



INTERNATIONAL SPECIALIST
IN INTERCONNECTED TEMPERATURE
AND PROCESS CONTROL SYSTEMS
FOR THE PLASTICS, COMPOSITES,
CALENDARING AND
CHEMICALS INDUSTRIES.

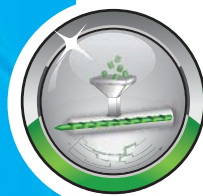
INDUSTRIAL PROCESS UNDER CONTROL



HOT RUNNER CONTROLS



MOLD TEMPERATURE CONTROLS



VALVE GATE CONTROLS



PRODUCTION & PROCESS MONITORING



ADVANCED 4.0 SOLUTIONS

MARKET APPLICATIONS



AUTOMOTIVE- PACKAGING - TECHNICAL
MEDICAL/PHARMA - AEROTECHNICAL - PARACHEMISTRY



www.sise-plastics.com



OUR MISSION :

We use our collective intelligence to supply high-tech, innovative, and global 4.0 solutions. We specialise in applications for the **automotive, medical, packaging, electro technical, composites, aviation, and chemistry formulation sectors.**

OUR VISION :

To reinforce our position **as an international specialist** in interconnected temperature and process control systems for the plastics, composites, chemicals, and rubber industries. We do this by developing **innovative industrial solutions** that improve our customers' performance.

OUR COMMITMENT :

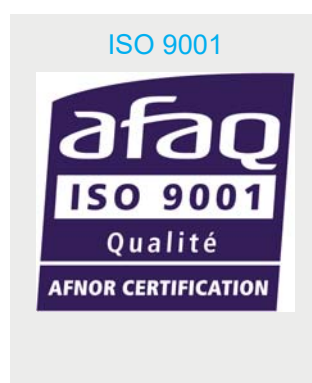
We offer global expertise in all of our business activities by :

- Identifying the precise needs of customers
- Guiding our customers throughout their projects to improve performance.

Ensure the Reliability of our products by :

- Controlling the entire process from conception through production
- Providing products that are compatible with all technologies on the market .

OUR CERTIFICATIONS :





HOT RUNNER CONTROLS

SISE products conform to various applications



AUTOMOTIVE



PACKAGING



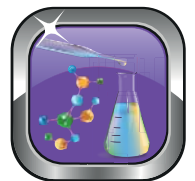
TECHNICAL



MEDICAL/PHARMA

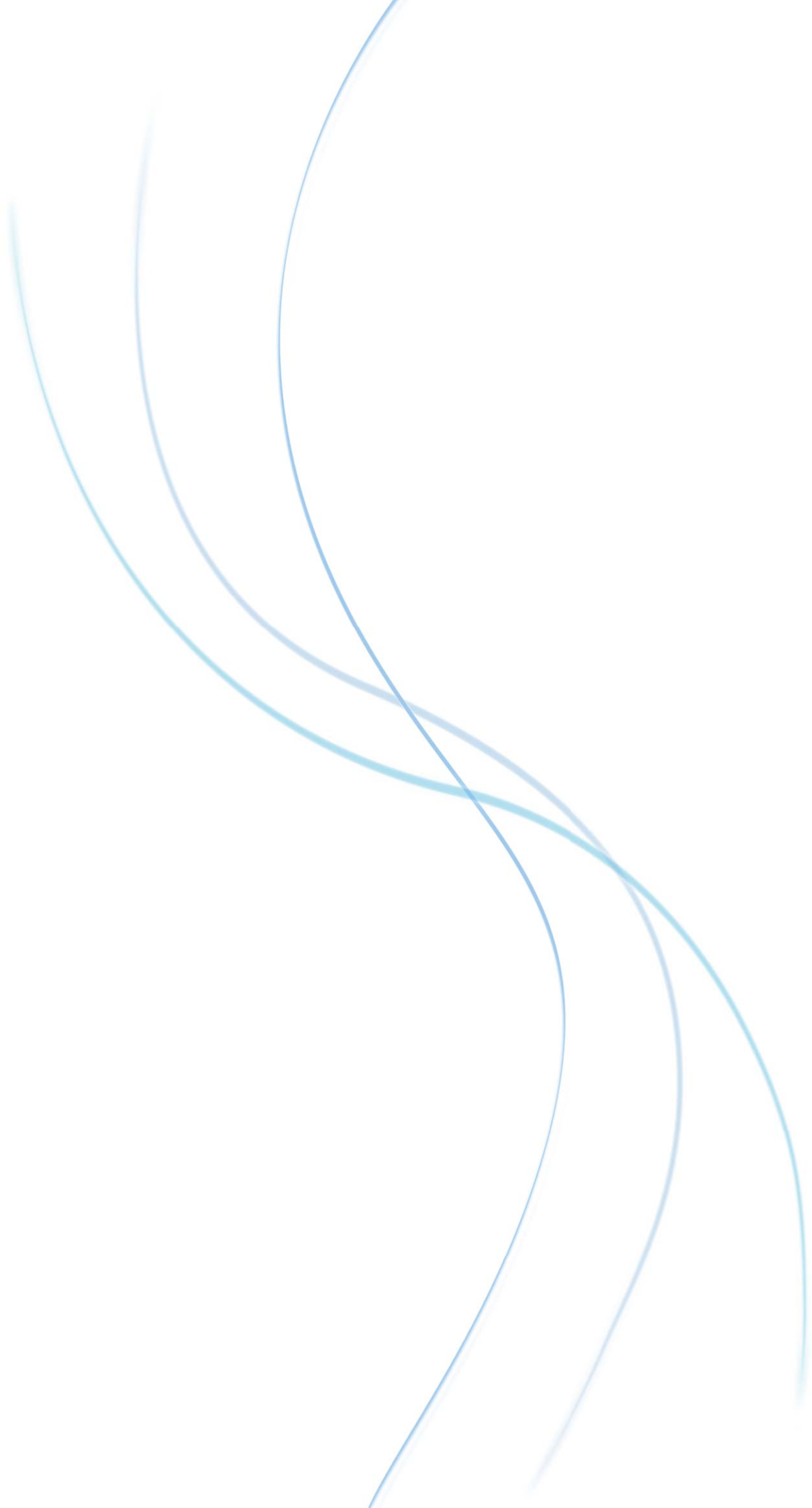


AEROTECHNICAL



PARACHEMISTRY





Permanent Auto-Tuning Modular Controllers

8
Series



Single-zone
Controller

Dual-Zone
Controller



8 Series cabinet
single-zone



8 Series cabinet
dual-zone

The 8 series controller has been designed for molding applications with a low number of control zones, particularly in the automotive and technical molding industry.

Extremely compact, these twin zone modular controllers work in SISE 2 to 24 zone mainframes.

The 8 series benefits from the latest manufacturing technology including the optimum use of surface mounted electronic components (SMC) and is a new milestone in terms of performance, robustness and price.



INDUSTRIAL PROCESS UNDER CONTROL



GENERAL SPECIFICATIONS :

- 8SX Single-Zone & 8DX Dual-Zone Modular Controller
- 6 cabinet sizes (2, 4, 8, 12, 16 and 24 zones)
- 16 Amps per zone (3600 W)
- Change temperature using separate up/down keys for each zone.
- Zone display :
 - 3 digit temperature display in red
 - Status and alarms are displayed on the green digit
- 2 types of user interface :
 - **PREMIER** : Alarm and second set-point (stand-by) on dry contact.
 - **COM** : Alarm, second set-point (standby) + communication CAN bus, USB and RS 232/485.



STANDARD FEATURES :

- Permanent self tuning control by S.I.S.E.
- Automatic and manual mode
- 2 setpoint values (Active and Stand-by)
- Selectable soft start modes (either 15%/100°C or ramp rate in °C/minute)
- Current measurement (Amps)
- Nominal power of heating elements measurement (kW)
- Separately adjustable alarms on temperature deviation (High and Low)
- Alarms for broken or reversed thermocouple
- Alarm for heating element failure

Temperature Alarms !

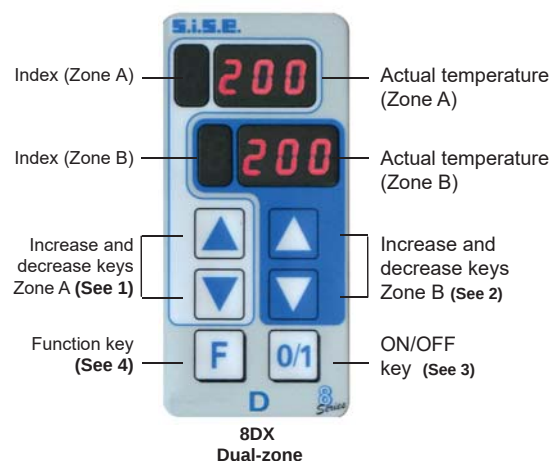
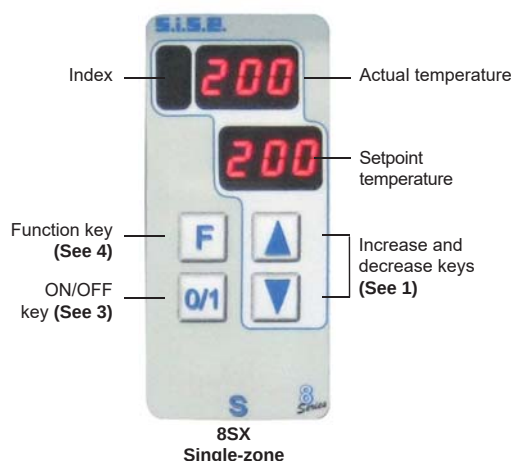


8
Series

ADVANCED FEATURES :

- Switches to manual mode in case of thermocouple failure
- (or simple alarm, according to the controller's configuration).
- COM interface allows:
Communication with machines according to Euromap 17/ Euromap 66,
RS 232/485, CAN BUS and USB (Win'Sise Software) standards

8 SERIES CONTROLLER DISPLAYS :



- 1) These 2 buttons control the value of both the setpoint and the parameters of zone A and are also used to adjust options (mode, control type, unit...)
- 2) These 2 buttons control the value of both the setpoint and the parameters of zone B, in the case of a dual-zone controller. These buttons are also used to adjust options (mode, control type, unit...)
- 3) This key switches the device on or off. Keeping the key pressed has no effect.
The controller, when switched off, is still under power, but doesn't regulate. The display shows **OFF**.
- 4) This key allows access to main parameters and settings.



The 8 Series controllers offer 2 levels of user interface for all types of applications, from the most simple to the most sophisticated, especially with the communication capability to Euromap 17/66, CAN Bus, USB and RS 232/485 standards.



Twin zone cabinet
PREMIER Configuration



4 zone cabinet
PREMIER Configuration



8C4S - 4 zone cabinet
MONOZONE



8 zone cabinet
PREMIER Configuration



12 zone cabinet
COM Configuration



16 zone cabinet
COM Configuration



24 zone cabinet
PREMIER Configuration



16 zone cabinet
SISE standard wiring.
Customized wiring available upon request.

8 Series

The 8 Series Controller uses a new version of the high performance Permanent Self-Tuning Control software developed by SISE.

SISE software optimizes control parameters by permanently monitoring and recalculating for variations in process characteristics.

SISE CONTROLLERS ARE THEREFORE COMPATIBLE WITH ALL HOT RUNNER SYSTEMS AVAILABLE ON THE MARKET.

Our software includes a Phase Angle Control system during the SoftStart phase and a Pulse Triggered & Zero Crossing (PWM) system during control phase.

This ensures both the lifespan of the heating elements and compliance with CEM regulations.





