

Standard circulation pumps for domestic water

BUPA series, B product group



From **1.1.2013** the BUPA series must only be used in the European Union as circulation pump in drinking water systems in compliance with DIN 98/83/EG.

Technical data

Rate of flow:	up to 5.0 m ³ / h
Pressure head:	up to 6 m
Media temperature:	+2 °C to +110 °C
Installation length:	130, 150 and 180 mm
Threaded connection:	1", 1¼" and 1½"
Protection class:	IP 44
Insulation class:	H
Nominal pressure:	PN 10
Control:	3-step switch with manual speed selection

Product features

- manual start-up feature
- space-saving axially integrated terminal box

Use

The BUPA series circulation pumps are wet rotor circulators designed for use in drinking water systems with constant or weakly variable flow rates. They feature a corrosion-resistant pump housing in bronze and are thus suitable for use in drinking water circulation systems.

Materials

Component	Material	Material no.
Pump housing	Bronze (RG 5)	2.1096 (low-lead)
Impeller	PSU - GF 20	
Shaft	Ceramic	
Bearing	Ceramic	
Bearing plate	Stainless steel	1.4301
Can	Stainless steel	1.4301

Flow media

- drinking water and heated drinking water to a temperature of 65 °C and a degree of hardness of 14 °dH (temporary hardness)
- pure, thin, non-aggressive and non-explosive, mineral oil-free media without solid or long-fibre components
- media with a max. viscosity of 10 mm² / s

Temperature range

Ambient temperature:	0 °C to +40 °C
Temperature class:	TF 110
Media temperature:	+2 °C to +110 °C

Ambient temperature

To avoid condensation forming in the terminal box and stator, the media temperature must always be the same or higher than the ambient temperature.

Ambient temp.	Media temp. min.	Media temp. max.
0	2	110
10	10	110
20	20	110
30	30	110
35	35	110
40	40	110

Motor protection

External motor protection is not required.

Speed switching

The respective speed is set via a rotary switch integrated in the axial terminal box.

Minimum inflow pressure

Please determine the minimum inflow pressure at corresponding temperature from the following table.

Media temperature	< 85 °C	90 °C	110 °C
Minimum inflow pressure	0.05 bar	0.3 bar	1.10 bar

Sound pressure level

The sound pressure level is < 45 dB (A)

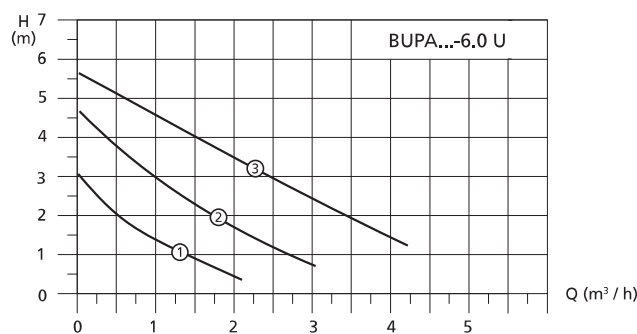
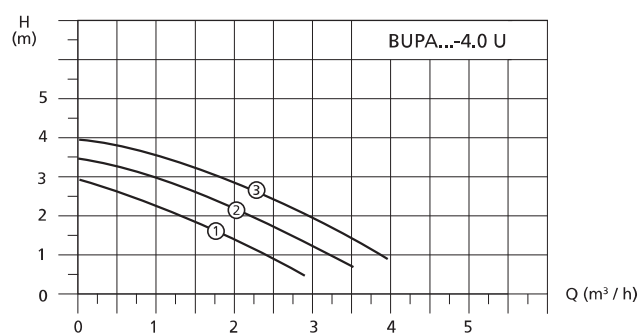
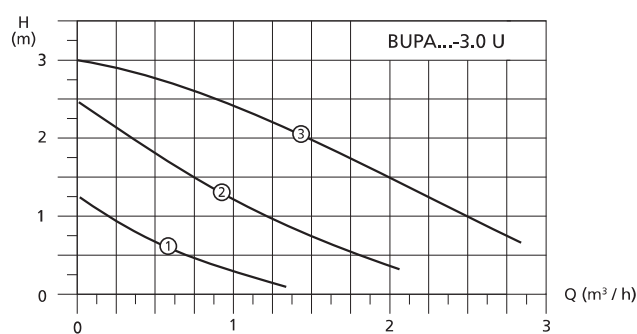
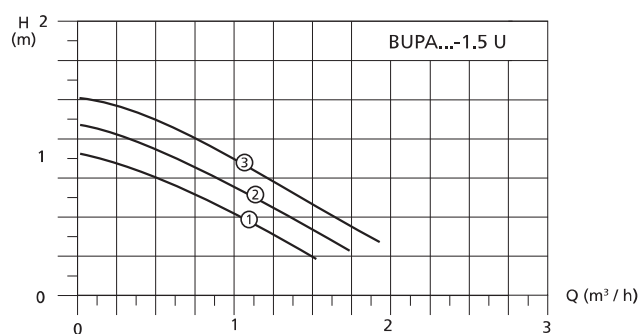
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Type	Connection pipe	Threaded connection	Installation length (mm)	Voltage (V)	P1 (W)	In (A)	Weight (kg)	Product no.
BUPA 15-1.5 U 130	½"	1"	130	230	28 ... 58	0.16 ... 0.28	2.7	0331-30002
BUPA 15-3.0 U 130	½"	1"	130	230	33 ... 63	0.17 ... 0.30	2.7	0331-30003
BUPA 15-4.0 U 130	½"	1"	130	230	40 ... 70	0.19 ... 0.33	2.7	0331-30004
BUPA 15-6.0 U 130	½"	1"	130	230	56 ... 100	0.27 ... 0.44	2.7	0331-30006
BUPA 20-1.5 U 150	¾"	1¼"	150	230	28 ... 58	0.16 ... 0.28	2.7	0332-30102
BUPA 20-3.0 U 150	¾"	1¼"	150	230	33 ... 63	0.17 ... 0.30	2.7	0332-30103
BUPA 20-4.0 U 150	¾"	1¼"	150	230	40 ... 70	0.19 ... 0.33	2.7	0332-30104
BUPA 20-6.0 U 150	¾"	1¼"	150	230	56 ... 100	0.27 ... 0.44	2.7	0332-30106
BUPA 25-1.5 U 130	1"	1½"	130	230	28 ... 58	0.16 ... 0.28	2.7	0333-30002
BUPA 25-3.0 U 130	1"	1½"	130	230	33 ... 63	0.17 ... 0.30	2.7	0333-30003
BUPA 25-4.0 U 130	1"	1½"	130	230	40 ... 70	0.19 ... 0.33	2.7	0333-30004
BUPA 25-6.0 U 130	1"	1½"	130	230	56 ... 100	0.27 ... 0.44	2.7	0333-30006
BUPA 25-1.5 U 180	1"	1½"	180	230	28 ... 58	0.16 ... 0.28	2.8	0333-30202
BUPA 25-3.0 U 180	1"	1½"	180	230	33 ... 63	0.17 ... 0.30	2.8	0333-30203
BUPA 25-4.0 U 180	1"	1½"	180	230	40 ... 70	0.19 ... 0.33	2.8	0333-30204
BUPA 25-6.0 U 180	1"	1½"	180	230	56 ... 100	0.27 ... 0.44	2.8	0333-30206



Dimensions

Type	L1	L2	L3	L4
BUPA	130 / 150 / 180	98	108	145

Dimension illustration

