

## DATA SHEET

### CSE MIX W-PWM 5/4 F Pump Station

Main features	
Application	control of a solid fuel boiler return line or control to a fixed temperature of output into a mixed circuit; pump speed controlled by PWM signal; with no PWM signal the pump runs at max. speed
Description	consists of Wilo Yonos PARA RS 25/7.5 PWM1 pump, LK 840 3-way mixing valve with AVC actuator, insulation
Working fluid	water, water-glycol mixture (max. 1:1), water-glycerine mixture (max. 2:1)
Installation	on solid fuel boiler return pipe / flow pipe to heating circuit, min. pipe centre distance from wall is 100 mm
<b>Code</b>	<b>18130</b>



CSE MIX W-PWM 5/4 F Pump Station data	
Fluid operating temp.	5-100 °C
Max. working pressure	10 bar
Ambient temperature	5-40 °C
Max. relative humidity	95% non condensing
Power supply	230 V, 50 Hz
Insulation material	EPP RG 60 g/l
Overall dimensions	305 x 195 x 135 mm
Total weight	3,6 kg
Connection	3 x G 5/4" F

#### WILO Yonos PARA RS 25/7.5 PWM1 130 mm Pump Data

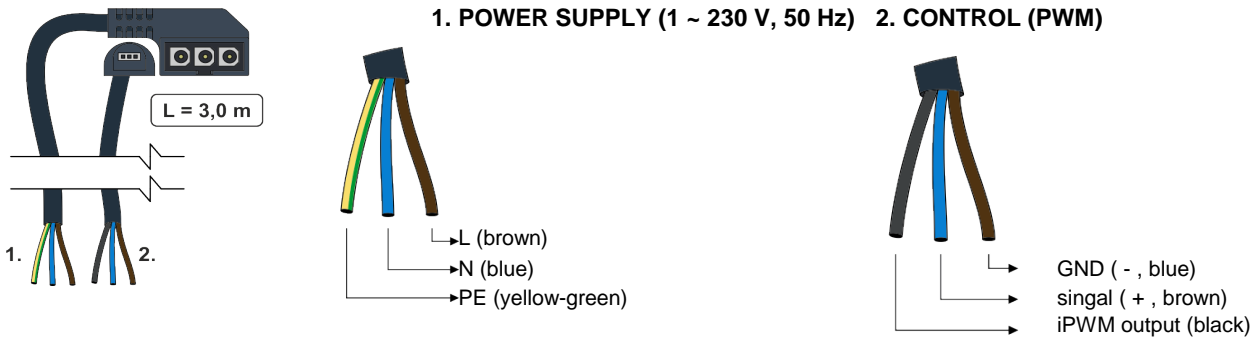
Electric Data	
Power supply	1~230 V, 50/60 Hz
Power input (min./max.)	2/75 W
Current (min./max.)	0,03/0,66 A
IP rating	IPX4D
Speed control	frequency converter
Max. speed	4770 rpm
Energy efficiency index	≤ 0.21 per EN 16 297/3
Motor protection	integrated

Min. pressures at suction port to avoid cavitation	
Min. pressures at suction port to avoid cavitation	0.5 mH <sub>2</sub> O at 50 °C 4.5 mH <sub>2</sub> O at 95 °C

Operation data	
Fluid operating temp.	0 - 100 °C at 58 °C ambient temperature
Max. working pressure	10 bar
Max. delivery head	8,4 m

