S.I.S.E.
INDUSTRIAL PROCESS UNDER CONTROL

Pressure Water temperature Controllers
e.THERM Type W140/160/180

New !

7" color touchscreen

OPC UA Ready

Designed with SISE's extensive expertise, the new generation of e.Therm pressurized water controllers offers units from 140 to 180°C, up to 60 kW. It features a new robust 7" anti-shock color touch screen.

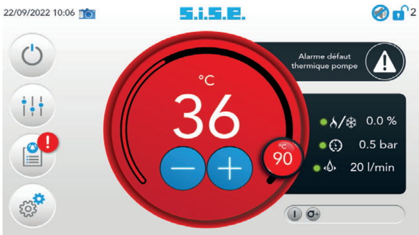
This new generation, highly robust, brings simplicity to daily use in workshops thanks to a recognized ergonomic user-friendly interface. The units are dedicated to various market applications, particularly for automotive applications, aerotechnical, medical, and electrical engineering.

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.

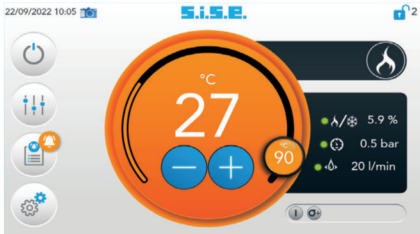
EXAMPLE SCREEN DISPLAYS :

Dashboard

Alarms



Alerts

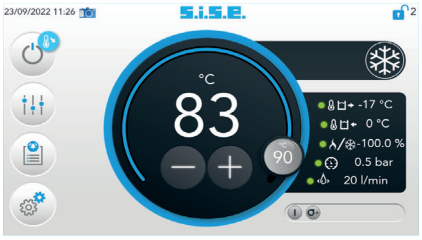


Tolerance Thresholds Configuration

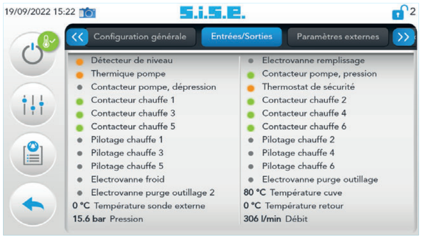
ON / OFF

Alarm Log

Cooling mode



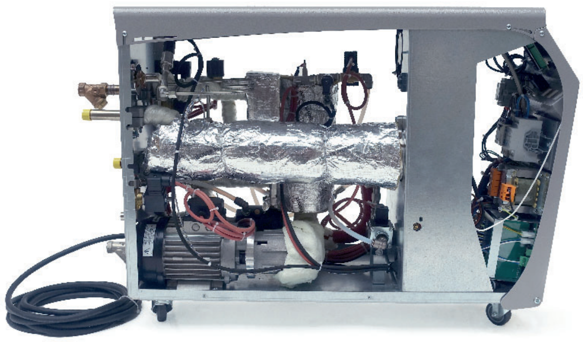
Input/Output Display

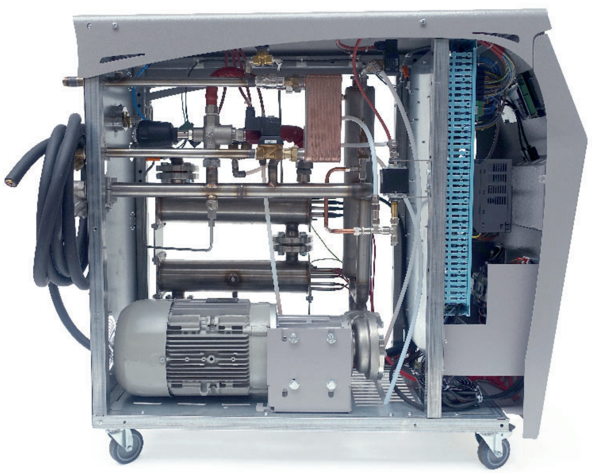


Language Configuration

W140/160/180 ML 9-12

- The new generation developped by SISE offers 3 systems from 140°C to 180°C. Heating power from 6 to 12 kW, with magnetic couplings 60 L/min pumps, covering the entirety of markets applications. A booster pump comes standard on the 160°C and 180°C and optional for the 140°C. Equipped with a static relay and pressure measurement, they offer high precision temperature control, and comfortable daily use. **2 year Warranty**.





W160/180 L 20-40-60

- The 160°C/180°C range is available with heating capacities of 20 kW, 40 kW, or 60 kW, and up to 160 kW of cooling power. It complies with current pressure equipment standards and can be connected to large tools, particularly for automotive applications. Its modular construction and robust components create a reliable range that allows an easy maintenance. In addition to a large number of available options, it offers 3 pump types from 85 L/Min to 200 L/Min, pressure reading and a new anti-scaling cooling system. **2 year Warranty**.

