



Heating pump assembly

Part no. 77342

Heating pump assembly

benefits

- pre-assembled, tightness-tested and heat-insulated assembly
- robust mixer with adjustable flow coefficient Kvs from 3.2 to 5.2 m³/h
- Adaptation of flow coefficient Kvs also possible during operation (under system pressure)
- eligible for heating optimization program (BAFA)



Application

Heating pump assembly for use in mixed heating circuits. With the 3-way mixer and the actuator, the flow temperature can be adjusted to a desired temperature by adding water from the return. The new mixer with adjustable flow coefficient Kvs offers the HVAC professional maximum flexibility in adapting the system to individual control requirements. This way, a great variety of mixer/pump assemblies can be covered with a single version.

Description

Complete, pre-assembled and tightness-tested heating pump assembly made of high-grade polymer materials with all required functional components, form-fit heat insulation.

The flow line consists of:

Shut-off valve with thermometer holder (red handle)

Thermometer flow (5 to 80 °C)

3-way mixing valve ARV KVS Vario with adjustable flow coefficient Kvs and ProClick adapter system

Maintenance-free, silent actuator ARM 343 (6 Nm, 120 s, AC 230 V) with 0/90° angle of rotation, indication for direction of rotation, selector key "Manual/Automatic Mode" and ProClick adapter system

Sensor clip for connection of a flow line sensor with Ø 6 mm

Suitable for circulation pumps DN 20 mit G1 x 130 mm.

The return line consists of:

Shut-off valve with thermometer holder (black handle)

Thermometer return (5 to 80 °C)

Gravity brake

Plastic piece for length compensation pump / mixer

Technical Specifications

Axis distance

90 mm

system connections

Boiler: G1 male

Heating circuit: G1 female

Operating temperature range

Medium: max. 60 °C at 6 bar,

max. 70 °C at 5 bar,

max. 90 °C at 3 bar

Nominal size

DN 20

Flow coefficient Kvs

adjustable: 3.2 (3.5) – 3.75 (4.5) – 4.6 (7) – 5.0 (8.5) – 5.2 (9) m³/h

() = value adjusted at mixing valve

Leak rate

Mixing valve ARV KVS Vario: < 0.1 % of flow coefficient Kvs (up to

Δp 0.5 bar < 0.2 % of flow coefficient Kvs)

Heat insulation

Polypropylene EPP

Dimensions

W x H x D: 189 x 335 x 240 mm

Circulation pump

Grundfos UPM3 Auto 15-70/130

Length

130 mm

Degree of protection

IP 44 (EN 60529)

Supply voltage

AC 230 V, 50 Hz

Energy efficiency class

A

Power input

Grundfos UPM3 Auto 15-70/130

5 – 52 kW

pumping head

Grundfos UPM3 Auto 15-70/130

max. 7 m

pumping volume

Grundfos UPM3 Auto 15-70/130

max. 3.75 m³/h

Proportional pressure control

1

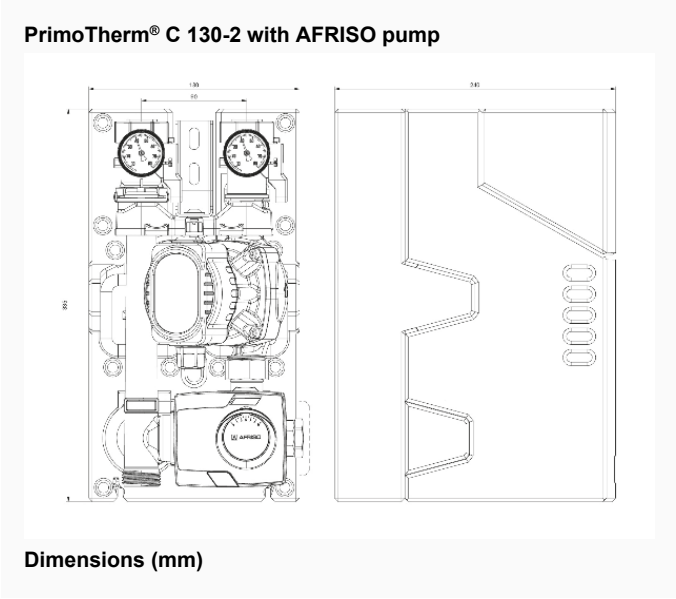
Constant pressure control

1

Fixed speed of rotation

1

Technical Drawings



Versions

	opening temperature is reached	Pump	Part no.
Heating pump assembly		Grundfos UPM3 Auto 15-70/130	77342

- ☒ in-stock items
- ☐ Non-stock items