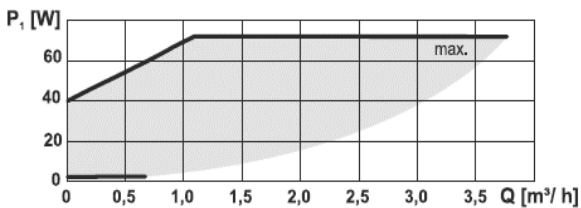
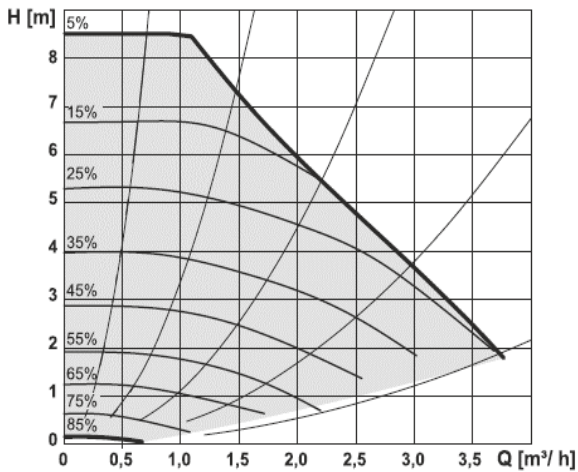
## CSE MIX W-PWM 5/4 F Pump Station

### Connection of WILO PARA PWM Pump - MOLEX and PWM connector



Power supply cables and PWM cables are included in supply.

### WILO PARA 25/8 PWM Pump performance curves



#### LK 840 Mixing Valve

##### Technical data

Max. working temperature	0 - 100 °C at 58 °C ambient temperature
Max. working pressure	10 bar
Ambient working temp.	5 - 60°C
Valve Kvs	16 m <sup>3</sup> /hod
Max. pressure difference	5 m H <sub>2</sub> O
Leakage rate	< 1 % Kvs at 5 m H <sub>2</sub> O pressure diff.
Connection	3 x G 5/4" F

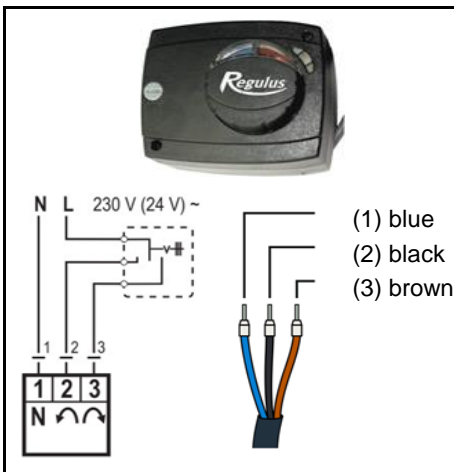
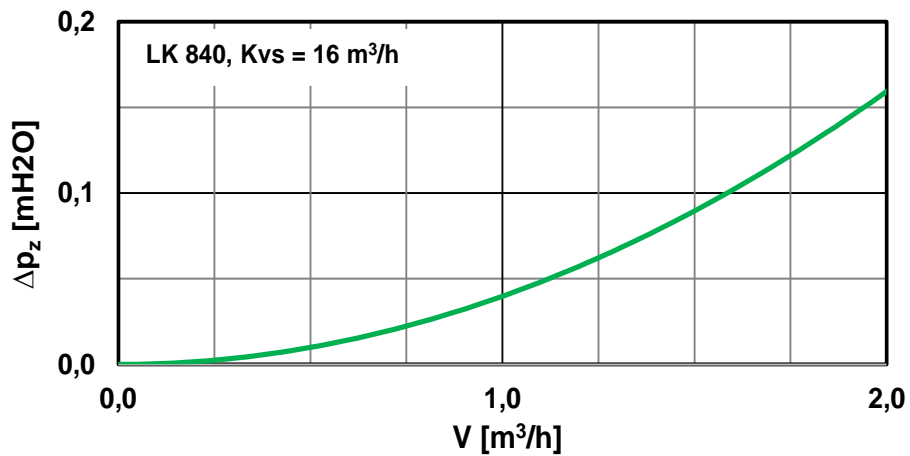
##### Materials

Body, member and spindle	brass
Seal	EPDM

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## CSE MIX W-PWM 5/4 F Pump Station

### Valve pressure drop diagram



### AVC Actuator for Mixing Valves

#### Technical data

Torque	5 Nm
Angle of rotation	90°
Shift time	120 s
Control	3 point
Auxiliary switch	no
Power supply	230 VAC
Max. power input	2,5 VA
IP rating	IP42
Protection class	II per EN 60730-1
Ambient temperature	0 - 40°C
Cable (cross-section - length)	3 x 0,5 mm <sup>2</sup> - 2 m