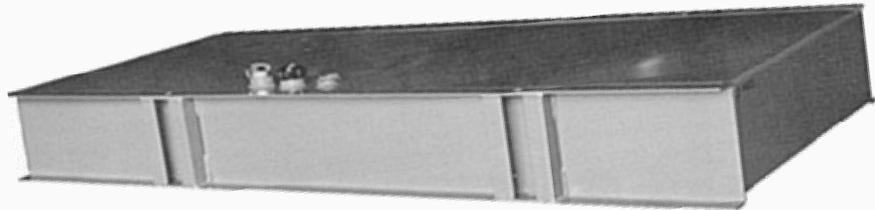


# ***FUEL SUPPLY SYSTEMS***

**PRYCO, INC.**



**PRODUCT  
BROCHURE**



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## DAY TANK— OVERVIEW

Pryco Day Tanks come in three general design types: **Standard, Manual and Trim**. The Standard and Manual tanks have the same physical dimensions. The Manual tanks however do not have a mounted pump, motor, float switch, and related controls. The Standard and the Trim tanks have the same standard equipment (see Standard Features); however, the Trim design has a smaller footprint and is taller. All Pryco Day Tanks are fabricated of heavy gauge steel by certified welders. Each tank is tested accordingly.

## U/L LISTED TANKS

Most Day Tank or Subbase Tank can be **U/L Listed (Label 142)**. In addition to the above features, all U/L Listed tanks additionally have:

- internal extra strength reinforcement;
- a properly sized emergency vent (see “U/L VENT” columns in appropriate tables on the following pages); and,
- a U/L Listed label.

Pryco’s unique U/L File Numbers are:

- **MH12807** which pertain to Day Tanks - specifically:
  - **Aboveground Flammable for Liquid Tanks** (Day Tanks);
  - **Secondary Containment Aboveground Flammable for Liquid Tanks** (Day Tanks with Double Wall Construction); and,

- **Open Top Diked Aboveground Flammable for Liquid Tanks** (Day Tanks with a Rupture Basin).
- **MH17469** which pertain to Sub-base Tanks - specifically
  - **Generator Base Tanks** (Sub-base Tanks);
  - **Secondary Containment Generator Base Tank** (Sub-base Tanks with Double Wall Construction); and,
  - **Open Top Diked Generator Base Tank** (Sub-base Tanks with a Rupture Basin).
- **E102372** which Industrial Control Panels - specifically our Enclosed Industrial Control Panel (option #465).

## LOCAL CODES

The current trend of states, cities and other jurisdictions is to require fuel systems to be configured with certain accessories. The utmost concern of Pryco engineering is for the safety and quality of its products:

- To begin, all Pryco tanks comply with **NFPA-30**.
- Adding a rupture basin or a double wall and a critical high fuel level switch with pump/motor shut down (Option #213) brings tanks into compliance with **NFPA-37**.
- Most Day Tank or Subbase Tank can be **U/L Listed (Label 142)**. The U/L Listing for a double-wall Subbase Tank is "Secondary Containment Generator Base Tank", file #**MH17469**.
- All tanks are fabricated by **Certified Welders** using **quality materials and parts**.

Below (and to the right) are some of the required accessories. **We encourage you to consult with the various governmental regulating agencies to ensure compliance with their codes.**

### STATE OF MASSACHUSETTS:

Name plate stating: Manufacturer, Tank Capacity, Gauge of Steel, Serial Number, and Date Manufactured.

### STATE OF WISCONSIN:

U/L Listed with Double Wall Construction (Day Tank and Subbase). Outdoor installations must be bullet-proof.

### STATE OF FLORIDA:

Pryco Subbase tanks are pre-approved for installation (file #EQ-650). Subbase tanks must be U/L Listed with Double Wall Construction with the following accessories:

- **226** - Remote Fuel Fill Panel
- **227** - Spill Container
- **509** - High Fuel Switch
- **509RB** - Double Wall Leak Detector
- **213** - Critical High Alarm
- **361**- Solenoid Valve, 2", Normally Open (N.O.)
- Fill Station EQ762
- Day Tanks EQ736

### CITY OF NEW YORK:

All Tanks - 200% Rupture Basin (and more)

### STATE OF COLORADO

- 75% Low in 226 Panel

### STATE OF CA

- **UL508**

### CITY OF LOS ANGELES:

U/L Listed with the following accessories:

- **205** - Low Fuel Level Switch
- **209** - High Fuel Level Switch
- **226** - NEMA 3R Enclosure, Remotely Mounted
- **302** - Manual Fill, 2" Threaded
- **315** - Fuel Strainer
- **340** - Valve, Drain-Petcock
- **360** - Solenoid Valve
- **461** - Hand Pump
- **464** - Pipe Stems, Engine Suction Connection (Set of Two)
- Generator Run Circuit
- Pressure Relief Valve

### CITY OF CHICAGO:

U/L Listed with the following accessories:

- **205** - Low Fuel Level Switch
- **213** - Critical High Switch, Pump/Motor Shut Down
- **385** - Rupture Basin
- **395** - Rupture Basin Float Switch Alarm w/ Pump/Motor Shut Down
- **464** - Pipe Stems, Engine Suction and Return Connections (Set of Two)
- **465** - U/L Listed Industrial Control Panel

Note: If HOA switch is used, the OFF position must be wired to an annunciator with a flashing yellow light on a remote or local panel.

**We also have seismic versions available for specifications for all types of tanks.**

***Pryco, Inc. reserves the right to modify this catalog or any portion thereof without prior notice.***

## STANDARD DAY TANKS

TANK SIZE (U.S. GAL)	STANDARD SINGLE WALL SERIES DAY TANKS				STANDARD DOUBLE WALL SERIES DAY TANKS			
	BASIC DESIGN		U/L LISTED		BASIC DESIGN		U/L LISTED	
	MODEL	WT (Lbs)	MODEL	WT (Lbs)	MODEL	WT (Lbs)	MODEL	WT (Lbs)
5	PY5	78	PY5UL	88	PY5DW	165	PY5ULDW	170
10	PY10	125	PY10UL	128	PY10DW	213	PY10ULDW	217
15	PY15	144	PY15UL	148	PY15DW	250	PY15ULDW	255
25	PY25	160	PY25UL	164	PY25DW	281	PY25ULDW	286
50	PY50	193	PY50UL	197	PY50DW	367	PY50ULDW	371
60	PY60	220	PY60UL	226	PY60DW	420	PY60ULDW	428
75	PY75	236	PY75UL	243	PY75DW	454	PY75ULDW	461
100	PY100	257	PY100UL	263	PY100DW	502	PY100ULDW	509
150	PY150	302	PY150UL	309	PY150DW	604	PY150ULDW	611
200	PY200	427	PY200UL	438	PY200DW	882	PY200ULDW	895
275	PY275	495	PY275UL	505	PY275DW	1,111	PY275ULDW	1,124
300	PY300	500	PY300UL	510	PY300DW	1,124	PY300ULDW	1,137
400	PY400	572	PY400UL	583	PY400DW	1,285	PY400ULDW	1,297
500	PY500	613	PY500UL	624	PY500DW	1,396	PY500ULDW	1,409
600	PY600	653	PY600UL	663	PY600DW	1,489	PY600ULDW	1,501
700	PY700	700	PY700UL	710	PY700DW	1,622	PY700ULDW	1,635
800	PY800	743	PY800UL	753	PY800DW	1,897	PY800ULDW	1,910
900	PY900	786	PY900UL	809	PY900DW	2,025	PY900ULDW	2,056
1000	PY1000	818	PY1000UL	841	PY1000DW	2,110	PY1000ULDW	2,141

### TANK VENTING

Each tank (and double wall containment area, if applicable) has a 2" Atmospheric Vent.

If the tank is U/L Listed, an Emergency Vent is added. The size of the U/L Emergency Vent depends upon the wetted surface area of the tank and is shown to the right. If the tank is U/L Listed and double walled, the same size Emergency Vent is also added to the double wall containment area.

**2" - 10—50 Gallons,**  
**3" - 60—150 Gallons,**  
**4" - 200—800 Gallons,**  
**and**  
**6" - 900—1000 Gallons**

## MANUAL DAY TANKS

TANK SIZE (U.S. GAL)	STANDARD SINGLE WALL SERIES DAY TANKS				STANDARD DOUBLE WALL SERIES DAY TANKS			
	BASIC DESIGN		U/L LISTED		BASIC DESIGN		U/L LISTED	
	MODEL	WT (Lbs)	MODEL	WT (Lbs)	MODEL	WT (Lbs)	MODEL	WT (Lbs)
5	PY5M	52	PY5MUL	56	PY5MDW	131	PY5MULDW	137
10	PY10M	104	PY10MUL	108	PY10MDW	195	PY10MULDW	200
15	PY15M	125	PY15MUL	129	PY15MDW	234	PY15MULDW	239
25	PY25M	143	PY25MUL	147	PY25MDW	267	PY25MULDW	271
50	PY50M	178	PY50MUL	182	PY50MDW	355	PY50MULDW	359
60	PY60M	207	PY60MUL	213	PY60MDW	411	PY60MULDW	418
75	PY75M	225	PY75MUL	231	PY75MDW	446	PY75MULDW	453
100	PY100M	246	PY100MUL	252	PY100MDW	494	PY100MULDW	501
150	PY150M	291	PY150MUL	297	PY150MDW	596	PY150MULDW	603
200	PY200M	416	PY200MUL	428	PY200MDW	876	PY200MULDW	888
275	PY275M	485	PY275MUL	495	PY275MDW	1,105	PY275MULDW	1,117
300	PY300M	490	PY300MUL	500	PY300MDW	1,118	PY300MULDW	1,130
400	PY400M	563	PY400MUL	573	PY400MDW	1,278	PY400MULDW	1,291
500	PY500M	604	PY500MUL	614	PY500MDW	1,390	PY500MULDW	1,402
600	PY600M	643	PY600MUL	653	PY600MDW	1,482	PY600MULDW	1,495
700	PY700M	691	PY700MUL	701	PY700MDW	1,616	PY700MULDW	1,628
800	PY800M	733	PY800MUL	743	PY800MDW	1,890	PY800MULDW	1,903
900	PY900M	777	PY900MUL	800	PY900MDW	2,019	PY900MULDW	2,050
1000	PY1000M	809	PY1000MUL	832	PY1000MDW	2,104	PY1000MULDW	2,135

### DOUBLE WALL TANKS

A totally enclosed outer shell may be added to all day tanks and subbase tanks resulting in a minimum 110% capacity secondary containment area. Both the inner and the outer tanks are vented separately and are pressure tested accordingly.

When enclosing a U/L Listed day tank, an additional emergency vent is added to the outer tank the same size as the inner tank. (The U/L Listing is "Secondary Containment Aboveground Tank for Flammable Liquids", File MH12807.)

**TRIM DAY TANKS**

TANK SIZE (U.S. GAL)	TRIM SINGLE WALL SERIES DAY TANKS				TRIM DOUBLE WALL SERIES DAY TANKS			
	BASIC DESIGN		U/L LISTED		BASIC DESIGN		U/L LISTED	
	MODEL	WT (Lbs)	MODEL	WT (Lbs)	MODEL	WT (Lbs)	MODEL	WT (Lbs)
10	PY10T	113	PY10TUL	117	PY10TDW	220	PY10TULDW	225
25	PY25T	137	PY25TUL	141	PY25TDW	276	PY25TULDW	281
50	PY50T	216	PY50TUL	220	PY50TDW	440	PY50TULDW	445
60	PY60T	224	PY60TUL	231	PY60TDW	460	PY60TULDW	469
75	PY75T	232	PY75TUL	239	PY75TDW	479	PY75TULDW	488
100	PY100T	248	PY100TUL	255	PY100TDW	517	PY100TULDW	526

STANDARD DAY TANK FEATURES	STD. TANKS	MANUAL TANKS	TRIM TANKS
Removable 6½" Square Inspection Plate w/Gasket	√	√	√
Fuel Level Gauge	√	√	√
Heavy Duty Float Switch	√		√
"Press-to-Test" Switch	√		√
"Pump Running" Indicator Light	√		√
1/3 hp Thermally Protected, 120vac, 1ph, 60hz, Motor	√		√
2 gpm Bronze Gear Pump w/Stainless Steel Shafts	√		√
<b>Threaded Pipe Connections for:</b>			
• Engine Supply and Return w/Drop Tubes	√	√	√
• Atmospheric Vent	√	√	√
• Emergency Vent (If U/L Listed)	√	√	√
• Pump-To-Tank Inlets and Outlets w/Drop Tubes	√	√	√
• Overflow (Normally back to main storage tank)	√	√	√
• Tank Top Drain w/Drop Tube (located tank bottom on Trim Tanks)	√	√	√
• Two Extra 2" Connections	√		√
• One (1) Manual Fill Connection and One (1) Extra 2" Connection		√	
• <b>If Double Wall Secondary Containment, Add:</b>			
♦ An Atmospheric Vent	√	√	√
♦ An Emergency Vent (If U/L Listed)	√	√	√
♦ Drain For Secondary Containment Area	√	√	√
Removable Top Cover	√	√	√
Epoxy Coating Inside	√	√	√
Pryco (Medium) Gray Exterior Paint (or an industrial color of choice)	√	√	√

**DAY TANKS DIMENSIONS and U/L VENT SIZES**

TANK SIZE (U.S. GAL)	U/L VENT SIZE [1]	STANDARD & MANUAL DAY TANKS						TRIM DAY TANKS											
		SINGLE WALL DESIGN			DOUBLE WALL DESIGN			SINGLE WALL DESIGN			DOUBLE WALL DESIGN								
		WIDTH [2]	DEPTH [3]	HEIGHT [4]	WIDTH [2]	DEPTH [3]	HEIGHT [4]	WIDTH [2]	DEPTH [3]	HEIGHT [4]	WIDTH [2]	DEPTH [3]	HEIGHT [4]						
5	2	24.0	8.0	22.5	30.0	14.0	25.0												
10	2	24.0	16.0	28.0	30.0	18.0	29.5							24.0	8.0	32.0	30.0	14.0	35.0
15	2	24.0	16.0	34.0	30.0	18.0	35.5												
25	2	24.0	16.0	39.0	30.0	18.0	40.5	36.0	8.0	33.5	42.0	14.0	38.0						
50	2	24.0	18.0	46.0	30.0	24.0	47.5	36.0	8.0	57.0	42.0	14.0	61.5						
60	3	24.0	18.0	54.0	30.0	24.0	55.5	36.0	10.0	57.0	42.0	16.0	61.5						
75	3	24.0	18.0	59.0	30.0	24.0	60.5	36.0	12.0	57.0	42.0	18.0	61.5						
100	3	24.0	24.0	59.0	30.0	30.0	60.5	36.0	16.0	57.0	42.0	22.0	61.5						
150	3	24.0	36.0	59.0	30.0	42.0	60.5												
200	4	24.0	48.0	62.5	30.0	54.0	64.0												
275	4	27.0	60.0	62.5	33.0	66.0	64.0												
300	4	28.0	60.0	62.5	34.0	66.0	64.0												
400	4	34.0	66.0	62.5	40.0	72.0	64.0												
500	4	42.0	66.0	62.5	48.0	72.0	64.0												
600	4	42.0	74.0	62.5	48.0	80.0	64.0												
700	4	48.0	76.0	62.5	54.0	82.0	64.0												
800	4	52.0	80.0	62.5	58.0	86.0	64.0												
900	6	56.0	84.0	62.5	62.0	90.0	64.0												
1000	6	58.0	90.0	62.5	64.0	96.0	64.0												

- [1] - U/L emergency vent sizes on U/L Listed Tanks
- [2] - Width dimension is from Side to Side (in inches)
- [3] - Depth dimension is from Front to Back (in inches)
- [4] - Height (in inches) includes a 12½" removable cover and 3" legs on 5-150 gallon tanks, and 1½" legs on 200-1000 gallon tanks.