TECHNICAL FEATURES FOR 8 SERIES CABINETS

Ref.	Number of zones	Dimensions W x H x D in mm	Net Weight / Max. weight	Switch or Circuit Breaker	max. admissible power in kW (supply 400V 3 PH + N)	Size / length connection cables (mm ² / m)
8C1D	2	132 x 194 x 270 mm	3,4 / 3,9 Kg	Switch 16A	3,6 kW *	3G2,5 mm ² / 4 m
8C2S	2	208 x 214 x 330 mm	5,5 / 6,5 Kg	Switch 20A	9,2 kW	5G2,5 mm ² / 4 m
8C2D	4	208 x 214 x 330 mm	5,5 / 6,5 Kg	Switch 20A	9,2 kW	5G2,5 mm ² / 4 m
8C4S	4	309 x 214 x 385 mm	9 / 11,5 Kg	Circuit br. 4x25A	17 kW	5G4 mm ² / 4 m
8C4D	8	309 x 214 x 385 mm	9 / 11,5 Kg	Circuit br. 4x25A	17 kW	5G4 mm ² / 4 m
8C6S	6	410 x 214 x 385 mm	11 / 14,5 Kg	Circuit br. 4x25A	17 kW	5G4 mm ² / 4 m
8C6D	12	410 x 214 x 385 mm	11 / 14,5 Kg	Circuit br. 4x32A	22 kW	5G6 mm ² / 4 m
8C8S	8	510 x 214 x 385 mm	12,5 / 17 Kg	Circuit br. 4x25A	17 kW	5G4 mm ² / 4 m
8C8D	16	510 x 214 x 385 mm	12,5 / 17 Kg	Circuit br. 4x40A	28 kW	5G10 mm ² / 4 m
8C12S	12	410 x 390 x 418 mm	12,5 / 19 Kg	Circuit br. 4x32A	22 kW	5G6 mm ² / 4 m
8C12D	24	410 x 390 x 418 mm	12,5 / 19 Kg	Circuit br. 4x63A	44 kW	5G16 mm ² / 4 m

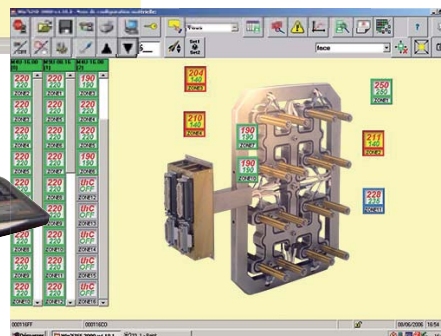
S : mainframe wiring for single-zone controller
D : mainframe wiring for dual-zone controller
(* Power supply 230V singlephase)

COMMUNICATION INTERFACE :

WIN'SISE software



Laptop



Machine E17 / E66 Communication

Optional Touchscreen



Multi-Zone Controller for hot runner systems

M
Series **V3**

*New
V3 generation !*

**The new line of M Series Controllers
work in all types of applications,
controlling from a low to a high number of zones.**

**With a new design, new functions, and very simple use,
this product line responds completely to the needs of each user
(operator, workshop floor manager, plant manager, injection expert,...)
and to new concepts brought about by Industry 4.0**



**Power-Saving
function with
power limitations**



Examples (Zone 15A): XL Version (15") up to 168 zones max., L Version (10") up to 96 zones max., M Version (10") up to 64 zones max., S Version (7") up to 24 zones max., XS Version Version (7") up to 16 zones max., XXS Version (7") up to 8 zones max.



INDUSTRIAL PROCESS UNDER CONTROL



GENERAL SPECIFICATIONS

- From 8 to 168 zones (power card 15A) or 336 zones (power card 2,5A)
- Available in 6 sizes
- 7", 10" or 12" color touchscreen
- Communication E17 - SPI - CANBUS - USB - OPCUA
- Small footprint
- 8, 4, 2 or 1 zone per power card concept (2,5A, 15A, 20A or 30A per zone)
- Operates with Insulated and non-insulated J Thermocouples (or type K in option)

STANDARD FUNCTIONS

- Permanent self tuning control (*)
- 2 adjustable setpoint values
- Display of % power and load current per zone (Amps)
- High and Low Alarm (adjustable per zone, output on relay)
- Broken thermocouple (Display THC)
- Inverted thermocouple (Display THI)
- Automatic and Manual modes
- Zone Designation : MANIF1, SPRUE, TIP26
- Zoom in on 1 or more zones
- Keyboard locks with password
- Unlimited mold files
- Electrical Data from mold saved for analysis
- Standard multilingual interface (11 available languages)



(*) *The MV3 Series uses a completely redesigned version of «Permanent Self Tuning Control» software, conceived and developed by SISE. This software continuously recalculates control parameters for each zone, immediately taking into account evolutions in the process. New Softstart modes, as well as commands for raising and dropping temperature, offer comfort and security for the operator.*

ADVANCED FUNCTIONS

- Programmable display of zone data
- Boost function
 - Positive
 - Negative
 - Period of Time
- Percentage of Power Monitoring (%)
- Choice of 4 Soft Start and Stop Programs (time duration, °C/minute, shifted, synchronized)
- Real-Time Mold Surveillance for deviations in electrical data
- Automatically switches to Manual Mode using last recorded Power Applied
- Zone slaving
- Deferred Start (Time programming)
- Power-Saving function with power limitations



**Power Card
4 Zones (15A)**

Fast Access !



DIAGNOSTICS FOR MOLD UNDER CONTROL !

- **EASIER MOLD MAINTENANCE USING MOLDSCAN**
- **DETECT MATERIAL LEAKS IN REAL-TIME**



1ZX- SINGLE ZONE Temperature controller



SELF - TUNING TEMPERATURE CONTROLLER

Dual display with «Click and Rotate» dial

**The 1ZX uses SISE's «Permanent Auto-Tuning Software».
This new controller is compatible with just about
any hot runner system on the market**



INDUSTRIAL PROCESS UNDER CONTROL

S.I.S.E.



Compact !



Lockable keyboard !

SPECIFICATIONS :

Dimensions (mm)	: W : 120.5 – H : 112 – D: 226 mm
Power Supply	: 240, 50/60 Hz single phase Includes power and thermocouple cables (4 meter)
Output	: 0 - 230 V x 15 A (3450 W) Phase control or pulse triggered & zero crossing (Low voltage possible with addition of transformer)
Thermocouple Isolation	: Optical and Tranformer (Isolated to 1500V)
Temperature Control	: «J» or «K» Thermocouple with linearisation, accuracy 0.5% in °C or °F : Permanent self tuning control by SISE or programmable P.I.

Advanced Features	: Automatic or Manual mode (automatically switches to Manual mode if broken thermocouple) 2 Softstart ramps available (limited to 15%/100°C or ajustable in °C/Min) Current measurement and display (Amps) Heating Power display (Watts) Load Power display (Watts) Adjustable Setpoints (0 - 500°C) Load & Triac Protection by 2 fuses (15A) Integrated relay in case of triac short circuit Installed Power monitoring ...
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Safety :	Open thermocouple Inverted thermocouple Upper / Lower alarm (programmable) Load Breakage
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Cables included !



Multifunctional Cart TR3



Adjustable
Tilting Shelves

Handle

Overflow Tray

Cable Holder



GENERAL SPECIFICATIONS :

- Quick Assembly
- 4 cable holders
- 4 pivoting wheels with brakes
- 2 handles for better mobility
- 3 shelves- 1 which is height adjustable and tilts
- 1 fluid retention tray
- Dimensions adapted to SISE products
- Powder Coated finish

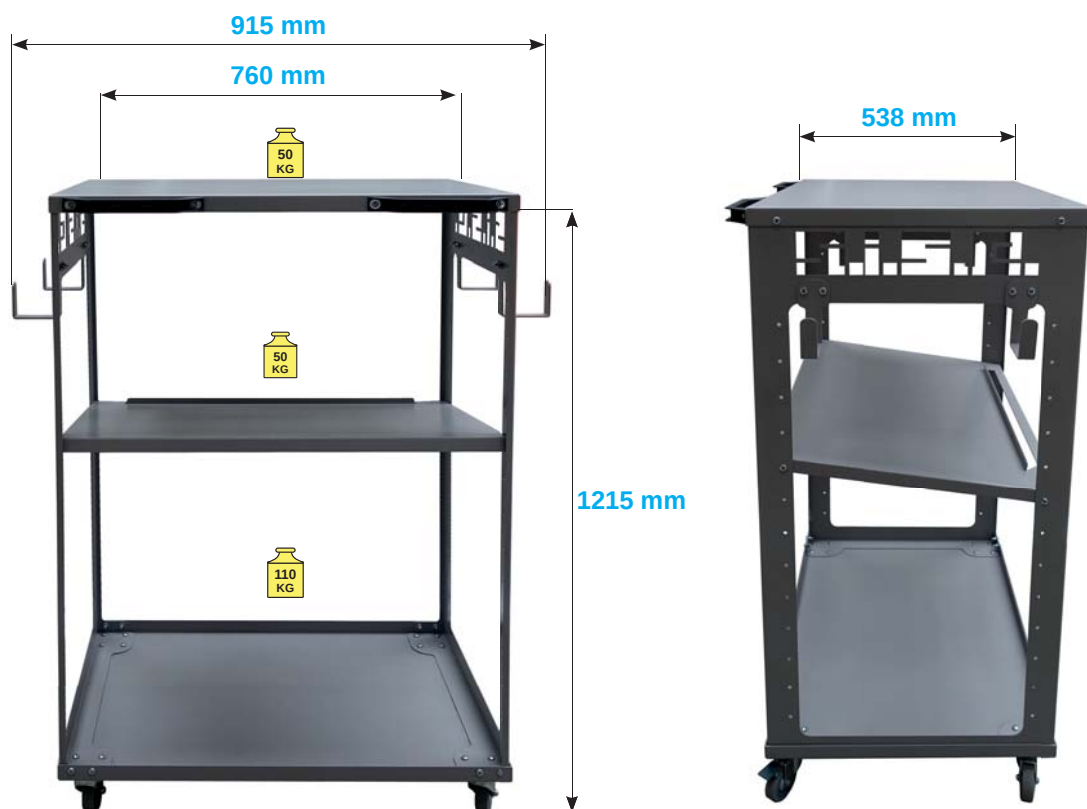
Cart to complete the SISE product line



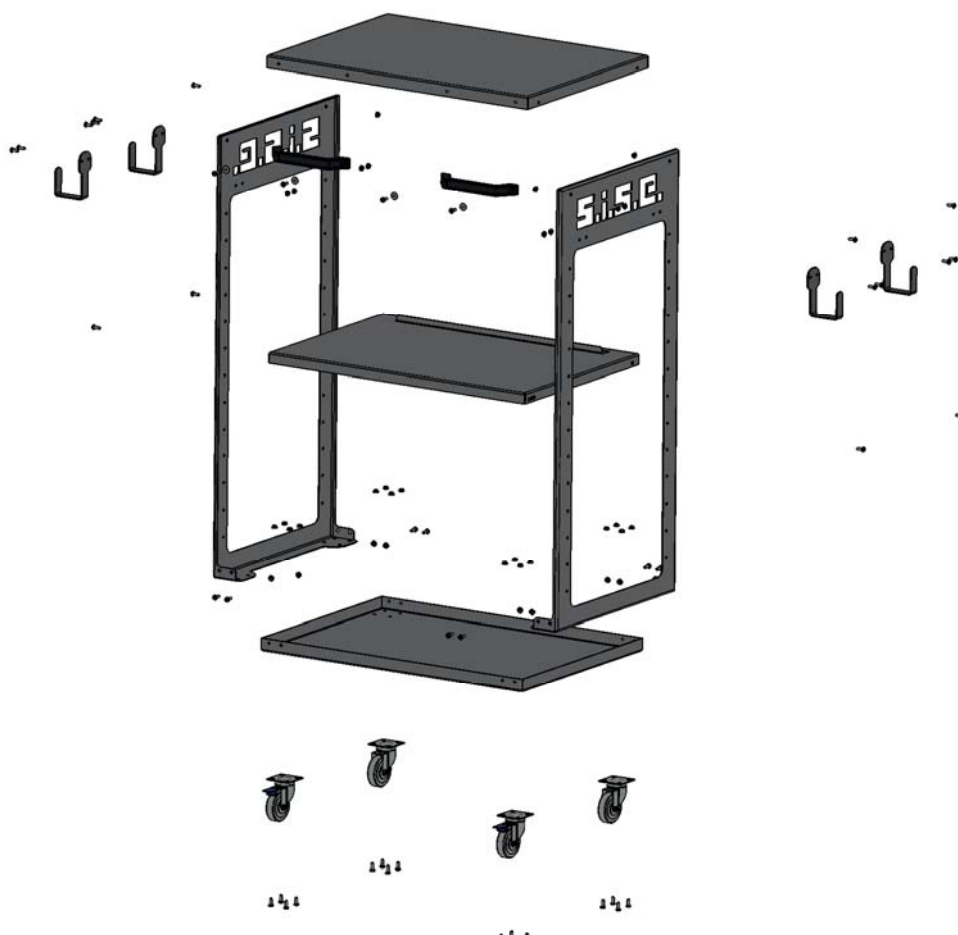
INDUSTRIAL PROCESS UNDER CONTROL

S.I.S.E.

