



PUMP SETS

Pump sets are used for cooling tower and chilled water systems for existing underground reservoirs (sumps). They can have various configurations, in single- or double-pump systems with standby pumping available for either system type.

STANDARD FEATURES

- Pressure gauge
- Thermometer
- Manual priming valve
- Discharge strainer
- Foot valve
- Lug-mount butterfly valves
- Automatic level control makeup valves
- Centrifugal close-coupled pump featuring cast iron impellers with 230 or 460/3/60 ODP motor (other voltages and motor designs are available)
- On/Off selector switch starter (shipped loose)
- Throttling/shutoff butterfly valve
- All necessary fittings
- 1 year warranty on parts and labor

OPTIONAL FEATURES

- Individual NEMA 1 starters, 230/3/60 or 460/3/60 (Thermostat, well, on/off switch for cycling tower fans, and P2 recirculating pumps are available at extra cost)
- Annunciator circuit alarm: base, high-temp, low pressure, high pressure, low flow, low level, high level
- Automatic reservoir makeup package
- Suction legs over 36" long: 2.5", 3", 4", 6", or 8" (63, 76, 102, 152, or 203 mm)
- Butterfly valve handles
- Electronic level control with bracket
- Pressure regulating valve: 1", 1.25", 1.5", or 2" (25, 32, 38, or 51 mm)

SPECIFICATIONS

Standard selections are based on pump(s) being located 36" (91 cm) from the bottom of the sump. Longer suction legs are available. You must provide the distance from where the pump is located to the bottom of the sump with the order.

PS1 AND PS3 MODELS

Pump, hp (kW)	Max. flow ¹ , gpm (lpm)	Discharge size, in. NPT (mm)	Suction size, in. NPT (mm)	PS1 Ship. weight ² , lbs. (kg)	PS3 Ship weight ² , lbs. (kg)
3 (2.2)	90 (340)	2.5 (63)	2.5 (63)	283 (129)	394 (179)
5 (3.7)	90 (340)	2.5 (63)	2.5 (63)	303 (138)	414 (188)
7.5 (5.6)	160 (605)	3 (76)	3 (76)	361 (164)	502 (228)
10 (7.5)	160 (605)	3 (76)	3 (76)	401 (183)	542 (247)
15 (11.2)	250 (946)	4 (102)	4 (102)	570 (259)	846 (385)
20 (14.9)	320 (1211)	4 (102)	4 (102)	694 (316)	968 (440)
25 (18.6)	450 (1703)	6 (127)	6 (127)	841 (382)	1206 (548)
30 (22.4)	600 (2271)	6 (127)	6 (152)	1031 (468)	1504 (683)
40 (29.8)	900 (3406)	6 (152)	8 (203)	1470 (668)	2292 (1041)

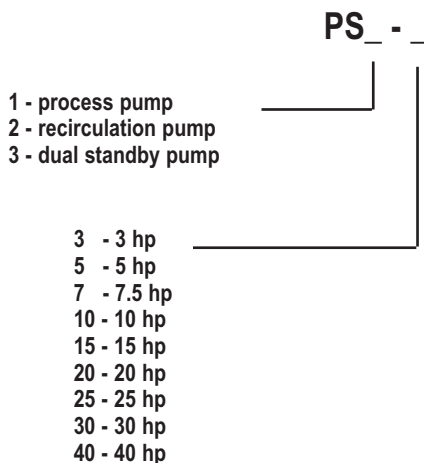
PS2 MODELS

Pump, hp (kW)	Max. flow ¹ , gpm (lpm)	Discharge size, in. (mm) NPT	Suction size, in. (mm) NPT	Ship weight ² , lbs. (kg)
3 (2.2)	90 (340)	2.5 (63)	2.5 (63)	283 (129)
5 (3.7)	160 (605)	3 (76)	3 (76)	351 (160)
7.5 (5.6)	320 (1211)	4 (102)	4 (102)	665 (302)
10 (7.5)	450 (1703)	6 (127)	6 (127)	857 (390)
15 (11.2)	600 (2271)	6 (127)	6 (152)	1056 (480)
20 (14.9)	900 (3406)	6 (152)	8 (203)	1575 (715)