Drawings for all Pryco tanks may be downloaded in PDF format from our website [www.Pryco.com](http://www.Pryco.com)



## PUMP SETS



**An open design duplex pump set (Model #PYPS1205) set up to be bolted to the floor.**

### Standard Features include:

- Heavy Gauge Steel throughout
- 2 GPM Pump & 1/3 HP Motor
- High Pressure, Crimp Hose connections
- Drip Pan with ½ ” Drain Plug Port
- Priming Tee on intake (#312)
- 3” Formed Channel Legs on Pad Floor
- Common Ports - Suction & Discharge
- Interface with Tank Control Circuits
- Gray or Industrial Color Paint

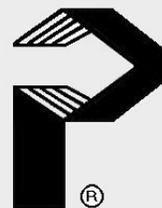
Pryco Pump Sets are high performance fuel system drivers. They are fully integrated, pre-plumbed and pre-wired for trouble-free, “connect and go” installation. We offer a wide range of configurations that will fulfill your requirements. They are intended to transfer #2 fuel oil within an emergency generator system or oil burners.

The following configurations are available:

- The **PYPS1000** “Open Design” series — the components are mounted on a bracket with a drip pan that may be placed directly on the floor or may be ordered with an integrated heavy duty bracket on the back side for wall mounting.
- The **PYPS2000** “Enclosed Design” series — the components of the this design are mounted on a back-plate that is placed within an optional NEMA-1 or NEMA-3R enclosure (Option #338). The enclosure may be wall mounted or may be ordered with legs for floor installation. See page PS-4 for a description of the optional enclosures.
- The **PYPS3000** “Custom Design” series — for special requirements

Refer to the Options Section (starting on page 11) to select accessories for pump sets. Isolation valves provide for easy maintenance of the pump and motor system. Also, fuel filters/separators and pressure relief valves are ordered with most pump sets.

A pump set can accommodate both a supply and a return system.



***Please call the sales rep in your area  
or the factory for more details.***

**The Content Of This Catalog Is Subject To Change Without Notice.**

## SUBBASE TANKS

Pryco's Subbase Tanks are designed specifically for generator set mounting. The physical size of each depends upon the foot print of the gen set and required capacity. Subbase Tanks are available in a **Standard** or a **U/L Listed** design. Each has the following characteristics:

- **Heavy Gauge Steel** - 7-gauge for the top and side channels; 12-gauge for bottom, ends, and internal baffles.
- **Internal Structural Baffles** - located every mounting point and a hot/cold fuel separation baffle.
- **Drain** - 3/8" in tanks up to 200 gallons and 1" in 200+ gallon tanks.
- **Connections** - (1 ea.) 1½" for fuel level gauge; (2 ea.) 2" NPT for lockable fill cap and for vent; and (2 ea.) ½" for engine suction and for engine return.
- **Welded by Certified Welders and Tested to 5psi.**
- **Finish** - Primer and choice of industrial color enamel.

Standard or U/L Listed Subbase may be fitted with **Double-Wall** ("Secondary Containment") construction. Custom designed tanks can accommodate large capacity **Double Wall** and **Rupture Basin** requirements.

U/L Listed Subbase Tanks have additional sized vents for the tank and the double wall area, if present. U/L Listed Sub-Base Tanks are restricted to: Width cannot exceed 82" — Height cannot exceed 30" and Capacity - 2000 gallons or less.

**Consult factory for dimensions and pricing.**

## SUBBASE OPTIONS

Option	Description	Option	Description
503	<b>LOW FUEL LEVEL ALARM</b> - Separate float switch activates red light	535	<b>"BOLT-ON" EXPANDED METAL END</b>
504	<b>HEAVY DUTY SOCKET and RELAY</b> for Option #503 (3 amp. relay, dry contacts)	536	<b>GENERATOR SET MOUNTING</b> - up to
505	<b>LOW FUEL LEVEL SWITCH</b> - Separate float switch for remote annunciator only.	537	<b>ISOLATOR PADS</b> - attached at each mounting point to receive spring isolators
507	<b>HIGH FUEL LEVEL ALARM</b> - Separate float switch activates red light.	540	<b>ENCLOSURE</b> – For Level Sensors (Used
508	<b>HEAVY DUTY SOCKET and RELAY</b> for Option #505 (3 amp. relay, dry contacts)	544	<b>ENCLOSURE</b> – For Control Panel (Used Primarily for Day Tank versions)
509	<b>HIGH FUEL LEVEL SWITCH</b> - Separate	595	<b>LEAK DETECTOR FOR DOUBLE WALL TANKS WITH PUMP AND MOTOR (Day Tank Version of Sub-base)</b> - A sensor within the Double Wall containment area that upon detection of a leak will turn on a red alarm light on control panel <u>and will shut down pump motor.</u> <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 15 amp.
509RB	<b>LEAK DETECTOR SWITCH</b> - Rupture Basin or Double Wall (3 amp., dry		
530	<b>2" RAISED MANUAL FILL</b> - with lockable cap, 8" high ( <b>ships loose</b> ).	595M	<b>LEAK DETECTOR FOR DOUBLE WALL MANUAL TANKS</b> — A sensor within the Double Wall containment area that upon detection of a leak will turn on a red alarm light on control panel. <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 15 amp.
531	<b>EXTRA FITTING</b> through double wall (up to 2")		
532	<b>ADDITIONAL SET of GEN-SET MOUNTING HOLES</b> (over 3 sets).		
533	<b>MOUNTING RAILS</b> to bolt gen-set to wider tanks		
534	<b>"BOLT-ON" END</b> for stub up (not for		

## CUSTOM SUBBASE TANK TRAILERS

When portability is essential, a Pryco tank/trailers is a must. The tank, a subbase tank (sold separately), is integrated into the design of the trailer — all of which centers around the make and model of the gen-set and required total gross vehicle weight (GVW).

The trailer frame and tongue are formed with extra heavy 7-gauge steel. The fenders and step pads are made of heavy gauge formed steel. The step pads also include non-skid surfaces.

**Standard equipment includes:**

- USDOT required lighting package:
  - Protected Brake Lights
  - Park Lights
  - Turn Lights
  - Side Marker Lights
  - License Plate Bracket
- 3-foot Heavy Duty Safety Chains
- Sand Shoe Tongue Jack
- Ball Coupler
- Primer & Light Gray Enamel Finish or An Industrial Color Of Choice



**SUBBASE TANK SOLD SEPARATELY (See Previous Page).  
U/L LISTED TANKS NOT APPLICABLE FOR PORTABLE USE.**

### SINGLE AXLE TRAILERS

MODEL NUMBER	GVW (In lbs.)
PTS1000	1000
PTS2000	2000
PTS3500	3500
PTS4000	4000
PTS5000	5000
PTS6000	6000

### TANDEM AXLE TRAILERS

MODEL NUMBER	GVW (In lbs.)
PTT4000	4000
PTT5000	5000
PTT6000	6000
PTT7000	7000
PTT8000	8000
PTT9000	9000
PTT10000	10,000
PTT12000	12,000

***Pryco Tank/Trailers are built to your specifications.***

### TRAILER OPTIONS

OPT#	DESCRIPTION
600	<b>PARKING BRAKE</b> with Hydraulic Actuator/ Coupler
610 611 612	<b>ELECTRIC BRAKES</b> - Single Axle 3,500 lbs. - Tandem Axle 7,000 lbs. - Tandem Axle 12,000 lbs.
620 621	<b>SURGE HYDRAULIC BRAKES</b> - Single Axle 6,000 lbs. - Tandem Axle 12,000 lbs.
630	<b>STABILIZER JACK</b> (Pair) - 1,200 lbs. each
640	<b>SWIVEL JACK and WHEEL</b>
650	<b>TOWING RING</b>
651	<b>ADJUSTABLE COUPLER and TOWING RING</b> (Trailer Capacity Priced)
652	<b>BREAK-AWAY KIT</b> (Electric Brakes Only)
670 671	<b>PAINT</b> (other than Pryco Gray) - Single Axle - Tandem Axle

## ELECTRICAL OPTIONS

Option Code	Description
<b>200</b>	<b>POWER AVAILABLE LAMP</b> — A <b>Green</b> pilot light that when lit Indicates the control and/or motor circuits are energized and the system is ready.
<b>200R</b>	<i>For remote signal, add —</i> <b>REMOTE SIGNAL PROVISION, POWER AVAILABLE</b> — Components to provide a heavy-duty, remote signal of the Power Available Lamp (option #200). <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 3 amp.
<b>201</b>	<b>LOW FUEL SUPPLY IN MAIN TANK LAMP</b> — A <b>Red</b> pilot light that when lit indicates <b>LOW FUEL LEVEL</b> in the remote source tank (normally the main storage tank). Signal from external tank must be supplied by customer. <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 3 amp. Specify incoming voltage.
<b>201R</b>	<i>For remote signal, add —</i> <b>REMOTE SIGNAL PROVISION, LOW FUEL SUPPLY IN MAIN TANK</b> — Components to provide a heavy-duty, remote signal of the Low Fuel Supply In Main Tank Lamp (option #201). <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 3 amp.
<b>202</b>	<b>PUMP RUN-OFF-AUTOMATIC SWITCH</b> - Three position selector switch that replaces “Press-To-Test” switch. Normally there is one for each pump control system. <b>Includes Option #200.</b>  <ul style="list-style-type: none"> <li>• In the <b>ON</b> position, it overrides the float switch to turn on the motor (and pump).</li> <li>• In the <b>OFF</b> position is used to turn off all power to the control system for the associated pump.</li> <li>• In the <b>AUTO</b> position (normal), the float switch has control of the start and stop of the pump motor.</li> </ul>
<b>203</b>	<b>LOW FUEL LEVEL ALARM</b> — A separate float switch which activates a <b>red</b> pilot light on the control panel when fuel falls below a preset level (normally 75% fuel capacity).
<b>204</b>	<i>For remote signal, add —</i> <b>REMOTE SIGNAL PROVISION, LOW FUEL LEVEL ALARM</b> — Components to provide a heavy-duty, remote signal of the Low Fuel Level Alarm (option #203). <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 3 amp.
<b>205</b>	<b>LOW FUEL LEVEL SWITCH</b> — A separate float switch that activates remote outgoing signal when the fuel falls to a predetermined level (normally 75% fuel capacity). <b>Includes</b> dry terminal (30-watt) contact.

**120vac voltage is assumed for all electrical components.  
230vac, 12vdc, 24vdc, and most industry-standard special voltages may also be specified.**

## ELECTRICAL (Continued)

Option Code	Description
206	<p><b>CRITICAL LOW FUEL ALARM w/ENGINE SHUTDOWN</b> — A separate float switch that activates a <b>red</b> light on the control panel when the fuel level reaches a critical low level -- normally 5% fuel capacity of the tank. It opens a set of normally closed contacts that will shut down the generator engine thus preventing loss of engine fuel prime.</p> <p><b>Includes</b> a double pole relay that closes a normally open contacts for a 3 amp remote outgoing signal.</p>
207	<p><b>HIGH FUEL LEVEL ALARM</b> — A separate float switch which activates a <b>red</b> pilot light on the control panel when fuel fills beyond a preset level (normally 102%).</p>
208	<p><i>For remote signal, add —</i></p> <p><b>REMOTE SIGNAL PROVISION, HIGH FUEL LEVEL ALARM</b> — Components to provide a heavy-duty, remote signal of the High Fuel Level Alarm (option #207). <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 3 amp.</p>
209	<p><b>HIGH FUEL LEVEL SWITCH</b> — A separate float switch that activates a remote outgoing signal when the fuel rises to a predetermined level (normally 102% capacity). <b>Includes</b> dry terminal (30-watt) contacts.</p>
209RB or 209DW	<p><b>RUPTURE BASIN or DOUBLE WALL LEAK DETECTOR SWITCH</b> — A sensor switch located within the secondary containment area. <b>Includes</b> dry terminal (30-watt) contacts.</p>
210	<p><b>HIGH / LOW COMBINATION FUEL LEVEL ALARM</b> — Dual separate float switches that activates red lights on control panel when a low or high fuel level is sensed.</p> <ul style="list-style-type: none"> <li>• <b>HIGH</b> - (See option #207)</li> <li>• <b>LOW</b> - (See option #203)</li> </ul>
211	<p><i>For remote signal, add —</i></p> <p><b>REMOTE SIGNAL PROVISION, HIGH / LOW COMBINATION FUEL LEVEL ALARM</b> — Components to provide a heavy-duty, remote signal of the High / Low Combo Fuel Level Alarm (option #210). <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 3 amp.</p>
212	<p><b>COMBINATION HIGH/LOW FUEL LEVEL SWITCH</b> — Dual separate float switches to provide remote signaling of high and low fuel level conditions.</p> <ul style="list-style-type: none"> <li>• <b>LOW</b> - (See option #205)</li> <li>• <b>HIGH</b> - (See option #209)</li> </ul>