DIMENSIONS



ASSEMBLY DRAWING





MOLD TEMPERATURE CONTROLS

SISE products conform to various applications



AUTOMOTIVE



PACKAGING



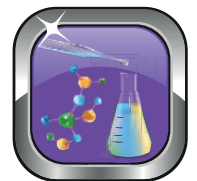
TECHNICAL



MEDICAL/PHARMA

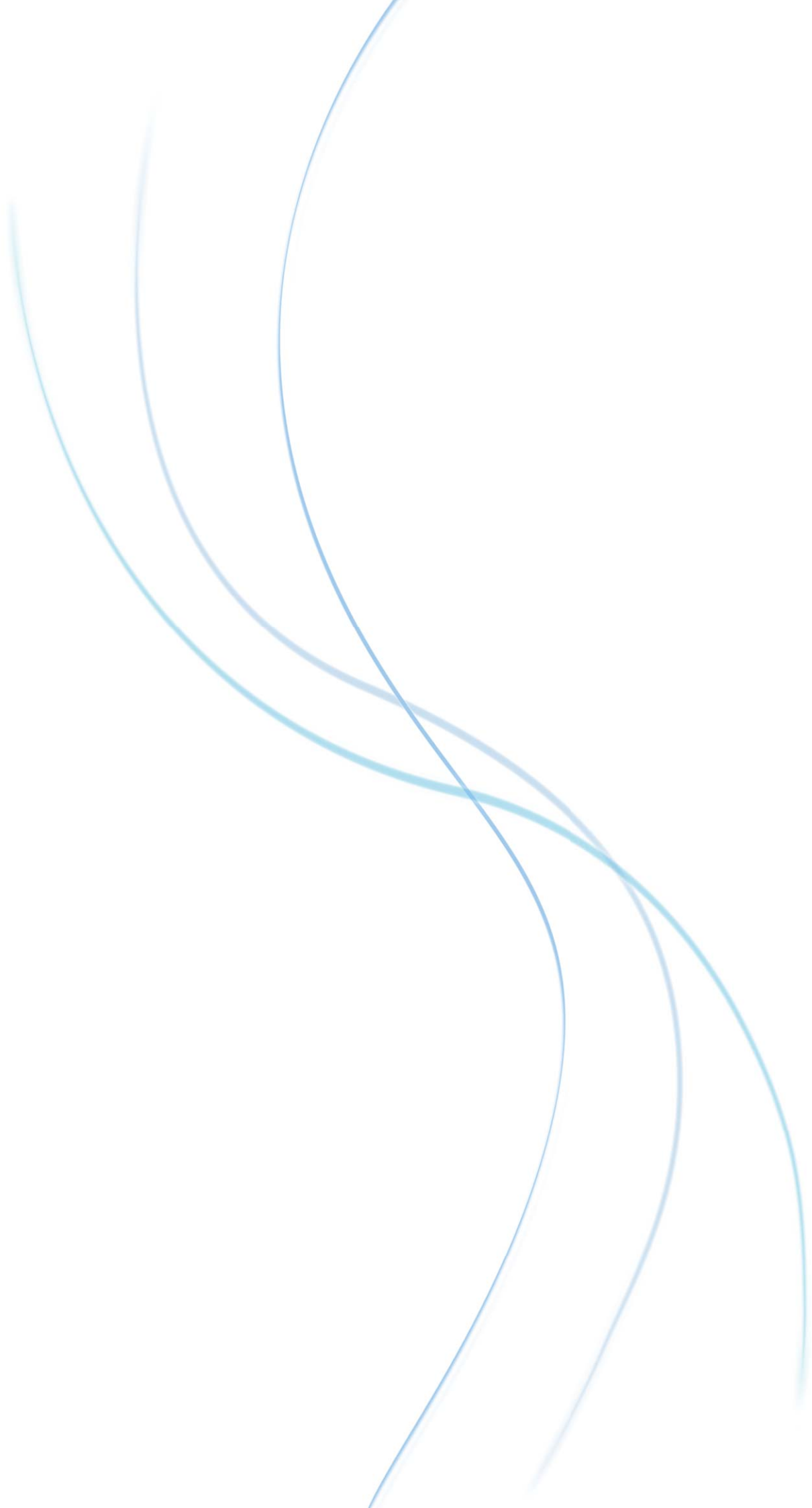


AEROTECHNICAL



PARACHEMISTRY





Water Temperature Controllers 90°C Type 95E 6/9 S4, 95E 6/18 IE, 95E 9/45E



INDUSTRY 4.0

The new 95E Water product line from SISE offers a large range of cooling capacity, in addition to heating power and flow.

The method of construction offers many possibilities due to various options. Adapted to all processes and tools, this new generation profits from SISE's experience for a large portion of market applications

SISE also manufactures for custom applications thanks to a competent team. Diverse projects throughout the world confirms know-how that is recognized in plastics and composites for close to 50 years !

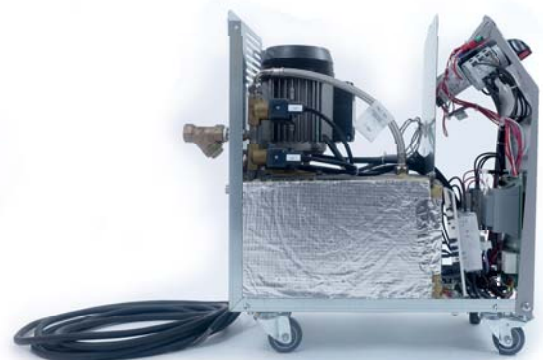


INDUSTRIAL PROCESS UNDER CONTROL



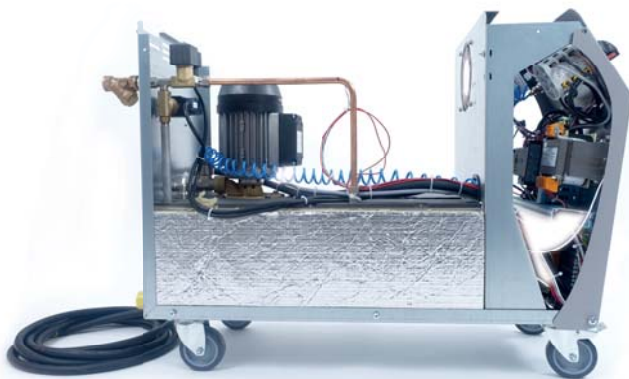
95E6-9S4

- The compact thermolators in the 95E Water product line were designed by SISE starting with quality components. In addition to optimal insulation, they are equipped with static relay, a submersible peripheral 60L/min pump, direct controller, high performing valves, and sieve filter. Available in 6 or 9 KW, they offer simplicity in the daily use. **2 year Warranty.**



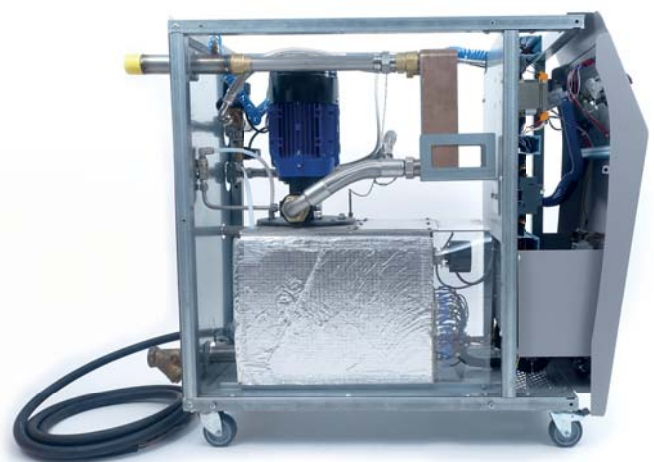
95E6-18IE3

- The thermolators in the 95E6-18IE product line offer a large number of options. They propose 2 types of submersible peripheral pumps 60 L/min and 70L/min. With a 16L larger tank volume, they respond to a various number of applications. Heating power goes from 6kW to 18 kW and cooling power available from 30kW to 100kW providing wide flexibility for use. With more than 15 options including reinforced cooling, machine communication (RS485 / TTY / Modbus / Profibus / SPI, ...), and flowmeter, the system is ideal for your workshops. **2 year Warranty.**



95E9-45E

- The new 95 E9-45E is a modular system with heating power from 9kW to 45kW, with 4 available pumps of 140 L/Min, 200 L/Min and 400 L/Min. Heat Plate exchangers of 60kW and 180kW help improve cycle time (cooling). The standard static relay results in more precise temperature control. The two heating stages available above 27kW adapt the heating time for their users, which can reduce electric consumption. With 34L tank, it is compatible with applications in injection molding, extrusion, blow molding, and calendering. Finally choosing 1st rate components is an advantage for these systems of added durability and quality for production. Accessibility and simple assembly provide for easy maintenance. **2 year Warranty.**



TECHNICAL FEATURES WATER TEMPERATURE CONTROLLER

MODEL	95E 6/9 S4			95E 6/9/12/15/18 IE3					95E 9/18/27/36/45 E				
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					
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

OPTIONS

MODEL	95E 6/9 S4	95E 6/9/12/15/18 IE3	95E 9/18/27/36/45 E
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PROCESS

Solid State Relays	●	●	●
Pressure gauge	○	●	●
Flowmeter	○	○	○
Manual Filling	○	○	○
Plate heat exchanger (kW)	60	60 or 100	100 or 180
Remote Temperature Sensor	-	○	○
Pseudo-Cascade Control	-	○	○
Manual / Automatic By-Pass	-	○	○
(Air Pressure) Mold Cleaning	-	○	○
Direct cooling	-	○	○

COMMUNICATION

Remote Alarm	○	○	●
Communication RS 485 / TTY / Modbus Profibus / SPI ...	○	○	○
Remote Set Point & Copy Process T°C	○	○	○
Remote Control	-	○	○

AUXILIARY EQUIPMENT

Manifold Multi - Inlets / Outlets	○	○	○
LED Alarm Tower	-	○	○

VARIOUS

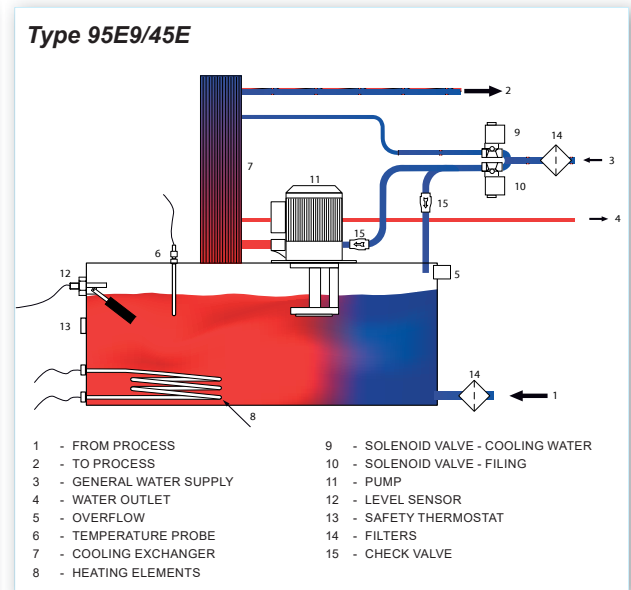
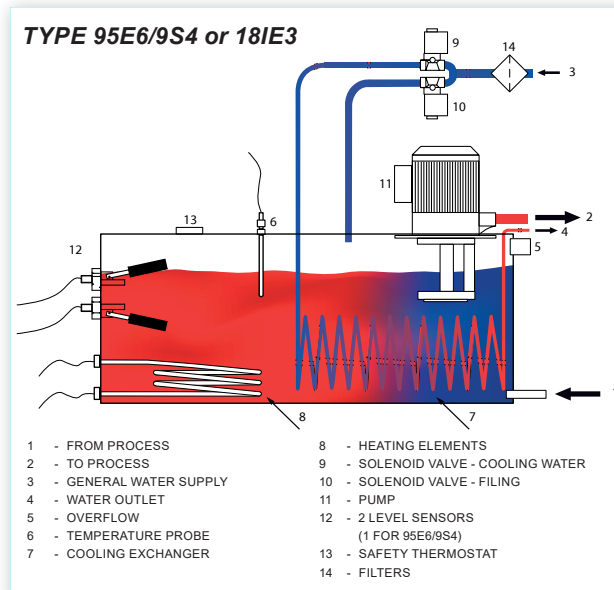
Lateral door color	○	○	○
230V/440V/480V - 3Ph. + T - 60Hz	-	○	○

