P100S eMold

The efficient, energy-saving and compact pressurized-water temperature control unit with unmatched connectivity. Designed for plastic injection molding and industrial applications up to 100 °C

- Automatic energy-saving modes (Delta-T, flow control, pressure control)
- Most efficient, high-performance pump with variable pump speed (IE4, synchronous motor)
- RT200 controller with modern touch interface
- Maximum functionality and features included
- Unmatched RT200-connectivity
- Access through LAN, WLAN, web browser (HTML 5), TeamViewer
- OPC UA interface standard on all units
- Additional interface integrated
- Separated Cooling circuit (Low calcification, long lifetime)
- Compact, robust, and field-proven design



Technical specifications

Heat transfer medium	Outlet temperature	Heating capacity at 400V	Cooling capacity		Pump capacity/Type		
Water	100 °C	8 kW	90 °C	78 kW	PM23	50 l/min	1.4 kW

Technical data

Outlet temperature		
max.	°C	100
Heat transfer medium		Water
Filling quantity	l	1.0
Expansion volume	l	-
Heating capacity at 400V	kW	8
Cooling capacity	kW	78
Cooler		2K
at outlet temperature	°C	90
at cooling water temperature	°C	20
Pump capacity/Type		PM23
Flow rate max.	l/min	50
Power consumption	kW	1.4
Pressure max.	bar	9.0
Control system		RT200
Measuring mode (standard)		Pt100
Operating voltage	V/Hz	400/ 50/60
Connections		
Outlet/Inlet		G1/2"
Cooling water mains		G1/2"
Degree of protection		IP54
Dimensions W/H/D	mm	225/590/862
Weight	kg	50
Color		Regloplas green/9005
Ambient temperature		
max.	°C	40
Noise level	db (A)	< 70