## ELECTRICAL (Continued)

Option Code	Description
<p>213</p> <p><b>213A-120</b></p> <p><b>213A-230</b></p> <p><b>213A-D12</b></p> <p><b>213A-D24</b></p> <p><b>213B-120</b></p> <p><b>213B-230</b></p> <p><b>213B-D12</b></p> <p><b>213B-D24</b></p> <p><b>213C-120</b></p> <p><b>213C-230</b></p> <p><b>213C-D12</b></p> <p><b>213C-D24</b></p> <p><b>213D-120</b></p> <p><b>213D-230</b></p> <p><b>213D-D12</b></p> <p><b>213D-D24</b></p> <p> </p> <p><b>213M</b></p>	<p><b>CRITICAL HIGH FUEL ALARM w/PUMP MOTOR SHUTDOWN</b> — This switch/ alarm assembly prevents tank overfilling when the fuel level reaches a critical high level - normally 3-inches from the top of the tank or 103%.</p> <p><b>Tanks with a pump / motor system</b> — a separate float switch activates a red alarm light on the tank control panel, shuts down pump motor(s), and closes a normally open solenoid valve that is installed at fuel inlet. To specify solenoid valve voltage and inlet pipe size, use option codes 213A thru 213H shown below.</p> <p>1/2" NPT Fuel Line—120 vac Includes NO Solenoid Valve</p> <p>1/2" NPT Fuel Line—230 vac Includes NO Solenoid Valve</p> <p>1/2" NPT Fuel Line—12vdc Includes NO Solenoid Valve</p> <p>1/2" NPT Fuel Line—24vdc Includes NO Solenoid Valve</p> <p>1" NPT Fuel Line—120 vac Includes NO Solenoid Valve</p> <p>1" NPT Fuel Line—230vac Includes NO Solenoid Valve</p> <p>1" NPT Fuel Line—12vdc Includes NO Solenoid Valve</p> <p>1" NPT Fuel Line—24vdc Includes NO Solenoid Valve</p> <p>1-1/2" NPT Fuel Line—120 vac Includes NO Solenoid Valve</p> <p>1-1/2" NPT Fuel Line—230vac Includes NO Solenoid Valve</p> <p>1-1/2" NPT Fuel Line—12vdc Includes NO Solenoid Valve</p> <p>1-1/2" NPT Fuel Line—24vdc Includes NO Solenoid Valve</p> <p>2" NPT Fuel Line—120 vac Includes NO Solenoid Valve</p> <p>2" NPT Fuel Line—230vac Includes NO Solenoid Valve</p> <p>2" NPT Fuel Line—12vdc Includes NO Solenoid Valve</p> <p>2" NPT Fuel Line—24vdc Includes NO Solenoid Valve</p> <p> </p> <p><b>Manual-fill and Subbase Tanks (no pump/motor system installed)</b> — a separate float switch activates a red alarm light on the tank control panel.</p>
<p><b>214</b></p>	<p><b>EXPLOSION PROOF FLOAT SWITCH</b> — This switch assembly has the same functionality as our standard float switch but all components are explosion proof, except the contactor, which is housed within an explosion proof enclosure.</p>
<p><b>215</b></p>	<p><b>FLOAT VALVE</b> — This option is used when a day tank is gravity fed from a main storage tank. Although technically it is not an electrical item, it replaces the standard float switch (option 217). Therefore, there is no electrical level control and annunciation directly associated with this option.</p>
<p>216</p> <p><b>216-1-10</b></p> <p><b>216-1-15</b></p> <p><b>216-1-20</b></p> <p><b>216-1-30</b></p> <p><b>216-2-15</b></p> <p><b>216-3-15-230</b></p> <p><b>216-3-15-460</b></p> <p><b>216-DC</b></p>	<p><b>CIRCUIT BREAKER</b> — This option, which includes the breaker(s) and an enclosure, is used to protect pump motors. The actual breaker is sized according to the ampere draw of the motor(s) and voltage. Standard breaker sizes are:</p> <p>Single pole, Single Phase, A/C — 10 Amp.</p> <p>Single pole, Single Phase, A/C — 15 Amp.</p> <p>Single pole, Single Phase, A/C — 20 Amp.</p> <p>Single pole, Single Phase, A/C — 30 Amp</p> <p>Double pole, Single Phase, A/C — 15 Amp.</p> <p>230 vac, Three Phase — 15 Amp.</p> <p>460 vac, Three Phase — 15 Amp.</p> <p>All D/C motors - Up to 30 Amp.</p>

## ELECTRICAL (Continued)

Option Code	Description
<p><b>217</b></p> <p><b>217LAG</b></p> <p><b>217SB</b></p> <p><b>217TRIM</b></p>	<p><b>FLOAT SWITCH (Standard)</b> — This switch controls the start and stop of the pump motor. There are two sensors:</p> <ul style="list-style-type: none"> <li>• an <b>ON</b> sensor normally set at the 86% level, and</li> <li>• an <b>OFF</b> sensor that is normally set at the 100% level.</li> </ul> <p>This option includes a bypassing “press-to-test” momentary contact switch to manually test the pump motor, and an amber pump-running light. The contactor has two N.O. and two N.C. secondary terminals that is rated at 15 amps.</p> <p>FLOAT SWITCH– LAG for Standard Tank</p> <p>FLOAT SWITCH– Standard Settings for Subbase Tank</p> <p>FLOAT SWITCH– Standard Settings for Trim Tank</p>
<p><b>218</b></p>	<p><b>DOUBLE POLE/DOUBLE THROW (DPDT) FLOAT SWITCH (Replaces Standard Float Switch #217)</b> — This switch functions the same as our Standard Float Switch (option 217) with the exception — this switch has an additional set of two N.O and two N.C. secondary terminals rated at 15 amps.</p>
<p><b>219</b></p> <p><b>219A</b></p> <p><b>219B</b></p> <p><b>219C</b></p> <p><b>219D</b></p> <p><b>219E</b></p> <p><b>219F</b></p>	<p><b>HEATER &amp; THERMOSTAT</b> — An assembly used to heat the fuel oil inside a tank to maintain a specified temperature. While the thermostat controls the on/off of the actual heater to achieve desired fuel temperature, a float switch and relay monitors fuel level. If the fuel drops below a pre-set level of 1” above the heater, the heater is shut off regardless of temperature. This is to protect the heater from “burn-out”.</p> <div style="text-align: center;">  </div> <p><b>5 to 25 Gallons</b></p> <p>PY5 - PY25 — 300w, 120vac</p> <p><b>Above 25 Gallons</b></p> <p>PY50 - PY100 — 1000w, 120vac</p> <p>PY150 - PY300 — 1500w, 120vac</p> <p>PY400 - PY500 — 2000w, 120vac</p> <p>PY600 - PY800 — 4000w, 240vac</p> <p>PY900 - PY1000—8000w, 240vac</p> <div style="text-align: center;">  </div>
<p><b>220</b></p>	<p><b>MULTIPLEX REMOTE PUMP/MOTOR CONTROLLER</b> — An automatic transfer switching device used to control alternating remote pumps/motors pumping fuel from main storage tank to any number day tanks.</p>
<p><b>221</b></p>	<p><b>EXPLOSION PROOF LOW LEVEL SWITCH</b> — An explosion-proof sensor that activates remote outgoing signal when the fuel falls to a pre-determined level. <b>Includes</b> dry terminal (30-watt) contacts. Terminals located in explosion-proof box.</p>
<p><b>222</b></p>	<p><b>EXPLOSION PROOF HIGH LEVEL SWITCH</b> — An explosion-proof sensor that activates remote outgoing signal when the fuel rises to a pre-determined level. <b>Includes</b> dry terminal (30-watt) contacts. Terminals located in explosion-proof box.</p>

## ELECTRICAL (Continued)

Option Code	Description
223	<b>ALARM HORN, COMPACT</b> — This horn is a compact design, vibrating AC or DC horn with low power drain that normally surface mounts on a control panel. Sound output is 104 dB at one foot (86 dB at 10 ft.). It is intended for indoor or protected use.
224	<b>ALARM HORN, WEATHERPROOF</b> — A low-current, high decibel vibrating horn for heavy-duty indoor/outdoor use. Sound output is adjustable over a 25 dB range from 78 dB to 103 dB (10 feet).
225	<b>FLASHING LIGHT - YELLOW</b> — Used as an “attention getter”, this option may be used in most any alarm circuit. Please specify associated alarm option.
225R	<i>For remote signal, add —</i> <b>REMOTE SIGNAL PROVISION, FLASHING LIGHT - YELLOW</b> — Components to provide a heavy-duty, remote signal of the Flashing Light, Yellow (option #225). <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 3 amp.
226	<b>REMOTE FUEL FILL PANEL</b> — A U/L Listed, NEMA 3R enclosure, remotely mounted that is used to monitor tank fuel level filling activities. At 90% fuel fill, alarm horn activates and a light illuminates (alarm horn and silence switch included). At 95% an alarm horn sounds, light illuminates, and an optional N/O solenoid valve (opt #361), if installed, closes allowing no more fuel to enter tank.
226SB	<b>REMOTE FUEL FILL PANEL— NEMA 3R</b> Enclosure (Subbase)
226FM	<b>WALL-FLUSH MOUNTING of REMOTE FUEL FILL PANEL</b> — Necessary brackets needed to recess panel enclosure (not door) into wall.
226PM	<b>ASSISTING PUMP and MOTOR for REMOTE FUEL FILL PANEL</b> — The controls, brackets, etc. necessary to mount a single pump and motor to pump fuel to a non-gravity fill main storage tank. <b>NOTE:</b> Specify / order pump and motor separately according to requirements.
227	<b>SPILL CONTAINER</b> - 7.5 gallon container that is wall or pedestal mounted, that is used to prevent over-spill from contaminating soil, floor, etc. High speed drain valve included.
227-2	2" NPT Outlet connection
227-3	3" NPT Outlet connection
227-4	4" NPT Outlet connection
227G	<b>SPILL CONTAINER</b> - 5 gallon container (for in-ground, grade level) to prevent over-spill from contaminating soil, etc. High speed drain valve included.
229	<b>DRIP BASIN</b> - one gallon container, lockable with gasket for manual filling of Day Tank or Subbase. 2" NPT Outlet connection



## ELECTRICAL (Continued)

Option Code	Description
230	<p><b>REMOTE FUEL FILL STATION</b> — A lockable, U/L Listed, NEMA 3R, dual-door enclosure designed to accommodate delivery truck curb-side filling of storage tank via hose connection. Inside are two compartments:</p> <ul style="list-style-type: none"> <li>the right side has a brass Cam-and-Groove fitting, a check valve, a manual shut-off valve, and a 7-1/2 containment sump;</li> <li>the left (isolated) side has the electrical components required to monitor fuel activities and report abnormal conditions.</li> </ul> <p>When the tank being filled reaches a 90% set point, a warning light comes on and an alarm horn sounds. If filling continues, a second light comes on at 95% capacity and an alarm horn again sounds. At this time, an optional solenoid valve (opt 361) will close allowing no more fuel to enter the tank. A silence switch and remote contact outputs are standard.</p>
230-22	7-1/2 Gal Spill Containment, 2" Cam-and-Groove fill and 2" plumbing and outlet
230-22-12	7-1/2 Gal Spill Containment, 2" Cam and Groove fill, 2" Plumbing and outlet, 12vdc
230-22-230	7-1/2 Gal Spill Containment, 2" Cam and Groove fill, 2" Plumbing and outlet, 230vac
230-22-24	7-1/2 Gal Spill containment, 2" Cam and Groove fill, 2" Plumbing and outlet, 24vdc
230-23	7-1/2" Gal Spill containment, 2" Cam and Groove fill, 3" Plumbing and outlet
230-32	7-1/2 Gal Spill containment, 3" Cam-and-Groove fill and 2" plumbing and outlet
230-33	7-1/2 Gal Spill containment, 3" Cam-and-Groove fill and 3" plumbing and outlet <i>(Available in 120 vac, 12 vdc and 24 vdc. Specify other than 120 vac.)</i>
230FM	<b>WALL-FLUSH MOUNTING of REMOTE FUEL FILL STATION</b> — Necessary brackets needed to recess panel enclosure (not door) into wall.
230PM	<b>ASSISTING PUMP and MOTOR for REMOTE FUEL FILL STATION</b> — The controls, brackets, etc. necessary to mount a single pump and motor to pump fuel to a non-gravity fill main storage tank. <b>NOTE:</b> Specify / order pump and motor separately according to requirements.
232	<p><b>FUEL DELIVERY CONTROL STATION</b> — A lockable, weatherproof, enclosure with a 20-gallon spilled fuel containment area. The 2" or 3" main fuel line features:</p> <ul style="list-style-type: none"> <li>a brass Cam-and-Groove fitting for standardized lock-on filling;</li> <li>an isolation ball valve;</li> <li>a check valve to prevent "back-fill" flooding</li> </ul> <p>Any spilled fuel falls into the 20-gallon sump where it can be either manually drained or pumped back into the main fuel line using a hand pump.</p>
232-22	2" Cam-and-Groove fill and 2" plumbing and outlet
232-32	3" Cam-and-Groove fill and 2" plumbing and outlet
232-33	3" Cam-and-Groove fill and 3" plumbing and outlet
232PM	<b>ASSISTING PUMP and MOTOR for FUEL DELIVERY CONTROL STATION</b> The controls, brackets, etc. necessary to mount a single pump and motor to pump fuel to a non-gravity fill main storage tank. <b>NOTE:</b> Specify / order pump and motor separately according to requirements.

## ELECTRICAL (Continued)

Option Code	Description
240	<b>ALARM TEST SWITCH</b> — A momentary contact switch that tests up to 4 alarm circuits (alarm contactors, lights, and horn, if installed).
242	<b>ALARM SILENCE SWITCH</b> — A momentary contact switch that resets sounding alarm.
244	<b>PUMP RUNNING CONTACTS</b> — A provision for heavy-duty, remote signal indicating a pump is running.  <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 3 amp.
245	<b>REMOTE SIGNAL DRY CONTACTS</b> — Components to provide a heavy-duty, remote signal of a specified alarm.  <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 3 amp.
295	<b>LEAK DETECTOR FOR DOUBLE WALL TANKS WITH PUMP AND MOTOR</b> - A sensor within the Double Wall containment area that upon detection of a leak will turn on a red alarm light on control panel <u>and will shut down pump motor</u> .  <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 15 amp.
295M	<b>LEAK DETECTOR FOR DOUBLE WALL MANUAL TANKS</b> — A sensor within the Double Wall containment area that upon detection of a leak will turn on a red alarm light on control panel.  <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 15 amp.

## MECHANICAL OPTIONS

Option Code	Description
301	<b>MANUAL FUEL FILL w/LOCKING CAP</b> — 2" NPT, Used on Standard and Trim Day Tanks for manual filling, or fuel inlet from an Option 230, Remote Fuel Fill Station, or Option 232, Fuel Delivery Control Station. <b>Includes</b> Option 302.
302	<b>MANUAL FUEL FILL, THREADED</b> — 2" NPT connection and a drop tube in tank for Option 301, Manual Fuel Fill w/Locking Cap.
303	<b>MANUAL FUEL FILL, OVERFILL PREVENTION</b> — Features a 2" Cam-and-Groove coupling inlet for fuel truck filling. An internal valve requires 5 psi of incoming fuel pressure to force a float to close when fuel level rises to 4" from top of the tank.