● = Standard ○ = option - = not available

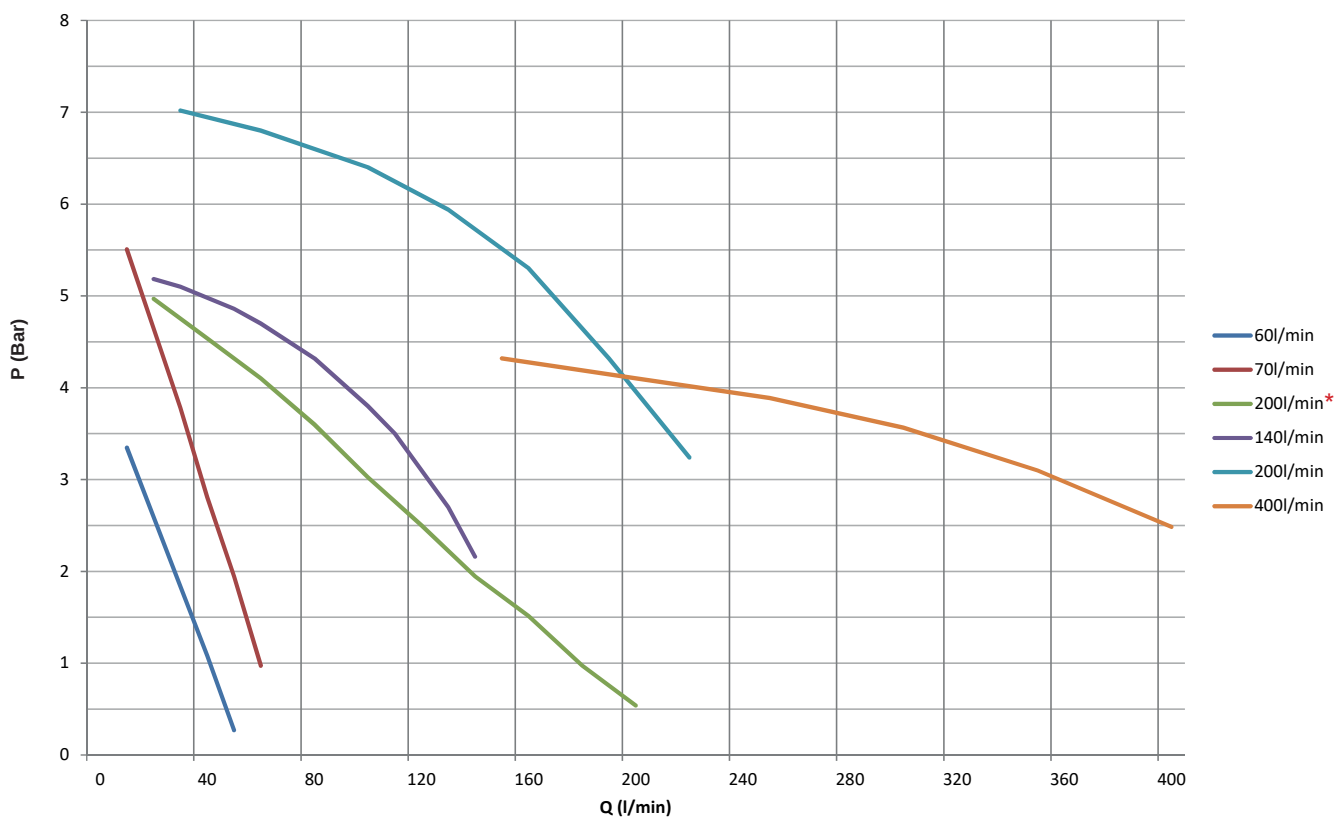




HYDRAULIC CIRCUIT :



PUMP PERFORMANCE :



* Peripheral submersible pump

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



Pressure Water temperature Controllers

Type 140E 6/12E, 140E 20/40/60E, 160E 6/12E, 180E 20/40P

New range !



The range of pressurized water controllers differentiates itself by its robustness with the integration of top performing components. This new generation bring simple daily use to the shop floor. These systems offer a wide range of options to repond to all high temperature applications in the market.

SISE proposes a detailed study of your projects on request. Custom applications are possible thanks to the know-how of our team.

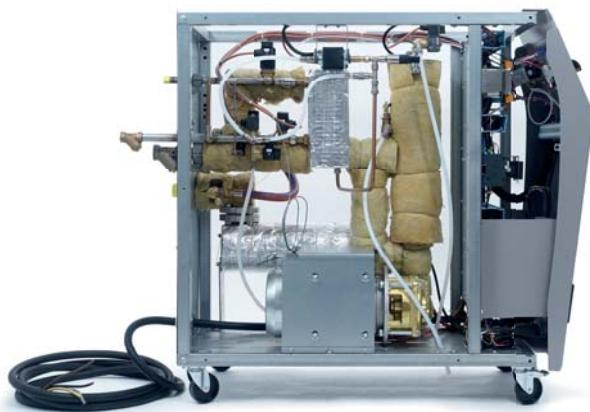
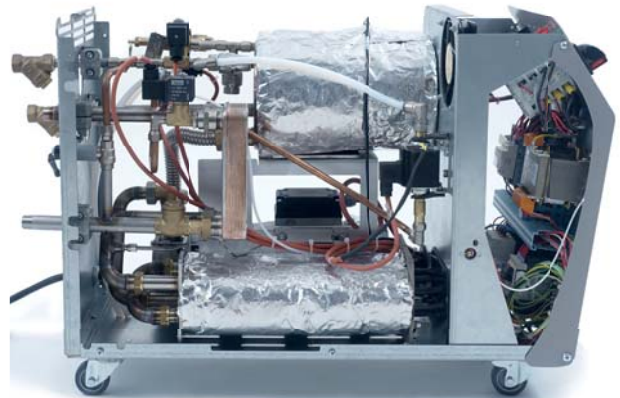


INDUSTRIAL PROCESS UNDER CONTROL



140/160E6-12E

- The new generation developed by SISE offers 2 systems from 140°C to 160°C. Heating power from 6 to 12 kW, with sealed peripheral or magnetically coupled 60 L/min pumps covers the entirety of markets applications. A booster pump comes standard on the 160°C is optional on the 140°C, for complementary water in the process without disturbing production. Equipped standard with a static relay and pressure gauge, they offer high precision temperature control, security and comfortable daily use. **2 year Warranty.**



140E20-40-60E

- The 140°C range, available in 20 kW, 40 kW or 60 kW heating power, responds to applicable norms for pressurized equipment. It can be connected to large tools, notably for automotive applications, but also for chemistry and calendering. Its modular construction and robust components create a solid range that provides for easy maintenance. In addition to a number of important available options, it offers 3 pump types from 85 L/Min to 200 L/Min, and a pressure gauge comes standard. **2 year Warranty.**

180E20-40-60P

- This new generation of 180°C pressurized water temperature controllers was completely revamped, going from 20 to 60 kW heating power and up to 180 kW for cooling power. A new 90 L/min mechanically coupled pump and the integration of a new anti-tarter cooling system guarantee consistent operation and quality production. SISE has put emphasis on the new convivial and programmable colour touchscreen (possible to create a heating and cooling profile) with clear display of various alarms. The user is warned in real time of errors during production. **2 year Warranty.**



The ensemble of SISE pressurized water temperature controllers meet the directive of pressurized equipment (DESP)



TECHNICAL FEATURES WATER TEMPERATURE CONTROLLER

MODEL	140E 6/12 E			140E 20/40/60 E			160 6/12 E		180E 20/40/60 P		
Maximum Temperature °C	140						160		180		
Heating Capacity (kW)	6	12	20	40	60	6	12	20	40	60	
Heating Stages	1			2		1			2		
Pump Type	Sealed Peripheral		Peripheral with magnetic coupling								
Maximum Flow L/Min	60		85 - 150 - 200			60		85 - 150 - 200			
Maximum Pressure (bar)	6		7 - 7,5 - 8,5			6		7 - 7,5 - 8,5			
Cooling Technology	Heat Plate exchanger										
Cooling Power (kW) (Water 10°C - Maximum Process Temperature)	60		70			65		90			
Suction Mode (70°C max / Anti-Leak)	Oui		Non			Oui		Non			
Filling	Automatic					Automatic with booster pump					
Filling Volume	3,5	4	7,5	10	12,5	3,5	4	7,5	10	12,5	
Expansion Volume	2,5		2,5			2,5		Décharge automatique			
Process inlet / outlet	1½"		1"			1½"		1"			
Control and Regulation	MicroP - Self-Tuning							Automate / Touchscreen			
Voltage	400V-3Ph. + T - 50Hz										
Dimensions (mm) :											
Depth	840		1150			840		1150			
Width	330		446			330		446			
Height	540		976			540		976			
Weight kg (empty)	55 à 60		170 à 180			57 à 62		170 à 180			

OPTIONS

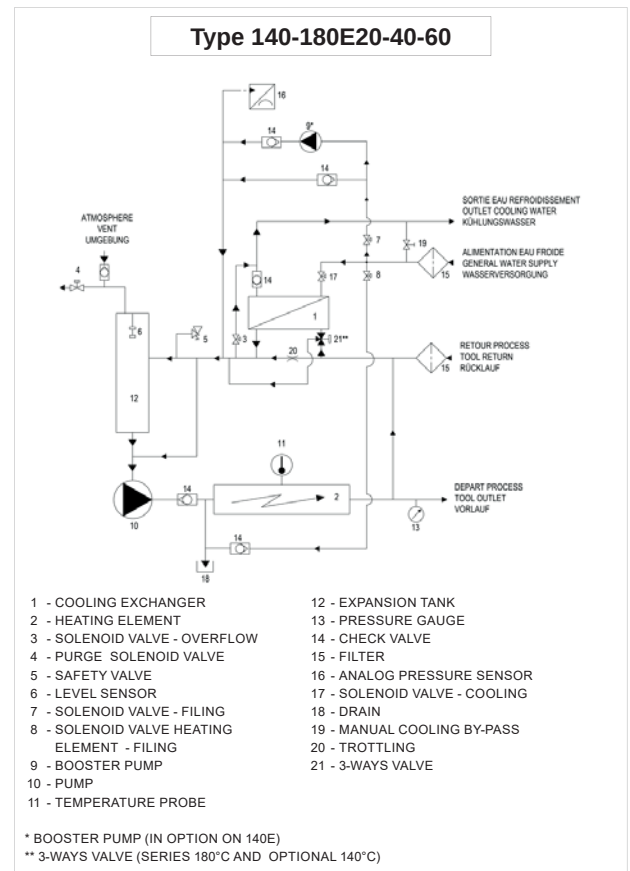
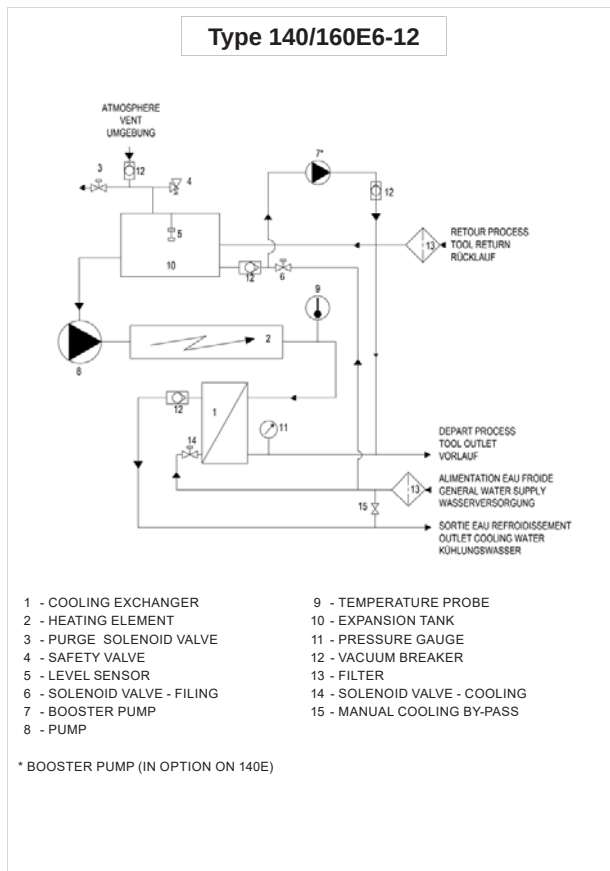
MODEL	140E 6/12 E	140E 20/40/60 E	160 6/12 E	180E 20/40 P
PROCESS				
Pressure gauge	●	●	●	●
Booster Pump	○	○	●	●
Solid State Relays	●	○	●	-
3-way valve "anti-fouling system"	○	○	○	●
Remote Temperature Sensor	○	○	○	○
Flowmeter	○	○	○	○
Pseudo-Cascade Control	○	○	○	○
(Air Pressure) Mold Cleaning	○	-	○	-
Programmable cycle	-	-	-	○
Security stop procedure	-	-	-	○
COMMUNICATION				
Remote Alarm	○	○	○	○
Remote Set Point & Copy Process T°C	○	○	○	○
"Communication RS 485 / TTY / Modbus Profibus / SPI..."	○	○	○	○
Remote Control	○	○	○	○
AUXILIARY EQUIPMENT				
Manifold Multi - Inlets / Outlets	○	○	○	○
LED Alarm Tower	○	○	○	○
VARIOUS				
Lateral door color	○	○	○	○
230V/440V/480V - 3Ph. + T - 60Hz	○	○	○	○

