity-Gallons			5.75	5.75	5.75	5.75
Max Allowable Exhaust Back Pressure In/Hg			1.4	1.91	2.06	2.06
Max. Cooling Water Temp.°F*			60	60	60	60
Max. Pump House Temp.°F*			115	115	115	115
Min. Pump House Temp. °F*			50	50	50	50
Emission Data	Grams/Bhp/Hr	HC	0.10	0.08	0.15	-
		NOx	5.6	5.7	5.2	-
		CO	0.24	0.25	0.27	-
		SO_2	0.66	0.57	0.58	-
		Particulate	0.07	0.07	0.09	-

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 12 Volt Negative Ground Electrical System
2) 2500 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 6 In. Flanged Exhaust Connection
5) Primary and Secondary Fuel Filters
6) Starter 12 V Pre-wired To Manual Contactors
7) Alternator w/ Integral Regulator
8) Lube Oil Pressure Gauge
9) Tachometer/Hourmeter
10) Electronic Over speed Control w/Reset
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 1-1/4 In NPT Outlet
14) A 11 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulators, Strainers; Solenoid Valve (furnished on Horizontal Pumps only);shut Off Valves, Manual By-Pass Valve, pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly is furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Universal Joint Drive Shaft (Horizontal and Vertical Turbine Pumps)
18) Full Flow Lube Oil Filter w/By-Pass Valve
19) Gear Driven Water Pump
20) Tamper Proof Throttle Control
21) Gear Driven Gear Type Oil Pump
22) Gear Driven Gear Type Fuel Pump, Direct Injection
23) Insulated Manifold
24) Fuel Check Valve per NFPA #20
25) Volt Meter
26) Jacket Water Temperature Gauge
27) Low Oil Pressure Switch
28) Dual Starter Contactors
29) Plate Type Lube Oil Cooler

Clarke Model JW6H-UF50
Engine Data

6 Cylinder Inline Block, 4 Cycle, 16.5 to 1 Compression Ratio, Turbo-Charged, 4.56 Inch Bore, 5.06 Inch Stroke, 496 Cubic Inch Displacement.

NOMINAL ENGINE RPM	1760	2100	2350
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation	300	340	350
CFM Air @ 60° F. for Combustion	692	881	992
BTU/Minute Heat Rejection to Air	1920	2160	2250
Max. Fuel Consumption-GPM.	0.233	0.267	0.283
Lube Oil-Quarts	32	32	32
Cooling Waste Water-GPM	39	45	47
Cooling System Capacity-Quarts	23	23	23
Max Allowable Exhaust Back Pressure In/Hg	1.9	2.1	2.2
Max. Cooling Water Temp·°F*	95	95	95
Max. Pump House Temp.°F*	115	115	115
Min. Pump House Temp. °F*	50	50	50
NOx Grams/Bhp/Hour	5.1	4.5	4.2

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 12 Volt Negative Ground Electrical System
2) 2500 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 6 In. Flanged Exhaust Connection
5) Primary and Secondary Fuel Filters
6) Starter 12 V Pre-wired To Manual Contactors
7) Alternator w/ Integral Regulator
8) Lube Oil Pressure Gauge
9) Tachometer/Hourmeter
10) Electronic Over speed Control w/Reset
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 1-1/4 In NPT Outlet
14) A 11 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulators, Strainers; Solenoid Valve (furnished on Horizontal Pumps only);shut Off Valves, Manual By-Pass Valve, pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly is furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Universal Joint Drive Shaft (Horizontal and Vertical Turbine Pumps)
18) Full Flow Lube Oil Filter w/By-Pass Valve
19) Gear Driven Water Pump
20) Tamper Proof Throttle Control
21) Gear Driven Gear Type Oil Pump
22) Gear Driven Gear Type Fuel Pump, Direct Injection
23) Insulated Manifold
24) Fuel Check Valve per NFPA #20
25) Volt Meter
26) Jacket Water Temperature Gauge
27) Low Oil Pressure Switch
28) Dual Starter Contactors
29) Plate Type Lube Oil Cooler

Clarke Model JW6H-UF60
Engine Data

6 Cylinder Inline Block, 4 Cycle, 16.5 to 1 Compression Ratio, Turbo-Charged, 4.56 Inch Bore, 5.06 Inch Stroke, 496 Cubic Inch Displacement.

