



• **for the extension of direct heating circuits, for system separation with control (mixing valve)**

Field of application

For panel heating systems (radiant floor and wall heating) which must be disconnected from the boiler circuit or the primary circuit, if the boiler circuit connected parallelly to the panel heating is connected with a further heating circuit (for example radiators or ventilation circuit). The flow temperature in the primary circuit (radiator circuit) is considerably higher than required for the radiant floor or wall heating.

Completely equipped with pressure relief valve, pressure gauge, fill and drain valve, connection set for expansion tank (secondary) and manual air vent (primary)

Connections 1" internal thread, 1½" external thread, flat sealing including 1½" union nut for assembly on a PAW distribution manifold. With PAW mounting equipment the heating circuit can be installed on wall brackets.

Assembly on a PAW distribution manifold on the right or on the left side.

In this way the safety group is accessible and the expansion tank for the secondary circuit can be easily installed (minimum distance to the wall 150 mm).

Check valve in the return pipe can be opened, 200 mm water column, spring-loaded, thus suited for horizontal and overhead installation

Completely equipped with pressure relief valve, pressure gauge, fill and drain valve, connection set for expansion tank (secondary) and manual air vent (primary)

3-way mixing valve, completely made of brass, the linear characteristic prevents temperature variation, the pump can be isolated, so that it can be replaced without draining. For mounting actuators of other manufacturers, you need the adapter set item no. 705580.

PAW actuator SR5 with 1.5 m cable and mounting set for snap-in assembly on the mixing valve, suited for flow on the right or left side, change-over switch for manual / automatic operation, supply 230 V / 50 Hz, torque 5 Nm

Heat exchanger

soldered plate heat exchanger equipped with 16, 30 or 50 plates, designed as compact, high-efficiency plate heat exchanger

Flow on the right = standard

flow and return can be changed on site according to the manual

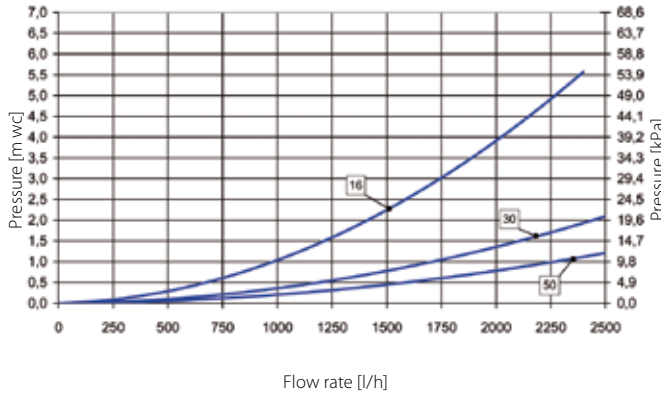
Attention: Always change both pumps. When one pump is connected to the flow line on the left, the other pump and its return line must be turned upside down (consider the flow direction of the check valve). This is absolutely necessary as the counter flow principle of the heat exchanger must be maintained (otherwise the output of the heat exchanger reduces significantly).

Corrosion protection according to the guideline VDI 2035 and the standard Ö-Norm H5195-1 must be observed.

TECHNICAL DATA TE3 - DN 25

Materials	
Valves and fittings	Brass
Gaskets	EPDM
Insulation	EPP
Technical data	
Nominal pressure	8 bar
Max. operating temperature	130 °C
Kvs value	
16 plates prim./sec.	3.3/ 2.7
30 plates prim./sec.	5.6/3.5
50 plates prim./sec.	7.6/4.7
Dimensions	
Connection generator	1" ext./ 1½" int. thread
Connection consumer	1" internal thread
Centre distance	125 mm
Installation length	550 mm
Width	250 mm
Height	550 mm
Depth	280/330 mm
Recommended range of application*	
TE3-16	13 kW*/17.5 kW*2
TE3-30	16.5 kW*/22.5 kW*2
TE3-50	20 kW*/25 kW*2
*1Range of application 1	
Temperature difference prim.	60-47 °C
Temperature difference sec.	45-35 °C
Min. residual head	2.5 m
*2Range of application 2	
Temperature difference prim.	65-50 °C
Temperature difference sec.	45-35 °C
Min. residual head	15 m

Differential pressure diagram TE3 prim.



