



MYERS®

3WHR

VORTEX SOLIDS HANDLING
WASTEWATER PUMP

MYERS 3WHR TECHNICAL INFORMATION



DESIGNED FOR LIGHT & MEDIUM COMMERCIAL APPLICATIONS

The 3WHR series solids handling pumps are designed primarily for commercial applications such as schools and churches, industrial plants, shopping centers, apartments and condominiums, marinas, interstate rest stops, sewage collection systems, campgrounds, motels, restaurants, office and commercial buildings, state and federal parks, hospitals and nursing homes, dewatering, trailer parks and treatment plants.

This pump can be installed with a quick-disconnect slide rail system. Its ability to handle 3-inch spherical solids makes it ideal for most light to medium commercial installations. For more information, contact your Myers distributor or the Myers sales office at 419-289-1144.

VORTEX IMPELLER DESIGN HAS COMPLETELY OPEN PASSAGE IN VOLUTE.

- Recessed design pumps stringy, fibrous waste and other difficult to pump solids with ease.
- Pumps by vortex, allowing pumping medium to pass through the volute without coming in contact with impeller.
- Operates without vibration or capitation over entire performance curve. Operates near shut-off without harming pump.

DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE.

• Oil-filled motor for maximum heat dissipation and constant bearing lubrication.

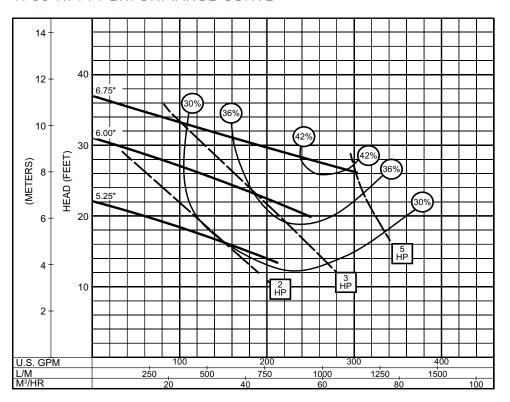
Product Capabilities								
Capacities To	300 gpm	25.24 lps						
Heads To	37 ft.	14.6 m						
Solids Handling (dia.)	3 in.	76 mm						
Liquids Handling	raw unscreened sewage, effluent, storm water							
Intermittent Liquid Temp.	up to 140°F	up to 60°C						
Winding Insulation Temp. (Class B)	266°F	130°C						
Motor Electrical Data [Single phase motors are capacitor start type. Myers control panels or capacitor kits are required for proper operation and warranty.]	1750 RPM 1-1/2 – 5 HP, 230V, 1Ø, 60 Hz 1-1/2 – 5 HP, 200/230/460/575V, 3Ø, 60 Hz							
Std. Third Party Approvals	CSA							
Acceptable pH Range	6 – 9							
Specific Gravity	.9 – 1.1							
Viscosity	28 - 35 SSU							
Discharge, Flanged Centerline, (Horiz. or Vert.)	3 in.	76.2 mm						
Min. Sump Dia. (Duplex)	60 in.	1.5 m						

NOTE: Consult factory for applications outside these recommendations.

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

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1750 RPM PERFORMANCE CURVE



Available Models	els Motor Electrical Data											
Standard	НР	Volts	Phase	Hertz	Start Amps	Full Load Amps	Service Factor Amps	Full Load kW	Start KVA	Full Load KVA	NEC Code Letter	Service Factor
3WHR15M4-21	1.5	230	1	60	72	10	12	2.0	16.6	2.3	М	1.2
3WHR15M4-03	1.5	208	3	60	51	6.6	8	2.2	18.4	2.4	N	1.2
3WHR15M4-23	1.5	230	3	60	54	5.5	7	1.8	21.5	2.2	R	1.2
3WHR15M4-43	1.5	460	3	60	27	2.8	3.5	1.8	21.5	2.2	R	1.2
3WHR15M4-53	1.5	575	3	60	18	2.2	2.8	1.8	17.9	2.2	N	1.2
3WHR20M4-21	2	230	1	60	72	12	14.4	2.5	16.6	2.8	K	1.2
3WHR20M4-03	2	208	3	60	51	8.4	9.8	2.9	18.4	3.0	L	1.2
3WHR20M4-23	2	230	3	60	54	7	8.6	2.5	21.5	2.8	М	1.2
3WHR20M4-43	2	460	3	60	27	3.5	4.3	2.5	21.5	2.8	М	1.2
3WHR20M4-53	2	575	3	60	18	2.8	3.4	2.6	17.9	2.8	K	1.2
3WHR30M4-21	3	230	1	60	106	21	26	4.5	24.4	4.8	K	1.2
3WHR30M4-03	3	208	3	60	86	15	18	5.0	30.9	5.4	М	1.2
3WHR30M4-23	3	230	3	60	52	12	15.6	4.6	20.7	4.8	Н	1.2
3WHR30M4-43	3	460	3	60	26	6	7.8	4.5	20.7	4.8	Н	1.2
3WHR30M4-53	3	575	3	60	25	5	6	4.6	25.1	5.0	K	1.2
3WHR50M4-21	5	230	1	60	153	34	34	6.7	35.2	7.8	Н	1.0
3WHR50M4-03	5	208	3	60	140	24	24	8.0	50.4	8.6	М	1.0
3WHR50M4-23	5	230	3	60	125	21	21	7.6	49.7	8.4	L	1.0
3WHR50M4-43	5	460	3	60	62	10.5	10.5	7.6	49.3	8.4	L	1.0
3WHR50M4-53	5	575	3	60	45	8.4	8.4	7.6	44.8	8.4	K	1.0

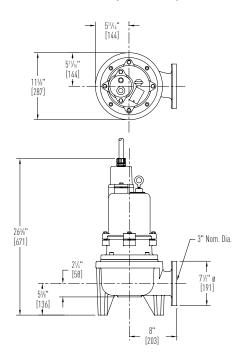
Motor Efficiencies and Power Factor											
Motor Efficiency %						Power Factor %					
HP	Phase	Service Factor Load	100% Load	75% Load	50% Load	Service Factor Load	100% Load	75% Load	50% Load		
1.5	1	69	68	65	59	69	67	61	48		
1.5	3	71	65	59	49	79	69	62	53		
2	1	73	73	71	68	70	70	63	50		
2	3	72	69	65	58	83	77	70	60		
3	1	70	70	67	59	51	69	49	45		
3	3	74	73.5	69.5	61.5	72	72	62.5	52		
5	1	70	70	69	65	51	62	50	47		
5	3	74	74	72	67	72	75	64	58		

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ADVANTAGES BY DESIGN

CABLE ENTRY SYSTEM Provides double seal protection. Cable jacket sealed by compression grommet. Individual wires sealed by epoxy potting. MOTOR STATOR Shrunk in shell for perfect alignment and best heat transfer. Oil-filled for continuous lubrication of bearings and seals. Winding insulation is Class F. STAINLESS STEEL SHAFT Prevents deflection from impeller radial loads when pump operates at heads higher than peak efficiency range. SINGLE SHAFT SEALS Protect motor. PUMP-OUT VANES Help keep trash from seal, reduce pressure at seal faces. HORIZONTAL DISCHARGE **VOLUTE CASE** 3" flanged. **VORTEX IMPELLER** Recessed multi-vane impeller.

DIMENSIONS [Dimensions in mm]





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