

Heating pump assembly PrimoTherm® 180-2 DN 25 KVS Vario



- Benefits**
- Pre-assembled, tightness-tested and heat-insulated assembly
 - Robust mixer with adjustable flow coefficient Kvs from 2.5 to 12 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. The flow coefficient Kvs can be modified at any later point in time, even if the system is under pressure. This way, a great variety of mixer/pump assemblies can be covered with a single version. PrimoTherm® 180-2 is also available as version RTA. It can be used to increase the return temperature with solid fuel burners which have a controller for increasing the return temperature.

Versions

| | Pump | Part no. |
|---|--------------------------------|----------|
| Heating pump assembly PrimoTherm® 180-2 DN 25 3WM-SM Vario | Without circulation pump | 77300 |
| Heating pump assembly PrimoTherm® 180-2 DN 25 GP 3WM-SM Vario | Grundfos UPM3 HYBRID 25-70/180 | 77301 |
| Heating pump assembly PrimoTherm® 180-2 DN 25 WP 3WM-SM Vario | Wilo Para RS 25–180/6 | 77302 |
| Heating pump assembly PrimoTherm® 180-2 DN 25 3WM-SM RTA | – | 77304 |

Blue part no. = in-stock items

| | Part no. |
|--|----------|
| Connection kit G1½i x G1i | 77612 |
| Connection kit G1½a x G1a | 77613 |
| 3-way mixer ARV 325 KVS Vario with T piece | 77589 |

Blue part no. = in-stock items



Description

Complete, pre-assembled and tightness-tested heating pump assembly with all required functional components, form-fit insulation.

The flow line consists of:

Combination valve with thermometer in the hand wheel (red mark, range 0/120 °C)

Ball valve below the pump

3-way mixing valve ARV 325 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

System connection G1½ male (boiler), G1 female (heating circuit). Suitable for pumps DN 25 with G1½ x 180 mm.

The return line consists of:

Combination valve with gravity brake, thermometer in the handle (blue mark, range 0/120 °C)

Pipe for length compensation with screw connection

T piece for mixer connection

System connection G1½ male (boiler), G1 female (heating circuit)

Difference version RTA

Interchanged colour codes of thermometers

3-way mixer with flow coefficient Kvs 12 m³/h (not adjustable)

System connection (storage) with additional connection flanges G1 female

Additional mounting bracket for upside down or lateral mounting

Scope of delivery does not include pump

Technical specifications

Axis distance

125 mm

System connections

Boiler: G1½ male

Heating circuit: G1 female

Operating temperature range

Medium: Max. 95 °C

Medium: short-term 120 °C

System pressure

Max. 10 bar

Nominal size

DN 25

Flow coefficient Kvs

Adjustable: 2.5 – 4 – 5 – 6 – 8 – 12 m³/h

Leak rate

Mixing valve ARV 325 KVS Vario: < 0.05 % flow coefficient Kvs

Insulation

Polypropylene EPP

Dimensions

W x H x D: 250 x 475 x 152 mm

Circulation pump

Without circulation pump

Grundfos UPM3 HYBRID 25-70/180

Wilo Para RS 25–180/6

Length

180 mm

Degree of protection

IP 44 (EN 60529)

Supply voltage

AC 230 V, 50 Hz

Energy efficiency class

A

Power input

Grundfos UPM3 HY- 2 – 52 W

BRID 25-70/180:

Wilo Para RS 25– 3 – 43 W
180/6:

Pumping head

Grundfos UPM3 HY- Max. 7 m

BRID 25-70/180:

Wilo Para RS 25– Max. 6.7 m
180/6:

Pumping volume

Grundfos UPM3 HY- Max. 3.6 m³/h

BRID 25-70/180:

Wilo Para RS 25– Max. 3.2 m³/h
180/6:

Operating modes/settings

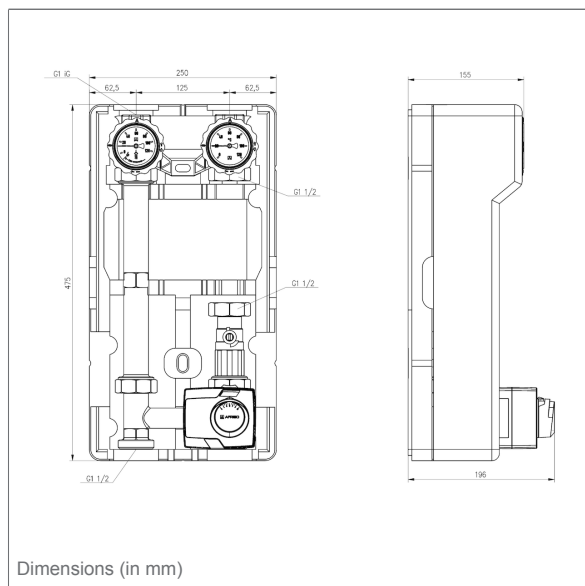
Grundfos UPM3 HY- PWM-A (4), PWM-C (4), constant volume

BRID 25-70/180: flow PP (3), constant pressure CP (3), constant speed of rotation (3)

Wilo Para RS 25– Constant volume flow PP (3), constant pressure CP (3), constant speed of rotation (3)
180/6:

Technical drawings

PrimoTherm® 180-2 without pump



PrimoTherm® 180-2 with Wilo pump