## MECHANICAL (Continued)

Option Code	Description
<p><b>305</b></p> <p><b>305-05</b> <b>305-10</b> <b>305-15</b> <b>305-25</b></p>	<p><b>WALL MOUNTING BRACKETS, DAY TANKS</b> - 5 thru 25 gallon tanks.</p> <p>5 gallon day tank 10 gallon day tank 15 gallon day tank 25 gallon day tank</p>
<p><b>310</b></p> <p><b>310A</b> <b>310B</b> <b>310C</b> <b>310D</b> <b>310E</b> <b>310X</b></p>	<p><b>PIPE STANDS, ADAPTER ONLY (set of 4)</b> — Adapters (only) and frame to elevate day tank from floor.</p> <p>10 thru 25 gallon day tanks 50 thru 100 gallon day tanks 150 gallon day tank 200 thru 275 gallon day tanks 300 gallon day tank All other sizes—specify day tank size</p>
<p><b>311</b></p>	<p><b>FILTER MINDER</b> — A differential pressure instrument used to monitor and report the working efficiency of a fuel filtering system. If low or high pressure differential is sensed, an alarm circuit is activated. <i>(Installed or ships loose if filter ships loose.)</i></p>
<p><b>312</b></p> <p><b>312A</b> <b>312B</b> <b>312C</b> <b>312D</b></p>	<p><b>PRIMING TEE</b> — for easy system startup and pump system re-priming.</p> <p>1/2" NPT 1" NPT 1-1/2" NPT 2" NPT</p>
<p><b>313</b></p> <p><b>313-2</b> <b>313-4</b></p>	<p><b>COMPOUND GAUGE, PRESSURE/VACUUM</b> — for inline monitoring pressure normally on the immediate pump outlet (pressure side) or for inline monitoring of vacuum normally on the immediate pump inlet (suction side).</p> <p>2" Dial 4" Dial—Glycerin Filled</p>
<p><b>314</b></p> <p><b>314-YA</b> <b>314-YB</b> <b>314-YC</b> <b>314-YD</b></p> <p><b>314-KB1</b> <b>314-KB2</b> <b>314-KC2</b></p>	<p><b>FUEL LINE STRAINER</b> — <i>In-line</i> strainers are normally located before pumps, meter, and other devices to filter debris from flowing into and damaging equipment. Strainer baskets are removable for cleaning &amp; replacement.</p> <p><b><u>Y-Type Strainers</u></b></p> <p>1/2" NPT, 20 Mesh 1" NPT, 20 Mesh 1-1/2" NPT, 40 Mesh 2" NPT, 40 Mesh</p> <p><b><u>Vertical Strainers</u></b></p> <p>1" NPT, 100 Mesh—Single 1" NPT, 40 Mesh—Duplex 1-1/2" NPT, 40 Mesh—Duplex</p> <div style="display: flex; justify-content: space-around; align-items: center;">    </div>

## MECHANICAL (Continued)

Option Code	Description
<b>315</b>	<b>FUEL FILTER</b>
<b>315SGL</b>	<b>SINGLE</b> —1" NPT 60 Mesh, 40 sq. in. element surface loading area for long life between cleanings. (Ships loose—Wt: 6 lbs)
<b>315DPX</b>	<b>DUPLEX</b> — Two Option ##315 fuel filters connected in parallel with two 3-way valves for isolation or tandem operation. (Ships loose—18 lbs)
<b>315FLT</b>	<b>REPLACEMENT FILTER &amp; GASKET</b> For options #315SGL and #315DPX (Ships loose—Wt: 3 lbs)
<b>318</b>	<b>FUEL FILTER / WATER SEPARATOR (TYPE-F)</b>
<b>318SGL</b>	<b>SINGLE</b> —A 25 micron filter and housing to effectively remove water and solids from fuel. 1-1/2" NPT, U/L approved up to 50 psi. (Ships loose—41 lbs)
<b>318DPX</b>	<b>DUPLEX</b> — Two Option ##318 fuel filters connected in parallel with two 3-way valves for isolation or tandem operation. (Ships loose—85 lbs)
<b>318FLT</b>	<b>REPLACEMENT FILTER &amp; GASKET</b> For option #318SGL And #318DPX (Ships loose—Wt: 3 lbs)
<b>319</b>	<b>FUEL FILTER / WATER SEPARATOR (TYPE-R)</b> — A filter and housing to effectively remove water and solids from fuel. U/L approved up to 50 psi. (Available in 2, 10, 25, and 30 micron filters—please specify.)
<b>319SGL</b>	Single Separator Unit — Performance - 180 gal / hr (Ships loose—10 lbs)
<b>319DPX</b>	Duplex Manifold Unit — Performance - 360 gal / hr (Ships loose—26 lbs)
<b>319TRI</b>	Tri-Manifold Unit — Performance - 540 gal / hr (Ships loose—39 lbs)
<b>320</b>	<b>VENT CAP</b> — Mushroom
<b>320A</b>	2" NPT (Ships loose — Wt: 2 lbs)
<b>320B</b>	3" NPT (Ships loose — Wt: 4 lbs)
<b>320C</b>	4" NPT (Ships loose — Wt: 5 lbs)
<b>320D</b>	6" NPT (Ships loose — Wt: 7 lbs)
<b>321</b>	<b>VENT CAP, PRESSURE RELIEF</b>
<b>321A</b>	2" NPT (Ships loose — Wt: 5 lbs)
<b>321B</b>	3" NPT (Ships loose — Wt: 10 lbs)
<b>321C</b>	4" NPT (Ships loose — Wt: 15 lbs)
<b>321D</b>	6" NPT (Ships loose — Wt: 25 lbs)
<b>322</b>	<b>VENT KIT WITH CAPS &amp; FITTINGS, SINGLE WALL</b> - A tank venting system that includes one working vent cap and one emergency pressure relief cap.
<b>322A</b>	2" NPT (Ships loose — Wt: 4 lbs)
<b>322B</b>	3" NPT (Ships loose — Wt: 5 lbs)
<b>322C</b>	4" NPT (Ships loose — Wt: 7 lbs)
<b>322D</b>	6" NPT (Ships loose — Wt: 15 lbs)



## MECHANICAL OPTIONS (Continued)

Option Code	Description																																								
<p><b>323</b></p> <p><b>323A</b></p> <p><b>323B</b></p> <p><b>323C</b></p> <p><b>323D</b></p>	<p><b>VENT KIT, DOUBLE WALL</b> — A tank venting system that includes <u>two</u> working vent caps and <u>two</u> emergency pressure relief caps.</p> <p>2" NPT (Ships loose — Wt: 10 lbs)</p> <p>3" NPT (Ships loose — Wt: 19 lbs)</p> <p>4" NPT (Ships loose — Wt: 27 lbs)</p> <p>6" NPT (Ships loose — Wt: 46 lbs)</p>																																								
<b>324</b>	<p><b>VENT OVERFLOW DETECTOR</b> — A sensor to detect any fuel overflowing into the vent. A red alarm light on the tank control panel is activated and pump motor(s) are shut down, (15 amp).</p>																																								
<b>326</b>	<p><b>SIGHT GLASS</b> - Glass tube with two hand valves, guard included</p>																																								
<b>330</b>	<p><b>EXTRA PIPE CONNECTION / PORTS</b> — Hole and NPT weld flange for customer specified additional plumbing and control port. Location of these extra connections follow these guideline:</p> <ul style="list-style-type: none"> <li>• <b>25 thru 150 Gallon Single Day Tanks</b>—Back Panel , Left Side (looking at front of tank)</li> <li>• <b>25 thru 150 Gallon Double Day Tanks</b>—Top, Outside Cover , Left Side (looking at front of tank)</li> <li>• <b>200 and Up Gallons</b>— Top/Center, Last in string of connection ports.</li> </ul> <p>If a different location is required, please specify.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr style="background-color: #000080; color: #ffff00;"> <th style="text-align: center;">OPT. CODE</th> <th style="text-align: center;">NPT SIZE</th> <th style="width: 20px;"></th> <th style="text-align: center;">OPT. CODE</th> <th style="text-align: center;">NPT SIZE</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><b>330A</b></td> <td style="text-align: center;">1/2"</td> <td></td> <td style="text-align: center;"><b>330H</b></td> <td style="text-align: center;">1/8"</td> </tr> <tr> <td style="text-align: center;"><b>330B</b></td> <td style="text-align: center;">1"</td> <td></td> <td style="text-align: center;"><b>330J</b></td> <td style="text-align: center;">1/4"</td> </tr> <tr> <td style="text-align: center;"><b>330C</b></td> <td style="text-align: center;">1-1/2"</td> <td></td> <td style="text-align: center;"><b>330K</b></td> <td style="text-align: center;">3/8"</td> </tr> <tr> <td style="text-align: center;"><b>330D</b></td> <td style="text-align: center;">2"</td> <td></td> <td style="text-align: center;"><b>330L</b></td> <td style="text-align: center;">3/4"</td> </tr> <tr> <td style="text-align: center;"><b>330E</b></td> <td style="text-align: center;">3"</td> <td></td> <td style="text-align: center;"><b>330M</b></td> <td style="text-align: center;">1-1/4"</td> </tr> <tr> <td style="text-align: center;"><b>330F</b></td> <td style="text-align: center;">4"</td> <td></td> <td style="text-align: center;"><b>330N</b></td> <td style="text-align: center;">2-1/2"</td> </tr> <tr> <td style="text-align: center;"><b>330G</b></td> <td style="text-align: center;">6"</td> <td></td> <td style="text-align: center;"><b>330P</b></td> <td style="text-align: center;">5"</td> </tr> </tbody> </table>	OPT. CODE	NPT SIZE		OPT. CODE	NPT SIZE	<b>330A</b>	1/2"		<b>330H</b>	1/8"	<b>330B</b>	1"		<b>330J</b>	1/4"	<b>330C</b>	1-1/2"		<b>330K</b>	3/8"	<b>330D</b>	2"		<b>330L</b>	3/4"	<b>330E</b>	3"		<b>330M</b>	1-1/4"	<b>330F</b>	4"		<b>330N</b>	2-1/2"	<b>330G</b>	6"		<b>330P</b>	5"
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<p><b>334</b></p> <p><b>334-1</b></p> <p><b>334-2</b></p> <p><b>334-3</b></p> <p><b>334-4</b></p>	<p><b>DAY TANK COVER—NEMA-1 ENCLOSURE FOR DAY TANKS</b></p> <p><b>SINGLE</b> pump, motor, and control components.</p> <p><b>DUPLEX</b> (2) pumps, motors, and control components. This cover is standard equipment for duplex supply pumps and motors with Options #s 427, 427A, or 427B.</p> <p><b>TRIPLEX</b> (3) pumps, motors, and control components.</p> <p><b>QUAD</b> (4) pumps, motors, and control components.</p> <p style="color: red;">NOTE: (A Single Pump/Motor cover is standard equipment for Standard Day Tank, Trim Day Tank, and Manual Day Tank with electrical components.)</p>																																								

## MECHANICAL OPTIONS (Continued)

Option Code	Description																																								
<b>335</b>	<p><b>DAY TANK COVER - WEATHERPROOF</b> — A NEMA 3R rated enclosure to provide protection against normal weather elements. The control panel viewing area is covered with sealed plexi glass and all openings are piped-through. Inside, a pan provides protection from flooding.</p> <p><b>335-1</b> SINGLE Pump / Motor</p> <p><b>335-2</b> DUPLEX Pumps / Motors</p> <p><b>335-3</b> TRIPLEX Pumps / Motors</p> <p><b>335-4</b> QUAD Pumps / Motors</p>																																								
<b>335RB</b>	<p><b>STEEL WEATHERPROOFING OF RUPTURE BASIN</b> — A NEMA 3R rated enclosure of the rupture basin containment area to provide outdoor protection against normal weather elements. A viewing window is covered with sealed plexi glass and all openings are piped-through.</p> <p><b>335RB/01</b> 10 - 25 Gallon Tank</p> <p><b>335RB/02</b> 50 - 75 Gallon Tank</p> <p><b>335RB/03</b> 100 - 150 Gallon Tank</p> <p><b>335RB/04</b> 200 - 300 Gallon Tank</p> <p><b>335RB/05</b> 400 - 600 Gallon Tank</p> <p><b>335RB/06</b> 700 - 800 Gallon Tank</p> <p><b>335RB/07</b> 900 - 1000 Gallon Tank</p>																																								
<b>338</b>	<p><b>ENCLOSURE - PUMP SET</b>                      A NEMA-1 or NEMA-3R (see below) enclosure featuring:</p> <ul style="list-style-type: none"> <li>• Heavy galvanized steel,</li> <li>• A lockable door with a continuous hinge (may be complimented with a optional door interlock system - see Option 339 below),</li> <li>• Protected vent openings for adequate ventilation</li> </ul> <p style="color: red;">Please use 338 Option Codes in left column for these pump set models:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 25%;">PUMP SET MODEL #</th> <th style="width: 15%;">NEMA RATING</th> <th style="width: 50%;">PUMP CONFIG.</th> </tr> </thead> <tbody> <tr> <td><b>338A</b></td> <td>PYPS2100</td> <td>1</td> <td>Single Pump</td> </tr> <tr> <td><b>338B</b></td> <td>PYPS2200</td> <td>1</td> <td>Duplex Pump</td> </tr> <tr> <td><b>338C</b></td> <td>PYPS2100</td> <td>3R</td> <td>Single Pump</td> </tr> <tr> <td><b>338D</b></td> <td>PYPS2200</td> <td>3R</td> <td>Duplex Pump</td> </tr> <tr> <td><b>338E</b></td> <td>PYPS1100</td> <td>1</td> <td>Single Pump</td> </tr> <tr> <td><b>338F</b></td> <td>PYPS1200</td> <td>1</td> <td>Duplex Pump</td> </tr> <tr> <td><b>338G</b></td> <td>PYPS1100</td> <td>3R</td> <td>Single Pump</td> </tr> <tr> <td><b>338H</b></td> <td>PYPS1200</td> <td>3R</td> <td>Duplex Pump</td> </tr> <tr> <td><b>338X</b></td> <td>PYPS3000</td> <td>—</td> <td>(ALL)</td> </tr> </tbody> </table>		PUMP SET MODEL #	NEMA RATING	PUMP CONFIG.	<b>338A</b>	PYPS2100	1	Single Pump	<b>338B</b>	PYPS2200	1	Duplex Pump	<b>338C</b>	PYPS2100	3R	Single Pump	<b>338D</b>	PYPS2200	3R	Duplex Pump	<b>338E</b>	PYPS1100	1	Single Pump	<b>338F</b>	PYPS1200	1	Duplex Pump	<b>338G</b>	PYPS1100	3R	Single Pump	<b>338H</b>	PYPS1200	3R	Duplex Pump	<b>338X</b>	PYPS3000	—	(ALL)
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## MECHANICAL OPTIONS (Continued)

Option Code	Description	
<b>339</b>	<b>DOOR INTERLOCK w/CIRCUIT BREAKER</b> — Used to require power to pump set to be shut down before door may be opened. Circuit breaker sized to motor.	
<b>339-1-10</b>	Single pole, 1ph, A/C - 10 Amp.	
<b>339-1-15</b>	Single pole, 1ph, A/C - 15 Amp.	
<b>339-1-20</b>	Single pole, 1ph, A/C - 20 Amp.	
<b>339-1-30</b>	Single pole, 1ph, A/C - 30 Amp.	
<b>339-2-15</b>	Double pole, 1ph, A/C - 10 Amp.	
<b>339-3-15A</b>	3-Phase, A/C, 230vac—15 Amp.	
<b>339-3-15B</b>	3-Phase, A/C, 460vac—15 Amp.	
<b>339-DC</b>	All D/C motors - Up to 30 Amp.	
<b>340</b>	<b>DRAIN PETCOCK VALVE</b> — A gate valve that replaces threaded plug in end at bottom of tank	
<b>341</b>	<b>DRAIN, PIPED THROUGH SECONDARY CONTAINMENT AREA</b> — The plumbing necessary to drain the inner tank through to the outside of a secondary containment area.	
<b>341DW</b>	For Double Wall tank configuration	
<b>341RB</b>	For Rupture Basin secondary containment	
<b>345</b>	<b>DRAIN, NOMINAL 10 GPM. Includes</b> a lockable 1/4-turn manual valve <b>345DW</b> — For Double Wall and <b>345RB</b> — For Rupture Basin	
<b>350</b>	<b>DRAIN, EMERGENCY FOR REMOTE ACTUATION</b> - A nominal 10 GPM drain. Signaled valve gravity drains day tank to main tank using existing plumbing. Light on control panel illuminates and pump-motor disconnects.	
<b>352</b>	<b>OIL COOLER</b> — mounted on day tank for cooling hot fuel returned from engine. Low noise level.  <b>Please use 352 Option Codes in left column.</b>  <u>Installed on Day Tank</u>	
<b>352</b>	Standard Oil Cooler Motor	
<b>352WP</b>	Standard Oil Cooler Motor with Weatherproof Motor	
	<u>Ship loose as part</u>	
<b>352SL</b>	Standard Oil Cooler Motor	
<b>352WPSL</b>	Standard Oil Cooler Motor with Weatherproof Motor	
<b>353</b>	<b>TEMPERATURE SWITCH</b> — to automatically control on/off of oil cooler motor.	
<b>354</b>	<b>HIGH TEMPERATURE RETURN THERMOSTATIC VALVE</b> — 1" NPT <b>(Specify Temperature)</b>	
<b>355</b>	<b>CHECK VALVE</b> — installed on pump intake to prevent loss of pump prime  <b>Please use 355 Option Codes in left column.</b>	
<b>355A</b>	1/2" (up to 6 gpm pumps)	
<b>355B</b>	1" (up to 25 gpm pumps)	
<b>355C</b>	1 1/2" (up to 65 gpm pumps)	