NOMINAL ENGINE RPM	1760	2100	2350
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation	360	375	360
CFM Air @ 60° F. for Combustion	780	939	1020
BTU/Minute Heat Rejection to Air	2280	2400	2280
Max. Fuel Consumption-GPM.	0.275	0.292	0.292
Lube Oil-Quarts	32	32	32
Cooling Waste Water-GPM	45	47	47
Cooling System Capacity-Quarts	23	23	23
Max Allowable Exhaust Back Pressure In/Hg	1.9	2.1	2.2
Max. Cooling Water Temp·°F*	95	95	95
Max. Pump House Temp.°F*	115	115	115
Min. Pump House Temp. °F*	50	50	50
NOx Grams/Bhp/Hour	5.6	5.1	4.7

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 12 Volt Negative Ground Electrical System
2) 2500 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 6 In. Flanged Exhaust Connection
5) Primary and Secondary Fuel Filters
6) Starter 12 V Pre-wired To Manual Contactors
7) Alternator w/ Integral Regulator
8) Lube Oil Pressure Gauge
9) Tachometer/Hourmeter
10) Electronic Over speed Control w/Reset
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 1-1/4 In NPT Outlet
14) A 11 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulators, Strainers; Solenoid Valve (furnished on Horizontal Pumps only);shut Off Valves, Manual By-Pass Valve, pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly is furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Universal Joint Drive Shaft (Horizontal and Vertical Turbine Pumps)
18) Full Flow Lube Oil Filter w/By-Pass Valve
19) Gear Driven Water Pump
20) Tamper Proof Throttle Control
21) Gear Driven Gear Type Oil Pump
22) Gear Driven Gear Type Fuel Pump, Direct Injection
23) Insulated Manifold
24) Fuel Check Valve per NFPA #20
25) Volt Meter
26) Jacket Water Temperature Gauge
27) Low Oil Pressure Switch
28) Dual Starter Contactors
29) Plate Type Lube Oil Cooler

Blank

Caterpillar Diesel Model 3406BDIT PA2519
Engine Data

6 Cylinder Inline Block, 4 Cycle, 14.5 to 1 Compression Ratio, Turbo-Charged, 5.4 Inch Bore, 6.5 Inch Stroke, 893 Cubic Inch Displacement.

NOMINAL ENGINE RPM	1460	1760	1900	2100	2300
UL Listed, FM Approved Bhp @ 77^{o} F. and 300 Ft. Elevation	325	370	375	375	350
CFM Air @ 60^{o} F. for Combustion	623	823	904	1006	1084
BTU/Minute Heat Rejection to Air	1763	2047	2161	2332	2332
Max. Fuel Consumption-GPM.	0.268	0.312	0.312	0.312	0.297
Lube Oil-Quarts	36	36	36	36	36
Cooling Waste Water-GPM	20	20	20	20	20
Cooling System Capacity-Gallons	27.5	27.5	27.5	27.5	27.5
Max Allowable Exhaust Back Pressure In/Hg	1.98	1.98	1.98	1.98	1.98
Max. Cooling Water Temp·^{o}F*	100	100	100	100	100
Max. Pump House Temp.^{o}F*	115	115	115	115	115
Min. Pump House Temp. ^{o}F*	40	40	40	40	40

*These conditions must be satisfied to maintain a engine block temperature of 170^{o} F. when engine is operating.

Standard Engine Equipment:

1) 24 Volt Negative Ground Electrical System
2) 3000 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 6 In. NPT Exhaust Connection
5) Two Element Type Fuel Filter
6) Starter 24 V Pre-wired To Manual Contactors
7) Alternator
8) Lube Oil Pressure Gauge
9) Tachometer
10) Over speed Switch
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 2 In NPT Outlet
14) A 13 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulator; Strainers; Solenoid Valve (furnished on Horizontal Pumps only); Shut Off Valves; Manual By-Pass Valve; pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Flexible Coupling (Horizontal Pumps)
17) Factory Choice Universal Joint Drive Shaft (Vertical Turbine Pumps)
18) Lube Oil Filter with By-Pass
19) Jacket Water Temperature Gauge
20) Low Oil Pressure Switch
21) Dual Starter Contactors
22) Dry Shielded Exhaust Manifold
23) Stub Shaft 3-3/8 In. Dia x 8 In. Usable Length

Caterpillar Diesel Model 3406BDIT PA0083
Engine Data

6 Cylinder Inline Block, 4 Cycle, 14.5 to 1 Compression Ratio, Turbo-Charged, 5.4 Inch Bore, 6.5 Inch Stroke, 893 Cubic Inch Displacement.