● = Standard ○ = Option - = not available

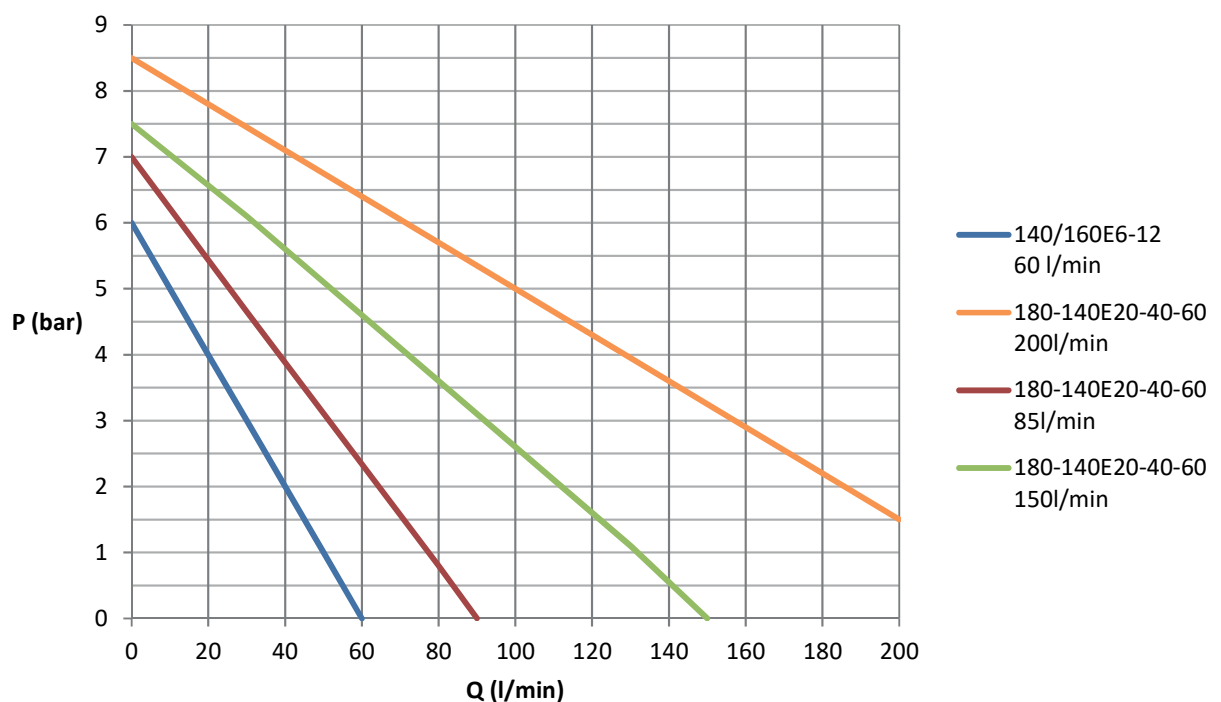




HYDRAULIC CIRCUIT :



PUMP PERFORMANCE :



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



Oil Temperature Controllers

Type 180 H 9 I - 210 H 6/12 -

210 H 9/18/24 - ZH - XH



SISE offers one of the biggest lines on the market for Oil applications, with heating power ranging from 6 to 200 kW for temperature up to 350°C

SISE also builds skids to customer specifications, and is one of the world's leaders in Very High Temperature and Very High Pressure TPC type applications (Tubes heated by Passage of Current)





INDUSTRIAL PROCESS UNDER CONTROL



HIGH TEMPERATURE OIL APPLICATIONS

Thanks to the joint experience of SISE and PARMILLEUX (acquired in 2003), our oil mold temperature controllers (180/210/250/300/350°C), developed and built by SISE, fully comply with safety rules & regulations. These mold temperature controllers ensure high-quality control in all high temperature applications requiring up to 200 kW of heating power (large molds, double-layered tanks, calendering, heating plates, fast soft start, and process control for chemical, petrochemical & pharmaceutical applications...) as well as custom monitoring of temperature conditions.

All components are carefully selected for their performance, sturdiness and reliability in high temperature applications.



XH 20

SISE carefully designed these products to allow for simple set-up (easy pipes purging) and ensure accessibility and maintenance for all major components. The standard XH and XH expansion tanks are designed for high volume circuits.



210H 12

Depending on models, horizontal boilers (model 210 H) or vertical boilers (Models XH & ZH) have the ability to change the heating elements without draining the circuit.



The low load density per cm² of elements reduces oil cracking problems and limits purges, all for an optimized investment. These mold temperature controllers are equipped with pumps covering a wide array of throughputs (Salmson, Allweiler or Speck with magnetic coupling). This ensures a small temperature gap between the incoming and outgoing oil.



Solid State Relays

This option allows for more precise control and a prolonged life when compared to a standard relay.



anti-thermosyphon spiral tube

For the 250°C and above models, an anti-thermosyphon spiral tube in the expansion tank is used to keep air-exposed oil at low temperature (no oxydation and no smoke).



OIL MOLD TEMPERATURE CONTROLLERS : TECHNICAL CHARACTERISTICS

MODEL	180H 9I	210H 6/9/12	210H 9/18/24	ZH 18	ZH 30	ZH 45	ZH 60	ZH 75	XH 6	XH 10	XH 20	XH 30	XH 40	XH 50/60/75	XH 100	XH 200
Maximum Temperature °C	180	210	210	210	210	210	210	210	300	300	300	300	300	300	300	300
Heating capacity kW	9	6/9/12	9/18/21	18	30	45	60	75	6,5	13	21,6	32,4	43,2	54/64,8/75,6	108	216
Heating Stages	1	1	1	1	2	2	2	3	1	1	2	3	3	3	4	4
Flow L/Min (Max)	60	60	60/100	215	215	215	800	917	180	215	215	215	800	917	1250	1250
Pressure Max (Bar)	3,5	5	6,5	3	3	3	2,6	2,8	1,4	3	3	3	2,6	2,8	2,8	2,8
Oil Volume (L)	16	13	14	30	80	80	85	95	30	30	80	80	85	95	160	275
Expansion Volume (L)	4	6	18	30	40	40	40	92	30	30	40	40	40	92	200	310
Process inlet / outlet	½"	¾"	1"	1"	1"	1"	DN50	DN50	1"	1"	1"	1"	DN50	DN50	DN65	DN65
Dimensions (mm) : Depth Width Height	820 330 550	830 330 560	975 430 860	850 625 1080	900 710 1550	900 710 1550	1020 760 1550	1180 950 1650	850 625 1080	850 625 1080	900 710 1550	900 710 1550	1020 760 1550	1180 950 1650	1450 1200 1775	1450 1300 1825
Weight kg (empty)	≈57	≈81	≈115	≈180	≈300	≈320	≈430	≈480	≈175	≈180	≈300	≈320	≈430	≈480/510/540	≈900	≈1250

OPTIONS

MODEL	180H 9I	210H 6/9/12	210H 9/18/24	ZH 18	ZH 30	ZH 45	ZH 60	ZH 75	XH 6	XH 10	XH 20	XH 30	XH 40	XH 50/60/75	XH 100	XH 200
Cooling capacity kW	42	45	160	●	●	●	●	●	●	●	●	●	●	●	●	●
Pressure gauge	Standard			●	●	●	●	●	●	●	●	●	●	●	●	●
Remote Temperature Sensor / Remote Alarm	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Manifold Multi - Inlets / Outlets	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Flange connection	●	●	●	●	●	●	Standard		●	●	●	●	Standard			
Exchanger	Standard			●	●	●	●	●	●	●	●	●	●	●	●	●
Communication RS 485 / TTY / Modbus / Profibus / SPI	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Flowmeter	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3-way valve (anti-fouling system)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Solid State Relays	Standard															
Remote control heating / cooling	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Option 250°C	○	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○
Option 350°C	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●

● = option ○ = not available

CUSTOM PRODUCTION UPON REQUEST :



3 channel valve on cooling circuit



XH200



Skids

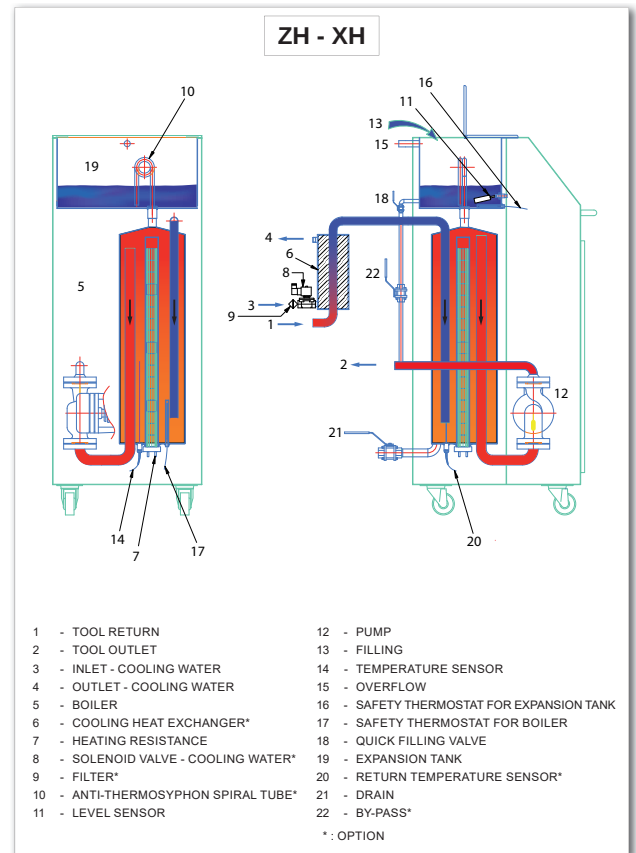
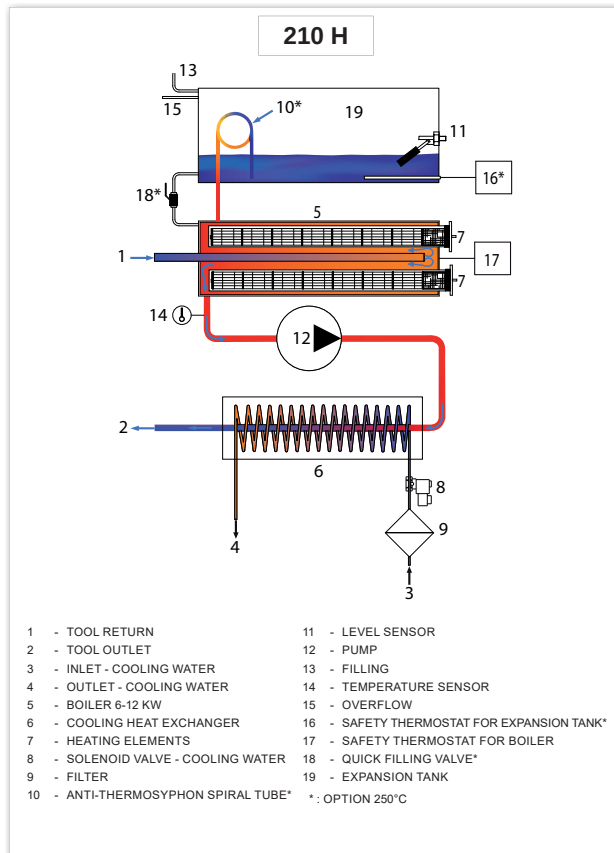


TPC

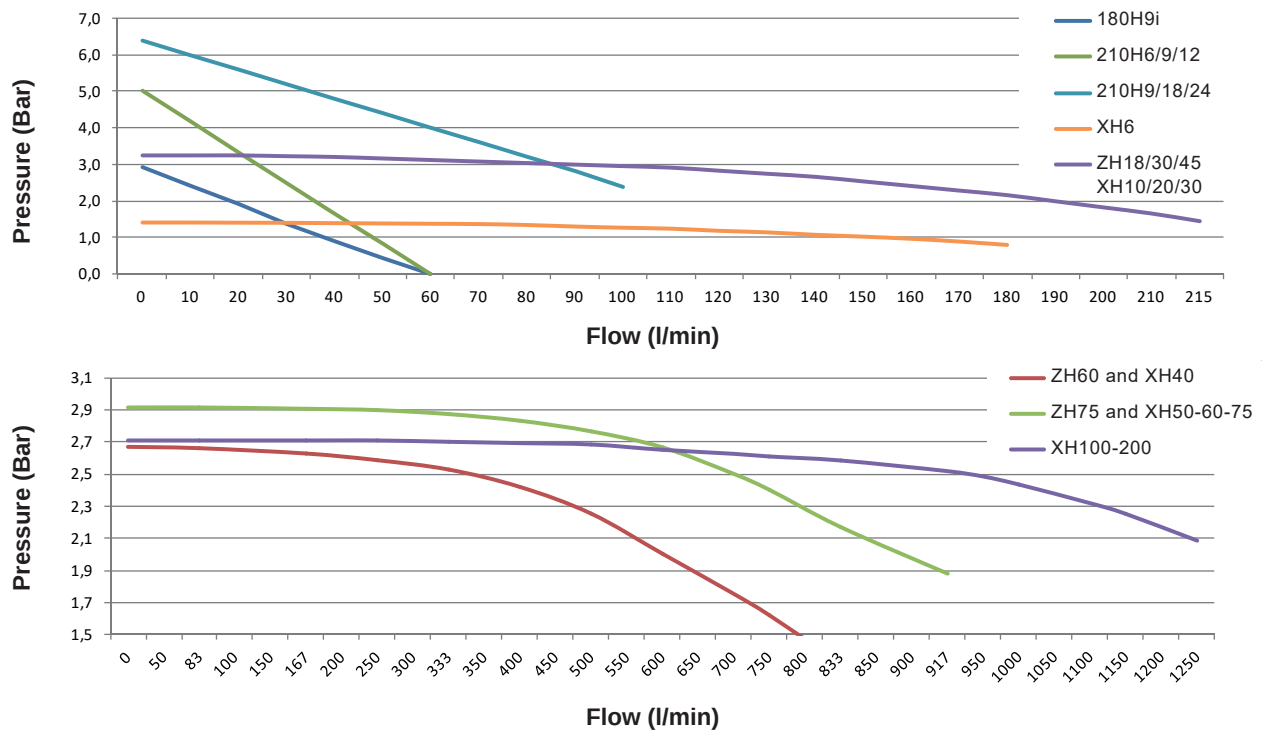




HYDRAULIC CIRCUITS :



