



®
OBERDORFER

An Ingersoll Rand Business

600 Series Bronze Close Coupled Centrifugal Pump



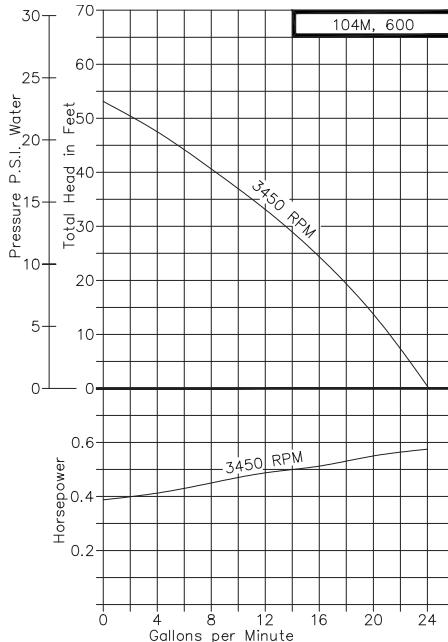
Features

- Pipe Size: Inlet 3/4", Outlet 1/2" NPT
- Rugged bronze construction
- A standard in the marine air conditioning industry
- Extremely quiet operation
- O-ring housing seal eliminates gasket problems
- Handles contaminated liquids
- Discharge port orientation flexibility
- Mechanical seal - carbon/ceramic - NBR, FKM, or PTFE options
- Pump heads mount to standard footed NEMA 56J jet pump motors
- Shafts: 416 Stainless
- Multiple motor options available
- For marine version - see Model OB104M
- For pedestal style version, see Model OB60P

Characteristics

This close coupled pump uses a standard NEMA C-Flange Jet Pump Motor with weld-on base and threaded shaft end to accept the pump impeller. Single phase motors are non-reversible and are wired for the proper pump rotation which is counter-clockwise looking at the inlet end of the pump. Three phase motors must be checked out for proper rotation when pump is installed. Interchanging of any 2 wires in a 3-phase system will reverse motor rotation.

Performance Capacity Water at 70°F



The pump uses a mechanical type shaft seal with a NBR rubber element. It is suitable for water, oils, and some mild solvents. It is limited to 212° F and 75 PSI. FKM seals and PTFE seals are available for severe solvents and difficult chemicals.

These centrifugal pumps are not self-priming. They must be installed below the liquid level so that the liquid flows to the pump by gravity (flooded suction). However, if a foot valve is used at the beginning of the suction line and all air is bled from the pump by manual priming, the pump will lift on the suction side up to 15 feet. Such a system relies entirely on a non-leaking foot valve for starting capability.

The flow of a centrifugal pump can be conveniently controlled by a throttling valve in the discharge line without the need for a relief valve. In centrifugal pumps, the horsepower demand will decrease as the pressure increases. Maximum horsepower occurs with a wide open discharge.

Liquids

The pump alloys ensure corrosion resistance against water, solutions, and many chemicals (for special liquids, consult the factory). It can pump viscous liquids up to 2000 SSU, but compared to water this reduces flow and pressure while increasing horsepower demand. Heavier liquids also require proportionally more horsepower. Pumps can handle liquids with small solids/abrasives, though seal life will be shortened.



