

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

The PRESTO W56 contains a technical innovation: 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 ±0.05 °C ... ±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 rate I/min	0 70
Pump capacity flow pressure bar	0.1 5.5
Power consumption A	54







Order No.		9421583.S1.07				
Cooling capacity 1 ((Ethanol)					
°C	20	0	-10	-20	-30	-40
kW ¹	33	32	28	19	12	7
Cooling capacity 2 (Water Glycol 40:60)						
°C	20	0	-10	-20	-30	-40
kW ¹	33	32	25	16	10	5.5
Refrigerant stage 1						
Refrigerant	R44	9A				
Filling weight g	310	0				
Global Warming Po R449A	tential for 139	7				
Carbon dioxide equ	ivalent t 4.33	07				

¹ 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		Cooling			
Order No.	9 421 583		Cooling of compressor	1-stage Water	
Available voltage versions:		Cooling water pressure max. bar	6		
9421583.S1.07	400V/3PPE/50Hz (Plug 63A CEE) (R449A)		Max. heat dissipated by unit into cooling water kW	56	
9421583.S1.17 480V/3P(N)PE/60Hz (Without Plug)		Recommended cooling water properties			
	(R449A)		Cooling water temperature range °C	10 15	
			Cooling water difference pressure bar	3 6	
			Cooling water consumption I/min ²	21 28	
			Permissible cooling water properties		
			Cooling water temperature range °C	5 35	
			Cooling water difference pressure bar ³	1.5 6	
			 ² Cooling water consumption may vary outs cooling water properties. ³ At cooling water temperatures of 25 °C ar differential pressure is 1 bar. 		
Other			Electronics		
Sound pressure level dbA		72	Interfaces	Alarm output, Ethernet,	
Classification		Classification III (FL)		Modbus, Profibus optional, REG/EPROG	
IP Code		IP 20		optional, RS232, RS485 optional, SD	
Pump type		Gear Pump		memory card, Standby- Input optional, USB	
			External pt100 sensor connection	integrated	
			2nd external Pt100 sensor connection	accessory	
			Integrated programmer	8x60 steps	

Temperature control

Absolute temperature calibration

ICC

3 Point Calibration

Julabo

	Temperature display	5.7" TFT Touchscreen
	Temperature setting	Touchscreen
	Temperature values	
	Setting the resolution of the temperature display °C	0.01
	Working temperature range °C	-50 +250
	Temperature stability °C	±0.05 ±0.1
	Ambient temperature °C	+5 +40
3 x 174	Setting the resolution of the temperature display °C	0.01

Dimensions and volumes	
Internal usable expansion volume l	17.5
Minimal process volume I	13
Active heat exchanger volume I	12
Weight kg	486
Cooling Water Connection in	G¾
Dimensions cm ($W \times L \times H$)	70 x 108 x 174
Pump connections	M38x1.5 male