PUMP CURVES :



SISE can come visit you for training, installation or after-sales support





VALVE GATE CONTROLS

SISE products conform to various applications



AUTOMOTIVE



PACKAGING



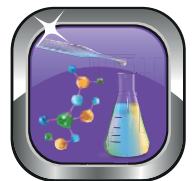
TECHNICAL



MEDICAL/PHARMA

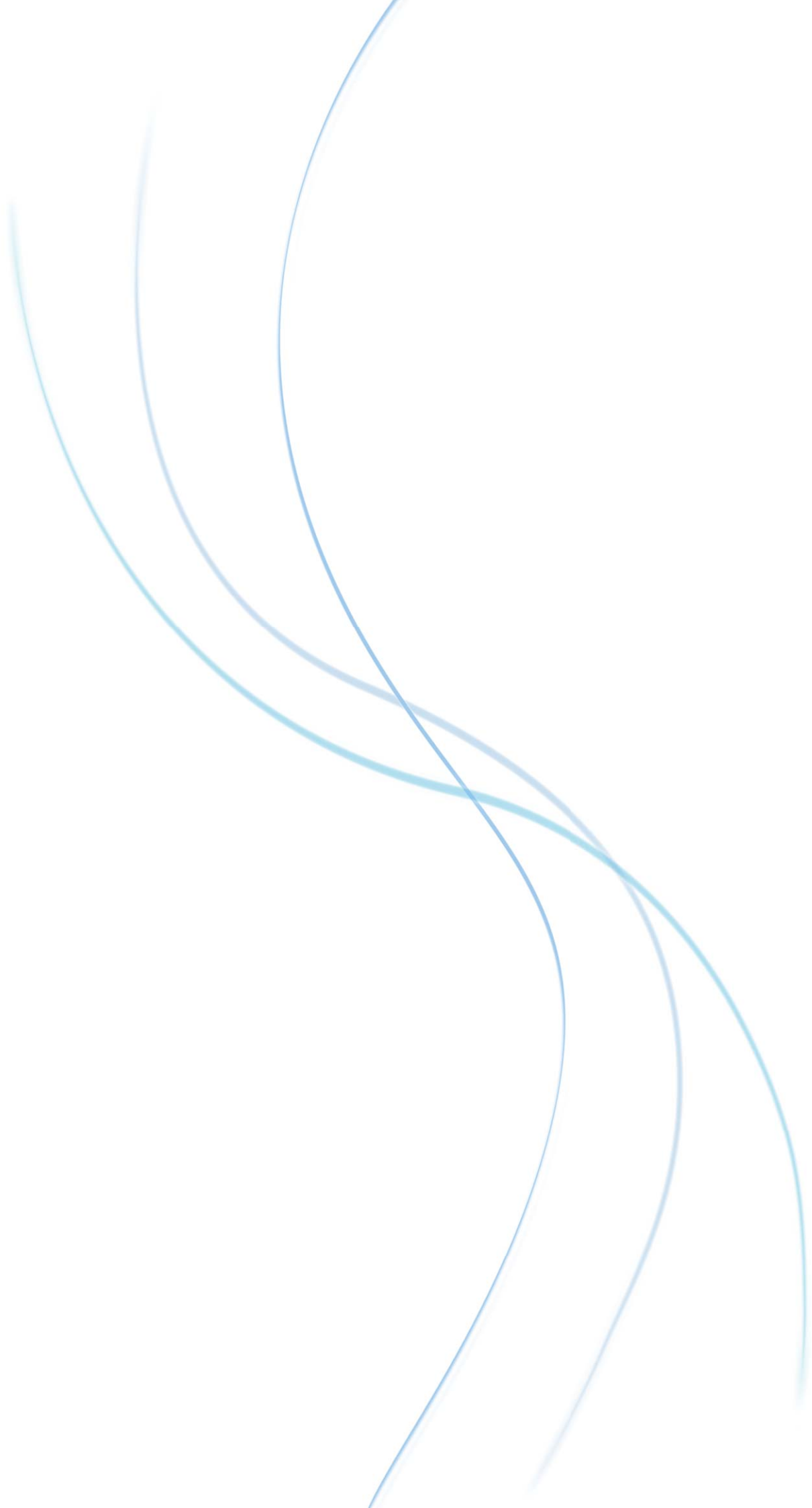


AEROTECHNICAL



PARACHEMISTRY





Sequential Valve Gate Control

New generation GC !

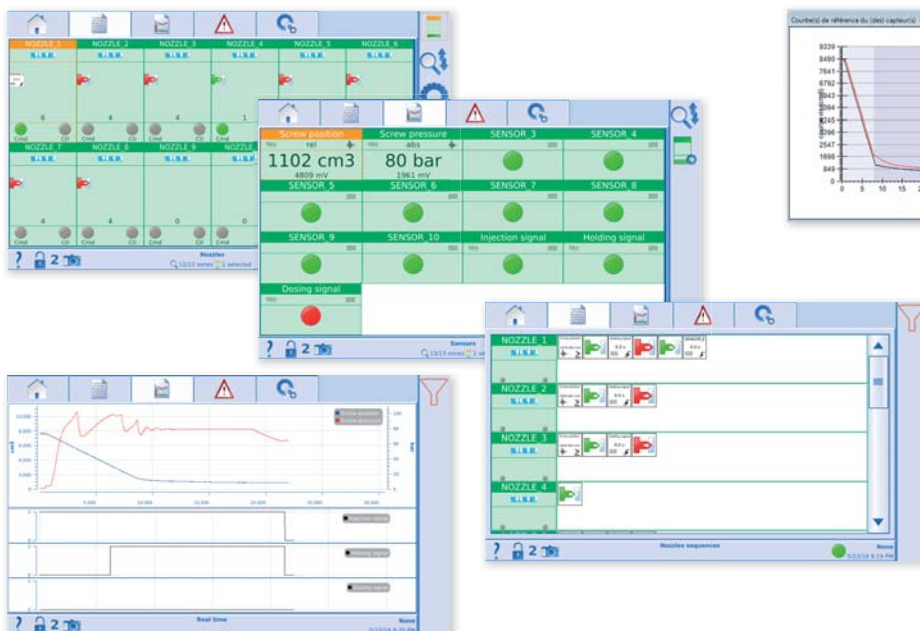
INDUSTRY 4.0



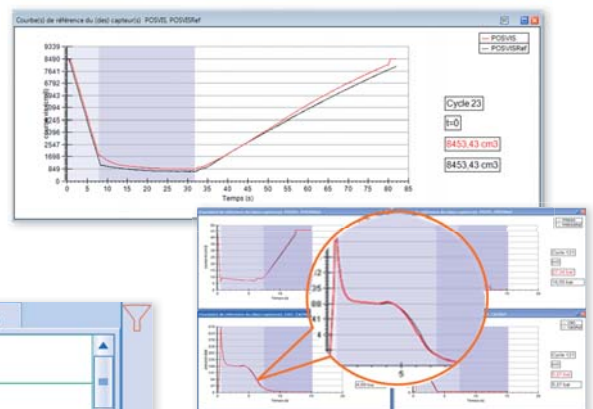
The new GC product line is specially designed for sequential valve gate control and Industry 4.0. In addition to standard control, SISE has given these controllers new acquisition features (SPC) to measure process performance and drift, using indicators with mono or multivariate management of machine signals & mold sensors.

This new product line offers traceability of the process, and can save or send data to various users via the OPC UA protocol.

GC SOFTWARE :



WIN IS'PSP SOFTWARE :





INDUSTRIAL PROCESS UNDER CONTROL



TECHNICAL SPECIFICATIONS	IS'TIMER	GC'ACCESS	GC'TECH
Dimensions - H x W x L (mm)	208x216x310	400x303x341	556x303x341
Colour Touchscreen	LCD	7"	10"
Display Pdf Files	No	Yes	Yes
Download program files by USB stick	No	Yes	Yes
Number of gates single solenoid (spring return)	8 - 16	6 - 12 - 18	6 - 12 - 18 - 24 - 30 - 36
Number of gates dual solenoid	No	6 - 12 - 18	6 - 12 - 18 - 24 - 30
Openings/Closings per cycle per gate	2	2	10
Multilingual	Yes	Yes	Yes
Max. number of mould files	24	Unlimited	Unlimited
Mold Recognition (available in 2021)	No	No	Yes
Process monitoring	No	Yes	Yes
Machine Signals	2	6	8
Number of mold signals	0	0	10
Machine safety management	Yes	Yes	Yes

PROGRAMMING	IS'TIMER	GC'ACCESS	GC'TECH
Injection Signal	Yes	Yes	Yes
Hold Signal	Yes	Yes	Yes
Dosing Start	No	No	Yes
Screw Position in mm, cm ³ / in, in ³	No	Yes	Yes
Injection Pressure	No	Yes	Yes
Switchover control	No	No	Yes
Scrap detection	No	Yes	Yes
Max. Mold Pressure Sensors	No	No	8
Max. Mold Temperature Sensors	No	No	2
Graphical display of sensor signals in real-time	No	Yes	Yes
Individual valve pin testing in manual mode	Yes	Yes	Yes

OPTIONS	IS'TIMER	GC'ACCESS	GC'TECH
Multi-material management (available begin 2021)	No	No	Yes
Double solenoid management	No	Option	Yes
Control by limit switch	No	6 - 12	6 - 12 - 18 - 24
VNC link to Press or remote monitor	No	Yes	Yes

PARAMETERS AND TRACEABILITY 4.0	IS'TIMER	GC'ACCESS	GC'TECH
Displays Cycle Time	No	No	Yes
Cycle counter	No	Yes	Yes
Manage Files (unlimited creating/saving)	No	Yes	Yes
Scrap detection (SDP, SPC)	No	Yes	Yes
Create and Calculate Performance Indicators	No	No	Yes
Switchover setting	No	No	Yes
Traceability by saving acquisition sessions (available end 2021)	No	No	Cabinet / Software
Export Data from saved sessions (available end 2021)	No	No	Cabinet / Software
Labels management (available end 2021)	No	No	Cabinet / Software
Connect with MES system - OPCUA (available end 2021)	No	No	Yes

GC-Tech Views :



Auxiliary Equipment :

Hydraulic Power Pack, Manifolds,...





