

Solar pumps, speed step switch (3-step), pressure head 7-12 m

HGPA-Solar series, HG product group



Series HGPA-Solar must only be used in the European Union in primary circuits of solar thermal systems.

Technical data

Rate of flow:	up to 12 m ³ / h
Pressure head:	up to 12 m
Media temperature:	+2 °C to +110 °C
Installation length:	180 mm
Threaded connection:	1½" and 2"
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
- smooth running
- convenient operation
- space-saving axially integrated terminal box
- compact design

Use

The HGPA-Solar circulation pump from Halm is a wet rotor circulator and specially designed for primary circuits of solar systems.

Materials

Component	Material	Material no.
Pump housing	Grey-cast iron	0.6020
Impeller	Polypropylene (PP - GF 50)	
Shaft	Ceramic	
Bearing	Ceramic	
Bearing plate	Brass	2.0401
Can	Stainless steel	1.4301

Flow media

- heating water as per VDI 2035
- 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
- operating data must be checked above 20 % glycol

Temperature range

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

Ambient temperature

To avoid the build-up of condensation, the ambient temperature must always be lower than the media 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 3-step rotary switch integrated in the axial terminal box.

Minimum inflow pressure

Please determine the minimum inflow pressure for 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)

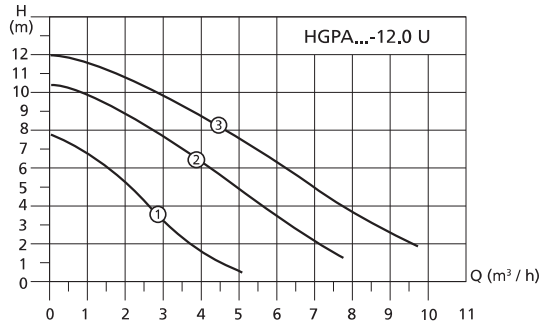
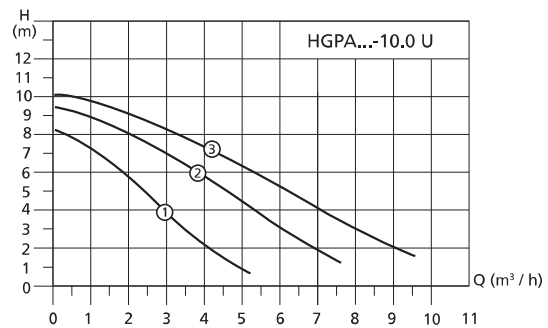
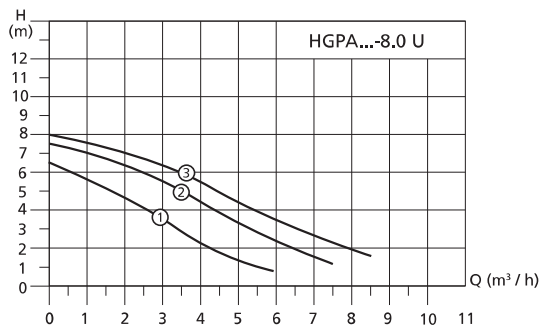
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Type	Connection pipe	Threaded connection	Installation length (mm)	Voltage (V)	P1 (W)	In (A)	Weight (kg)	Product no.
HGPA-Solar 25-8.0 U 180	1"	1½"	180	230	260 ... 286	1.23 ... 1.25	6.5	0313-41208
HGPA-Solar 25-10.0 U 180	1"	1½"	180	230	283 ... 357	1.35 ... 1.56	6.5	0313-41210
HGPA-Solar 25-12.0 U 180	1"	1½"	180	230	285 ... 400	1.36 ... 1.73	6.5	0313-41212
HGPA-Solar 30-8.0 U 180	1¼"	2"	180	230	260 ... 286	1.23 ... 1.25	6.6	0314-41208
HGPA-Solar 30-10.0 U 180	1¼"	2"	180	230	283 ... 357	1.35 ... 1.56	6.6	0314-41210
HGPA-Solar 30-12.0 U 180	1¼"	2"	180	230	285 ... 400	1.36 ... 1.73	6.6	0314-41212



Dimensions

Type	L1	L2	L3	L4
HGPA-Solar	180	135.5	166	206

Dimension illustration

