

**Regulus**

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CSE TC W

Installation and Operation Manual  
**CSE TC W PUMP STATION**

**EN**

**CSE TC W**

# 1. Introduction

CSE TC W Pump Station is intended for heat pump return pipe installation, securing circulation through a heat pump circuit. The circulation pump is controlled by the heat pump controller. If there is a heat pump cascade, then the circulation pumps of the first and second heat pump in the cascade are controlled. As far as the heat pumps on the third and further positions in a cascade are concerned, the circulation pump is controlled directly from the respective heat pump, unless the heating system design states otherwise. PWM pump control is only possible when just one heat pump is installed, the control cable for PWM signal is then connected to a heat pump controller. For the description of terminals and connectors consult a Heat Pump Controller Manual or a Heat Pump Manual. The pump station is designed to be installed directly on a pipe with 100 mm min. distance of the pipe axis from a wall.

## 2. Description of the pump station

The pump station consists of a Yonos Para RS pump including a power cable, two fittings with a shut-off ball valve, thermometer and insulation.

Main features	
Application	heat pump return pipe
Description	it consists of a WILLO Yonos Para RS pump, two fittings with a shut-off ball valve, thermometer and insulation
Working fluid	water, water-glycol mixture (max. 1:1) or water-glycerine mixture (max. 2:1)
Installation	on a heat pump return pipe, min. distance of the pipe axis from a wall is 100 mm
<b>Code</b>	<b>15 874</b>

Technical data of CSE TC W pump station	
Fluid working temperature	2 - 95 °C
Max. working pressure	6 bar
Max. ambient temperature	58 °C
Power supply	230 V, 50 Hz
Insulation material	EPP RG 60 g/l
Overall dimensions	325 x 140 x 150 mm
Total weight	2.8 kg
Connections	2x G 1" F

### 3. Flow direction



### 4. Wilo Yonos PARA RS 25/7,5 PWM1 Pump

#### Design

Wet-running circulation pump with G 6/4" M connection.

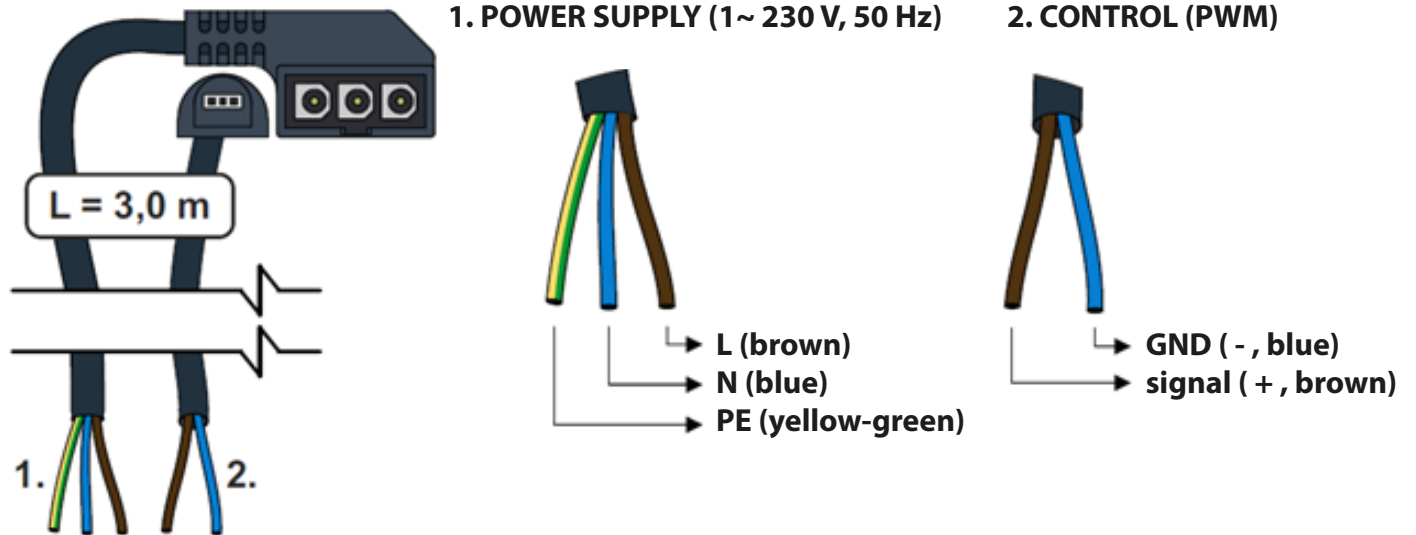
Electrical data	
Power supply	230 V, 50/60 Hz
Power input (min./max.)	4/75 W
Current (min./max.)	0.04/0.66 A
Max. speed	4770 rpm
Speed control	frequency inverter
Energy Efficiency Index	≤ 0.21 by EN 16 297/3
IP rating	IPX4D
Motor protection	integrated

Minimum pressure at the suction port	
Min. pressure at the suction port to avoid cavitation	0.05 bar at 50 °C
	0.43 bar at 95 °C



Operation data	
Fluid working temp.	0 to 100 °C at 58 °C ambient temperature
Max. working pressure	6 bar
Max. head	7.5 m

## Wilо Yonos Para RS pump wiring



# Performance curves - PWM1

