

GRUNDFOS COMFORT

Circulator pump

GRUNDFOS COMFORT circulator pumps are available in 2 pump housing versions and lengths incorporating isolating and non-return valves or prepared for subsequent fitting of such valves.

The water-conduction part of the pump is hermetically separated from the stator with a stainless steel spherical separator.

The motor can be separated from the pump housing, enabling easy maintenance and replacement.

Applications

- Domestic hot water systems in single and two-family houses
- Small heating systems
- Cooling and air-conditioning systems

Options

24-hour timer


The timer is built into the pump. The table below shows the functions of the timer.

Timer set to...	The pump...
OFF	is switched off.
TIMER	starts and stops automatically at set intervals of minimum 20 minutes.
ON	runs continuously.

Adjustable thermostat

The built-in thermostat of the pump types BT, BUT, BXT, BXUT can be set to stop the pump at a preset liquid temperature.

Setting range: 35-65°C.

The thermostat function can be interrupted by turning the thermostat to the position .

Factory setting: 35°C.

Various fittings

- Extension sets
- Non-return valve and shut-off valve
- Union sets
- Venting flange



Pumped liquids

- Thin, clean, non-aggressive and non-explosive liquids without solid particles or fibres.
- Cooling liquids, not containing mineral oil.
- Domestic hot water.
- Softened water.

The kinematic viscosity of water is 1 mm²/s (1 cSt) at 20°C. If the circulator pump is used for a liquid with a higher viscosity, the hydraulic performance of the pump will be reduced.

Example: 50% glycol at 20°C means a viscosity of approx. 10 mm²/s and a reduction of pump performance by approx. 15%.

When selecting a pump, the viscosity of the pumped liquid must be taken into consideration.

Ambient and liquid temperatures

Liquid temperature: +2°C to +95°C

It is recommended to keep the operating temperature as low as possible (e.g. 65°C) to avoid lime precipitation.

The ambient temperature should always be lower than the liquid temperature, as otherwise condensation may form in the stator housing.

Maximum system pressure

PN 10: 1.0 MPa (10 bar).

Inlet pressure

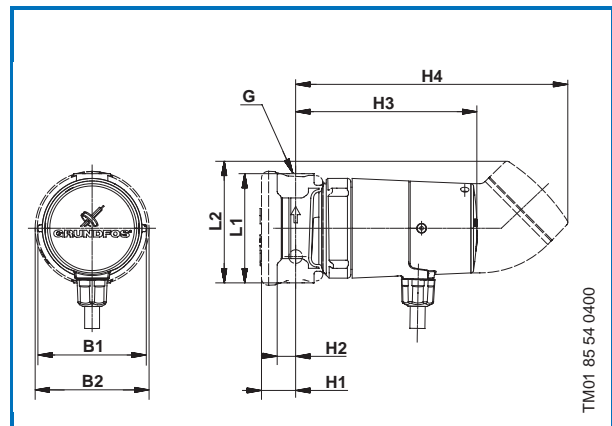
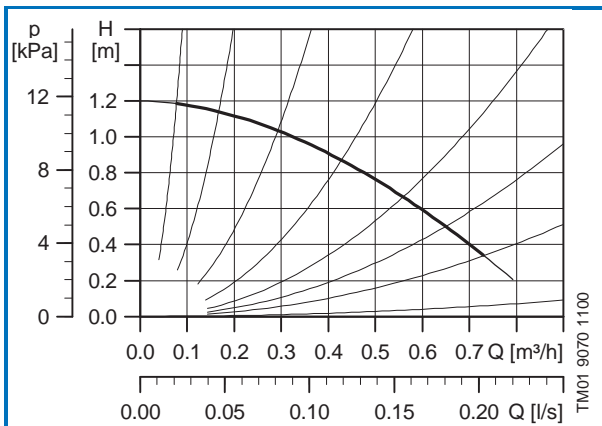
To avoid cavitation noise and damage to the pump bearing, at high temperatures the following minimum pressures are required at the pump suction port.

