

SB HF



Product description

Grundfos SB HF is a high-flow submersible pump designed for water supply, drainage and pressure boosting in private homes and weekend cottages.

Typical installations for the SB HF pump are:

- traditional wells
- shallow wells
- rainwater collection in tanks
- boosting of public water
- emptying of garden ponds
- irrigation.

The pump is suitable for thin, clean, non-aggressive and non-explosive liquids, not containing solid particles or fibres.

Features and benefits

High flow rate

High flow rate of up to 5 m³/h (22 gpm).

Inlet from low water level

Unlike traditional submersible pumps, SB HF has an inlet strainer placed at the bottom of the pump, which enables the pump to draw water from a low level in the installation.

The stainless-steel strainer has 1 mm (0.04 inch) mesh to prevent large particles from entering the pump housing.

High reliability

Designed for a long life, the SB HF pump is built of composite and stainless-steel materials resistant to corrosion.

The double mechanical shaft seal ensures trouble-free operation, and an oil chamber prevents water from entering the motor.

Easy-to-dismantle inlet strainer allows cleaning if the strainer becomes clogged.

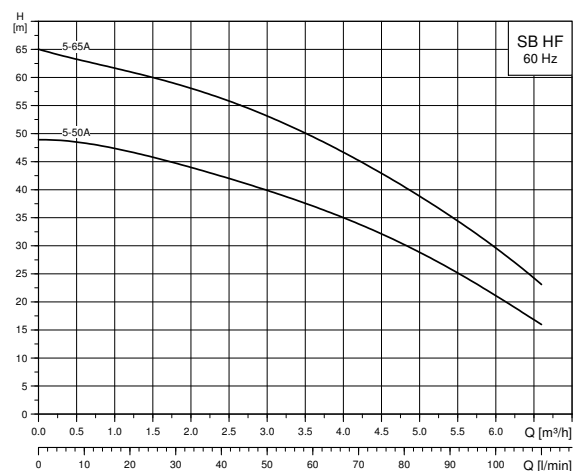
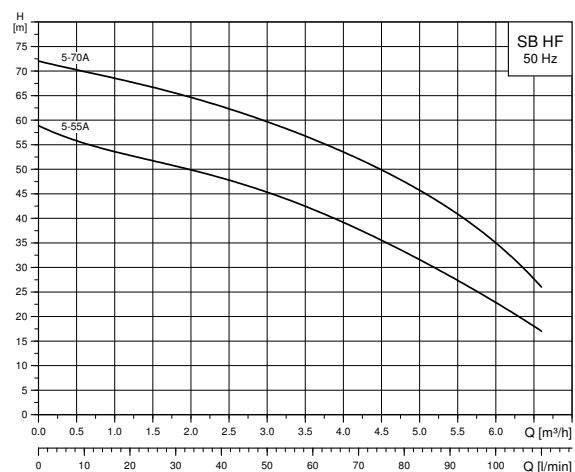
Integrated protection

All pumps are available with float switch for low water stop.

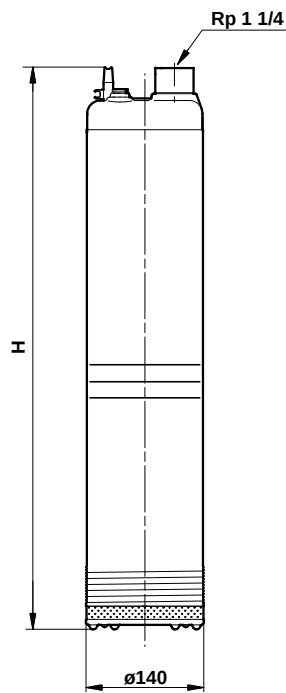
The motor is placed in the top, inside the pump sleeve, and thus cooled by the pumped liquid.

The pump incorporates thermal overload protection.

Performance range



Dimensions



TM02 6902 2205

Pump type	H [mm]	H [Inch]	D [mm]	D [Inch]
SB HF 5-55	608	23.94	140	5.51
SB HF 5-70	628	24.72	140	5.51
SB HF 5-50	588	23.15	140	5.51
SB HF 5-65	588	23.15	140	5.51

Construction

Component	Materials
Cover	Stainless steel (EN 1.4301/AISI 304)
Impeller	Stainless steel (EN 1.4301/AISI 304)
Chamber	Stainless steel (EN 1.4305/AISI 304)
Shaft with rotor	Stainless steel (EN 1.4301/AISI 303)
Wetted part of shaft	Stainless steel (EN 1.4305/AISI 304)
Inlet strainer	Stainless steel (EN 1.4301/AISI 304)
Base	Stainless steel (EN 1.4301/AISI 304)

Technical data

Operating conditions	
Max. flow rate	5 m ³ /h (22 gpm)
Liquid temperature	0-40 °C (32-104°F)
Max. system pressure	10 bar (145 psi)
Max. installation depth	15 m (49.2 ft) below water level
Cable length	20/30 m (65/98 ft)
Protection grade	
Enclosure class	IP68
Insulation class	F

Electrical data

SB HF	Voltage [V]	Frequency [Hz]	P1 [kW]	P2 [hp]	I _{1/1} [A]	n [min ⁻¹]
5-55	1 x 230	50	1.70	1.36	7.0	2800
5-70	1 x 230	50	2.00	1.60	9.1	2800
5-50	1 x 230	60	1.67	1.36	7.6	3360
5-65	1 x 230	60	2.07	1.63	9.4	3360

Marks and approvals

The SB HF pump has the following approvals and markings:

- CE
- ACS.

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