



Submersible Sewage Pump

SERIES 1DM/2DM

1 1/2" and 2" Sewage Pump

APPLICATIONS

Non-clog submersible sewage pumps for simplex and duplex installations in small lift stations, drainage systems or raw water applications requiring solids handling capability of 1 3/8" and 2" diameter made specifically for:

- Homes and farms
- Mobile home parks and motels
- Schools and hospitals
- Municipal package systems
- Industrial treatment systems
- Dewatering applications

SPECIFICATIONS

Pump:

- 1 1/2" discharge on 1/2 HP.
- 2" discharge on 3/4 HP and larger.
- Solid size: 1 3/8" solids on 1/2 HP; 2" solids on 3/4 HP and larger.
- Capacities: to 175 U.S. GPM (41 m³/h).
- Total heads: to 47 feet TDH (14 m).
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- Maximum submergence: to 17 feet (5 m).
- AISI 304 SS casing.
- AISI 304 SS impeller.
- Continuous duty rated, non-overloading motor.

Motor:

- Single phase: 60 Hz, 3450 RPM, 1/2 HP, 115 V; 1/2 to 1 HP, 230 V.
- Three phase: 60 Hz, 3450 RPM, 1/2 to 1 1/2 HP, 230 and 460 V.

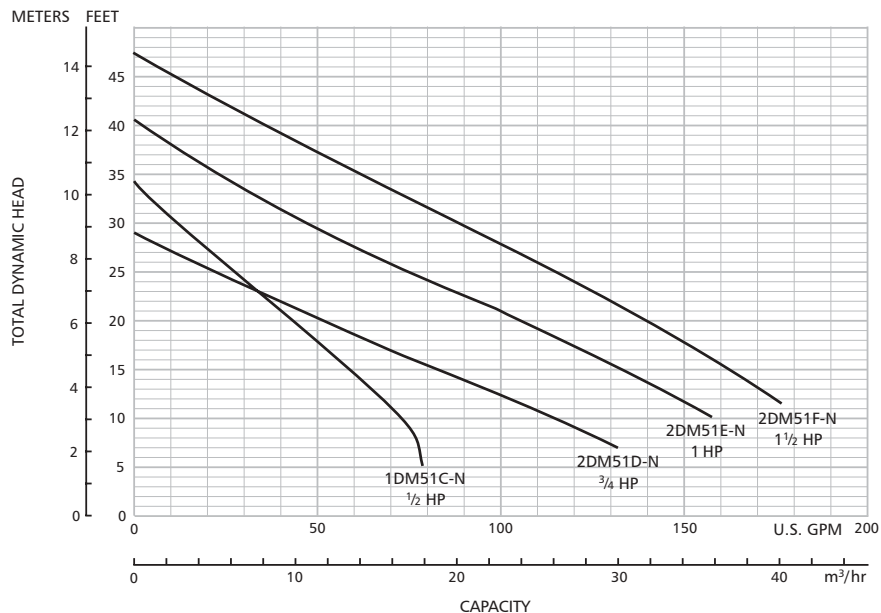
- Non-overloading.
- Air-filled, class F insulated motor.
- Thermal overload protection: built-in with automatic reset on single phase, 115 V and 230 V models.
- Three phase models require external overload in panel.
- Power cord: 20 feet long.
- Single phase 115 V and 230 V models are supplied with molded NEMA plug.
- The 115 V models include a capacitor box built into the cord assembly.
- Three phase models are supplied with bare leads.
- Float controls: optional, see accessory section for simplex or duplex system requirements.
- Rotation is clockwise when viewed from top.

FEATURES

- **Casing:** Corrosion resistant AISI 304 SS designed for long lasting performance.
- **Impeller:** AISI type 304 stainless steel construction; two vane non-clog design for maximum pumping efficiency.
- **Mechanical Seal:** Drive lube silicon carbide sealing faces; all metal components of AISI type 300 stainless steel running in protected oil chamber.
- **Elastomers:** BUNA-N
- **Pump Support Feet; Motor Shell and Lifting Handle:** Constructed of AISI type 304 series stainless steel.

- **Shaft:** AISI type 304 stainless steel high strength pump shaft with keyed and locking cap screw impeller fastening.
 - **Discharge:** 1 1/2" and 2" NPT for horizontal connection to rigid, flexible or guide rail piping connection.
- NOTE:** See accessory section guide rail systems, type A10-20 for simplex or duplex system.

Component	Material
Pump body and motor casing	Stainless steel (AISI 304)
Impeller	Stainless steel (AISI 304)
Lower mechanical seal	Silicon carbide/silicon carbide
Upper lip seal	Nitrile rubber
Motor shaft	Stainless steel (AISI 304)
Handle	Nylon



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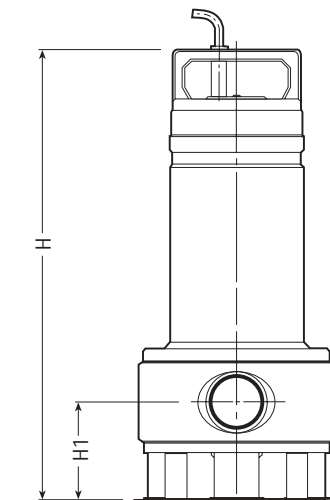
SERIES 1DM/2DM

1½" and 2" Sewage Pump

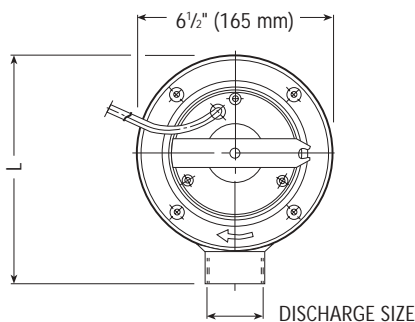
MODEL INFORMATION

Order Number	HP	Volts	Phase	Max. Amps	Start Amps	Capacitor uF/V	Resistance Start/Line-Line	RPM	Cord Length	Discharge Connection	Solids	Weight (lbs.)
1DM51C0NA	½	115	1	9.8	51.0	70/250	1.6 / 0.6	3450	20'	1½"	1⅜"	22
1DM51C1NA		230		4.2	26.3	20/450	5.9 / 2.6					
1DM51C3NA		460	3	2.3	14.6	NA	NA / 11.7					20
1DM51C4NA				1.2	7.5	NA	NA / 14.7					
2DM51D1NA	¾	230	1	5.4	27.2	22/450	4.4 / 1.9			30		
2DM51D3NA			3	3.4	24.9	NA	NA / 6.0				25	
2DM51D4NA	460	1.7		12.7	NA	NA / 7.8						
2DM51E1NA	1	230	1	7.0	30.6	30/450	4.2 / 1.9			34		
2DM51E3NA			3	4.4	29.8	NA	NA / 5.3				30	
2DM51E4NA		460		2.2	15.2	NA	NA / 6.6					
2DM51F3NA		1½	230	3	5.6	39.2	NA				NA / 3.7	32
2DM51F4NA	460				2.8	19.9	NA			NA / 4.8		

DIMENSIONS



Series	HP	Phase	Dimensions in inches (mm)			Discharge Size	Wt. (lbs.)
			H	H1	L		
1DM	½	3	15¼ (386)	3½ (88)	7½ (193)	1½"	20
		1					22
2DM	¾	3	17 (433)	4⅜ (111.5)	7¾ (198)	2"	25
		1	30				
	1	3	17¾ (453)				30
		1	34				
	1½	3	18⅝ (473)				32



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