## MECHANICAL OPTIONS (Continued)

Option Code	Description		
<b>360</b>	<b>SOLENOID VALVE, Normally Closed (N/C)</b> — Installed on tank inlet to prevent tank flooding and for other special applications.		
<b>360A-120</b> <b>360B-120</b> <b>360C-120</b> <b>360D-120</b>	<b>120vac Systems</b> — ½" (up to 4 gpm pumps) <b>120vac Systems</b> — 1" (up to 10 gpm pumps) <b>120vac Systems</b> — 1½" (up to 23 gpm pumps) <b>120vac Systems</b> — 2" (up to 40 gpm pumps)		Normally for 1/2", 1", and 1-1/2" Solenoid Valves
<b>360A-230</b> <b>360B-230</b> <b>360C-230</b> <b>360D-230</b>	<b>230vac Systems</b> — ½" (up to 4 gpm pumps) <b>230vac Systems</b> — 1" (up to 10 gpm pumps) <b>230vac Systems</b> — 1½" (up to 23 gpm pumps) <b>230vac Systems</b> — 2" (up to 40 gpm pumps)		
<b>360A-D12</b> <b>360B-D12</b> <b>360C-D12</b> <b>360D-D12</b>	<b>12vdc Systems</b> — ½" (up to 4 gpm pumps) <b>12vdc Systems</b> — 1" (up to 10 gpm pumps) <b>12vdc Systems</b> — 1½" (up to 23 gpm pumps) <b>12vdc Systems</b> — 2" (up to 40 gpm pumps)		Normally for 2" Solenoid Valves
<b>360A-D24</b> <b>360B-D24</b> <b>360C-D24</b> <b>360D-D24</b>	<b>24vdc Systems</b> — ½" (up to 4 gpm pumps) <b>24vdc Systems</b> — 1" (up to 10 gpm pumps) <b>24vdc Systems</b> — 1½" (up to 23 gpm pumps) <b>24vdc Systems</b> — 2" (up to 40 gpm pumps)		
<b>361</b>	<b>SOLENOID VALVE, 2", Normally Open (N/O)</b> - for Remote Fill Panel (options #226 and #230) and other applications.		
<b>361D-120</b> <b>361D-230</b> <b>361D-D12</b> <b>361D-D24</b>	120vac Systems 230vac Systems 12vdc Systems 24vdc Systems		
<b>362</b>	<b>SOLENOID VALVE, Normally Open (N/O)</b> — tank installed for Option #213 and other applications where inlet fuel control is required.		
<b>362A-120</b> <b>362B-120</b> <b>362C-120</b> <b>362D-120</b>	<b>120vac Systems</b> — ½" (up to 4 gpm pumps) <b>120vac Systems</b> — 1" (up to 10 gpm pumps) <b>120vac Systems</b> — 1½" (up to 23 gpm pumps) <b>120vac Systems</b> — 2" (up to 40 gpm pumps)		Normally for 1/2", 1", and 1-1/2" Solenoid Valves
<b>362A-230</b> <b>362B-230</b> <b>362C-230</b> <b>362D-230</b>	<b>230vac Systems</b> — ½" (up to 4 gpm pumps) <b>230vac Systems</b> — 1" (up to 10 gpm pumps) <b>230vac Systems</b> — 1½" (up to 23 gpm pumps) <b>230vac Systems</b> — 2" (up to 40 gpm pumps)		
<b>362A-D12</b> <b>362B-D12</b> <b>362C-D12</b> <b>362D-D12</b>	<b>12vdc Systems</b> — ½" (up to 4 gpm pumps) <b>12vdc Systems</b> — 1" (up to 10 gpm pumps) <b>12vdc Systems</b> — 1½" (up to 23 gpm pumps) <b>12vdc Systems</b> — 2" (up to 40 gpm pumps)		Normally for 2", A/C Solenoid Valves, and 1", 1-1/2", & 2" D/C Solenoid Valves
<b>362A-D24</b> <b>362B-D24</b> <b>362C-D24</b> <b>362D-D24</b>	<b>24vdc Systems</b> — ½" (up to 4 gpm pumps) <b>24vdc Systems</b> — 1" (up to 10 gpm pumps) <b>24vdc Systems</b> — 1½" (up to 23 gpm pumps) <b>24vdc Systems</b> — 2" (up to 40 gpm pumps)		

## MECHANICAL OPTIONS (Continued)

Option Code	Description		
<b>364</b>	<b>SOLENOID VALVE w/MANUAL OVERRIDE, Normally Closed (N/C)</b>		
<b>364A-120</b> 120vac Systems — ½" (up to 4 gpm pumps) <b>364B-120</b> 120vac Systems — 1" (up to 10 gpm pumps) <b>364C-120</b> 120vac Systems — 1½" (up to 23 gpm pumps) <b>364D-120</b> 120vac Systems — 2" (up to 40 gpm pumps)		  Normally for 1/2", 1", and 1-1/2" Solenoid Valves Except 24 vdc	
<b>364A-230</b> 230vac Systems — ½" (up to 4 gpm pumps) <b>364B-230</b> 230vac Systems — 1" (up to 10 gpm pumps) <b>364C-230</b> 230vac Systems — 1½" (up to 23 gpm pumps) <b>364D-230</b> 230vac Systems — 2" (up to 40 gpm pumps)			
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<b>364A-D24</b> 24vdc Systems — ½" (up to 4 gpm pumps) <b>364B-D24</b> 24vdc Systems — 1" (up to 10 gpm pumps) <b>364C-D24</b> 24vdc Systems — 1½" (up to 23 gpm pumps) <b>364D-D24</b> 24vdc Systems — 2" (up to 40 gpm pumps)			
<b>367</b>	<b>MOTORIZED BALL VALVE</b> — for Remote Fill Panel (options #226 and #230) and other applications.		
<b>367D-120</b> 120 vac Systems — 2" NPT w/Aux. Limit Switch <b>367E-120</b> 120 vac Systems — 3" NPT w/Aux. Limit Switch <b>367D-D12</b> 12 vdc Systems — 2" NPT w/Aux. Limit Switch <b>367E-D12</b> 12 vdc Systems — 3" NPT w/Aux. Limit Switch <b>367D-D24</b> 24 vdc Systems — 2" NPT w/Aux. Limit Switch <b>367E-D24</b> 24 vdc Systems — 3" NPT w/Aux. Limit Switch <b>367D-230</b> 230 vac Systems— 2" NPT w/Aux. Limit Switch <b>367E-230</b> 230 vac Systems— 3" NPT w/Aux. Limit Switch			
<b>367ALS</b>	<b>AUXILIARY LIMIT SWITCH</b> — for all #367 Motorized Ball Valves		
<b>369</b>	<b>MANUAL BALL VALVE, 1/4 Turn</b> — installed on <b>pump sets</b> for component isolation.		
<b>369A</b> ½" NPT, Manual Ball Valve, 1/4 Turn <b>369B</b> 1" NPT <b>369C</b> 1-½" NPT <b>369D</b> 2" NPT <b>369K</b> 3/8" Quarter Turn			
<b>370</b>	<b>MANUAL BALL VALVE, 1/4 Turn</b> — Manual cut off valve installed in fuel inlet that is primarily used for <b>gravity-fed day tanks</b> .		
<b>370A</b> ½" NPT (Ships loose — Wt: 2 lbs) <b>370B</b> 1" NPT (Ships loose — Wt: 3 lbs) <b>370C</b> 1-½" NPT (Ships loose — Wt: 6 lbs) <b>370D</b> 2" NPT (Ships loose — Wt: 14 lbs)			

## MECHANICAL OPTIONS (Continued)

Option Code	Description
<p><b>371</b></p> <p><b>371A</b></p> <p><b>371B</b></p>	<p><b>FLOW METER</b> — An in-line meter to measure amount of fuel flow from main storage tank to day tank, 1" NPT</p> <p>.3 to 3 GPM (Ships loose—Wt. 4 lbs)</p> <p>3 to 30 GPM (Ships loose—Wt. 5 lbs)</p> <div style="text-align: right;">  </div>
<p><b>372</b></p> <p><b>372_1.5"</b></p> <p><b>372_PS_05</b></p> <p><b>372_PS_10</b></p> <p><b>372_PS_15</b></p> <p><b>372R</b></p>	<p><b>FLOW SWITCH</b> — An inline switch to detect “no fuel” In fuel line. Several events are possible, including pump and motor shut down and/or sounding an alarm. Closing the switch can be delayed, see option #373 below. (10 watts)</p> <p><b>FUEL FLOW SWITCH</b>— Detects No Fuel in Line, 1.5</p> <p><b>FUEL FLOW SWITCH</b>— Detects No Fuel in Line, 10 Watts, 1/2"</p> <p><b>FUEL FLOW SWITCH</b>— Detects No Fuel in Line, 10 Watts, 1"</p> <p><b>FUEL FLOW SWITCH</b>— Detects No Fuel in Line, 10 Watts, 1-1/2"</p> <p><i>For remote signal, add</i> —</p> <p><b>REMOTE SIGNAL PROVISION, FLOW SWITCH</b> — Components to provide a heavy-duty, remote signal of the Flow Switch (option #372). <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 3 amp.</p>
<p><b>373</b></p>	<p><b>TIME DELAY RELAY</b>— for option #372 with reset pump and motor shut down (10 amp)</p>
<p><b>374</b></p>	<p><b>FUSE-LINK VALVE (for fire safety)</b> - Automatically closes fuel line when ambient temperature reaches 165° F—1" NPT. (Ships loose—Wt. 8 lbs)</p>
<p><b>375</b></p>	<p><b>FOOT VALVE</b> — For installation in a <u>main storage tank</u> to prevent loss of pump prime, 1" NPT (Ships loose—Wt. 6 lbs)</p>
<p><b>376</b></p>	<p><b>FOOT VALVE</b> — Installed in <u>day tank</u> to prevent loss of return pump prime and engine suction, 1" NPT</p>
<p><b>379</b></p> <p><b>379A</b></p> <p><b>379B</b></p> <p><b>379C</b></p> <p><b>379D</b></p> <p><b>379_PS_05</b></p> <p><b>379_PS_10</b></p> <p><b>379_PS_15</b></p>	<p><b>IN-LINE PRESSURE RELIEF BYPASS VALVE</b> — Re-routes fuel when line pressure reaches that shown below for pipe size.</p> <p>1" @ 50 psi — 20 gpm max.</p> <p>1.5" @ 50 psi — 40 gpm max.</p> <p>2" @ 50 psi — 120 gpm max.</p> <p>2" @ 75 psi — 120 gpm max.</p> <p>1" (for 1/2") 50p si—Inline Bypass</p> <p>1", 50 psi —Inline Bypass</p> <p>1-1/2", 50 psi, Inline Bypass</p> <div style="text-align: right;">  </div>
<p><b>380</b></p>	<p><b>PRESSURE RELIEF VALVE</b> - installed on motor driven pump. Internal pressure relief</p>

## MECHANICAL OPTIONS (Continued)

Option Code	Description																																																									
<b>381</b>	<p><b>FLAME ARRESTOR</b> - to protect from fire or explosion from exterior ignition source.</p> <p>(Ships loose — Wt. 4 lbs)</p> 																																																									
<b>385 &amp; 386</b>	<p><b>RUPTURE BASIN</b> — Open top secondary containment tank, U/L Listed.</p> <p>Specify 385/nn for 150% Containment.</p> <p>Specify 386/nn for 200% Containment.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>A PY150UL Day Tank Inside A 150% Rupture Basin (Option #385/08) with an Option #465 — U/L Listed Enclosed Industrial Control Panel.</p> <p>(Day Tank Duplex Cover Removed)</p> </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #003366; color: white;"> <th style="width: 15%;">Day Tank Gallons</th> <th style="width: 20%;">150% Opt. Code</th> <th style="width: 20%;">200% Opt. Code</th> </tr> </thead> <tbody> <tr><td>10</td><td><b>385/01</b></td><td><b>386/01</b></td></tr> <tr><td>15</td><td><b>385/02</b></td><td><b>386/02</b></td></tr> <tr><td>25</td><td><b>385/03</b></td><td><b>386/03</b></td></tr> <tr><td>50</td><td><b>385/04</b></td><td><b>386/04</b></td></tr> <tr><td>60</td><td><b>385/05</b></td><td><b>386/05</b></td></tr> <tr><td>75</td><td><b>385/06</b></td><td><b>386/06</b></td></tr> <tr><td>100</td><td><b>385/07</b></td><td><b>386/07</b></td></tr> <tr><td>150</td><td><b>385/08</b></td><td><b>386/08</b></td></tr> <tr><td>200</td><td><b>385/09</b></td><td><b>386/09</b></td></tr> <tr><td>275</td><td><b>385/10</b></td><td><b>386/10</b></td></tr> <tr><td>300</td><td><b>385/11</b></td><td><b>386/11</b></td></tr> <tr><td>400</td><td><b>385/12</b></td><td><b>386/12</b></td></tr> <tr><td>500</td><td><b>385/13</b></td><td><b>386/13</b></td></tr> <tr><td>600</td><td><b>385/14</b></td><td><b>386/14</b></td></tr> <tr><td>700</td><td><b>385/15</b></td><td><b>386/15</b></td></tr> <tr><td>800</td><td><b>385/16</b></td><td><b>386/16</b></td></tr> <tr><td>900</td><td><b>385/17</b></td><td><b>386/17</b></td></tr> <tr><td>1000</td><td><b>385/18</b></td><td><b>386/18</b></td></tr> </tbody> </table>	Day Tank Gallons	150% Opt. Code	200% Opt. Code	10	<b>385/01</b>	<b>386/01</b>	15	<b>385/02</b>	<b>386/02</b>	25	<b>385/03</b>	<b>386/03</b>	50	<b>385/04</b>	<b>386/04</b>	60	<b>385/05</b>	<b>386/05</b>	75	<b>385/06</b>	<b>386/06</b>	100	<b>385/07</b>	<b>386/07</b>	150	<b>385/08</b>	<b>386/08</b>	200	<b>385/09</b>	<b>386/09</b>	275	<b>385/10</b>	<b>386/10</b>	300	<b>385/11</b>	<b>386/11</b>	400	<b>385/12</b>	<b>386/12</b>	500	<b>385/13</b>	<b>386/13</b>	600	<b>385/14</b>	<b>386/14</b>	700	<b>385/15</b>	<b>386/15</b>	800	<b>385/16</b>	<b>386/16</b>	900	<b>385/17</b>	<b>386/17</b>	1000	<b>385/18</b>	<b>386/18</b>
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<b>395</b>	<p><b>LEAK DETECTOR FOR RUPTURE BASINS OF TANKS WITH PUMP and MOTOR</b> - A sensor within the Rupture Basin containment area that upon detection of a leak will turn on a red alarm light on control panel and will shut down pump motor. <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 15 amp.</p>																																																									
<b>395M</b>	<p><b>LEAK DETECTOR FOR RUPTURE BASINS OF MANUAL OR SUB-BASE TANKS</b> — A sensor within the Rupture Basin containment area that upon detection of a leak will turn on a red alarm light on control panel. <b>Includes</b> dry terminal contacts for connection of customer supplied device up to 15 amp.</p>																																																									