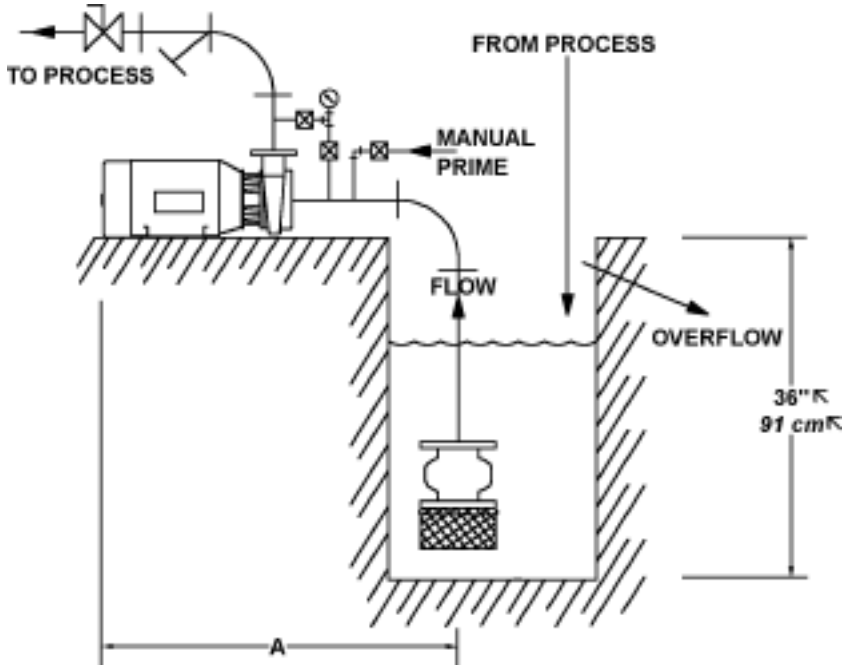
¹ Flow is based on pumping water at 105°F (41°C) or less and sump water level being no more than 48" (115 cm) below pump(s).

² Pump weight includes pipe and valves but not shipping crate. Pump(s) are shipped as individual units, not mounted on a common base, with the suction and discharge piping assembled but not attached to the pump.

PART NUMBERING SCHEME



TYPICAL PUMP SET SYSTEM



SPECIFICATIONS

Pump, hp (kW)	PS1 A dimension, in. (cm)	PS2 A dimension, in. (cm)	PS3 A dimension, in. (cm)
3 (2.2)	44 (112)	44 (112)	44 (112)
5 (3.7)	46 (117)	48 (122)	46 (117)
7.5 (5.6)	47 (119)	53 (135)	48 (122)
10 (7.5)	57 (145)	57 (145)	52 (132)
15 (11.2)	50 (127)	64 (163)	55 (140)
20 (14.9)	53 (135)	70 (178)	58 (147)
25 (18.6)	57 (145)	n.a.	63 (160)
30 (22.4)	62 (157)	n.a.	69 (175)
40 (29.8)	67 (170)	n.a.	76 (193)

Note: "A" dimension is the maximum distance from the centerline of the suction leg to the end of the pump

