MYERS® ME45 SERIES

The Myers ME45 series effluent pumps are designed to meet the demand of residential septic tanks or sump applications. This powerful 1/2 HP pump provides flow and head required for demanding dosing systems and drainage applications.



Features a Cast Iron Impeller

APPLICATIONS

Effluent removal, sump drainage, water transfer, flood control

SPECIFICATIONS

Capacities – 87 GPM (329 LPM)
Shut-off Head – 44' (13.41 m)
Operation – Manual
Max. Spherical Solids – 3/4" (19 mm)
Liquids Handling – Domestic effluent and drain water
Intermittent Liquid Temperature – Up to 140°F (60°C)
Motor/Electrical Data – 1/2 HP, 3450 RPM, oil-filled, permanent split capacitor type, 115V, 8.6A, 1Ø, 60Hz; 230V, 4.3A, 1Ø, 60Hz
Acceptable pH Range – 5-9
Specific Gravity – .9-1.1
Viscosity – 28-35 SSU
Discharge, NPT – 2" (50.8 mm)
Housing – Cast iron
Minimum Sump Diameter –
Simplex: 24" (61.0 cm)
Duplex: 36" (91.4 cm)
Power Cord – 20', 16/3, SJTOW

FEATURES

Powerful Torque
High-torque, permanent split capacitor (PSC) motor; no starting switches or relays to wear out

Rugged and Cool
Rugged-built, oil-filled motor for continuous bearing lubrication and maximum heat dissipation

Seal Protection
Upper and lower ball bearing and heavy duty Type 6 seal for added pump life

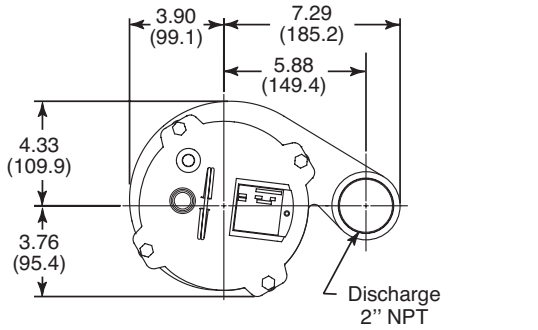
Thermal Protection
Heat sensor overload protection with automatic reset when motor cools to a safe operating temperature

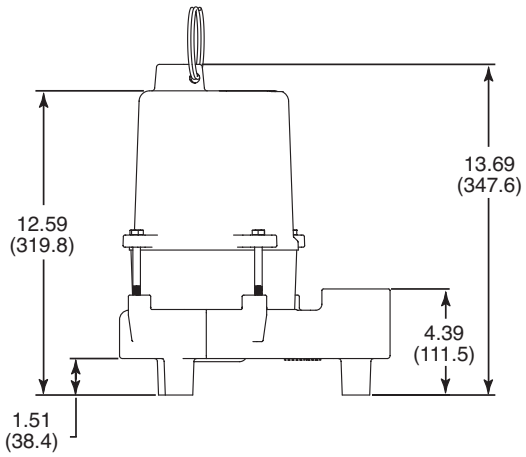
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ORDERING INFORMATION

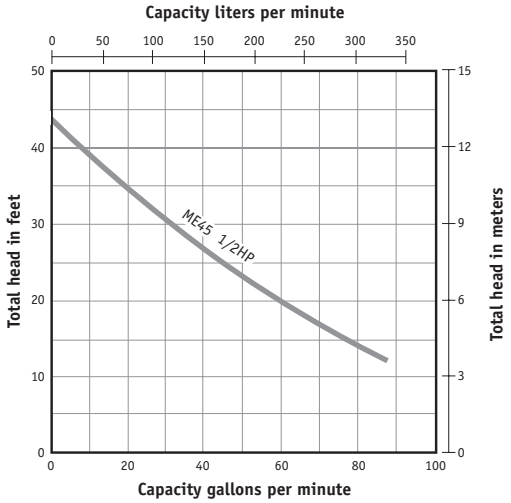
Catalog Number	HP	Volts	Phase/ Cycles	Amps	Discharge Size	Switch Type	Cord Length	Approx. Wt. Lbs.
ME45MC-11	1/2	115	1/60	8.6	2"	Manual	20'	58
ME45MC-21	1/2	230	1/60	4.3	2"	Manual	20'	58

DIMENSIONS





PUMP PERFORMANCE



MYERS® M45 SERIES

SPECIFICATIONS

Effluent Pumps – Pump(s) shall be F. E. Myers ME45 Series effluent pump selected in accordance with the following design criteria:

Number of Pumps:	_____
Primary Design Flow:	_____
Primary Design Head:	_____
Minimum Shut-off Head:	44'
Motor Horsepower:	1/2
Motor Speed:	3450 RPM
Electrical:	115 Volts, 1Ø, 60 Hz or 230 Volts, 1Ø, 60 Hz

Pump – The pump shall be designed to handle septic tank effluent and be capable of passing 3/4 inch spherical solids. The pump shall be capable of handling liquids with temperatures to 140°F intermittent.

Motor – The pump motor shall be of the submersible type rated 1/2 hp at 3450 RPM and shall be for _____115 volts or _____230 volts single phase, 60 cycles. Single phase motor shall be PSC motor with no relays or starting switches. Stator winding shall be of the open type with Class B insulation rated for 130°C maximum operating temperature. The winding housing shall be filled with clean dielectric oil to lubricate bearings and seals, and transfer heat from the windings to the outer shell.

The motor shall be capable of operating over the full range of the performance curve without overloading the motor and causing any objectionable noise or vibration. The motor shall have two bearings to support the rotor; an upper sleeve bearing to accommodate radial loads and a lower sleeve bearing with thrust pad to take thrust and radial loads.

A heat sensor thermostat and overload shall be attached to the top end of the motor windings and shall be wired in series with the windings to stop the motor if the motor winding reaches 200°C. The overload thermostat shall reset automatically when the motor cools to a safe operating temperature.

Power Cord – The motor power cord shall be 20 feet SJTOW type. The power and switch cords shall be of the positive sealing type. The power and switch cable connections shall be sealed at the motor entrance by means of a compression nut which serves to make a positive electrical connection and prevent water from entering the cable jacket and motor housing.

Shaft Seal – The motor shall be protected by a rotating mechanical shaft seal. The seals shall have carbon and ceramic seal faces lapped to a tolerance of 1 -3 light band. Metal parts and springs for seals shall be 18 - 8 series stainless steel.

Pump Impeller – The pump impeller shall be of the two vane semi-open type. The impeller shall be constructed of cast iron.

Motor Housing – The motor housing castings shall be of high tensile strength Class 30 gray cast iron. Castings shall be painted with a high quality, 1/8" thick (per UL778) baked epoxy spray for corrosion protection.

Pump Case – The pump case shall be a high efficiency volute design capable of passing 3/4 inch spherical solids. The pump volute shall be constructed of cast iron.

Fasteners – All exposed fasteners shall be of 300 series stainless steel.

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PENTAIR

USA
293 WRIGHT STREET, DELAVAN, WI 53115 WWW.FEMYERS.COM
PH: 888-987-8677 ORDERS FAX: 800-426-9446

CANADA
490 PINEBUSH ROAD, UNIT 4, CAMBRIDGE, ONTARIO N1T 0A5
PH: 800-363-7867 ORDERS FAX: 888-606-5484

Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.

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M9185SSE (03/05/18)