PRODUCTION & PROCESS MONITORING

SISE products conform to various applications



AUTOMOTIVE



PACKAGING



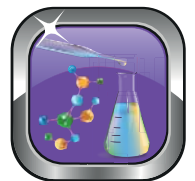
TECHNICAL



MEDICAL/PHARMA

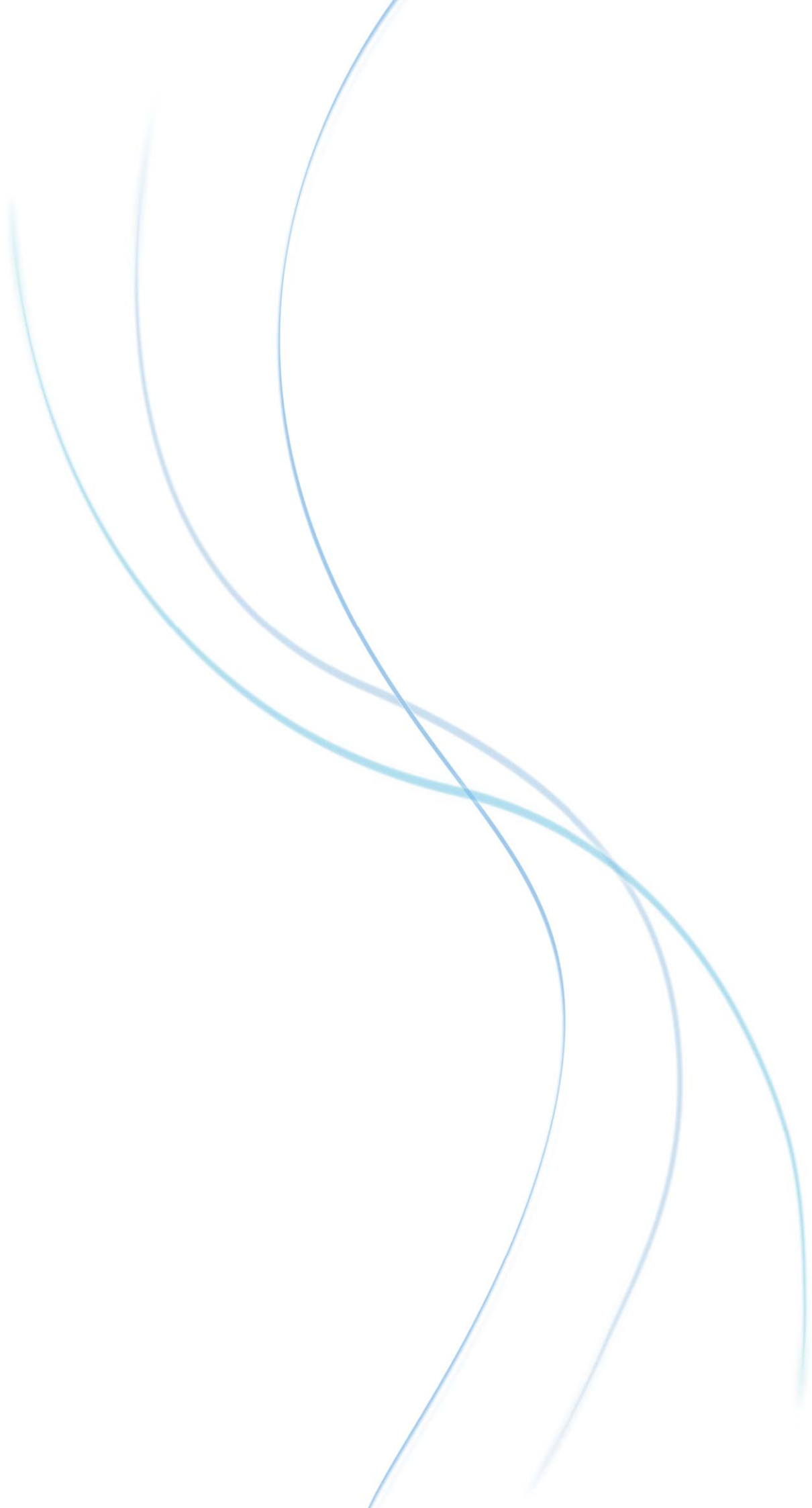


AEROTECHNICAL



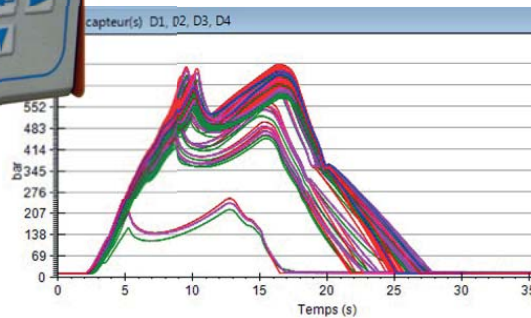
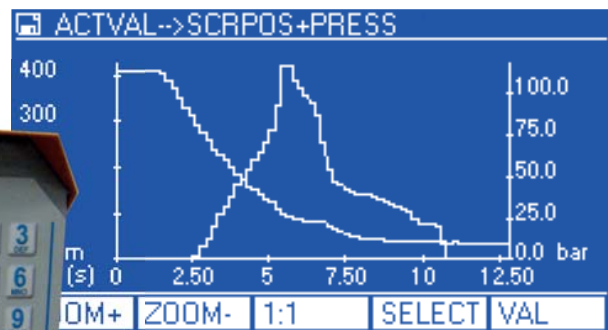
PARACHEMISTRY





Easy-PSP Data Acquisition System

easy
PSP



*"Plastics Technology
should be about measurement,
not guesswork..."*

**The new multilingual Easy-PSP Data Acquisition System
is the fruit of all SISE experience
in the domain of management datas
and their traceability in plastics**

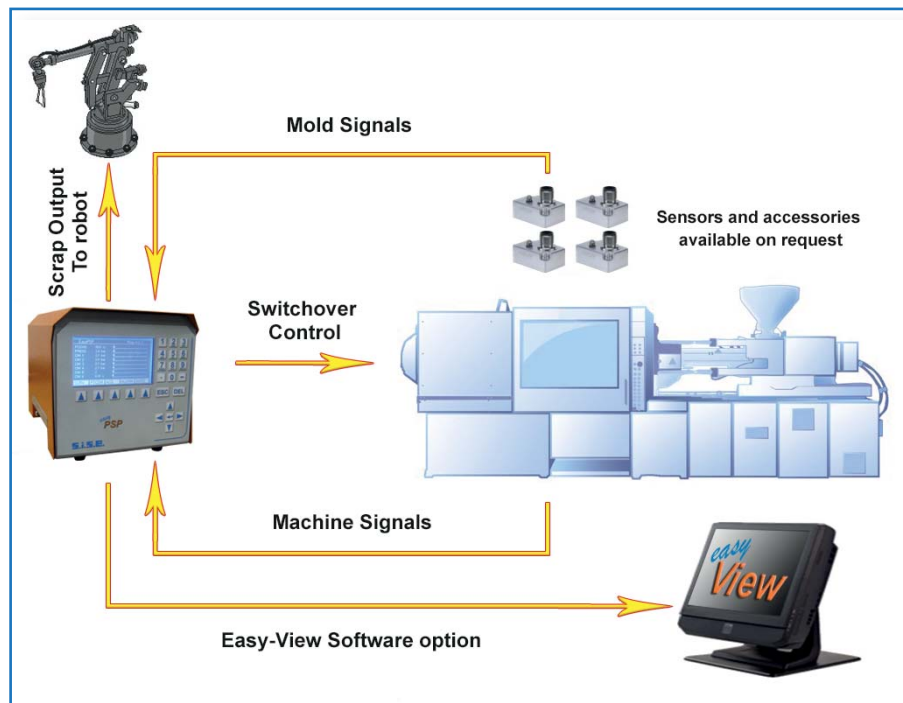


INDUSTRIAL PROCESS UNDER CONTROL



DESCRIPTION :

- Compact System with blue LCD screen
- Simple multilingual interface
- 230V single phase power supply
- 8 analog gates 0-10 V of which:
 - ✓ 2 machine inputs (screw position, injection pressure)
 - ✓ 6 free inputs for machine and/or mold, including mold pressure sensor, cavity temperature, thermal flux
- Information by dry contact output toward robot interface
- Switchover Output to press by dry contact
- Log displays the last 500 alarms
- Autonomous system
- Optional "Easy-View" computer software with USB link



EASY-PSP ADVANTAGE:

- Training on data collection
- Process confirmation
- Switchover Control by machine and/or mold signals
- Incomplete part detection by direct or indirect mold pressure measurements
- Control and analysis of custom machines in production
- Collect data for traceability
- Follow Process Indicators
- Autonomous System with a log of the last 500 process alarms



STANDARD INTERFACE LCD :

SWOVR->MOLD

PRESS1	ON	220.0 bar
PRESS2		
EANA3		
EANA4		
MAC		

Switchover Screen

File Management Screen

Acquisition Screen

EASY-VIEW SOFTWARE (OPTION) :

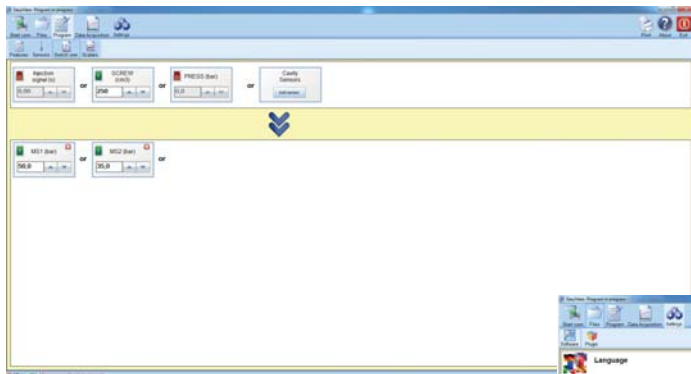
Acquisition Screen

Calibration Screen

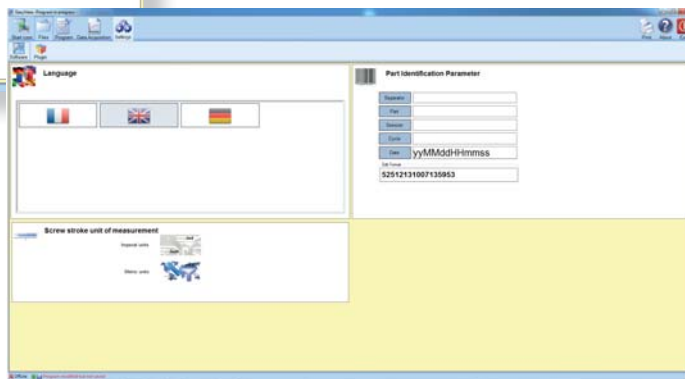
Indicators Screen



INDUSTRIAL PROCESS UNDER CONTROL



Switchover Screen



Settings Screen

- Easy-PSP is fully configured
calibration of sensors, switchover, choice of indicators,...)
- Create saved sessions
- Saving system data in a database
- Save data in XML files
- View curves by superposing data
- Indicator Analysis calculated over several cycles
- Manage reference cycles

SISE ALSO OFFERS :

- ✓ Consultation to better define your needs and find a solution
- ✓ A complete line of mold sensors (direct or indirect), with their conditioners/amplifiers
- ✓ Machine sensors in complement to existing signals, (measure screw position, injection pressure,...)
- ✓ Assistance with installation and training in France and around the world !



Cyclades M.E.S

Cyclades Easy

***Remove barriers
and offer a true vision
of Production !***



***SISE-designed multilingual "Cyclades MES"
is the ideal tool for small local businesses
as well as for large international groups.***

***For over 50 years, SISE has aided industrial companies
by supplying them with innovative solutions***



INDUSTRIAL PROCESS UNDER CONTROL

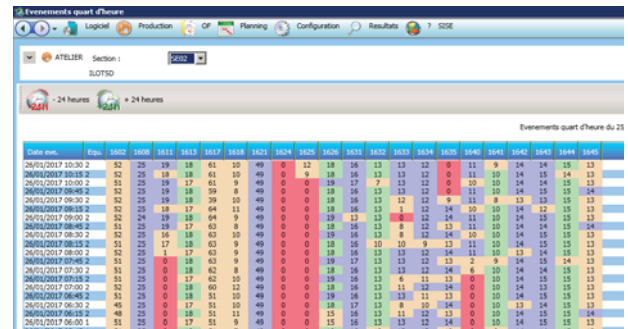


HOME SCREEN

- With a glance, view all means of production on one screen
- Personalized displays and configurable automatic alerts (scrap rates, plugged cavity)

QUARTER HOUR SCREEN

- Analyze recent history to shine a light on production risks
- Consult all event details which happened over time (machine downtimes, good part input)

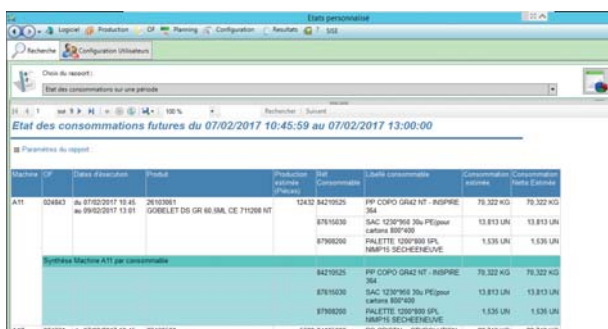
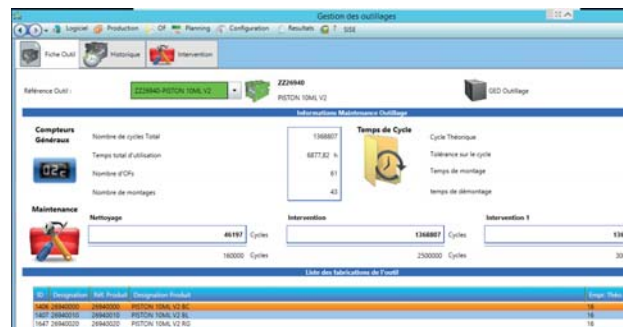


REAL-TIME PLANNING

- Interactive view of workload on you means of production in real-time
- Split and adjust production orders, keeping in mind real constraints (mold changes, delays, deadlines, and work load)

MAINTENANCE

- Follow the life-cycle of your molds and machines, anticipate and trace maintenance operations
- Configurable thresholds and alerts (visual alerts on Cyclades, on terminals, automatic emails...)

