

Skid Mounted Duplex Oil Pump Sets

These fully integrated, engineered, self-contained, pre-packaged and pre-wired package pumping systems are the perfect answer to meet today's high performance and reliability standards found in commercial, industrial and institutional applications. With a wide range of flow rates, our pumping systems provide a reliable means for the transfer of fuel to oil burners, day tanks or emergency generators where system head pressures range from 0 to 200 PSI.

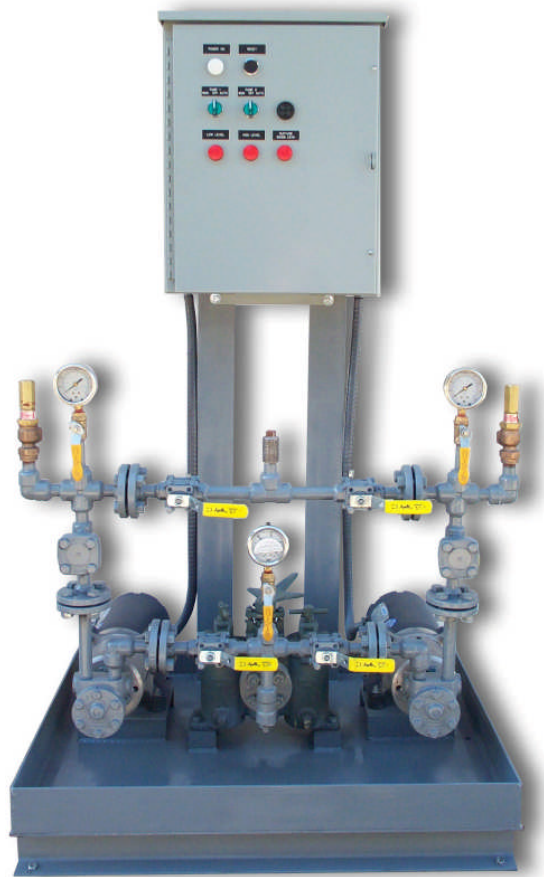
Units are factory-assembled, suitable for pad mounting, on a heavy duty structural steel containment basin with all piping welded and flanged.

At the heart of each system is a rugged, cast iron, positive displacement pump designed for long life and continuous duty. Each pump is selected for system specific requirements, pressure and flow rates, and is mounted directly to a UL listed single or three phase, totally enclosed fan cooled motor providing direct alignment of the pump and motor.

Our involuted "gear within a gear" design reduces gear wear while providing a pump with minimal noise and excellent suction characteristics. This design approach eliminates the need for any re-alignment of the motor pump combination after installation.

Each Phillips Pump System Includes:

- Piping - Schedule 40, ASTM Grade A-53 black steel with A-105 forged steel socket welded fittings and A-105 150# forged steel flanges.
- Pump set containment basin, 3" high overflow lip with 1/2" NPT drain.
- Duplex strainer on system inlet for continuous flow during basket cleaning
- Liquid filled compound vacuum pressure gauge with shut off valve, 2 1/2" diameter, 30 " Hg – 0 – 30 PSI, on suction side of pump set is standard. Additional gauges, other ranges or larger dials are available.
- Positive displacement gear pumps, 0 – 250 PSI pressure range, direct coupled to UL listed totally enclosed fan cooled industrial motors with an class 800 swing type check valve on each pump discharge
- Common system suction and common discharge ports
- External adjustable relief valves on each pump discharge for system protection
- Liquid filled pressure gauges with shut off valves, 2 1/2" diameter, on each pump discharge. Additional gauges, different settings or larger dials are available.



- Shut-off valves with lockable handles, flanged & placed so pump may be removed for servicing without disturbing piping
- UL 508 listed, NEMA 3R control panel, mounted on front of system to meet national electrical codes, with factory programmed pump controller, automatic pump alternation, manual-off-auto pump mode selector switches, power available indication, integral pump motor starters with adjustable overload protection
- Systems available in single (115/208-230 volt) or three phase (208-230/460 volt). All motor RPM are 1725, consult factory for other types of fuels or higher pressure ratings.
- Pump set and [system control options](#) are available to meet the specific requirements for each application. Standard controls can be set for either boiler loops or generator day tank fill.

