

RGMAT E W Pump Station

v1.3 04/2020



Main features

Application	keeping water temperature at boiler (fire) inlet by means of a thermostatic valve
Description	consists of WILO Yonos PARA RS 25/7.5 RKC pump, threaded fittings with shut-off ball valve, TSV3B valve (with automatic by-pass balancing), thermometer, insulation
Function	pump station for solid-fuel boilers and fires, prevents low-temperature corrosion and boiler clogging
Working fluid	water, water-glycol mix (max. 1:1) or water-glycerine mix (max. 2:1)
Installation	on return pipe, min. pipe centre distance from wall = 100 mm

Code	max. boiler output
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15867 for 45 °C valve opening temperature	max. 45 kW
15904 for 50 °C valve opening temperature	max. 42 kW
15868 for 55 °C valve opening temperature	max. 36 kW
15905 for 60 °C valve opening temperature	max. 32 kW
15869 for 65 °C valve opening temperature	max. 26 kW
15906 for 70 °C valve opening temperature	max. 22 kW

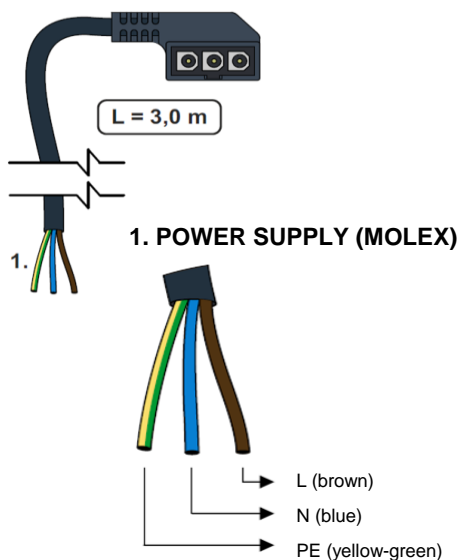
Pump Station Technical Data

Fluid operating temp.	0 - 95 °C
Max. working pressure	6 bar
Ambient temperature	58 °C
Power supply	230 V, 50 Hz
Insulation material	EPP RG 60 g/l
Overall dimensions	325 x 140 x 220 mm
Total weight	3,5 kg
Connection	3 x G 1" F

Accessories

By-pass with non-return valve	code 16126
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Connection of pump WILO



Wilo Yonos PARA RS 25/7,5 Pump Data

Electric data

Power supply	230 V, 50 Hz
Power input (min./max.)	4/75 W
Current (min./max)	0,04/0,66 A
IP rating	IPX4D
Max. speed	4770 rpm
Energy efficiency index	≤ 0.21 per EN 16 297/3
Motor protection	integrated

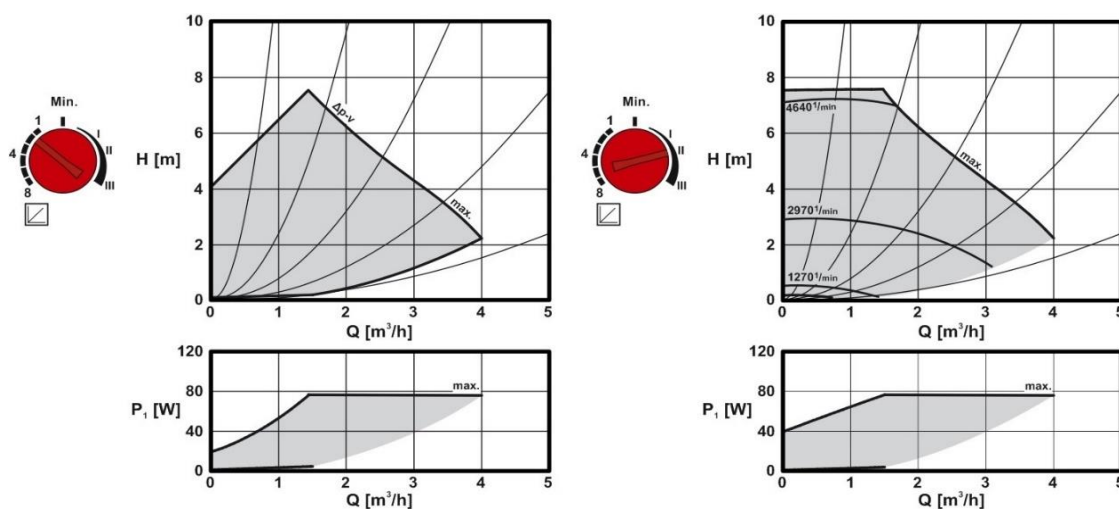
Min. pressures at pump suction port to avoid cavitation

Min. pressures at pump	0.5 mH ₂ O at 50 °C
suction port	4.4 mH ₂ O at 95 °C

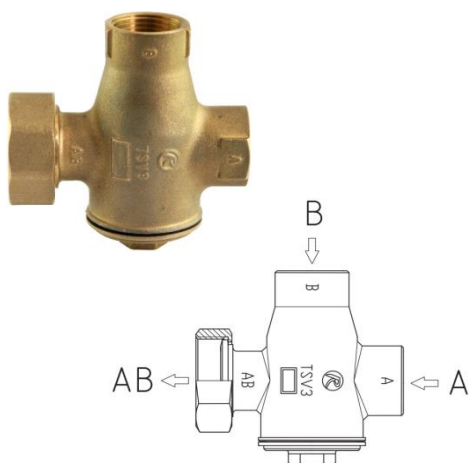
Operation data

Fluid operating temp.	0 - 100 °C at 58 °C ambient temp.
Max. working pressure	6 bar
Max. ambient temperature	7,6 m

WILO Yonos Para RS Pump performance curves



TSV3B valve



TSV3B Thermostatic valve data

Technical data

Max. operating temp.	95 °C
Max. working pressure	6 bar
Valve opening temp.	as the thermostatic element
Range of control	$t_{v,o} + 5\text{ °C}$
Valve Kvs (A→AB direction)	6,2 m³/hod
Valve Kvs (B→AB direction)	4,4 m³/hod
Connection	2x G 1" F, 1x G 6/4" Fu union nut
Nominal inner diameter	DN 25

Materials

Housing, cone and plug	brass
Spring	stainless steel
Element and plug seal	EPDM
Cone seal	NBR

Valve pressure drop diagram