Exploded View and Parts List

* Item 8 is used in OB50P-35 pumps only

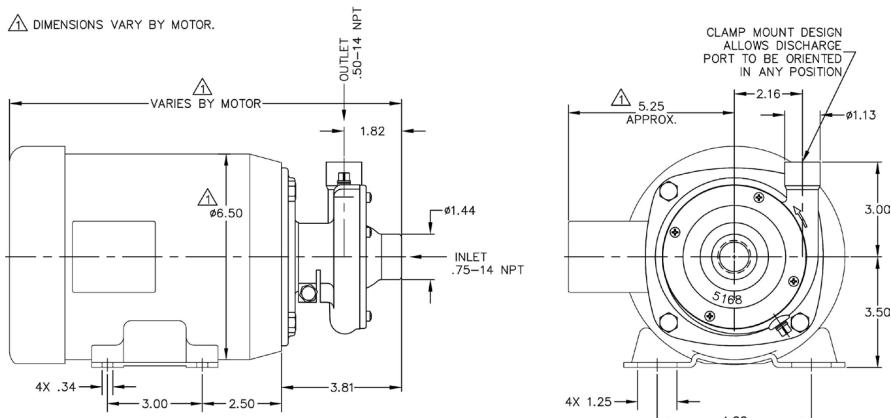


1	2	3*	4*	5a*	5b*	5c*	6	7	8	9	10	11	12	13	Repair Kit	
Model	Qty. 4	Qty. 1	Qty. 1	Qty. 1	Qty. 1	Qty. 1	Qty. 2	Qty. 1	Qty. 1	Qty. 4	Qty. 1	Qty. 1	Qty. 1	Qty. 1		
OB600	OB5385	OB5168-2	OB9797-043	OB5219	OB2913	OB529201	OB6052	OB7515-2	OB5595	OB5411	OB7611	n/a	See Chart	OB7736	OB10696	
OB600P	OB5385	OB5168-2	OB9797-043	OB7201	OB2913	OB529201	OB5395	OB7515-2	OB5595	OB5411	OB7611	OB9849	See Chart	OB7736	OB10858	
OB600S-10	OB5385	OB5168-2	OB9797-043	OB6033	OB6141	OB6142	OB6143	OB6052	OB7515-2	OB5595	OB5411	OB7611	n/a	See Chart	OB7736	OB10814
OB600PS-10	OB5385	OB5168-2	OB9797-043	OB7432	OB6141	OB6142	OB6143	OB6052	OB7515-2	OB5595	OB5411	OB7611	OB9849	See Chart	OB7736	OB12175
OB600S-11	OB5385	OB5168-2	OB9355-043	OB6033	OB6052	OB6173-2	OB5595	OB5411	OB7611	n/a	See Chart	OB7736	OB10768			
OB600PS-11	OB5385	OB5168-2	OB9355-043	OB7432	OB6052	OB6173-2	OB5595	OB5411	OB7611	OB9849	See Chart	OB7736	OB11747			

* Repair kit contains items 3, 4, 5 (5a, 5b, 5c), & 11

Dimensions

⚠ DIMENSIONS VARY BY MOTOR.



Model	Motor	Motor Specs	Motor Item 12
OB600, OB600S-10, OB600S-11	F13	1/3 HP, 3450 RPM, 115V, Single, ODP	OB5859
OB600	F19	1/3 HP, 3450 RPM, 115/230V, Single, ODP	OB7957
OB600	F20	1/3 HP, 3450 RPM, 115/230V, Single, TEFC	OB7986
OB600	F21	1/3 HP, 3450 RPM, 115/230V, Single, XP	OB8214
OB600	F22	1/3 HP, 2850 RPM, 115/230V, Single ODP	OB9758
OB600, OB600S-10, OB600S-11	J19	1/2 HP, 3450 RPM, 115/230V, Single, ODP	OB5860

Model	Motor	Motor Specs	Motor Item 12
OB600, OB600S-10, OB600S-11	J20	1/2 HP, 3450 RPM, 115/230V, Single, TEFC	OB7976
OB600P, OB600P-S10, OB600PS-11	F57	1/3 HP, 3450 RPM, 220/440V, Three, ODP	OB6996
OB600P	M57	3/4 HP, 3450 RPM, 220/440V, Three, ODP	OB6999
OB600P, OB600P-S10, OB600PS-11	M58	3/4 HP, 3450 RPM, 220/440V, Three, TEFC	OB7967
OB600P-S10, OB600PS-11	F58	1/3 HP, 3450 RPM, 220/440V, Three, TEFC	OB7987
OB600P, OB600P-S10, OB600PS-11	J58	1/2 HP, 3450 RPM, 220/440V, Three, TEFC	OB9214