NOMINAL ENGINE RPM	1460	1760	1900	2100
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation	247	292	312	331
CFM Air @ 60° F. for Combustion	505	677	785	915
BTU/Minute Heat Rejection to Air	1592	1877	1990	2218
Max. Fuel Consumption-GPM.	0.205	0.242	0.262	0.287
Lube Oil-Quarts	36	36	36	36
Cooling Waste Water-GPM	20	20	25	25
Cooling System Capacity-Gallons	27.5	27.5	27.5	27.5
Max Allowable Exhaust Back Pressure In/Hg	2.0	2.0	2.0	2.0
Max. Cooling Water Temp·°F*	84	84	84	84
Max. Pump House Temp.°F*	115	115	115	115
Min. Pump House Temp. °F*	40	40	40	40

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 24 Volt Negative Ground Electrical System
2) 3000 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 6 In. NPT Exhaust Connection
5) One Element Type Fuel Filter
6) Starter 24 V Pre-wired To Manual Contactors
7) Alternator
8) Lube Oil Pressure Gauge
9) Tachometer
10) Over speed Switch
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 2 In NPT Outlet
14) A 13 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulator,; Strainers; Solenoid Valve (furnished on Horizontal Pumps only); Shut Off Valves; Manual By-Pass Valve; pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Flexible Coupling (Horizontal Pumps)
17) Factory Choice Universal Joint Drive Shaft (Vertical Turbine Pumps)
18) Lube Oil Filter with By-Pass
19) Jacket Water Temperature Gauge
20) Low Oil Pressure Switch
21) Dual Starter Contactors
22) Stub Shaft 3-3/8 In. Dia x 8 In. Usable Length

Caterpillar Diesel Model 3406BDITA PA2520
Engine Data

6 Cylinder Inline Block, 4 Cycle, 14.5 to 1 Compression Ratio, Turbo-Charged, 5.4 Inch Bore, 6.5 Inch Stroke, 893 Cubic Inch Displacement.

NOMINAL ENGINE RPM	**1760**	**1900**	**2100**	**2300**
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation	460	460	482	455
CFM Air @ 60° F. for Combustion	976	1029	1119	1134
BTU/Minute Heat Rejection to Air	2161	2332	2559	2673
Max. Fuel Consumption-GPM.	0.360	0.363	0.393	0.387
Lube Oil-Quarts	36	36	36	36
Cooling Waste Water-GPM	25	25	25	25
Cooling System Capacity-Gallons	29.2	29.2	29.2	29.2
Max Allowable Exhaust Back Pressure In/Hg	1.98	1.98	1.98	1.98
Max. Cooling Water Temp·°F*	84	84	84	84
Max. Pump House Temp.°F*	115	115	115	115
Min. Pump House Temp. °F*	40	40	40	40

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 24 Volt Negative Ground Electrical System
2) 3000 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 6 In. NPT Exhaust Connection
5) Two Element Type Fuel Filter
6) Starter 24 V Pre-wired To Manual Contactors
7) Alternator
8) Lube Oil Pressure Gauge
9) Tachometer
10) Over speed Switch
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 2 In NPT Outlet
14) A 13 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulator; Strainers; Solenoid Valve (furnished on Horizontal Pumps only); Shut Off Valves; Manual By-Pass Valve; pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Flexible Coupling (Horizontal Pumps)
17) Factory Choice Universal Joint Drive Shaft (Vertical Turbine Pumps)
18) Lube Oil Filter with By-Pass
19) Jacket Water Temperature Gauge
20) Low Oil Pressure Switch
21) Dual Starter Contactors
22) Dry Shielded Exhaust Manifold
23) Stub Shaft 3-3/8 In. Dia x 8 In. Usable Length

Caterpillar Diesel Model 3406BDITA PA0084
Engine Data

6 Cylinder Inline Block, 4 Cycle, 14.5 to 1 Compression Ratio, Turbo-Charged, 5.4 Inch Bore, 6.5 Inch Stroke, 893 Cubic Inch Displacement.

