

# Light Wastewater Pump Type ABS MF 154HW

Compact submersible pump for the removal of domestic and commercial high temperature wastewater that can contain solids up to 20 mm.

## Applications

The MF 154HW submersible pump has been designed to cover a wide range of internal and external dewatering applications, but primarily where the temperature of the medium exceeds the standard upper limit (40 °C) to a maximum allowable temperature of 80 °C.

- Pumping of high temperature discharge water from laundries, commercial dishwashers and washing machines.
- Filling and emptying of containers, drainage of flooded cellars and removal of rainwater.
- Suitable for use in septic tanks and pumping effluent from locations below the backwash level in accordance with EN 12056.
- The vortex hydraulics are particularly suitable for the pumping of fluids containing gaseous or abrasive particles.
- The compact shape of the MF, fittings for easy mounting, and small sump requirements, ensure a quick and cost-effective installation of the pump.
- Maximum allowable temperature of the pumped medium is 80 °C (90 °C for max.5 minutes).

## Construction

The water-tight, fully flood-proof cast iron motor and the hydraulics section comprise a compact, robust, unit construction.

## Motor

Single-phase 220-240 V, 50 Hz, 2-pole (2900 r/min) motor. Insulation class F; protection type IP68.

## Bearings

The stainless steel rotor shaft is supported in lubricated-for-life ball bearings.

## Shaft sealing

Between motor and hydraulic section by means of a high quality mechanical seal of carbon / silicon carbide. Seal at motor side is an oil-lubricated NBR lip seal. Both are independent of direction of rotation and resistant to temperature shock.

## Temperature monitoring

TCS (Thermo-Control-System) with thermal sensors in the stator to switch off the pump in the case of overheating and switch on automatically after cooling down.

## Hydraulic section with vortex impeller

Free solids passage of 20 mm.

## Materials

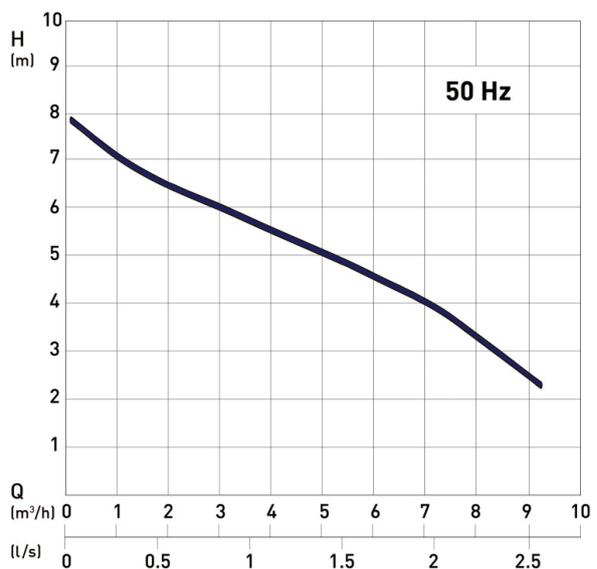
Description	Material
Upper Lid	Stainless steel 1.4301 (AISI 304)
Motor Housing	Cast iron EN-GJL-250
Rotor Shaft	Stainless steel 1.4021 (AISI 420)
Volute	Cast iron EN-GJL-250
Impeller	Polyamide
Cable	Neoprene
Fasteners	Stainless steel 1.4401 (AISI 316)



## Features

- Simple, cost-effective, pump installation.
- Vortex hydraulics for blockage-free pumping in critical applications.
- Free-standing on legs, or pedestal mounted.
- Discharge connections G 1½" internal - 1¼" adaptor.
- Mechanical and lip seals on rotor shaft.
- Thermal sensors to protect motor against overheating.
- Float switch for automatic level control.
- EasyFit plug-in cable connection.
- Fitted with Europlug.

## Performance curve



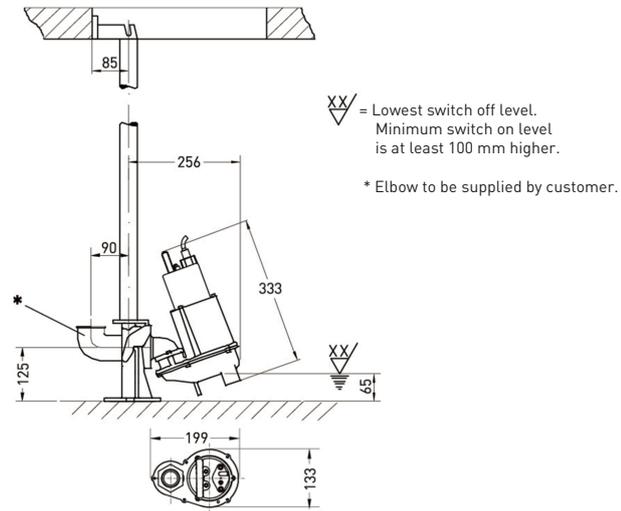
H = Total Head; Q = Discharge Volume.  
Curves to ISO 9906.

## Technical data

MF 154HW		
Discharge connection	G 1½" - 1¼"	
Motor power (kW)*	P <sub>1</sub>	0.65
	P <sub>2</sub>	0.42
Speed (r/min)	2900	
Rated voltage (V)	220-240 1~	
Rated current (A)	2.8	
Cable type (H07BN4-F)	F3G1.0	
Cable length (m)	10	
Weight (kg)	8.5	
Solids size (mm)	20	

\* P<sub>1</sub> = Power taken from mains. P<sub>2</sub> = Power at motor shaft  
According to VDE regulations submersible pumps for use externally must have a fixed cable connection with a length of at least 10 m. Regulations vary by country.

## Dimensions (mm)



## Accessories

	Description	Size	Part no.
<b>Fixed Installation</b>	<b>Pedestal</b> (EN-GJL-250) vertical discharge, without bend	G 1¼"	62325012
	<b>Bracket Kit</b> vertical discharge	G 1¼"	62325014
	<b>Guide Rail</b> (galvanized steel)	1¼" x 1 m	31380007
		1¼" x 2 m	31380008
		1¼" x 3 m	31380009
		1¼" x 4 m	31380010
		1¼" x 5 m	31380011
	<b>Chain Kit</b> (galvanized steel) including shackle	3 m	61265065
		4 m	61265093
		6 m	61265069
7 m		61265096	
<b>Chain Kit</b> (stainless steel) including shackle		3 m	61265081
	4 m	61265099	
	6 m	61265085	
	7 m	61265102	
	<b>General</b>	<b>Non-return valve</b> (EN-GJL-250) ball valve with internal thread	G 1¼"
G 1½"			61400526
<b>Gate valve</b> (brass) with internal thread		G 1¼"	14040005
		G 1½"	14040006