## MECHANICAL OPTIONS (Continued)

Option Code	Description
<b>397</b>	<p><b>REMOTE PUMPING UNIT (RPU)</b> — A Weatherproof (NEMA 3R) base and enclosure used to re-locate the pumping system from a day tank to a point between the day tank and the main storage tank to extend the distance from a main storage tank. Another application for an <b>RPU</b> is in a Remote Fill Panel configuration.</p> <p>The <b>SINGLE Pumping System</b> includes a 1/3 HP, 115 VAC, 1-Phase, 60 Hz motor and a 2 GPM bronze pump (standard pump and motor) that normally would be located on the day tank top. The <b>DUPLEX Pumping System</b> includes two standard pumps and motors; the <b>TRIPLEX</b> has three and the <b>QUAD</b> has four. Each pump of a multi-pump system may be assigned either supply or return duty. Optionally, pumps and motors other than the standard configurations described above may be specified as replacements of the standard ones.</p> <p>Optional check and solenoid valves, if attached to fuel inlet, may also be located on the RPU platform. <b>Note</b> — a <b>Pump Set</b> must be specified if one or more other accessories, such as: fuel filter, strainers, flow switches and meters, gauges, isolation and by-pass valves, etc. are to be included. (see Pump Set section of this catalog.)</p> <p style="color: red;"><u>24" wide x 12" deep—For up to 8 gpm pumps</u></p> <p><b>397-12A SINGLE</b> Remote Pump Unit Base &amp; Cover  <b>397-12B DUPLEX</b> Remote Pump Unit Base &amp; Cover  <b>397-12C TRIPLEX</b> Remote Pump Unit Base &amp; Cover  <b>397-12D QUAD</b> Remote Pump Unit Base &amp; Cover</p> <p style="color: red;"><u>24" wide x 18" deep—For up to 23 gpm pumps</u></p> <p><b>397-18A SINGLE</b> Remote Pump Unit Base &amp; Cover  <b>397-18B DUPLEX</b> Remote Pump Unit Base &amp; Cover  <b>397-18C TRIPLEX</b> Remote Pump Unit Base &amp; Cover  <b>397-18D QUAD</b> Remote Pump Unit Base &amp; Cover</p> <p style="color: red;"><u>24" wide x 24" deep—For up to 40 gpm pumps</u></p> <p><b>397-24A SINGLE</b> Remote Pump Unit Base &amp; Cover  <b>397-24B DUPLEX</b> Remote Pump Unit Base &amp; Cover  <b>397-24C TRIPLEX</b> Remote Pump Unit Base &amp; Cover  <b>397-24D QUAD</b> Remote Pump Unit Base &amp; Cover</p>
<b>398</b>	<p><b>REMOTE READING LEVEL GAUGE</b> — 12 and 24vdc - for remote monitoring of fuel level up to 300' max. distance.</p>
<b>399</b>	<p><b>REVERSE FLOW CONTROLLER</b> — to pump fuel from Day Tank back to main storage tank. Requires separate pump and motor (specify size). Includes float switch and pipe stems.</p>



397-12B Duplex RPU  
(Weatherproof Cover Removed)

## PUMPS BRONZE PUMPS

Option Code	Description	
400	<b>PUMP, BRONZE — 8 GPM</b> (Replaces Pryco's standard 2 GPM pump) <i>Requires at least 1/2 HP motor</i>	
401	<b>PUMP, BRONZE — 4 GPM</b> (Replaces Pryco's standard 2 GPM pump) <i>Requires at least 1/3 HP motor</i>	
402	<b>PUMP, BRONZE — 2 GPM</b> (Pryco's Standard Pump) <i>Requires at least 1/3 HP motor</i>	
403	<b>PUMP, BRONZE — 10 GPM</b> (Replaces Pryco's standard 2 GPM pump) <i>Requires at least 3/4 HP motor</i>	
404	<b>PUMP, BRONZE — 23 GPM</b> (Replaces Pryco's standard 2 GPM pump) <i>Requires at least 1 HP motor</i>	
405	<b>PUMP, BRONZE — 40 GPM</b> (Replaces Pryco's standard 2 GPM pump) <i>Requires at least 2 HP at 1200 RPM motor</i>	

## CAST IRON PUMPS

Option Code	Description	
PCI03	<b>PUMP, CAST IRON — 3 GPM</b> , 1/2" Ports <i>Requires at least 1/3 HP motor</i>	 Typical Cast Iron Pump
PCI06	<b>PUMP, CAST IRON — 6 GPM</b> , 1/2" Ports <i>Requires at least 1/2 HP motor</i>	
PCI13	<b>PUMP, CAST IRON — 13 GPM</b> , 1" Ports <i>Requires at least 1 HP motor</i>	
PCI15	<b>PUMP, CAST IRON — 15 GPM</b> , 1-1/4" Ports <i>Requires at least 1-1/2 HP motor</i>	
PCI25	<b>PUMP, CAST IRON — 25 GPM</b> , 1-1/2" Ports <i>Requires at least 3 HP motor</i>	 Typical Cast Iron Pump w/Pressure Relief
PCI62	<b>PUMP, CAST IRON — 62 GPM</b> , 1-1/2" Port <i>Requires at least 5 HP motor</i>	
PCI03R	<b>PUMP, CAST IRON w/PRESSURE RELIEF— 3 GPM</b> , 1/2" Ports <i>Requires at least 1/3 HP motor</i>	
PCI06R	<b>PUMP, CAST IRON w/PRESSURE RELIEF— 6 GPM</b> , 1/2" Ports <i>Requires at least 1/2 HP motor</i>	
PCI13R	<b>PUMP, CAST IRON w/PRESSURE RELIEF— 13 GPM</b> , 1" Ports <i>Requires at least 1 HP motor</i>	
PCI15R	<b>PUMP, CAST IRON w/PRESSURE RELIEF— 15 GPM</b> , 1-1/4" Ports <i>Requires at least 1-1/2 HP motor</i>	

## MECHANICAL OPTIONS (Continued)

### DUPLEX PUMPS & MOTORS

Option Code	Description
427	<p><b>DUPLEX (Second Standard) PUMP and MOTOR ASSEMBLY</b> — A second 2 GPM pump, a <i>Thermal Protected</i> motor (1/3 HP, 115vac, 1 PH, 60 Hz) and a second float switch.</p> <p>The first pump-motor (always the “lead”) begins operating at 86% of usable fuel capacity; the second pump-motor (always the “lag”) begins operating to assist the lead pump when fuel drops to 82% of usable fuel capacity. Both pump-motors shut off at 100% capacity.</p>
427A	<p><b>AUTOMATIC TRANSFER SWITCH</b> — A switching system to automatically alternate each pump-motor (of option #427) into the lead starting position. (At the 82% and lower levels, both will operate.) <b>Includes:</b> Option # 427, a pump “RUN-OFF-AUTO” mode selector switch, and a “Pump Running” amber light for each pump-motor</p>
427B	<p><b>MANUAL TRANSFER</b> — A switching system to manually alternate each pump-motor (of option 427) into the lead starting position. (At the 82% and lower levels, both will operate.) <b>Includes:</b> Option #427, a manual transfer switch, and a motor run-time meter included for each pump-motor.</p>

### HAND PUMPS

Option Code	Description
461	<p><b>HAND PUMP, PISTON TYPE</b> — 5 strokes per gallon; Equipped with TFE piston cups; Operating temperature of -25° to 200°F; Dual Action—Dispenses on each stroke; and, Self-priming w/up to 20 ft of lift. Hand pump check valve and motor pump check valve included.</p> 
462	<p><b>HAND PUMP, ROTARY</b> - High flow (7 rotations per gallon; 2 per liter); All cast -iron housing with stainless steel shaft &amp; strainer; Malleable iron pump handle with rotating grip for ease of use; Self-adjusting spring-loaded carbon vanes give smooth operation; Internal check valve allows immediate dispensing; Built-in stainless steel strainer. Hand pump check valve and motor pump check valve included.</p> 

### OTHER ITEMS

Option Code	Description
442	<p><b>MOTOR STARTER - 3 PH</b>, 130 watt control transformer and heater. Motor Starters and Control Transformers are included with all 3-Phase motors.</p>
443	<p><b>MOTOR STARTER - 1 PH</b></p>
463	<p><b>STANDARD PUMP and MOTOR</b> — A coupled 2 GPM bronze pump (Option # 402) and a 1/3 HP, 120 vac, 1 PH, 60 Hz motor (Option #414) purchased separately</p>
464	<p><b>PIPE STEM</b> — (set of two) for engine suction and return</p>
465	<p><b>ENCLOSED INDUSTRIAL CONTROL PANEL</b> — A heavy gauge steel enclosure that meets U/L requirements (Label #508). Only U/L Listed components are used within. These components the make up various day tank accessories include: contactors, relays, sockets, lights, and switches, even the wire and connectors.</p> 

## A/C & D/C ELECTRIC MOTORS

OPTION CODE	A/C D/C	VOLTAGE	PH	CYCLE	THERMAL PROTECT	COMMENT
<b>1/4 HP Motors</b>						
410	D/C	12				
411	D/C	24-28				
<b>1/3 HP Motors</b>						
414	A/C	115	1	60	YES	<b>(Pryco's Standard Motor)</b>
424	A/C	115	1	60	YES	Totally Enclosed, Fan Cooled
425	A/C	115	1	60	YES	Explosion Proof
426	A/C	115	1	50	YES	
428	A/C	230	1	60	YES	
429	A/C	230	1	50	YES	
433	A/C	230/460	3	60	NO	
<b>1/2 HP Motors</b>						
440	D/C	12				
441	D/C	24-28				
444	A/C	115	1	60	YES	
445	A/C	115	1	60	YES	Totally Enclosed, Fan Cooled
446	A/C	115	1	60	YES	Explosion Proof
447	A/C	115	1	50	YES	
448	A/C	230	1	60	YES	
449	A/C	230	1	50	YES	
451	A/C	230	3	60	NO	Totally Enclosed, Fan Cooled
452	A/C	460	3	60	NO	
454	A/C	230	3	60	NO	
<b>3/4 HP Motors</b>						
434	A/C	115	1	60	YES	Explosion Proof
435	A/C	230/460	3	60	NO	Explosion Proof
455	A/C	115	1	60	YES	
456	A/C	230/460	3	60	NO	
<b>1 HP Motors</b>						
436	A/C	115	1	60	YES	Explosion Proof
437	A/C	230/460	3	60	NO	Explosion Proof
457	A/C	115	1	60	YES	
458	A/C	230/460	3	60	NO	
<b>2 HP Motors</b>						
459A	A/C	230	3	60	NO	Totally Enclosed, Fan Cooled
459B	A/C	460	3	60	NO	Totally Enclosed, Fan Cooled

## BATTERY HOLDERS

### BATTERY BOXES

Hinged, lockable, weatherproof enclosure with handles

Option	SIZE
BB01	12" W x 23" L x 12" H (1 - 4D or 1 8D)
BB02	12" W x 44" L x 12" H (2 - 4D or 2 - 8D)
BB03	12" W x 44" L x 12" H w/HEAT PANEL - 100 watt, 115vac
BB04	12" W x 44" L x 12" H w/HEAT PANEL and THERMOSTAT - 100 watt, 115vac

Shown here are a few of the more common asked for sizes and styles — We will design and build Battery Boxes and Frames, both basic and seismic to your specification and battery types.



Battery Box



Standard Battery Frame



Seismic Battery Frame  
Floor & Battery Bolt-Down

### BATTERY FRAMES

Formed 7-gauge; Standard frames are 4" high, Painted flat black or industrial color of choice.

Option	SIZE
BF01	STANDARD BATTERY FRAME — 10" x 22" for one Group 4D Battery
BFS01	SEISMIC BATTERY FRAME — 10" x 22" for one Group 4D Battery
BF02	STANDARD BATTERY FRAME — 12" x 22" for one Group 8D Battery
BSF02	SEISMIC BATTERY FRAME — 12" x 22" for one Group 8D Battery
BF03	STANDARD BATTERY FRAME — 10" x 44" for two Group 4D Battery
BFS03	SEISMIC BATTERY FRAME — 10" x 44" for two Group 4D Battery
BF04	STANDARD BATTERY FRAME — 12" x 44" for two Group 8D Battery
BSF04	SEISMIC BATTERY FRAME — 12" x 44" for two Group 8D Battery



**PRYCO, INC.**

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Email — [Pryco@Pryco.com](mailto:Pryco@Pryco.com)

## FUEL CONTROL MONITORING (FCM) SYSTEM

The **FUEL CONTROL and MONITORING (FCM)** system, is totally solid state electronic except for a fail-safe critical high fuel level switch. The **FCM** system uses an ultra-sonic sensor to accurately determine the level of the fuel. It is specially designed for Pryco for this type of environment.

Through electronic “action levels” the **FCM** controls the activities of up to four pumps and motors. It also controls and provides a signal for a full array of external alarms and similar devices based upon predetermined levels. The action levels shown in the table below represent a “normal” setup — changes may be made providing the integrity of a sequence of operation is not violated. Standard Features include:

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>* Ultra-Sonic Sensor - 4-20 ma</li> <li>* 24vdc Input For Continuous Operation</li> <li>* Power Available LED</li> <li>* System Ready LED</li> <li>* Electronic Fuel Gauge</li> <li>* HOA Switches</li> <li>* Control Panel System Test Switch</li> </ul> | <ul style="list-style-type: none"> <li>* Control Panel Alarm Reset Switch</li> <li>* Control Panel Alarm Silence Switch</li> <li>* Safety High Switch w/Fill Motor Shut Off</li> <li>* High Fuel Level Notification</li> <li>* Low Fuel Level Notification</li> <li>* “Dry Tank” Prevention</li> </ul> |
|--|--|

Option Code	FCM and Related Options Description
<b>700</b>	<b>FUEL CONTROL AND MONITORING SYSTEM</b> — electronic circuit boards, ultra-sonic sensor, and related components to control and monitor all activities on the fuel system.
<b>706</b>	<b>CRITICAL LOW LEVEL ALARM</b> — Activates red light on control panel, provides signal for remote annunciation and engine shut down (prevents loss of engine fuel prime).
<b>734</b>	<b>COVER</b> — for single pump and motor controlled by FCM.
<b>727</b>	<b>DUPLEX FILL PUMP and MOTOR</b> — (addition to standard pump and motor) secondary “lag” pump/motor system to back-up primary “lead” pump/motor. Normally the lead pump/motor begins operation at 86% usable fuel capacity; the lag system begins at 82%. Both systems turn off at 100% capacity.
<b>727A</b>	<b>DUPLEX FILL PUMP and MOTOR w/AUTOMATIC ALTERNATING LEAD/LAG</b> — Same as Option 727 with a switch to automatically alternate each pump/motor into the lead starting position.
<b>773</b>	<b>PUMP(s) FAIL DETECTION w/AUTOMATIC and MANUAL RESET</b> — Includes: the control panel switch, an in-line flow switch, and other required items necessary to detect, report, and reset a “no fuel in line” condition (one per pump). A flow switch, option #372, is required.
<b>780</b>	<b>FCM POWER SUPPLY PROTECTION</b> — Line Conditioner and noise suppression with battery backup to protect FCM electronics and circuits from damaging “brown outs” and spikes.
<b>799</b>	<b>REVERSE FLOW CONTROLS for OPTIONAL PUMP and MOTOR</b> — Controls and piping necessary for a reverse flow single pump/motor (sold separately) to pump fuel back to main storage tank to prevent overfill. This system begins operation at a level above the fill pump(s) normal turn-off point.
<b>799A</b>	<b>DUPLEX REVERSE FLOW PUMP and MOTOR w/AUTOMATIC ALTERNATING LEAD/LAG</b> — Two sets of controls and piping necessary for two reverse flow pumps/motors to pump fuel back to main storage tank to prevent overfill. (The pumps and motors are sold separately.) The “lead” system begins operation at a level above the fill pump(s) turn-off point – the “lag” system begins at a level above the lead system (provides assistance and backup).

