



# MYERS° 3RH AND 3RHX

SOLIDS HANDLING WASTEWATER PUMPS STANDARD (3RH) AND HAZARDOUS LOCATION (3RHX) CONSTRUCTION

## MYERS\*3RH AND 3RHX TECHNICAL INFORMATION



#### THE RIGHT CHOICE

MYERS 3RH and 3RHX (hazardous location) submersible wastewater pumps are the right choice when difficult to pump fibrous or stringy solids are to be expected. The 3RH/3RHX series provides smooth, vibration-free operation when operating at heads higher than peak efficiency. For use in commercial lift stations, treatment plants and industrial waste applications. MYERS offers a complete line of wastewater pumps, lift-out rail assemblies, controls and accessories to meet your needs. Call your MYERS distributor or the MYERS sales office at 419-289-1144 for more details.

## PASSES STRINGY TRASH, FIBROUS WASTES, SLURRIES, AND OTHER DIFFICULT TO PUMP SOLIDS THAT STANDARD ENCLOSED OR SEMIOPEN IMPELLERS CANNOT.

- Recessed impeller design has completely open passage in volute.
- Pumping action is by Vortex; solids cannot get caught in impeller volute.
- Operates without vibration or cavitation over entire performance curve.
   Operates near shut-off without harming pump.

## DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE.

- Recessed impeller greatly increases bearing life by reducing radial load.
- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- Heat sensor thermostats embedded in windings protect motor from overheat conditions.
- Seal leak probes warn of moisture entry; help prevent costly motor burnout.

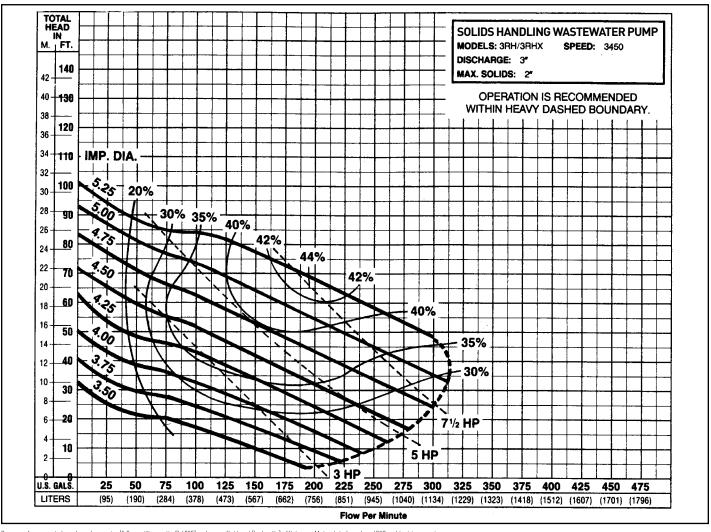
AVAILABLE WITH OPTIONAL FM APPROVAL FOR USE IN CLASS 1, GROUPS C AND D HAZARDOUS LOCATIONS (3RHX ONLY).

Product Capabilities									
Capacities To	315 gpm	19.9 lps							
Heads To	100 ft.	30.4 m							
Solids Handling (dia.)	2 in.	50.8 mm							
Liquids Handling	raw unscreened sewage, fibrous wastewater, effluent, storm water								
Intermittent Liquid Temp.	up to 140°F	up to 60°C							
Winding Insulation Temp. (Class F)	311°F	155°C							
Motor Electrical Data	3450 RPM 3 – 5 HP, 200/230V, 1Ø, 60 Hz 3 – 7½ HP, 200/230/460/575V, 3Ø, 60 Hz								
Std. Third Party Approvals	CSA								
Optional Approvals	FM Class 1, Groups C & D (3RHX only)								
Acceptable pH Range	- 9								
Specific Gravity	cific Gravity .9 – 1.1								
Viscosity	28 – 35 SSU								
Horizontal Discharge Flanged Centerline	3 in. 125 lb. ANSI	76 mm							

NOTE: Consult factory for applications outside of these recommendations.

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Construction Materials								
Motor Housing, Seal Housing, Cord Cap and Volute Case	cast iron, Class 30, ASTM A48							
Recessed Impeller	ductile iron, Class 65 ASTM A536							
Power Cord	S00W, W							
Control Cord	S00W							
Mechanical Seals Standard Optional	double tandem, type 21 carbon and ceramic lower tungsten, carbide							
Pump, Motor Shaft	416 SST							
Fasteners	300 series SST							