TECHNICAL FEATURES WATER TEMPERATURE CONTROLLER

MODEL	W140 ML 9/12		W160 ML 9/12		W180 ML 9/12		W160 L 20/40/60			W180 L 20/40/60		
Maximum Temperature °C	**140**		**160**		**180**		**160**			**180**		
Heating Capacity (kW)	9	12	9	12	9	12	20	40	60	20	40	60
Heating Stages	1		1		1		1	2	3	1	2	3
Pump Type	Sealed Peripheral		Peripheral with magnetic coupling									
Maximum Flow L/Min	60		50		50		85	150	200	85	150	200
Maximum Pressure (bar)	6		5		5		7	7,5	8,5	7,5	7,5	8,5
Cooling Technology	Heat Plate exchanger											
Cooling Power (kW) (Water 10°C - Maximum Process Temperature)	60		70		80		90			100		
Filling	Auto											
Filling Volume (L)	4						7,5	10	12,5	7,5	10	12,5
Expansion Volume (L)	Automatic discharge											
Process inlet / outlet	½"						1"					
Control and Regulation	MicroP - Self-Tuning											
Voltage	400V-3Ph. + T - 50Hz											
Dimensions (mm) :												
Depth	1007						1151					
Width	333						458					
Height	630						974					
Weight kg (empty)	70 ≈ 75						154 ≈ 204					

OPTIONS

MODEL	W140 ML 9/12	W160 ML 9/12	W180 ML 9/12	W160 L 20/40/60	W180 L 20/40/60
PROCESS					
Pressure gauge	●	●	●	●	●
Plate heat exchanger	●	●	●	●	●
Pressure Informations	●	●	●	●	●
Solid State Relays	●	●	●	●	●
Mold cooling mode before stop	●	●	●	●	●
Booster Pump	●	●	●	●	●
3-way valve "anti-scaling system"	○	○	●	○	●
Programmable heatings (ramps / per stages)	○	○	○	○	○
Mechatronic flowmeter	○	○	○	○	○
Pseudo-Cascade Control	○	○	○	○	○
Variable speed drive (EcoFlo Mode)	○	○	○	○	○
(Vacuum) Mold Cleaning	○	○	○	-	-

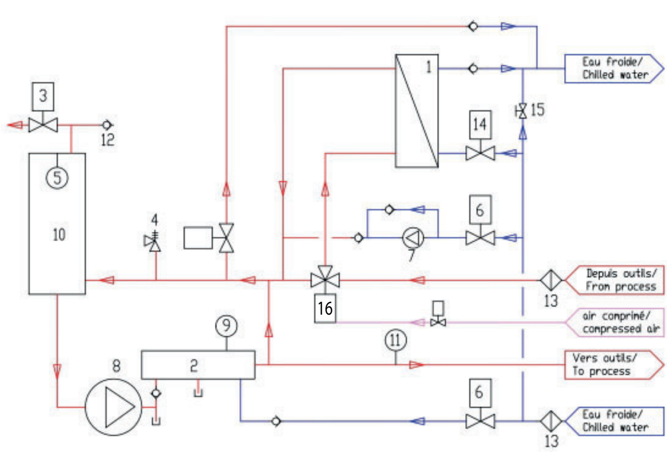
MODEL	W140 ML 9/12 / W160 ML 9/12 / W180 ML 9/12	W160 L 20/40/60 / W180 L 20/40/60
COMMUNICATION		
VNC Connection	●	●
Remote Alarm	○	○
Remote Set Point & Copy Process T°C	○	○
COM E82.1 or TTY or RS485 or SPI...	○	○
Package COM 1 (E82.1 + TTY)	○	○
Package COM 2 (E82.1 + RS485)	○	○
Package COM 3 (E82.1 + SPI)	○	○
Package COM 4 (SPI + E82.1 + RS485)	○	○
Package COM 5 (SPI + E82.1 + TTY)	○	○
AUXILIARY EQUIPMENT		
Manifold Multi - Inlets / Outlets	○	○
LED Alarm Tower	○	○
VARIOUS		
Time, date, hour counter display	●	●
Special lateral door color	○	○
230V/440V/480V - 3Ph. + T - 60Hz	○	○

●= standard ○= option - = not available

(Specific projects upon request...)