NOMINAL ENGINE RPM	**1460**	**1760**	**1900**	**2100**
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation	300	420	425	430
CFM Air @ 60° F. for Combustion	551	889	1005	1161
BTU/Minute Heat Rejection to Air	1706	2161	2275	2502
Max. Fuel Consumption-GPM.	0.250	0.346	0.355	0.375
Lube Oil-Quarts	36	36	36	36
Cooling Waste Water-GPM	25	30	35	35
Cooling System Capacity-Gallons	29.2	29.2	29.2	29.2
Max Allowable Exhaust Back Pressure In/Hg	2	2.0	2.0	2.0
Max. Cooling Water Temp·°F*	84	84	84	84
Max. Pump House Temp.°F*	115	115	115	115
Min. Pump House Temp. °F*	40	40	40	40

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 24 Volt Negative Ground Electrical System
2) 3000 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 6 In. NPT Exhaust Connection
5) One Element Type Fuel Filter
6) Starter 24 V Pre-wired To Manual Contactors
7) Alternator
8) Lube Oil Pressure Gauge
9) Tachometer
10) Over speed Switch
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 2 In NPT Outlet
14) A 13 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulator,; Strainers; Solenoid Valve (furnished on Horizontal Pumps only); Shut Off Valves; Manual By-Pass Valve; pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Flexible Coupling (Horizontal Pumps)
17) Factory Choice Universal Joint Drive Shaft (Vertical Turbine Pumps)
18) Lube Oil Filter with By-Pass
19) Jacket Water Temperature Gauge
20) Low Oil Pressure Switch
21) Dual Starter Contactors
22) Stub Shaft 3-3/8 In. Dia x 8 In. Usable Length

Caterpillar Diesel Model 3408DITA PA3282
Engine Data

8 Cylinder Vee Block, 4 Cycle, 14.5 to 1 Compression Ratio, Turbo-Charged, 5.4 Inch Bore, 6 Inch Stroke, 1099 Cubic Inch Displacement.

NOMINAL ENGINE RPM	**1760**	**1900**	**2100**
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation	481	495	507
CFM Air @ 60° F. for Combustion	1045	1152	1232
BTU/Minute Heat Rejection to Air	2787	2957	3185
Max. Fuel Consumption-GPM.	.420	.430	.460
Lube Oil-Quarts	44	44	44
Cooling Waste Water-GPM	40	40	45
Cooling System Capacity-Gallons	33.7	33.7	33.7
Max Allowable Exhaust Back Pressure In/Hg	2.0	2.0	2.0
Max. Cooling Water Temp·°F*	84	84	84
Max. Pump House Temp.°F*	115	115	115
Min. Pump House Temp. °F*	40	40	40

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 24 Volt Negative Ground Electrical System
2) 3000 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 8 In. Flanged Exhaust Connection
5) Two Element Type Fuel Filter
6) Starter 24 V Pre-wired To Manual Contactors
7) Alternator
8) Lube Oil Pressure Gauge
9) Tachometer
10) Over speed Switch
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 2 In NPT Outlet
14) A 13 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulator; Strainers; Solenoid Valve (furnished on Horizontal Pumps only); Shut Off Valves; Manual By-Pass Valve; pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Flexible Coupling (Horizontal Pumps)
17) Factory Choice Universal Joint Drive Shaft (Vertical Turbine Pumps)
18) Lube Oil Filter with By-Pass
19) Jacket Water Temperature Gauge
20) Low Oil Pressure Switch
21) Dual Starter Contactors
22) Dry Shielded Exhaust Manifold
23) Stub Shaft 3-3/8 In. Dia x 8 In. Usable Length

Caterpillar Diesel Model 3408BDITA PA2521
Engine Data

8 Cylinder Vee Block, 4 Cycle, 14.5 to 1 Compression Ratio, Turbo-Charged, 5.4 Inch Bore, 6 Inch Stroke, 1099 Cubic Inch Displacement.

NOMINAL ENGINE RPM	**1760**	**1900**	**2100**	**2300**
UL Listed, FM Approved Bhp @ 77^{o} F. and 300 Ft. Elevation	510	525	525	510
CFM Air @ 60^{o} F. for Combustion	1116	1182	1303	1340
BTU/Minute Heat Rejection to Air	2843	3014	5289	3469
Max. Fuel Consumption-GPM.	0.447	0.463	0.465	0.490
Lube Oil-Quarts	44	44	44	44
Cooling Waste Water-GPM	30	30	25	25
Cooling System Capacity-Gallons	33.7	33.7	33.7	33.7
Max Allowable Exhaust Back Pressure In/Hg	2.0	2.0	2.0	2.0
Max. Cooling Water Temp·^{o}F*	84	84	84	84
Max. Pump House Temp.^{o}F*	115	115	115	115
Min. Pump House Temp. ^{o}F*	40	40	40	40

*These conditions must be satisfied to maintain a engine block temperature of 170^{o} F. when engine is operating.