Differential pressure diagram TE3 sec.

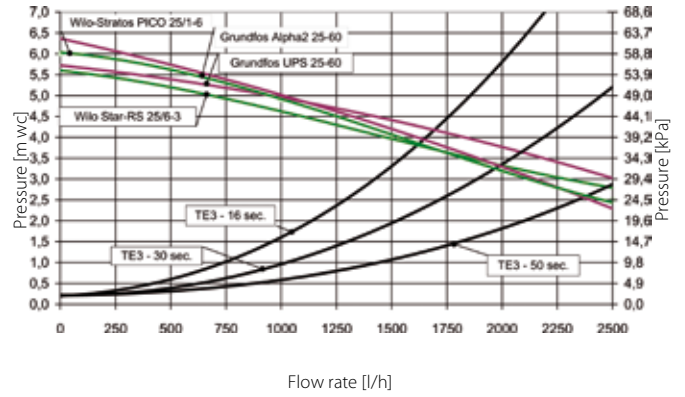




Illustration	Pump secondary	Energy	Item no.
 <p>SR5</p> 	TE3-16 mit Stellmotor, 16 Plates, Recommended range of application: 13,0 kW¹ / 17,5 kW² Wilo-Stratos PICO 25/1-6, high-efficiency pump Wilo Star-RS 25/6-3, 3-speed Grundfos ALPHA2 25-60 180, high-efficiency pump Grundfos UPS 25-60, 3-speed without pump - for pumps with 1½" external thread x 180 mm	A M B M A M C M	36922MWH 36922MWI 36922MGH 36922MGR 36922M
	TE3-30 mit Stellmotor, 30 Plates, Recommended range of application: 16,5 kW¹ / 22,5 kW² Wilo-Stratos PICO 25/1-6, high-efficiency pump Wilo Star-RS 25/6-3, 3-speed Grundfos ALPHA2 25-60 180, high-efficiency pump Grundfos UPS 25-60, 3-speed without pump - for pumps with 1½" external thread x 180 mm	A M B M A M C M	36942MWH 36942MWI 36942MGH 36942MGR 36942M
	TE3-50 mit Stellmotor, 50 Plates, Recommended range of application: 20,0 kW¹ / 25,0 kW² Wilo-Stratos PICO 25/1-6, high-efficiency pump Wilo Star-RS 25/6-3, 3-speed Grundfos ALPHA2 25-60 180, high-efficiency pump Grundfos UPS 25-60, 3-speed without pump - for pumps with 1½" external thread x 180 mm	A M B M A M C M	36962MWH 36962MWI 36962MGH 36962MGR 36962M
	TE3-16, 16 Plates, Recommended range of application: 13,0 kW¹ / 17,5 kW² Wilo-Stratos PICO 25/1-6, high-efficiency pump Wilo Star-RS 25/6-3, 3-speed Grundfos ALPHA2 25-60 180, high-efficiency pump Grundfos UPS 25-60, 3-speed without pump - for pumps with 1½" external thread x 180 mm	A B A C	36922WH 36922WI 36922GH 36922GR 36922
	TE3-30, 30 Plates, Recommended range of application: 16,5 kW¹ / 22,5 kW² Wilo-Stratos PICO 25/1-6, high-efficiency pump Wilo Star-RS 25/6-3, 3-speed Grundfos ALPHA2 25-60 180, high-efficiency pump Grundfos UPS 25-60, 3-speed without pump - for pumps with 1½" external thread x 180 mm	A B A C	36942WH 36942WI 36942GH 36942GR 36942
	TE3-50, 50 Plates, Recommended range of application: 20,0 kW¹ / 25,0 kW² Wilo-Stratos PICO 25/1-6, high-efficiency pump Wilo Star-RS 25/6-3, 3-speed Grundfos ALPHA2 25-60 180, high-efficiency pump Grundfos UPS 25-60, 3-speed without pump - for pumps with 1½" external thread x 180 mm	A B A C	36962WH 36962WI 36962GH 36962GR 36962