## EVOLUTION PLC SYSTEM

The **EVOLUTION** is a Programmable Logic Controller (PLC) based system designed to control and monitor the activities of up to four pumps and motors of a Pryco fuel supply system. A color touch screen displays system functional status, alarm conditions, and historical logs. The Evolution PLC provides operational control of the overall fuel system.

Using licensed optional software, **WindSRV™**, it is possible to link your OPC (object linking of devices for process control) or DDE (older version of OPC) compliant Windows™ - based software to any IDEC programmable logic controller. This link may use an optional built-in RS232 or RS485 serial interface adapters, or longer range Ethernet networking. Option 800 includes:

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>* 120/240 VAC Input Voltage</li> <li>* Ultra-Sonic Sensor</li> <li>* Color LED Touchscreen 5.7" Operator Interface</li> <li>* Graphic Fuel Gauge (Percent Full or Gallons)</li> <li>* Power Available LED</li> <li>* HOA Switches</li> <li>* Control Panel Alarm Silence Switch</li> <li>* Enclosure, Tank Mounted for HMI</li> </ul> | <ul style="list-style-type: none"> <li>* Critical High Switch w/Fill Motor Shut Off</li> <li>* High Fuel Level Notification</li> <li>* Low Fuel Level Notification</li> <li>* Critical Low Level Notification</li> <li>* Secondary Containment Leak Detection</li> <li>* Discrete N.O. Contacts For All Alarms</li> <li>* Historical Log</li> <li>* Enclosure, Tank Mounted for PLC</li> </ul> |
|--|--|

Option Code	Evolution PLC and Related Options Description
<b>800</b>	<b>EVOLUTION PLC SYSTEM</b> — Tank mounted, Programmable Logic Controller (PLC) based system designed to control and monitor the activities of up to four pumps and motors.
<b>805</b> <b>805-32</b> <b>805-64</b>	<b>MEMORY MODULE</b> — for program upgrade as necessary 32K of Memory 64K of Memory
<b>810</b> <b>810-485</b> <b>810-WEB</b>	<b>COMMUNICATIONS MODULE for PLC</b> — Directs Logic Controller output downstream to in-house building management systems Modbus Protocol RS485/RS232 (distance rating: RS232—50 Feet, RS485—656 feet) WEB Server Module for remote maintenance
<b>812</b>	<b>BLACK-BOX CONVERTER</b> — RS485 to RS232 (Used only if customer does not have RS485 connection.)
<b>815</b>	<b>ANALOG MODULE</b> — (2 each) 4-20 MA Output
<b>820</b> <b>820-DB9-06</b> <b>820-SHL-12</b>	<b>CABLES</b> Cable w/DB9 Male/Female connectors—6 feet Cable, Bulk Shielded, Low Capacity, 4 conductor—12 feet
<b>827</b>	<b>DUPLEX SUPPLY SYSTEM (PLC CONTROLLED )</b> — additional secondary controls, piping and standard 2 GPM pump & 1/3 HP motor “lag” system to back-up primary “lead” pump/motor. Normally the lead pump/motor begins operation at 86% usable fuel capacity; the lag system begins at 82%. Both systems turn off at 100% capacity.
<b>827A</b>	<b>DUPLEX SUPPLY SYSTEM w/AUTOMATIC LEAD/LAG PUMP SWAP (PLC CONTROLLED)</b> — Same as Option 827 plus HOA switching capability to automatically alternate each pump/motor into the lead starting position.
<b>827B</b>	<b>DUPLEX SUPPLY SYSTEM w/MANUAL LEAD/LAG PUMP SWAP (PLC CONTROLLED)</b> — Same as Option 827 plus switching capability to manually alternate each pump/motor into the lead starting position.
<b>830</b>	<b>SOFTWARE</b> — WindSRV™ for building management system’s PC drivers

## EVOLUTION PLC SYSTEM OPTIONS (Continued)

Option Code	Description
834	<p><b>COVER (DAY TANK w/PLC)—NEMA-1 ENCLOSURE for PLC TANK MOUNTED SYSTEMS</b></p> <p><b>834-1</b> <b>SINGLE</b> pump and motor (replaces the single pump/motor cover that is standard equipment for all day tanks).</p> <p><b>834-2</b> <b>DUPLEX</b> (2) pumps, motors, and control components. This cover is standard equipment for duplex supply pumps &amp; motors with Options 827, 827A, or 827B.</p> <p><b>834-3</b> <b>TRIPLEX</b> (3) pumps, motors, and control components.</p> <p><b>834-4</b> <b>QUAD</b> (4) pumps, motors, and control components.</p>
<b>835</b>	<p><b>WEATHERPROOFING For OPTION 834 SERIES COVERS</b> - A NEMA 3R rated enclosure to provide protection against normal weather elements. The control panel viewing area is covered with sealed plexi glass and all openings are piped-through. Inside, a pan provides protection from flooding.</p>
850	<p><b>REMOTE OPERATOR INTERFACE (HMI)</b> - requires wall mounting box</p> <p><b>850-W10</b> Color LCD Touch Screen—10.4”</p> <p><b>850-W12</b> Color LCD Touch Screen—12.1”</p>
870	<p><b>ENCLOSURE, WALL MOUNT</b>— for locating all PLC components, except the ultrasonic sensor, from tank mount</p> <p><b>870-1620-1</b> <b>NEMA 1</b> enclosure (16” x 20” x 8.75”)</p> <p><b>870-2020-3R</b> <b>NEMA 3R</b> enclosure (20” x 20” x 8”)</p> <p><b>870-1616-4</b> <b>NEMA 4-12</b> enclosure (16” x 16” x 8”)</p> <p><b>870-1620-4S</b> <b>NEMA 4-12</b> enclosure w/security window (16” x 20” x 8”)</p>
<b>873</b>	<p><b>PUMP FAIL DETECTION</b> — w/manual reset (requires an inline Flow Switch to detect “no fuel” In fuel line, Option #372).</p>
<b>880</b>	<p><b>POWER SUPPLY PROTECTION</b> - provides surge protection of delicate PLC components high rating capacity, thermal protected</p>
<b>899-1</b>	<p><b>PLC CONTROLS and PLUMBING (SINGLE)</b> — controls and tank plumbing required for a single reverse flow pump and motor to pump fuel back to main tank. *</p>
<b>899-2</b>	<p><b>PLC CONTROLS and PLUMBING (DUPLEX)</b> — controls and tank plumbing required for two reverse flow pumps and motors to pump fuel back to main tank. *</p>
<b>899A</b>	<p><b>PLC CONTROLS and PLUMBING for DUPLEX REVERSE FLOW SYSTEM w/ AUTOMATIC LEAD/LAG PUMP SWAP</b> — Same as Option 899-2 with a HOA switch to automatically alternate each pump/motor into the lead starting position. *</p>
<b>899B</b>	<p><b>PLC CONTROLS and PLUMBING for DUPLEX REVERSE FLOW SYSTEM w/ MANUAL LEAD/LAG PUMP SWAP</b> — Same as Option 899-2 with a switch to manually alternate each pump/motor into the lead starting position. *</p>

\* Pumps and Motors must be ordered separately for Options 899-1, 899-1 899A and 899B

## PARTS — ORDERED SEPARATELY

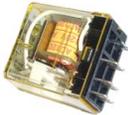
*The parts listed in this section represent those that are more commonly requested. Many other parts are available. If you do not see your part here, please call our factory (217-364/4467).*

Description		
<p><b>CONTACTOR, 2-N/C, 2-N/O</b>                      Select part number from these control voltages when ordering:</p> <p style="text-align: center;"> <span style="margin-right: 20px;"><b>#P0179</b> — 120vac</span> <span style="margin-right: 20px;"><b>#P0182</b> — 230vac</span> <span style="margin-right: 20px;"><b>#P0180</b> — 12vdc</span> <span><b>#P0181</b> — 24vdc</span> </p>		
<p><b>CONTACTOR, 4-N/O</b>                      Select part number from these control voltages when ordering:</p> <p style="text-align: center;"> <span style="margin-right: 20px;"><b>#P0183</b> — 120vac</span> <span style="margin-right: 20px;"><b>#P0186</b> — 230vac</span> <span style="margin-right: 20px;"><b>#P0184</b> — 12vdc</span> <span><b>#P0185</b> — 24vdc</span> </p>		
<p><b>CONTACTOR, DEFINITE PURPOSE, 30 Amp, 3-Pole</b>                      Specify Part <b>#P0178</b> (Part <b>#P2922</b> for 208-240vac, 60 Hz or 220 vac, 50 Hz)</p>		
<p><b>CONTROL PANEL, STANDARD w/Black Vinyl Decal</b>                      Specify Part <b>#P0748</b></p>		
<p><b>DECAL, BLACK VINYL (For Control Panel)</b>                      Specify Part <b>#P1463</b></p>		
<p><b>CONTROL TRANSFORMER for Motor Starters</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><b>#P1565</b> — 30va, 120vac-240vac, w/Fuse</p> <p><b>#P0187</b> — 50va, 480/240, 3-Ph, 120vac</p> <p><b>#P1429</b> — 50va, 208/277, 3-Ph, 120vac</p> <p><b>#P2927</b> — 100va, 208/277, 3-Ph, 120vac</p> <p><b>#P1177</b> — 100va, 480/240, 3-Ph, 120vac</p> <p><b>#P1279</b> — 200va, 480/240, 3Ph, 120vac</p> <p><b>#P1759</b> — 250va, 480/240, 3Ph, 120vac</p> <p><b>#P2833</b> — 1000va, 208/277vac 120vac50/60hz</p> </td> <td style="width: 50%; vertical-align: top;"> <p><b>#P2974</b> — 50va, 380/400/415, 3-Ph, 110x220vac</p> <p><b>#P1867</b> — 50va, 575/600, 3-Ph, 120vac</p> <p><b>#P1459</b> — 75va, 480/240, 3-Ph, 120vac</p> <p><b>#P2975</b> — 100va, 380/400/415, 3-Ph, 110x220vac</p> <p><b>#P1661</b> — 150va, 480/240, 3-Ph, 120vac</p> <p><b>#P1763</b> — 250va, 208/230/460, 3Ph, 120vac</p> <p><b>#P1909</b> — 350va w/Fuse</p> <p><b>#P1608</b> — 1000va, 277, 3Phs-115v,w/Fuse</p> </td> </tr> </table>	<p><b>#P1565</b> — 30va, 120vac-240vac, w/Fuse</p> <p><b>#P0187</b> — 50va, 480/240, 3-Ph, 120vac</p> <p><b>#P1429</b> — 50va, 208/277, 3-Ph, 120vac</p> <p><b>#P2927</b> — 100va, 208/277, 3-Ph, 120vac</p> <p><b>#P1177</b> — 100va, 480/240, 3-Ph, 120vac</p> <p><b>#P1279</b> — 200va, 480/240, 3Ph, 120vac</p> <p><b>#P1759</b> — 250va, 480/240, 3Ph, 120vac</p> <p><b>#P2833</b> — 1000va, 208/277vac 120vac50/60hz</p>	<p><b>#P2974</b> — 50va, 380/400/415, 3-Ph, 110x220vac</p> <p><b>#P1867</b> — 50va, 575/600, 3-Ph, 120vac</p> <p><b>#P1459</b> — 75va, 480/240, 3-Ph, 120vac</p> <p><b>#P2975</b> — 100va, 380/400/415, 3-Ph, 110x220vac</p> <p><b>#P1661</b> — 150va, 480/240, 3-Ph, 120vac</p> <p><b>#P1763</b> — 250va, 208/230/460, 3Ph, 120vac</p> <p><b>#P1909</b> — 350va w/Fuse</p> <p><b>#P1608</b> — 1000va, 277, 3Phs-115v,w/Fuse</p>
<p><b>#P1565</b> — 30va, 120vac-240vac, w/Fuse</p> <p><b>#P0187</b> — 50va, 480/240, 3-Ph, 120vac</p> <p><b>#P1429</b> — 50va, 208/277, 3-Ph, 120vac</p> <p><b>#P2927</b> — 100va, 208/277, 3-Ph, 120vac</p> <p><b>#P1177</b> — 100va, 480/240, 3-Ph, 120vac</p> <p><b>#P1279</b> — 200va, 480/240, 3Ph, 120vac</p> <p><b>#P1759</b> — 250va, 480/240, 3Ph, 120vac</p> <p><b>#P2833</b> — 1000va, 208/277vac 120vac50/60hz</p>	<p><b>#P2974</b> — 50va, 380/400/415, 3-Ph, 110x220vac</p> <p><b>#P1867</b> — 50va, 575/600, 3-Ph, 120vac</p> <p><b>#P1459</b> — 75va, 480/240, 3-Ph, 120vac</p> <p><b>#P2975</b> — 100va, 380/400/415, 3-Ph, 110x220vac</p> <p><b>#P1661</b> — 150va, 480/240, 3-Ph, 120vac</p> <p><b>#P1763</b> — 250va, 208/230/460, 3Ph, 120vac</p> <p><b>#P1909</b> — 350va w/Fuse</p> <p><b>#P1608</b> — 1000va, 277, 3Phs-115v,w/Fuse</p>	
<p><b>COUPLING (LOVEJOY), Pump / Motor (Includes 2 hubs and 1 rubber spider)</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><b>#P1877</b> — 3/8", (L050) w/ 3/32" Keyway</p> <p><b>#P1682</b> — 7/16", (L050), Tuthill Pumps</p> <p><b>#P2473</b> — 7/16", (L075) No KW, Tuthill Pumps</p> <p><b>#P1727</b> — 7/16", (L095) - No Key Way</p> <p><b>#P0659</b> — 5/8", (L050) With Keyway, Std.</p> <p><b>#P0660</b> — 5/8", (L070)</p> <p><b>#P2067</b> — 5/8", (L075) w/KW, Tuthill</p> <p><b>#P1250</b> — 5/8", (L095)</p> <p><b>#P0657</b> — 1/2", (L050) (Std.)</p> <p><b>#P0658</b> — 1/2", (L070)</p> <p><b>#P1726</b> — 1/2", (L095)</p> </td> <td style="width: 50%; vertical-align: top;"> <p><b>#P2846</b> — 3/4", (L095), Tuthill Pumps</p> <p><b>#P2463</b> — 3/4", (L099)</p> <p><b>#P1385</b> — 7/8", (L075) With Std.KW</p> <p><b>#P0668</b> — 7/8", (L095)</p> <p><b>#P1910</b> — 1", (L100)</p> <p><b>#P1577</b> — 1-1/8", (L095)</p> <p><b>#P1261</b> — 1-1/8", (L099)</p> </td> </tr> </table>	<p><b>#P1877</b> — 3/8", (L050) w/ 3/32" Keyway</p> <p><b>#P1682</b> — 7/16", (L050), Tuthill Pumps</p> <p><b>#P2473</b> — 7/16", (L075) No KW, Tuthill Pumps</p> <p><b>#P1727</b> — 7/16", (L095) - No Key Way</p> <p><b>#P0659</b> — 5/8", (L050) With Keyway, Std.</p> <p><b>#P0660</b> — 5/8", (L070)</p> <p><b>#P2067</b> — 5/8", (L075) w/KW, Tuthill</p> <p><b>#P1250</b> — 5/8", (L095)</p> <p><b>#P0657</b> — 1/2", (L050) (Std.)</p> <p><b>#P0658</b> — 1/2", (L070)</p> <p><b>#P1726</b> — 1/2", (L095)</p>	<p><b>#P2846</b> — 3/4", (L095), Tuthill Pumps</p> <p><b>#P2463</b> — 3/4", (L099)</p> <p><b>#P1385</b> — 7/8", (L075) With Std.KW</p> <p><b>#P0668</b> — 7/8", (L095)</p> <p><b>#P1910</b> — 1", (L100)</p> <p><b>#P1577</b> — 1-1/8", (L095)</p> <p><b>#P1261</b> — 1-1/8", (L099)</p>
<p><b>#P1877</b> — 3/8", (L050) w/ 3/32" Keyway</p> <p><b>#P1682</b> — 7/16", (L050), Tuthill Pumps</p> <p><b>#P2473</b> — 7/16", (L075) No KW, Tuthill Pumps</p> <p><b>#P1727</b> — 7/16", (L095) - No Key Way</p> <p><b>#P0659</b> — 5/8", (L050) With Keyway, Std.</p> <p><b>#P0660</b> — 5/8", (L070)</p> <p><b>#P2067</b> — 5/8", (L075) w/KW, Tuthill</p> <p><b>#P1250</b> — 5/8", (L095)</p> <p><b>#P0657</b> — 1/2", (L050) (Std.)</p> <p><b>#P0658</b> — 1/2", (L070)</p> <p><b>#P1726</b> — 1/2", (L095)</p>	<p><b>#P2846</b> — 3/4", (L095), Tuthill Pumps</p> <p><b>#P2463</b> — 3/4", (L099)</p> <p><b>#P1385</b> — 7/8", (L075) With Std.KW</p> <p><b>#P0668</b> — 7/8", (L095)</p> <p><b>#P1910</b> — 1", (L100)</p> <p><b>#P1577</b> — 1-1/8", (L095)</p> <p><b>#P1261</b> — 1-1/8", (L099)</p>	