Standard Engine Equipment:

1) 24 Volt Negative Ground Electrical System
2) 3000 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 8 In. Flanged Exhaust Connection
5) Two Element Type Fuel Filter
6) Starter 24 V Pre-wired To Manual Contactors
7) Alternator
8) Lube Oil Pressure Gauge
9) Tachometer
10) Over speed Switch
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 2 In NPT Outlet
14) A 13 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulator; Strainers; Solenoid Valve (furnished on HorizontalPumps only); Shut Off Valves; Manual By-Pass Valve; pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Flexible Coupling (Horizontal Pumps)
17) Factory Choice Universal Joint Drive Shaft (Vertical Turbine Pumps)
18) Lube Oil Filter with By-Pass
19) Jacket Water Temperature Gauge
20) Low Oil Pressure Switch
21) Dual Starter Contactors
22) Dry Shielded Exhaust Manifold
23) Stub Shaft 3-3/8 In. Dia x 8 In. Usable Length

Blank

Caterpillar Diesel Model 3412DIT PA2522
Engine Data

12 Cylinder Vee Block, 4 Cycle, 14.5 to 1 Compression Ratio, Turbo-Charged, 5.4 Inch Bore, 6 Inch Stroke, 1649 Cubic Inch Displacement.

NOMINAL ENGINE RPM	**1460**	**1760**	**1900**	**2100**	**2300**
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation	625	660	680	700	625
CFM Air @ 60° F. for Combustion	1229	1490	1614	1769	1837
BTU/Minute Heat Rejection to Air	3526	3981	4265	4606	4720
Max. Fuel Consumption-GPM.	0.547	0.570	0.593	0.627	0.595
Lube Oil-Quarts	72	72	72	72	72
Cooling Waste Water-GPM	35	35	40	40	40
Cooling System Capacity-Gallons	37.5	37.5	37.5	37.5	37.5
Max Allowable Exhaust Back Pressure In/Hg	2.0	2.0	2.0	2.0	2.0
Max. Cooling Water Temp.°F*	84	84	84	84	84
Max. Pump House Temp.°F*	115	115	115	115	115
Min. Pump House Temp. °F*	40	40	40	40	40

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 24 Volt Negative Ground Electrical System
2) 6000 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 8 In. Flanged Exhaust Connection
5) Two Element Type Fuel Filter
6) Starter 24 V Pre-wired To Manual Contactors
7) Alternator
8) Lube Oil Pressure Gauge
9) Tachometer
10) Over speed Switch
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 2 In NPT Outlet
14) A 13 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulator; Strainers; Solenoid Valve (furnished on Horizontal Pumps only); Shut Off Valves; Manual By-Pass Valve; pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Flexible Coupling (Horizontal Pumps)
17) Factory Choice Universal Joint Drive Shaft (Vertical Turbine Pumps)
18) Lube Oil Filter with By-Pass
19) Jacket Water Temperature Gauge
20) Low Oil Pressure Switch
21) Dual Starter Contactors
22) Dry Shielded Exhaust Manifold
23) Stub Shaft 3-3/8 In. Dia x 8 In. Usable Length

Caterpillar Diesel Model 3412DITA PA2523
Engine Data

12 Cylinder Vee Block, 4 Cycle, 14.5 to 1 Compression Ratio, Turbo-Charged, 5.4 Inch Bore, 6 Inch Stroke, 1649 Cubic Inch Displacement.

