

Standard solar pumps, speed step switch (3-step)

HUPA-Solar series, H product group



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

Technical data

Rate of flow: up to 3.8 m³ / h
 Pressure head: up to 7.0 m
 Media temperature: +2 °C to +110 °C (short-term up to 130 °C)
 Installation length: 130 and 180 mm
 Threaded connection: 1", 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
- energy-optimised
- space-saving axially integrated terminal box
- cataphoretic coated pump housing

Use

The HUPA solar pumps are wet rotor circulators designed for primary circuits of solar systems.

Materials

Component	Material	Material no.
Pump housing	Grey-cast iron	0,6020
Impeller	Polyamide (PA - GF 35)	
Shaft	Ceramic	
Bearing	Ceramic	
Bearing plate	Stainless steel	1.4301
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 (short-term up to 130 °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 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)

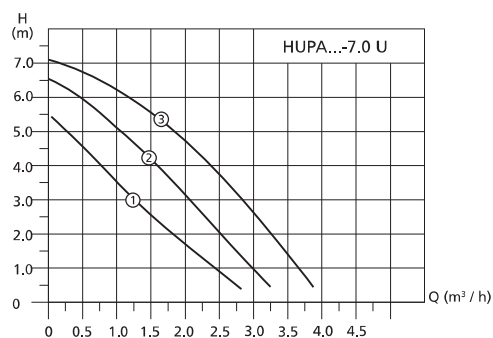
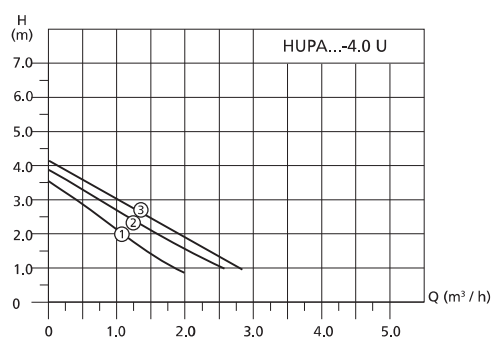
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Type	Connection pipe	Threaded connection	Installation length (mm)	Voltage (V)	P1 (W)	In (A)	Weight (kg)	Product no.
HUPA-Solar 15-4.0 U 130	½"	1"	130	230	33 ... 44	0.14 ... 0.19	2.6	0311-23004
HUPA-Solar 15-7.0 U 130	½"	1"	130	230	54 ... 93	0.24 ... 0.41	2.6	0311-23007
HUPA-Solar 20-4.0 U 130	¾"	1 ¼"	130	230	33 ... 44	0.14 ... 0.19	2.6	0312-23004
HUPA-Solar 20-7.0 U 130	¾"	1 ¼"	130	230	54 ... 93	0.24 ... 0.41	2.6	0312-23007
HUPA-Solar 25-4.0 U 130	1"	1 ½"	130	230	33 ... 44	0.14 ... 0.19	2.6	0313-23004
HUPA-Solar 25-7.0 U 130	1"	1 ½"	130	230	54 ... 93	0.24 ... 0.41	2.6	0313-23007
HUPA-Solar 25-4.0 U 180	1"	1 ½"	180	230	33 ... 44	0.14 ... 0.19	2.7	0313-23204
HUPA-Solar 25-7.0 U 180	1"	1 ½"	180	230	54 ... 93	0.24 ... 0.41	2.8	0313-23207
HUPA-Solar 30-4.0 U 180	1 ¼"	2"	180	230	33 ... 44	0.14 ... 0.19	2.8	0314-23204
HUPA-Solar 30-7.0 U 180	1 ¼"	2"	180	230	54 ... 93	0.24 ... 0.41	2.8	0314-23207



Dimensions

Type	L1	L2	L3	L4
HUPA-Solar	130 / 180	98	108	145

Dimension illustration