## PARTS — ORDERED SEPARATELY

Description		
<b>FUEL LEVEL GAUGE REPAIR KIT</b> <b>#P1029</b> — Rochester , Replaceable Unit for Day Tanks (Side Viewing) <b>#P1030</b> — Rochester , Replaceable Unit for Sub-Base Tanks (Top Viewing) <b>#P1031</b> — Krueger “At-A-Glance”, includes Red Float Indicator, Gauge Cover, Locknut, & Gasket		
<b>GAUGE, FUEL LEVEL, KELCH — for Sub-Base Tanks (Measure Stem Only)</b>		
5".... <b>#P1242</b>	10".... <b>#P0018</b>	20".... <b>#P0349</b>
6".... <b>#P0016</b>	12".... <b>#P0020</b>	22".... <b>#P0350</b>
7".... <b>#P0380</b>	14".... <b>#P0346</b>	24".... <b>#P0351</b>
8".... <b>#P0017</b>	16".... <b>#P0347</b>	
9".... <b>#P2864</b>	18".... <b>#P0348</b>	
		
<b>GAUGE, FUEL LEVEL, KRUEGER — “At-A-Glance” for Non-U/L Day Tanks (Measure Stem Only)</b>		
5"..... <b>#P0021</b>	24".... <b>#P0353</b>	57".... <b>#P1280</b>
8"..... <b>#P0135</b>	31".... <b>#P0354</b>	60".... <b>#P1231</b>
10".... <b>#P2445</b>	38".... <b>#P0993</b>	62".... <b>#P1403</b>
12".... <b>#P0136</b>	44".... <b>#P0355</b>	64".... <b>#P1383</b>
16".... <b>#P2086</b>	46".... <b>#P1994</b>	70".... <b>#P2045</b>
18".... <b>#P0352</b>	50".... <b>#P0356</b>	96".... <b>#P2097</b>
		
<b>GAUGE, FUEL LEVEL, ROCHESTER (SIDE VIEW) — U/L for Day Tanks (Measure Stem Only)</b>		
10".... <b>#P0146</b> for PY5—PY10	36".... <b>#P0368</b> for PY60	
17".... <b>#P0369</b> for PY15	41".... <b>#P0366</b> for PY75—PY150	
22".... <b>#P0147</b> for PY25	46".... <b>#P0367</b> for PY200—PY1000	
28".... <b>#P0148</b> for PY50		
		
<b>GAUGE, FUEL LEVEL, ROCHESTER (TOP VIEW) — U/L for Sub-Base Tanks (Measure Stem Only)</b>		
5"..... <b>#P1153</b>	16".... <b>#P0359</b>	28".... <b>#P0364</b>
6"..... <b>#P0140</b>	18".... <b>#P0360</b>	30".... <b>#P0985</b>
8"..... <b>#P0142</b>	20".... <b>#P0361</b>	32".... <b>#P0986</b>
10".... <b>#P0143</b>	22".... <b>#P0362</b>	34".... <b>#P0987</b>
12".... <b>#P0357</b>	24".... <b>#P0363</b>	36".... <b>#P0368</b>
14".... <b>#P0358</b>	26".... <b>#P0984</b>	40".... <b>#P2945</b>
		

## PARTS — ORDERED SEPARATELY

Description			
<b>GASKET, OBERDORFER BRONZE PUMP—Teflon</b>			
<b>#P1570</b> — Pump Model #N990	<b>#P0662</b> — Pump Model #N992 & N993		
<b>#P0661</b> — Pump Model #N991	<b>#P0664</b> — Pump Model #N994		
<b>GASKET, INSPECTION PLATE</b>			
<b>#P0160</b> — 2 ¼" x 4 ¼" (PY5)	<b>#P0162</b> — 6 ½" x 6 ½" (Standard & Manual Day tanks)		
<b>#P1073</b> — 5 ½" x 6 ¼" (Trim Day Tanks)			
<b>INSPECTION PLATE w/GASKET</b>			
<b>#P0742</b> — 2 ¼" x 4 ¼" (PY5)	<b>#P0743</b> — 6 ½" x 6 ½" (All Day tanks & Some Trim Tanks)		
<b>#P0161</b> — 5 ½" x 6 ¼" (Some Trim Day Tanks)			
<b>LIGHT w/BASE—Rectangular</b>			
<b>AMBER..... #P0071</b> — 120vac	<b>#P0074</b> — 250vac	<b>#P0072</b> — 14vdc	<b>#P0073</b> — 28vdc
<b>GREEN..... #P0075</b> — 120vac	<b>#P1508</b> — 250vac	<b>#P0076</b> — 14vdc	<b>#P0077</b> — 28vdc
<b>RED..... #P0078</b> — 120vac	<b>#P1506</b> — 250vac	<b>#P0079</b> — 14vdc	<b>#P0080</b> — 28vdc
<b>LIGHT w/BASE—Round</b>			
<b>AMBER..... #P0975</b> — 120vac	<b>#P1731</b> — 250vac	<b>#P0976</b> — 14vdc	<b>#P0977</b> — 28vdc
<b>GREEN..... #P0978</b> — 120vac	<b>CALL</b> — 250vac	<b>#P0979</b> — 14vdc	<b>#P0980</b> — 28vdc
<b>RED..... #P0981</b> — 120vac	<b>#P1732</b> — 250vac	<b>#P0982</b> — 14vdc	<b>#P0983</b> — 28vdc
<b>RELAY, Flat Spade Connector (See Socket, Flat Spade for Base)</b>			
	<u>8-Spade</u> <u>14-Spade</u>		
120vac... <b>#P1961</b> <b>#P1963</b>		12vdc... <b>CALL</b> <b>CALL</b>	
240vac... <b>CALL</b> <b>CALL</b>		24vdc... <b>#P2051</b> <b>CALL</b>	
			
		8 Spade	14 Spade
<b>RELAY, Round Pin Connector (See Socket, Round Pin for Base)</b>			
	<u>8-Pin</u>	<u>11-Pin</u>	
120vac..... <b>#P0098</b>		<b>#P0287</b>	
240vac..... <b>#P1475</b>		<b>#P2527</b>	
12vdc..... <b>#P0284</b>		<b>#P0288</b>	
24vdc..... <b>#P0285</b>		<b>#P0289</b>	
48vdc..... <b>#P0286</b>		<b>#P1404</b>	
			
		8 Pin Round Connector Relay	11 Pin Round Connector Relay
<b>RELAY BASE / SOCKET, Flat Spade</b>			
8-Spade..... <b>#P1962</b>			
14-Spade..... <b>#P1964</b>	8 Pin Flat Spade Base/Socket		14 Pin Flat Spade Base/Socket
<b>RELAY BASE / SOCKET, Round Pin</b>			
8-Pin..... <b>#P0296</b>			
11-Pin..... <b>#P0297</b>	8 Pin Round Base/Socket		11 Pin Round Base/Socket

## PARTS — ORDERED SEPARATELY

### Description

**SIGHT GLASS** (for option 326)

Glass Tube ..... **#0159** — 48"    **#1671** — 66"    **#2383** — 72"  
 Protective Rod .... **#0170** — (Length as Needed)

**SOLENOID VALVE** — ASCO, Normally/Closed (N/C) - (Options 360 & 365)

120vac/60 or 110vac/50 ...	<b>#0325</b> — ½"	<b>#0334</b> — 1"	<b>#2350</b> — 1 ½"	<b>#1095</b> — 2"
240vac/60 or 220vac/50 ...	<b>#1229</b> — ½"	<b>#1134</b> — 1"	<b>CALL</b> — 1 ½"	<b>CALL</b> — 2"
12vdc .....	<b>#0326</b> — ½"	<b>#0355</b> — 1"	<b>CALL</b> — 1 ½"	<b>CALL</b> — 2"
24vdc .....	<b>#0327</b> — ½"	<b>#0336</b> — 1"	<b>#2063</b> — 1 ½"	<b>#1604</b> — 2"

**SOLENOID VALVE** — ASCO, Normally/Open (N/O) - (Options 213, 361, & 362)

120vac/60 or 110vac/50 ...	<b>#0322</b> — ½"	<b>#0332</b> — 1"	<b>#1339</b> — 1 ½"	<b>#0333</b> — 2"
240vac/60 or 220vac/50 ...	<b>#1213</b> — ½"	<b>#1728</b> — 1"	<b>CALL</b> — 1 ½"	<b>CALL</b> — 2"
12vdc .....	<b>#0323</b> — ½"	<b>CALL</b> — 1"	<b>CALL</b> — 1 ½"	<b>#P0948</b> — 2"
24vdc .....	<b>#0324</b> — ½"	<b>CALL</b> — 1"	<b>CALL</b> — 1 ½"	<b>#P0949</b> — 2"

**SOLENOID VALVE w/MANUAL OVERRIDE** — ASCO, Normally/Closed (N/C) - (Option 366)

120vac/60 or 110vac/50 ...	<b>#0328</b> — ½"	<b>#0337</b> — 1"	<b>#1832</b> — 1 ½"	<b>#1944</b> — 2"
240vac/60 or 220vac/50 ...	<b>#1965</b> — ½"	<b>CALL</b> — 1"	<b>CALL</b> — 1 ½"	<b>CALL</b> — 2"
12vdc .....	<b>#0329</b> — ½"	<b>#0338</b> — 1"	<b>CALL</b> — 1 ½"	<b>CALL</b> — 2"
24vdc .....	<b>#0330</b> — ½"	<b>#0339</b> — 1"	<b>CALL</b> — 1 ½"	<b>CALL</b> — 2"

**SPIDER, HARD RUBBER** for Lovejoy Couplings

<b>#0666</b> — L050	<b>#0667</b> — L070	<b>#2066</b> — L075 (For Tuthill Pumps)
<b>#0669</b> — L095	<b>#1262</b> — L099	<b>#2166</b> — L0100

**SWITCH**

<b>#0304</b> — Press-To-Test (Standard—Rectangular)	<b>#0974</b> — Press-To-Test (Round)
<b>#0305</b> — Pump RUN-AUTO-OFF (Options 202 & 427A)	

**TERMINAL BLOCK**

Standard ...	<b>#0006</b> — 2 Position	<b>#0007</b> — 4 Position	<b>#0008</b> — 6 Position	<b>#0009</b> — 8 Position
30 Amp D/C Motors .....	<b>#2038</b> — 2 Position	<b>#2039</b> — 4 Position	<b>#1618</b> — 6 Position	
50 Amp D/C Motors .....	<b>#2973</b> — 2 Position			

**TIMER, ELAPSED TIME INDICATOR — Hours**

<b>#0321</b> —120vac	<b>#1507</b> —240vac	<b>#0962</b> —12vdc	<b>#0963</b> —24vdc
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**TOUCHSCREEN, wo/ETHERNET, COLOR**

<b>#3348</b> —5.7" Diag.	<b>#3349</b> —10.4" Diag.	<b>#3350</b> —12.1" Diag.
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**WELD FLANGE (Ships Loose)**

<b>#0157</b> — ¼"	<b>#0370</b> — ⅜"	<b>#0158</b> — ½"	<b>#0371</b> — ¾"	<b>#0372</b> — 1"	<b>#0373</b> — 1 ¼"
<b>#0374</b> — 1 ½"	<b>#0375</b> — 2"	<b>#0376</b> — 2 ½"	<b>#0377</b> — 3"	<b>#0378</b> — 4"	<b>#0379</b> — 6"

## PUMP / MOTOR SIZING

### PUMP / MOTOR SIZING

The flow rate and pressure determine the size of pump and motor. Select pump motor by horsepower rating & characteristics.

#### 2 GPM PUMP - 1800 RPM MOTOR @ 60° F.

PRES-SURE (PSI)	FLOW RATE (GPM)	HP REQ.	MOTOR HP
40	1.86	.14	1/3*
60	1.74	.18	1/3*
80	1.62	.23	1/3*
100	1.50	.28	1/3

\* Also ¼ HP DC Motors

#### 4 GPM PUMP - 1800 RPM MOTOR @ 60° F.

PRES-SURE (PSI)	FLOW RATE (GPM)	HP REQ.	MOTOR HP
40	3.41	.22	1/3
60	3.08	.29	1/3
80	3.23	.36	1/2
100	3.03	.43	1/2

#### 8 GPM PUMP - 1800 RPM MOTOR @ 60° F.

PRES-SURE (PSI)	FLOW RATE (GPM)	HP REQ.	MOTOR HP
40	7.90	.55	3/4
60	7.50	.75	3/4
80	7.00	.95	1
100	6.50	1.15	1 ½

#### 10 GPM PUMP - 1800 RPM MOTOR @ 60° F.

PRES-SURE (PSI)	FLOW RATE (GPM)	HP REQ.	MOTOR HP
40	10.10	.90	1
60	9.90	1.20	1 ½
80	9.60	1.50	1 ½
100	9.40	1.75	2

#### 23 GPM PUMP - 1800 RPM MOTOR @ 60° F.

PRES-SURE (PSI)	FLOW RATE (GPM)	HP REQ.	MOTOR HP
40	22.50	1.53	1 ½
60	22.10	1.92	2
80	21.70	2.25	5
100	21.30	2.70	5

#### 40 GPM PUMP - 1200 RPM MOTOR @ 60° F.

PRES-SURE (PSI)	FLOW RATE (GPM)	HP REQ.	MOTOR HP
40	36.00	1.70	2
60	34.00	2.30	5
80	32.00	2.80	5
100	30.00	3.50	5

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