

## PRESTO W58x Process system

The water-cooled PRESTO W58x is able to quickly and efficiently control the temperature in applications requiring a great deal of power. This model features has an impressive cooling capacity of 33 kW at 20°C, thus ensuring that it maintains large power reserves over its entire working temperature range, especially at temperatures around -30°C to -40°C, which are often necessary for automotive testing.

The PRESTO W58x process system is equipped with a gear pump. As a result, bath fluids with a high viscosity, such as water-glycol mixtures at low temperatures of up to -45 °C, can also be used .

The magnetically coupled pump allows the user to optimally adjust pump capacity to suit the application, even over large distances and height differences, as well as for pressure-sensitive applications. Use of the latest thermodynamic technologies means that the cooling capacity is automatically adjusted to the current power requirements. Combined with further optimizations, the PRESTO W58x is both incredibly economical and energy-efficient.



### Water-glycol up to +150 °C

Connection of an expansion kit (accessorie) allows pressurized temperature control with water-glycol up to a working temperature of +150 °C.



### Product features

- External Pt100 sensor connection
- Analog connections, RS485, Profibus DP (accessory)
- Second external Pt100 sensor connection (accessory)
- Heating capacity up to 27 kW
- Temperature stability  $\pm 0.05$  °C ...  $\pm 0.1$  °C
- Alarm output
- Built-in 5.7" industrial color touchscreen
- Pump pressure up to 5.5 bar, max. flow rate 70 l/min

### Performance values

#### 400V/3PPE/50Hz (Plug 63A CEE)

Heating capacity kW	27
Viscosity max. cSt	280
Pump capacity flow pressure l/min	0 ... 70
Pump capacity pressure psi	1.5 ... 79.8
Power consumption A	54

Order number including voltage version 9421583.S1.07

## Cooling capacity 1 (Ethanol)

°C	20	0	-10	-20	-30	-40
kW <sup>1</sup>	33	32	28	19	12	7

## Cooling capacity 2 (Water Glycol 40:60)

°C	20	0	-10	-20	-30	-40
kW <sup>1</sup>	33	32	25	16	10	5.5

## Refrigerant stage 1

Refrigerant R449A

Filling weight g 3100

Global Warming Potential for R449A 1397

Carbon dioxide equivalent t 4.3307

<sup>1</sup> Performance specifications measured in accordance with DIN 12876. Cooling capacities up to 20 °C measured with ethanol; over 20 °C with thermal oil unless otherwise specified. Performance specifications apply at an ambient temperature of 20 °C. Performance values may differ with other bath fluids.

## Technical data

## Available voltage versions

Order No. 9421583

## Available voltage versions:

9421583.S1.07	400V/3PPE/50Hz (Plug 63A CEE) (R449A)
9421583.S1.17	480V/3P(N)PE/60Hz (Without Plug) (R449A)

## Cooling

Cooling of compressor 1-stage Water

Cooling water pressure max. psi 87

Max. heat dissipated by unit into cooling water kW 56

## Recommended cooling water properties

Cooling water temperature range °C 10 ... 15

Cooling water difference pressure psi 43.5 ... 87

Cooling water consumption l/min <sup>2</sup> 21 ... 28

## Permissible cooling water properties

Cooling water temperature range °C 5 ... 35

Cooling water difference pressure psi <sup>3</sup> 21.8 ... 87

<sup>2</sup> Cooling water consumption may vary outside recommended cooling water properties.

<sup>3</sup> At cooling water temperatures of 25 °C and higher, the minimum differential pressure is 1 bar.

## Other

Sound pressure level dbA 72

Classification Classification III (FL)

IP Code IP 20

Pump type Gear Pump

## Electronics

Interfaces Alarm output, Ethernet, Modbus TCP/IP, Profibus optional, REG/EPROG optional, RS232, RS485 optional, SD memory card, Standby-Input optional, USB

External pt100 sensor connection integrated

2nd external Pt100 sensor connection accessory

Integrated programmer 8x60 steps

Temperature control ICC

		Absolute temperature calibration	3 Point Calibration
		Temperature display	5.7" TFT Touchscreen
		Temperature setting	Touchscreen
Dimensions and volumes		Temperature values	
Internal usable expansion volume l	17.5	Setting the resolution of the temperature display °C	0.01
Minimal process volume l	13	Working temperature range °C	-50 ... +250
Active heat exchanger volume l	12	Temperature stability °C	±0.05 ... ±0.1
Weight lbs	1071.4	Ambient temperature °C	+5 ... +40
Cooling Water Connection in	G $\frac{3}{4}$	Temperature display resolution °C	0.01
Total dimensions in. (W × L × H)	27.6 x 42.5 x 68.5		
Pump connections	M38x1.5 male		