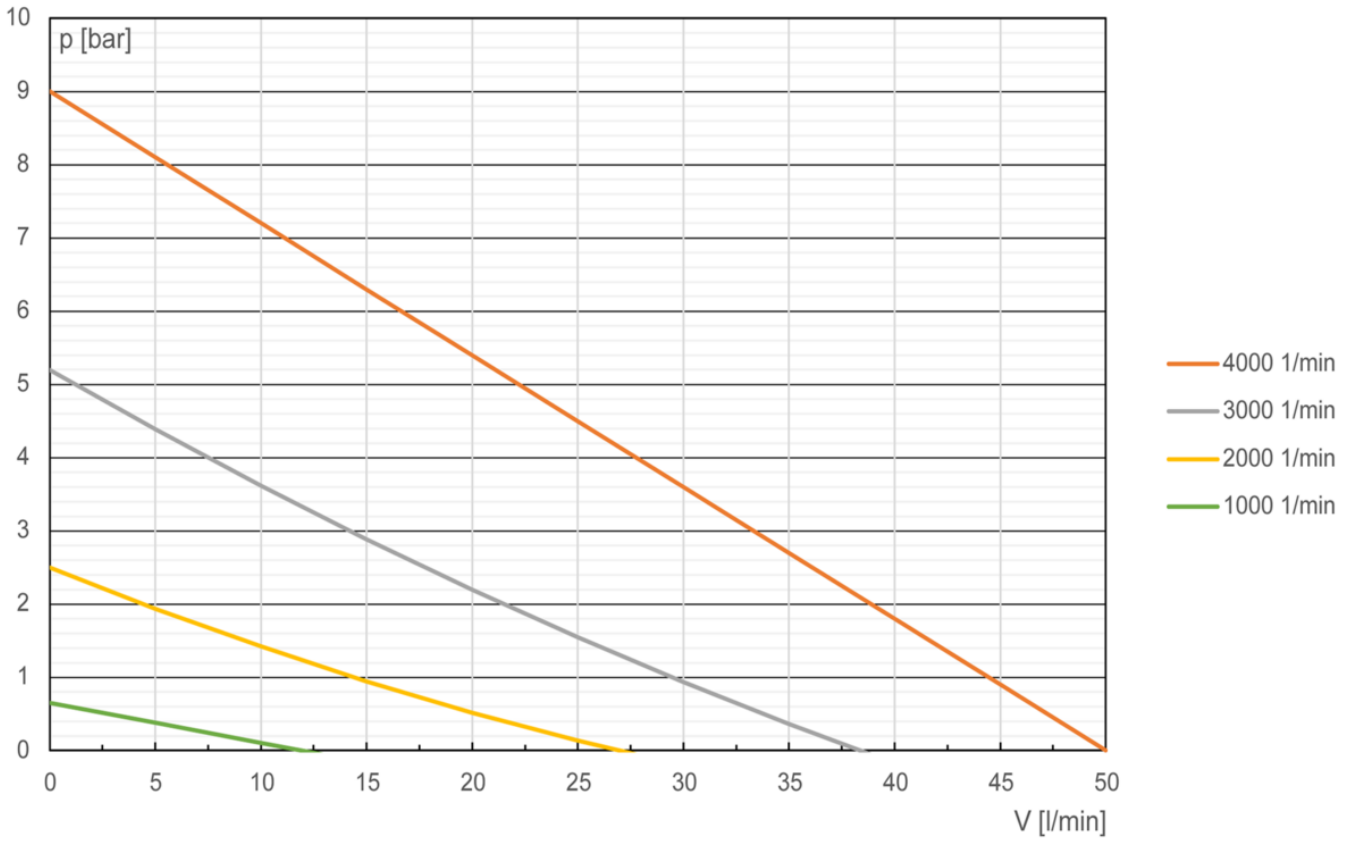
Standard equipment

- Solid-state relay (SSR) instead of heating contactor
- Filter in the main circuit
- Automatic water refill
- Leak-free pump with magnetic coupling
- Low-scaling and variable cooling system
- Direct access to control system via web-browser (HTML 5)
- Online software-update
- Unit in IP54 protection degree
- RT200 control system
- Flow meter VFS160 (inside)
- Timer (Timer function)
- Delta-T control
- Pressure control
- Flow control
- Connection cable 4m for backside unit
- Cascade control Inlet Sn3
- Flushing of unit
- Set point value ramp
- Draining the consumer by suction
- Vapor suppression
- Outlet pressure on Display
- Pump condition monitoring
- Interface OPC UA RT200 (WLAN/Ethernet)
- Ethernet RJ45 Service Interface
- One additional interface of your choice
- USB data logger

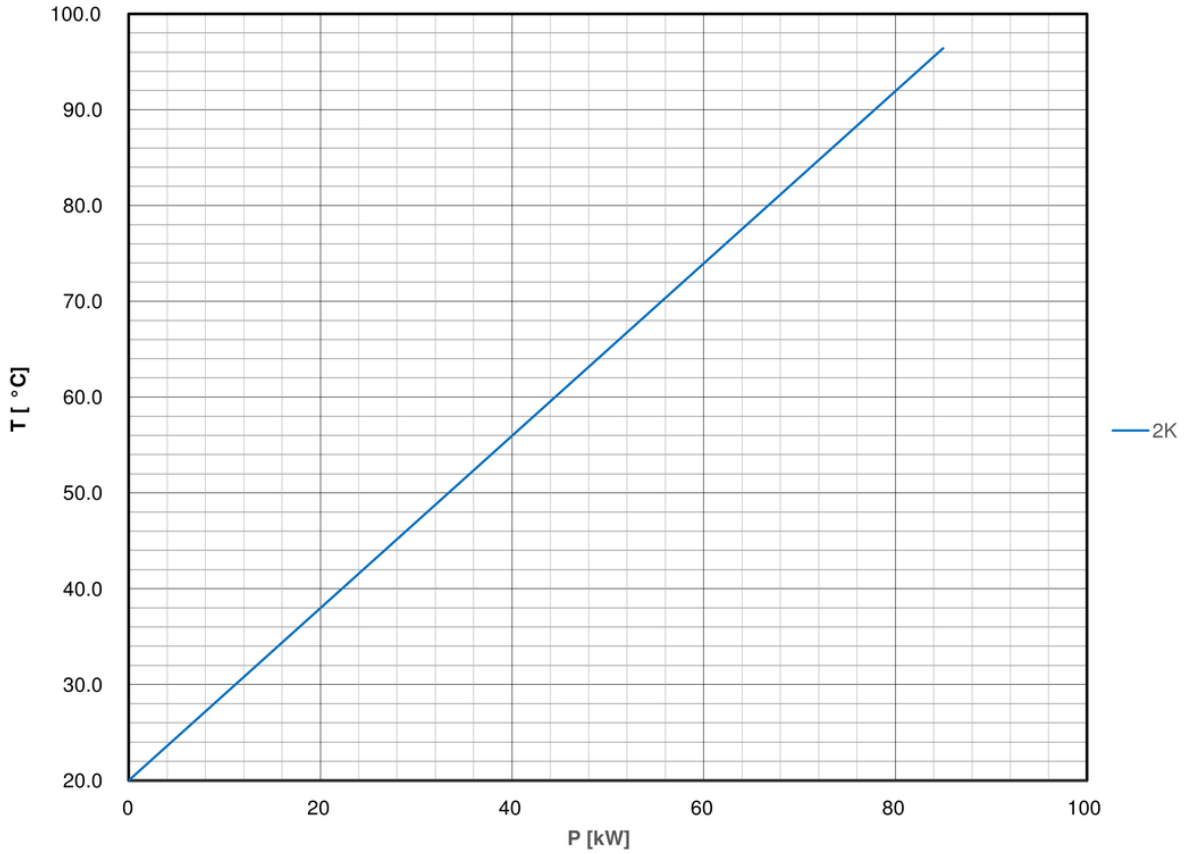
Options

- Manual valve in inlet and outlet
- multiFlow distributor
- Heating current monitoring
- RT100 control system

Pump curve


p [bar]
10
9
8
7
6
5
4
3
2
1
0
0
5
10
15
20
25
30
35
40
45
50
V [l/min]
4000 1/min
3000 1/min
2000 1/min
1000 1/min

Cooling curve



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Injection Molding, Die Casting, other Applications

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