Specifications: [Boiler Loop](#) or [Day Tank Fill Operations](#)

[View Catalog Cut OnLine](#)

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DP SERIES DUPLEX PUMP SETS												
System Series	System Inlet	System Outlet	Flow Rate & Horsepower - 1725 Motor RPM									
			10 PSI		50 PSI		100 PSI		150 PSI		200 PSI	
			GP M	H P	GP M	H P	GP M	H P	GP M	H P	GP M	H P
DP-1	3/4" NPT	1/2" NPT*	1.8	1/3	1.4	1/3	1.2	1/3	1.1	1/2	.9	3/4
DP-3	3/4" NPT	1/2" NPT*	3.4	1/3	3.0	1/3	2.8	1/2	2.4	3/4	2.1	3/4
DP-5	3/4" NPT	1/2" NPT*	4.6	1/3	4.2	1/3	3.6	1/2	3.2	3/4	2.8	1
DP-6	3/4" NPT	1/2" NPT*	6.4	1/3	6.2	1/2	5.7	3/4	5.3	1	5.0	1/2
DP-8	3/4" NPT	1/2" NPT*	8.1	1/2	7.5	3/4	7.0	1	6.4	1/2	5.5	2
DP-10	1" NPT	3/4" NPT	12.5	3/4	11.0	1	10.0	1/2	9.5	2	9.0	3
DP-15	1 1/2" NPT	1" NPT	16.0	3/4	14.5	1	13.7	1/2	13.0	2	12.3	3
DP-20	1 1/2" NPT	1" NPT	19.6	1	18.2	1/2	17.6	2	16.4	3	15.8	3
DP-24	1 1/2" NPT	1" NPT	21.5	1	19.8	1/2	18.7	2	18.0	3	17.0	5
DP-30	2" NPT	1" NPT	30.5	1/1	29.5	2	28.5	3	27.5	5	27.0	5

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DP-40	2" NPT	1" NPT	40.5	2	38.8	3	37.8	5	37.0	5	36.3	7 1/ 2
DP-44	3" FLG	2" FLG	47.0	3	44.5	3	42.5	5	41.0	7 1/ 2	39.0	10
DP-54	3" FLG	2" FLG	54.3	3	51.0	3	49.0	5	48.0	7 1/ 2	47.0	10
DP-60	3" FLG	2" FLG	61.0	3	59.0	5	58.0	7 1/ 2	57.0	10	55.5	15
DP-70	4" FLG	2" FLG	72.0	3	69.0	5	66.0	7 1/ 2	64.0	10	62.0	15
DP-80	4" FLG	2" FLG	82.0	5	79.0	7 1/ 2	77.0	10	74.0	15	71.0	15

Our Most Popular Options	
Option	Description
1092	Fusible link valve, lever type (includes wire coil & fuse link)
1093	Fusible link valve, arm type
1100	Additional pressure gauge on pump set discharge
1101	Additional compound vacuum/pressure gauge on suction side of strainer
1120	4" dial vacuum and pressure gauges in lieu of standard 2 1/2" dial gauges
1105	Back Pressure Regulating Valve (Note: pressure range must be specified)
1191	Containment piping leak sensor with piping leak detect alarm indication
1264	Differential pressure gauge across strainer with tri-color scale (green for clean, yellow for clean, red for dirty) with control panel clean strainer indicating alarm
1270	Pump set basin leak detection sensor, float type with protective shroud with control panel pump set leak detected indicating alarm
1285	Pump set discharge flow sensor with pump failure alarm indication
1286	Pump set discharge pressure sensor with pump failure alarm indication (to be used in lieu of option #1285)
1490	Explosion proof motor, 208-230/460, Three Phase

1494	Explosion proof motor, 115/208-230 Single Phase
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