CONFIGURATIONS

Figure A

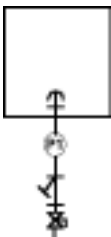


Figure B

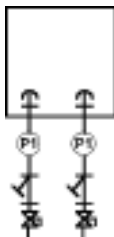


Figure C

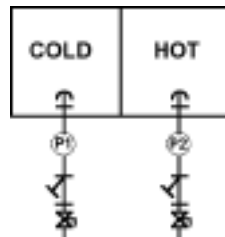
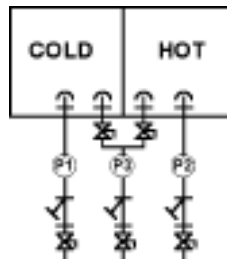
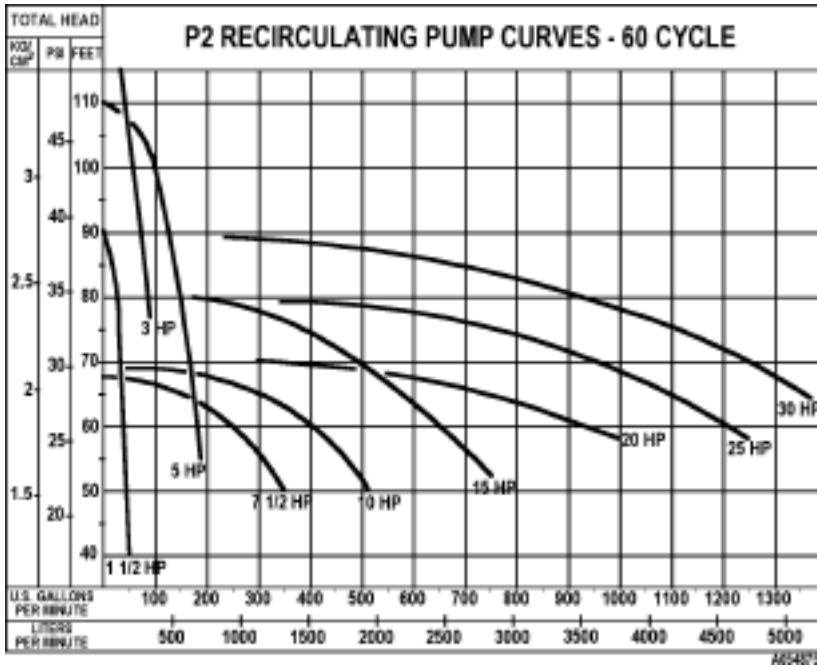
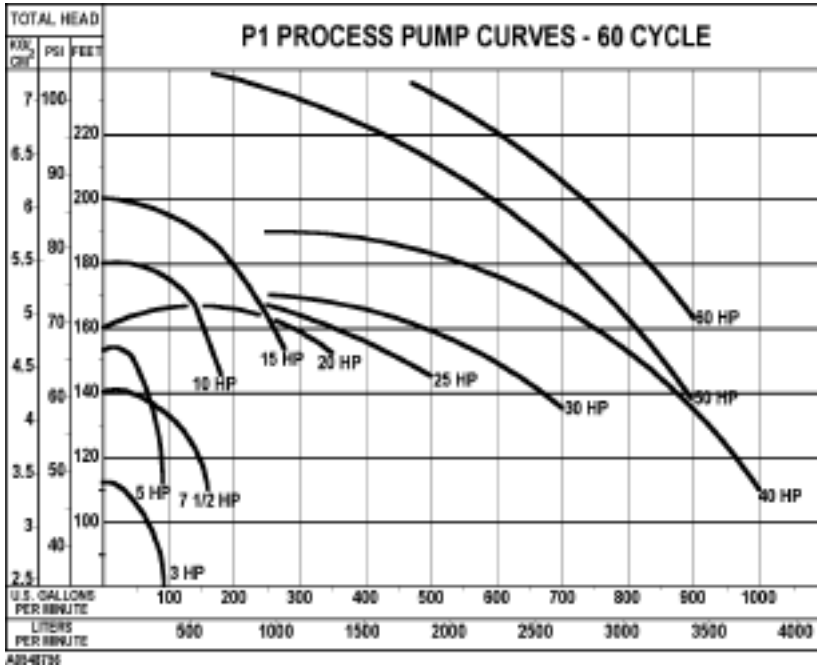


Figure D



PUMP CURVES



Note: For 50 Hz operation, derate by multiplying pressures by 0.69.