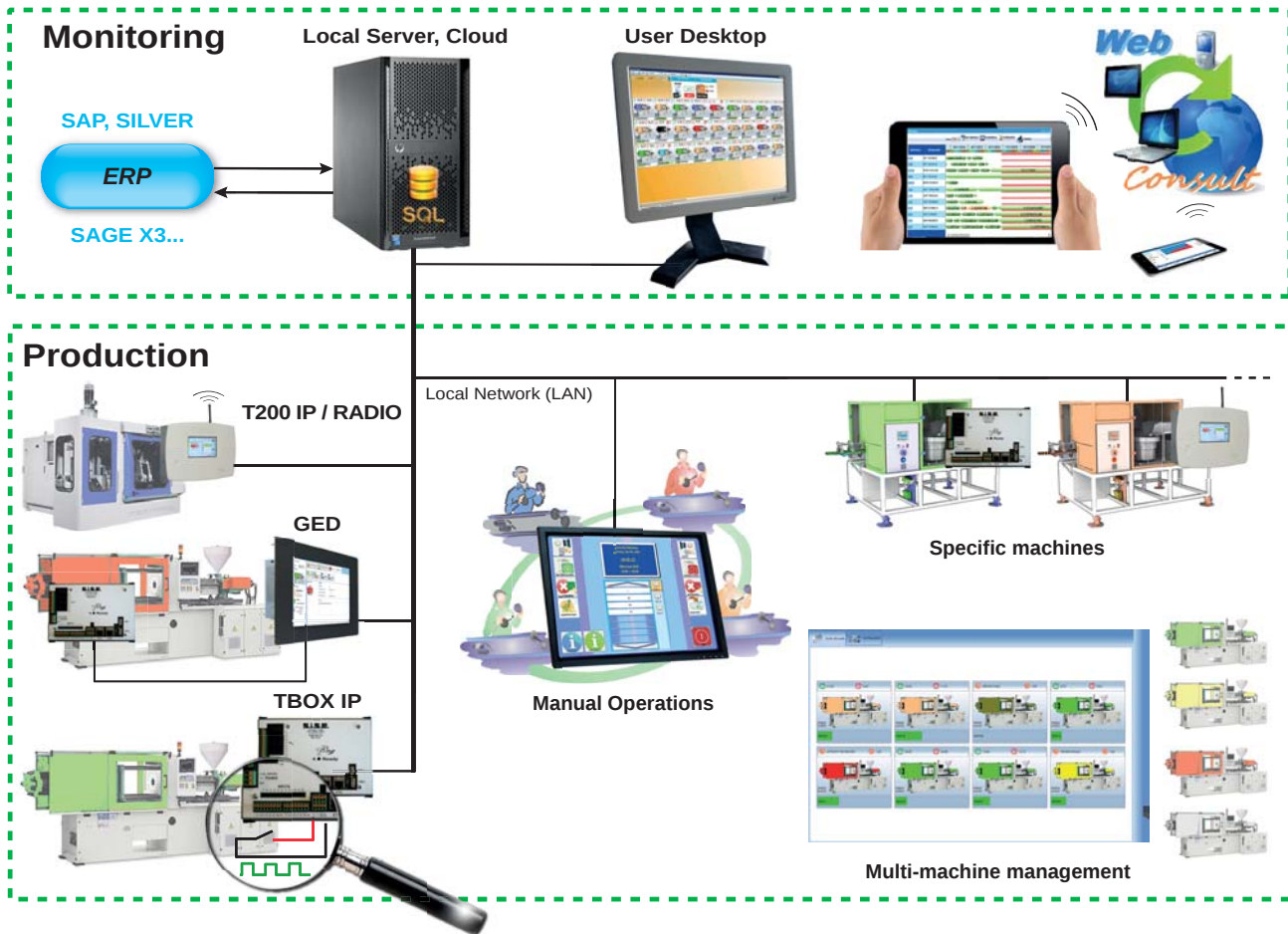


PRODUCTION REPORTS

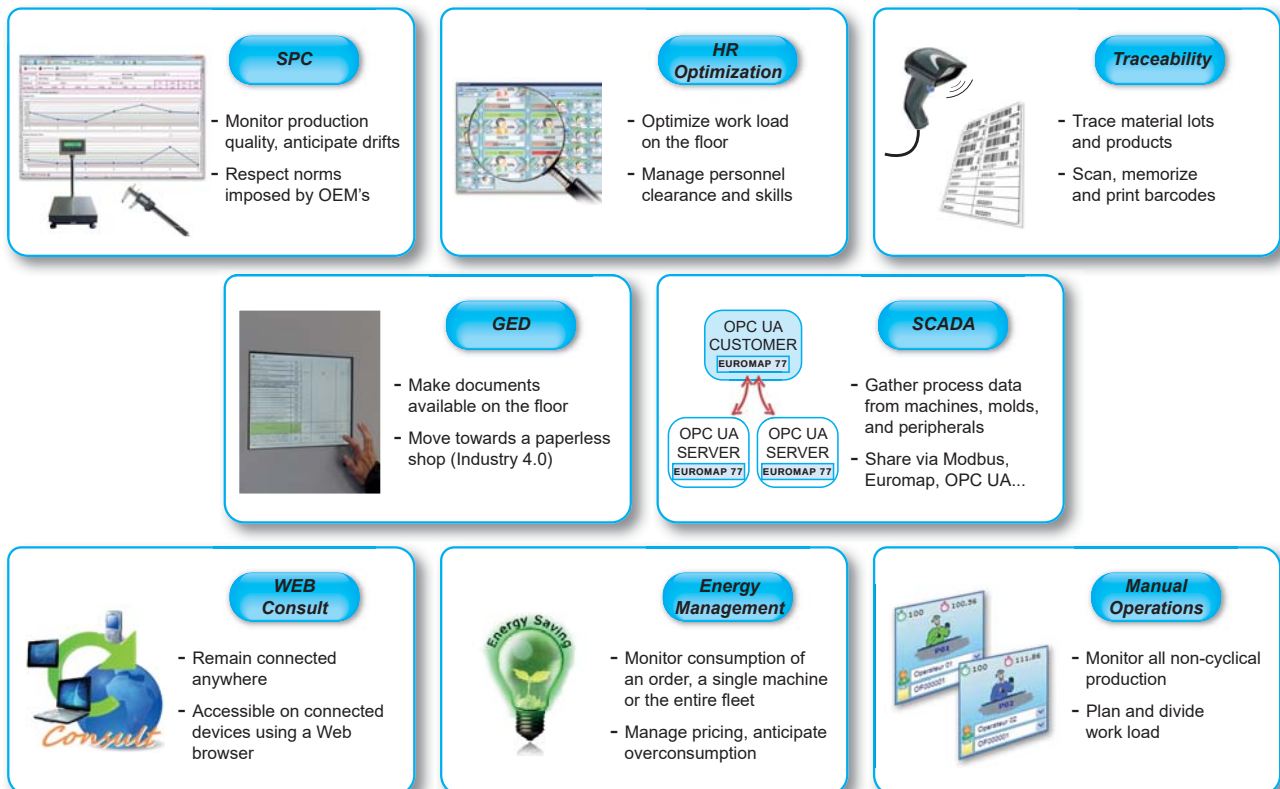
- Generate production reports for shifts, machines, products, molds...
- Anticipate needs (material consumption, upcoming maintenance operations)
- Build your own reports using our report database



ARCHITECTURE

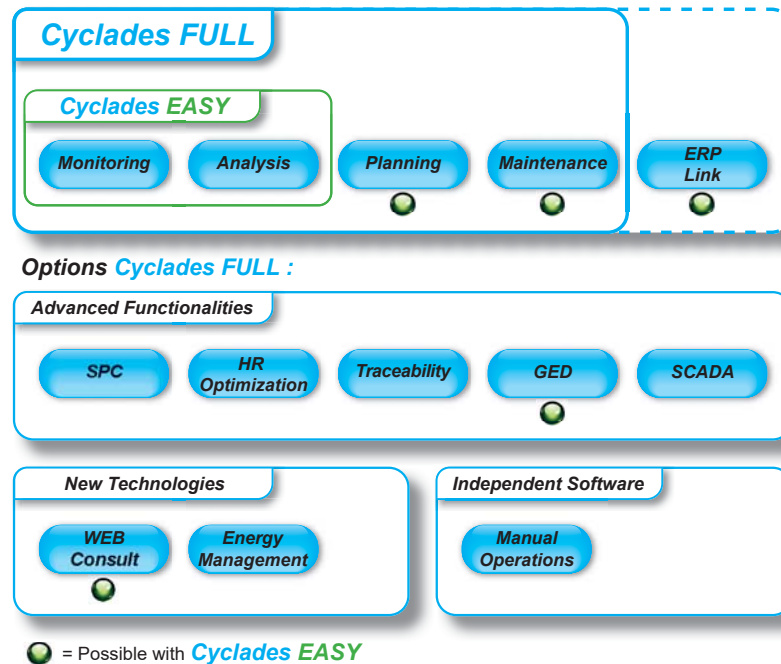


AVAILABLE MODULES





CYCLADES MES CONFIGURATION :



GUARANTEE OF A DURABLE SOLUTION

- Cyclades, a dedicated and experienced team for over 20 years, anticipating tomorrow's trends, evolving the product, offering their advice and expertise every day.

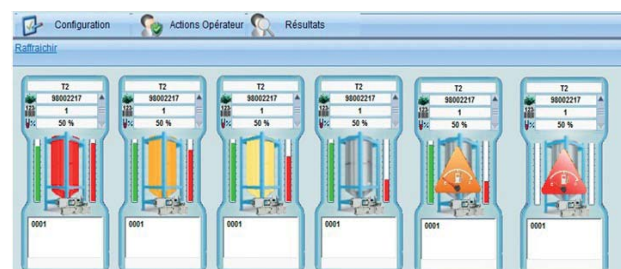
SUPPORT AND SERVICES



- Simple maintenance contracts which guarantee privileged access to our support team and rapid service when production is down
- Advanced contracts which include worktrips, updates (outside custom development) and workforce training

CUSTOM ADVICE AND DEVELOPMENT

- Entrust your needs and custom development to our engineering team (custom web site, personalized reports, estimated scrap costs, material consumption, peripheral interface and control)
- An open and accessible database using Microsoft SQL Server which allows you to create your own reports using data pulled directly from Cyclades.



**More than 300 customers all over the world
have already chosen to trust Cyclades to monitor their production in various
sectors (Plastic Transformation, Mechanics, Decoration, Composites, etc...)**



S.i.S.E.

WORLDWIDE PRESENCE...

FRANCE

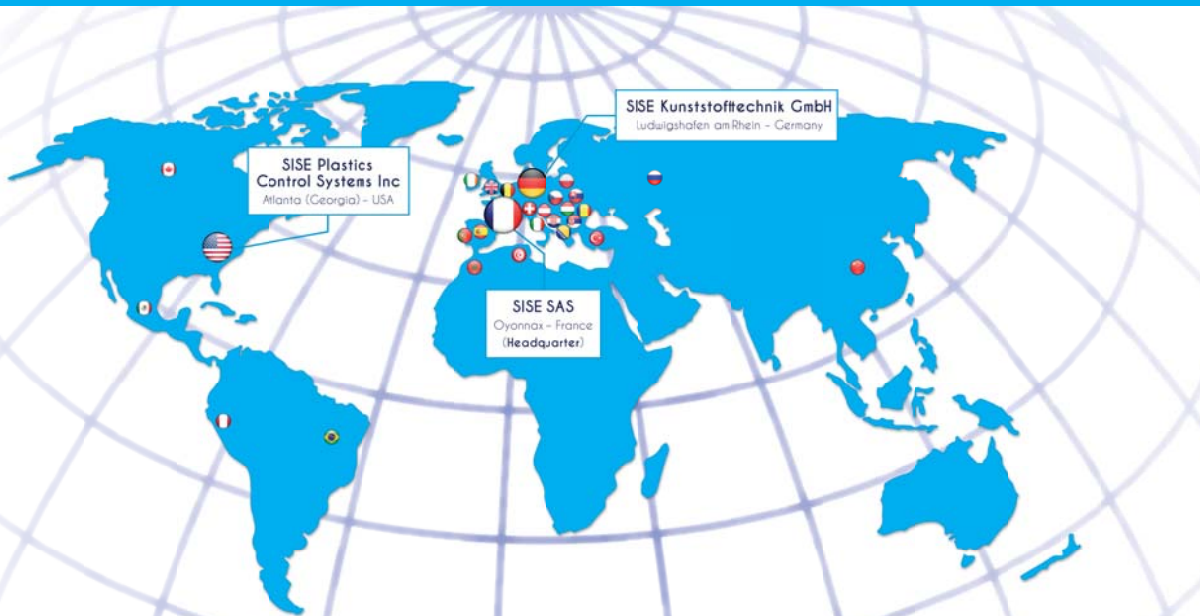


INTERNATIONAL





WITH 2 SUBSIDIARIES AND A LARGE INTERNATIONAL SALES NETWORK,
SISE IS YOUR WORLDWIDE PARTNER



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