## 3450 RPM PERFORMANCE CURVE



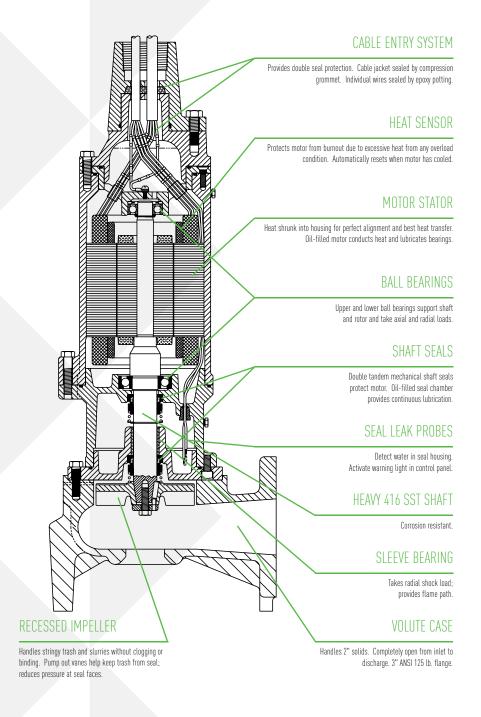
Pump performance is based on clear water (1.0 specific gravity @ 68°F) and pump fluid end (hydraulic) efficiency. Motor data based on 40°C ambient temperature.

Availab	le Models					Motor Electrical Data								
Standard	Hazardous Location	HP	Volts	Phase	Hertz	Start Amps	Run Amps	Service Factor Amps	Run kW	Service Factor kW	Start KVA	Run KVA	NEC Code Letter	Service Factor
3RH30M2-01	3RHX30M2-01	3	208	1	60	135.0	17.9	23.8	3.5	4.6	27.0	3.6	L	1.20
3RH30M2-21	3RHX30M2-21	3	230	1	60	75.0	15.6	20.7	3.5	4.6	17.3	3.6	G	1.20
3RH30M2-03	3RHX30M2-03	3	208	3	60	66.0	9.9	13.3	3.2	4.3	22.9	2.3	J	1.20
3RH30M2-23	3RHX30M2-23	3	230	3	60	56.6	8.6	11.5	3.2	4.3	22.5	2.3	J	1.20
3RH30M2-43	3RHX30M2-43	3	460	3	60	28.3	4.3	5.8	3.2	4.3	22.5	2.3	J	1.20
3RH30M2-53	3RHX30M2-53	3	575	3	60	23.0	3.5	4.6	3.2	4.3	22.9	2.4	J	1.20
3RH50M2-01	3RHX50M2-01	5	208	1	60	135.0	29.3	33.4	5.2	5.8	27.0	5.9	F	1.20
3RH50M2-21	3RHX50M2-21	5	230	1	60	117.0	25.5	29.0	5.2	5.8	26.9	5.9	F	1.20
3RH50M2-03	3RHX50M2-03	5	208	3	60	82.0	17.0	19.1	5.2	5.9	28.4	4.0	G	1.20
3RH50M2-23	3RHX50M2-23	5	230	3	60	77.0	14.8	16.6	5.2	5.9	30.7	4.0	G	1.20
3RH50M2-43	3RHX50M2-43	5	460	3	60	38.5	7.4	8.3	5.2	5.9	30.7	4.0	G	1.20
3RH50M2-53	3RHX50M2-53	5	575	3	60	34.0	5.9	6.6	5.2	5.9	33.9	4.0	G	1.20
3RH75M2-03	3RHX75M2-03	7.5	208	3	60	211.0	23.6	31.1	7.4	9.7	73.1	5.5	L	1.31
3RH75M2-23	3RHX75M2-23	7.5	230	3	60	172.0	20.5	27.0	7.4	9.7	68.5	5.5	L	1.31
3RH75M2-43	3RHX75M2-43	7.5	460	3	60	86.0	10.3	13.5	7.4	9.7	68.5	5.5	L	1.31
3RH75M2-53	3RHX75M2-53	7.5	575	3	60	71 /	8.7	10.8	7.4	0.7	71 1	5.5		1.31

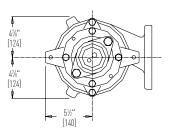
	Motor Efficiencies and Power Factor											
			Motor Efficiency %	Power Factor %								
HP	Phase	Service Factor Load	100% Load	75% Load	50% Load	Service Factor Load	100% Load	75% Load	50% Load			
3	1	65.0	65.2	60.0	51.7	95	96	97	96			
3	3	68.8	69.3	68.9	58.4	94	94	91	86			
5	1	77.5	71.5	69.5	62.8	86	92	95	95			
5	3	75.5	71.6	67.4	61.6	89	90	87	83			
7.5	3	75.2	76.0	74.7	69.4	91	90	88	83			

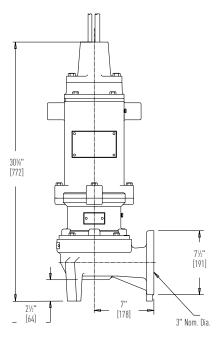
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### ADVANTAGES BY DESIGN



#### DIMENSIONS [Dimensions in mm]







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