Liquid temperature	85°C	95°C
Inlet pressure	0.5 m head	2.8 m head
	0.049 bar	0.27 bar

UP 15-14

80

1 x 230 V, 50 Hz



P₁ [W]	I_n [A]
25	0.11

The motor incorporates thermal overload protection.

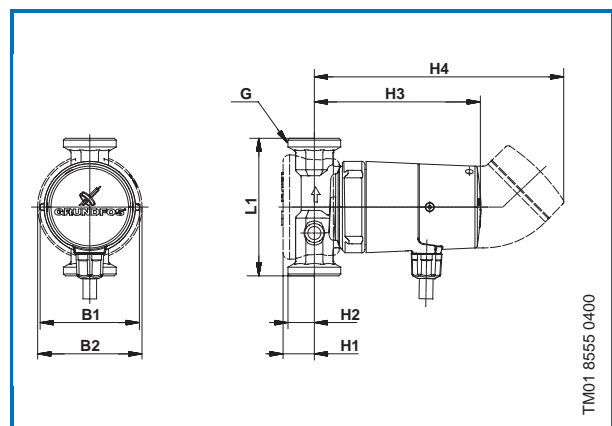
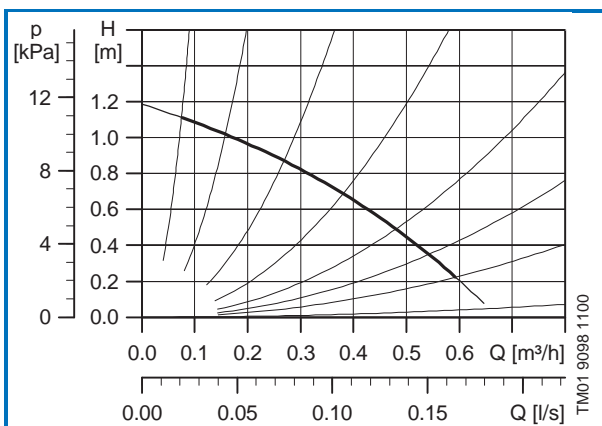
Connections: Various fittings are available
 System pressure: Max. 10 bar
 Liquid temperature: +2°C to +95°C (TF 95)

Pump type	Dimensions [mm]									Weights [kg]		Ship. vol. [m³]
	L1	L2	H1	H2	H3	H4	B1	B2	G	Net	Gross	
UP 15-14 B	80		25	13.5	133		79.5	84	Rp ½	1.00	1.12	0.0026
UP 15-14 BU	80	90	25	13.5		205	79.5	84	Rp ½	1.15	1.31	0.0034
UP 15-14 BT	80		25	13.5	155		79.5	84	Rp ½	1.05	1.24	0.0034
UP 15-14 BUT	80	90	25	13.5		205	79.5	84	Rp ½	1.16	1.32	0.0034

UP 20-14

110

1 x 230 V, 50 Hz



P₁ [W]	I_n [A]
25	0.11

The motor incorporates thermal overload protection.

Connections: Various fittings are available
 System pressure: Max. 10 bar
 Liquid temperature: +2°C to +95°C (TF 95)

Pump type	Dimensions [mm]								Weights [kg]		Ship. vol. [m³]
	L1	H1	H2	H3	H4	B1	B2	G	Net	Gross	
UP 20-14 BX	110	25	21	133		79.5	84	G 1¼	1.20	1.35	0.0026
UP 20-14 BXU	110	25	21		205	79.5	84	G 1¼	1.35	1.51	0.0034
UP 20-14 BXT	110	25	21	155		79.5	84	G 1¼	1.25	1.44	0.0034
UP 20-14 BXUT	110	25	21		205	79.5	84	G 1¼	1.36	1.52	0.0034

17.05.2000

Subject to alterations.