NOMINAL ENGINE RPM	**1760**	**1900**	**2100**	**2300**
UL Listed, FM Approved Bhp @ 77° F. and 300 Ft. Elevation	800	860	870	870
CFM Air @ 60° F. for Combustion	1752	1982	2140	2227
BTU/Minute Heat Rejection to Air	4265	4663	4948	8530
Max. Fuel Consumption-GPM.	0.663	0.727	0.733	0.753
Lube Oil-Quarts	72	72	72	72
Cooling Waste Water-GPM	40	45	45	55
Cooling System Capacity-Gallons	37.5	37.5	37.5	37.5
Max Allowable Exhaust Back Pressure In/Hg	2.0	2.0	2.0	2.0
Max. Cooling Water Temp·°F*	84	84	84	84
Max. Pump House Temp.°F*	115	115	115	115
Min. Pump House Temp. °F*	40	40	40	40

*These conditions must be satisfied to maintain a engine block temperature of 170° F. when engine is operating.

Standard Engine Equipment:

1) 24 Volt Negative Ground Electrical System
2) 6000 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) Two 6 In. Flanged Exhaust Connections
5) Two Element Type Fuel Filter
6) Starter 24 V Pre-wired To Manual Contactors
7) Alternator
8) Lube Oil Pressure Gauge
9) Tachometer
10) Over speed Switch
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 2 In NPT Outlet
14) A 13 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulator; Strainers; Solenoid Valve (furnished on Horizontal Pumps only); Shut Off Valves; Manual By-Pass Valve; pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Flexible Coupling (Horizontal Pumps)
17) Factory Choice Universal Joint Drive Shaft (Vertical Turbine Pumps)
18) Lube Oil Filter with By-Pass
19) Jacket Water Temperature Gauge
20) Low Oil Pressure Switch
21) Dual Starter Contactors
22) Dry Shielded Exhaust Manifold
23) Stub Shaft 3-3/8 In. Dia x 8 In. Usable Length

Caterpillar Diesel Model 3412DIT PA3280
Engine Data

12 Cylinder V Block, 4 Cycle, 14.5 to 1 Compression Ratio, Turbo-Charged, 5.4 Inch Bore, 6 Inch Stroke, 1649 Cubic Inch Displacement.

NOMINAL ENGINE RPM	**1760**	**2100**
UL Listed, FM Approved Bhp @ 77° F. (25·°C.) and 300 Ft. Elevation	538	572
CFM Air @ 60° F. (15.6·°C.) for Combustion	1284	1550
BTU/Minute Heat Rejection to Air	3583	4208
Max. Fuel Consumption-GPM.	0.453	0.522
Lube Oil-Quarts	72	72
Max. Allowable Exhaust Back Pressure In/Hg	2.0	2.0
Cooling System Capacity-Gallons	20	20
Cooling Waste Water-GPM	35	37
Max. Cooling Water Temp·°F (·°C.) *	84(29)	84 (29)
Max. Pump House Temp.°F (·°C.) *	115 (46.1)	115 (46.1)
Min. Pump House Temp. °F (·°C.) *	40 (4.4)	40 (4.4)

* These conditions must be satisfied to maintain a engine block temperature of 170° F. (76.7·°C.) when engine is operating.

Standard Engine Equipment:

1) 24 Volt Negative Ground Electrical System
2) 6000 Watt Jacket Water Pre-heater
3) Dry Type Air Cleaner
4) One 8 In. Flanged Exhaust Connection
5) Two Element Type Fuel Filter
6) Starter 24 V Pre-wired To Manual Contactors
7) Alternator
8) Lube Oil Pressure Gauge
9) Tachometer
10) Over speed Switch
11) High Water Temperature Switch
12) Mechanical Governor
13) Heat Exchanger Suitable for Fresh or Salt Water 2 In NPT Outlet
14) A 13 Terminal Junction Box pre-wired to Electrical System and suitable for connection to a UL/FM Listed Dual Battery Automatic Controller
15) Raw Water Cooling System including Pressure Regulator; Strainers; Solenoid Valve (furnished on Horizontal Pumps only); Shut Off Valves; Manual By-Pass Valve; pre-assembled and mounted on base and piped to engine heat exchanger. Piping from pump discharge to by-pass assembly furnished on horizontal pumps only. Cooling water is to be free of contamination. Waste water from engine is to be discharged under atmospheric pressure (no back pressure).
16) Factory Choice Flexible Coupling (Horizontal Pumps)
17) Factory Choice Universal Joint Drive Shaft (Vertical Turbine Pumps)
18) Lube Oil Filter with By-Pass
19) Jacket Water Temperature Gauge
20) Low Oil Pressure Switch
21) Dual Starter Contactors
22) Stub Shaft 3-3/8 In. Dia. x 8 In. Usable Length

Blank