

Submersible Motors

PROVEN PERFORMANCE — EVEN UNDER THIRTY FEET.

Baldor offers more submersible motor design solutions than any other motor manufacturer in the world. Reliance provides submersible motors for both wet pit and dry pit applications. Wet pit motors use the effluent for cooling and can run 15 minutes in air. Dry pit motors are sized to run continuously in air or submerged if needed. Primarily serving both municipal and industrial wastewater markets, the submersible motor can also be used for slurry pumps, aerators and mixers. For over 40 years, pump OEMs have chosen to work with Baldor•Reliance to meet their customer's specific application needs.

PRODUCT SCOPE

	15 min in air	Continuous in air
HP	1 to 450	1 to 150
Speeds	3600 to 600	3600 to 600
Frames	180TY to 440TY	180TY to 440TY



TOUGH, CORROSION RESISTANT CONSTRUCTION

- Frame and end shields are all cast iron construction
- 316 Stainless steel hardware
- 416 Stainless steel shaft
- Non wicking epoxy sealed cable entry with butt spliced connections
- O-rings on all machined fits

RELIABLE OPERATION

- U/L listed and CSA certified for Class 1 Division 1 Groups C & D with a T3C temperature code
- John Crane Type 21 tandem mechanical seals designed to withstand 100 psi
- Dual moisture probes to detect any moisture in oil chamber
- Inverter rated insulation system, Class 1 Division 1 Group D, T2A
- 25 feet of cable, longer lengths available

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SUBMERSIBLE MOTOR CAPABILITIES CHART

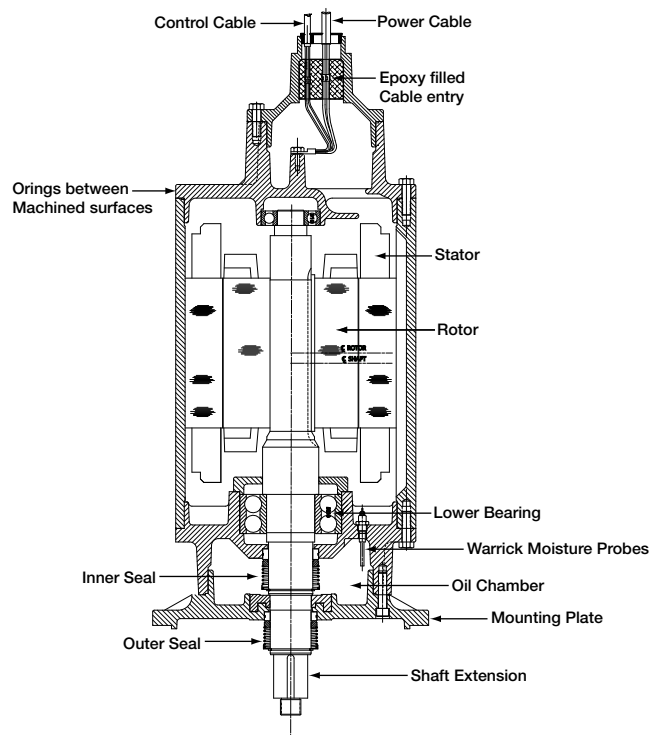
UL APPROVED AND NON-UL APPROVED

MAXIMUM HORSEPOWER PER FRAME (BASED ON 1800 RPM)

Frame	15 Min in Air	Continuous in Air	Premium efficient, 15 Min in Air	Single Phase 15 Min in air	Single Phase Continuous in Air
180TY	7.5	3	5	3	1
210TY	20	5	10	5	1.5
250TY	40	10	20	-	-
320TY	75	20	60	-	-
360TY	150	40	125	-	-
440TY	450	150	350	-	-

Seal	Description	Application
John Crane Type 21 Carbon Ceramic Faces	Standard seal offering. A general purpose seal of stainless steel construction with carbon ceramic seal faces.	Used wastewater applications with relatively clean effluent.
John Crane Type 21 Tungsten Carbide Faces	Same type of seal except with tungsten carbide faces. Harder seal faces.	For more demanding, slurry type applications.
John Crane Type 21 Silicon Carbide Faces	Same type of seal except with silicon carbide faces.	For the most demanding, slurry type applications.
Slurry Type Seal	Seal is completely contained in the oil chamber. Non-explosion proof design only.	For demanding slurry applications. This seal is not exposed to the effluent and can be used in continuous in air.
Hydropad Seal	Special seal design with hydropad scallops to run cooler.	Recommended for continuous in air applications.

*Baldor does not provide the float switch.



BALDOR

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