All SISE pressurized water temperature controllers meet the requirements of the Pressure Equipment Directive (PED)

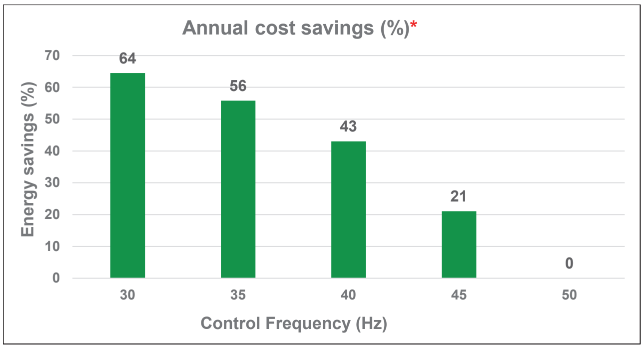
HYDRAULIC CIRCUIT :



1 - COOLING EXCHANGER
2 - HEATING ELEMENT
3 - PURGE SOLENOID VALVE
4 - SAFETY VALVE
5 - LEVEL SENSOR
6 - SOLENOID VALVE - FILING
7 - BOOSTER PUMP *
8 - PUMP
9 - TEMPERATURE PROBE
10 - EXPANSION TANK
11 - PRESSURE GAUGE
12 - VACUUM BREAKER
13 - FILTER
14 - SOLENOID VALVE - COOLING
15 - MANUAL COOLING BY-PASS
16 - 3-WAY VALVE (STANDARD ON W180 ML AND L)

* BOOSTER PUMP (IN OPTION ON 140E)

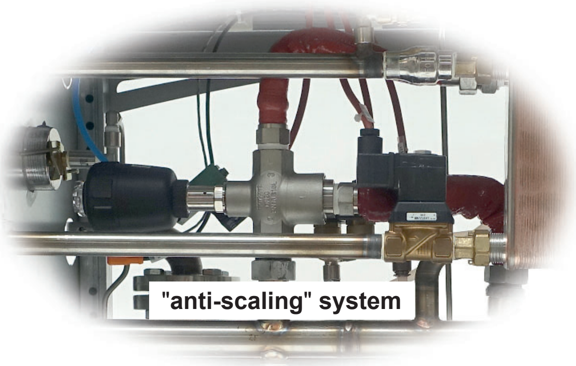
EcoFlo MODE with variable speed drive :



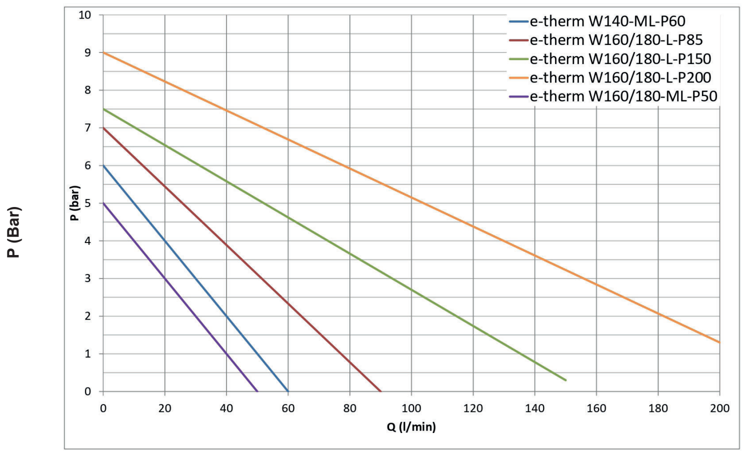
* Compared with50 Hz

*The **EcoFlo** mode offers genuine economic savings.*

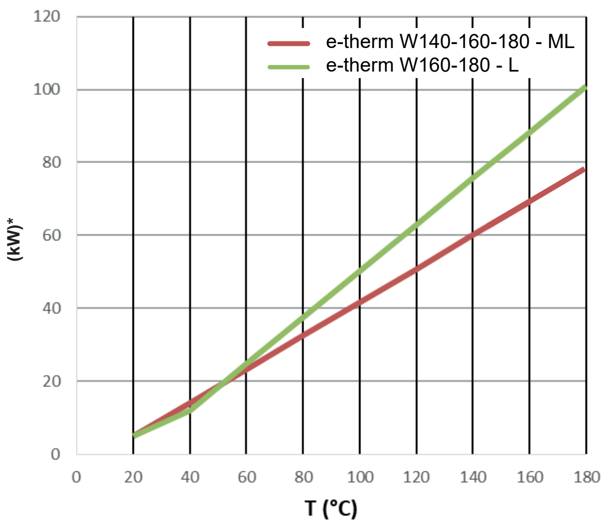
SISE offers two main operating modes :
- *The manual mode, which sets the pump's rotation speed in %*
- *The self-adaptive mode, where the pump's rotation speed adjusts automatically.*



PUMP PERFORMANCE :



COOLING CAPACITY



*Conditions : Water 10°C - Maximum Process Temperature

SISE regularly participates in training, start-up assistance, or support for existing installations.