

Water Temperature Controllers e.THERM Type W90

*New
Generation!*



OPC UA Ready

The new generation of e.THERM atmospheric water temperature controllers is equipped with the new 7" anti-shock color touch screen developed with all SISE's know-how.

This new interface is very intuitive, clear and customizable.

Standardized across the entire range, it includes easily upgradable option packs such as the communication packs. Remote viewing using the VNC connection is now standard.

All technical components of this new generation are easily accessible and replaceable for easy maintenance.

Storage and graphical display of process data, energy consumption calculation, enhanced instrumentation, event history, provide process traceability and data transmission. This is also possible thanks to the open communication protocol OPC-UA. Fully in line with SISE 4.0 strategy.



DETAILS SCREEN DISPLAYS:

Simplified display (if standard version)



Detailed display



Alarms



Alerts



Alarm Log



Cooling Mode



Vacuum Mode Configuration



Tolerance Thresholds Configuration



Language Configuration



Start/Stop Configuration



Remote Alarm Configuration



Input/Output Configuration





TECHNICAL FEATURES WATER TEMPERATURE CONTROLLER :

MODEL	W90 - S6/9		W90 M6/9/12/15/18					W90 L9/18/27/36/45				
Maximum Temperature °C	90											
Heating Capacity (kW)	6	9	6	9	12	15	18	9	18	27	36	45
Heating Stages	1		1					1		2		
Pump Type	Peripheral submersible		Peripheral submersible					Peripheral/Centrifugal submersible				
Maximum Flow L/Min	60		60 or 70					200* - 140 - 200 - 400				
Maximum Pressure (bar)	3,5		3,5 or 6					5* - 5,3 - 7,2 - 4,5				
Cooling Technology	Coil		Coil					Heat Plate exchanger 60 kW				
Cooling Power (kW) (Water 10°C - Maximum Process Temperature)	25		30					60				
Suction/ Anti-Leak function	Yes		Yes					OK for pump 130 L/Min				
Filling	Automatic											
Filling Volume (L)	8,2		15,5					34				
Expansion Volume (L)	2,2		7,4					10				
Process inlet / outlet	¾"		¾"					1"¼				
Anti-shock color touch screen	7"											
Control and Regulation	MicroP - Self-Tuning											
Voltage	400V - 3Ph. + T - 50Hz											
Dimensions (mm) :												
Depth	542		811					1150				
Width	270		328					446				
Height	498		540					976				
Weight kg (empty)	≈ 26		≈ 53					From 110 to 150 kg depending on pump size				

* Peripheral submersible pump

STANDARDS / OPTIONS

MODEL	W90 - S6/9		W90 M6/9/12/15/18					W90 L9/18/27/36/45				
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PROCESS

Mold cooling mode before stop	●		●				●					
Operating range detection (Thresholds)	●		●				●					
Solid State Relays	●		●				●					
Pressure / Flow rate** Informations	●		●				●					
VORTEX Flowmeter	○		○				○					
Plate heat exchanger (kW)	60		60 or 100				100 or 180					
Variable speed drive (available June 2023)	-		○				○					
Manual Filling	-		○				○					
Remote Temperature Sensor	-		○				○					
Pseudo-Cascade Control	-		○				○					
Manual / Automatic By-Pass	-		○				○					
(Air Pressure) Mold Cleaning	-		○				○					
Direct cooling	-		○				○					

COMMUNICATION

VNC Connection	●		●				●					
Remote Alarm	○		○				○					
Remote Set Point & Copy Process T°C	○		○				○					
COM E82.1 or TTY or RS485 or SPI...	○		○				○					
Package COM 1 (E82.1 + TTY)	○		○				○					
Package COM 2 (E82.1 + RS485)	○		○				○					
Package COM 3 (E82.1 + SPI)	○		○				○					
Package COM 4 (SPI + E82.1 + RS485)	○		○				○					
Package COM 5 (SPI + E82.1 + TTY)	○		○				○					

AUXILIARY EQUIPMENT

Nourrices Multi - Départs / Retours	○		○				○					
Colonne lumineuse	-		○				○					

VARIOUS

Time, date, hour counter display	●		●				●					
Lateral door color	○		○				○					
230V/440V/480V - 3Ph. + T - 60Hz	-		○				○					

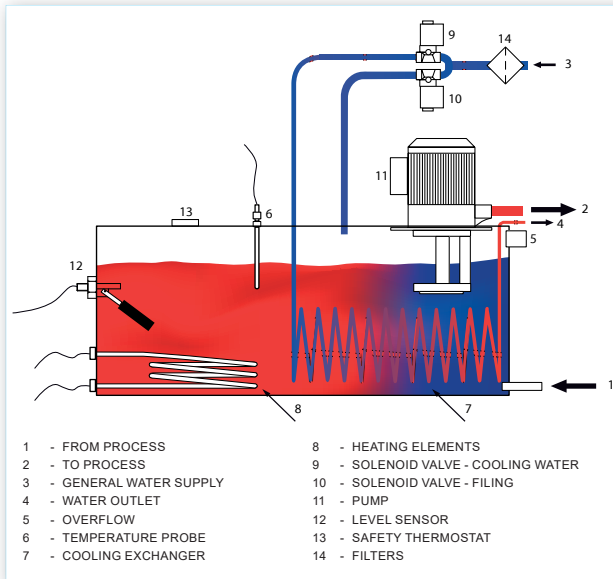
● = standard ○ = option - = not available

** = Flow rate calculated with pressure sensor as standard





HYDRAULIC CIRCUIT :

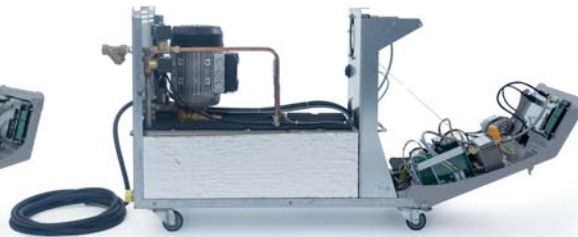


Example Size S/M

MULTI-PROTOCOL COMMUNICATION



W90 - S6/9 (Size S)

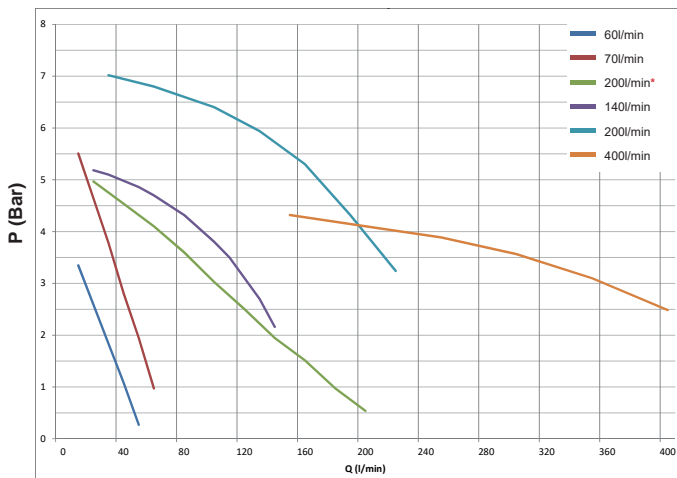


W90 - M6/9/12/15/18 (Size M)



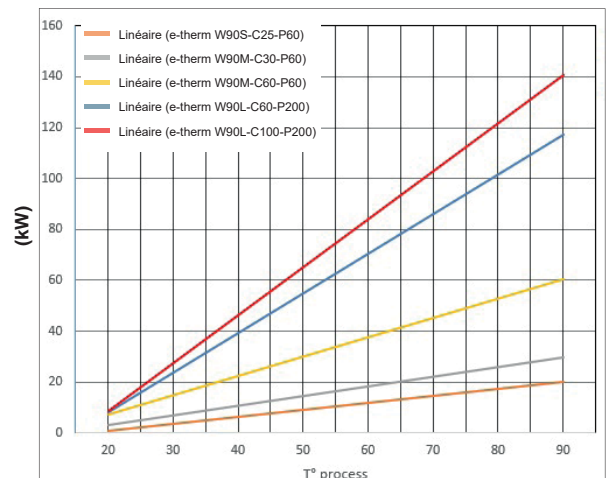
W90 - L9/18/27/36/45 (Size L)

PUMP PERFORMANCE :



* Peripheral submersible pump

COOLING CAPACITY



Conditions : Water 10°C - Maximum Process Temperature

SISE takes part regularly in training, assistance with start-up, or for existing installations

