

SERIE
XH
300°C (350°C on request)

S.I.S.E.

OIL TEMPERATURE CONTROLLER

**Line contactor
in standard !**



| SPECIFICATIONS | | XH6 | XH10 | XH20 | XH30 | XH40 | XH50 | XH60 | XH75 | XH100* | XH200* |
|------------------------------------|---------------------------|----------|-------|---------|---------|---------|-------|---------|---------|------------|--------|
| EFFECTIVE THERMAL RATING | | 6,5 kW | 13 kW | 21,6 kW | 32,4 kW | 43,2 kW | 54 kW | 64,8 kW | 75,6 kW | 108 kW | 216 kW |
| NUMBER OF HEATING STAGES | | XH --- 3 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
| | | XH --- 4 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| PUMP | POWER (kW) | 0,75 | 2,2 | 2,2 | 2,2 | 4 | 5,5 | 5,5 | 5,5 | 7,5 | 15 |
| | THROUGHPUT (m3/h) | 5 | 7 | 7 | 7 | 20 | 40 | 40 | 40 | 60 | 80 |
| | WATER COLUMN PRESSURE (m) | 16 | 34 | 34 | 34 | 30 | 30 | 30 | 30 | 30 | 35 |
| OIL START AND RETURN PIPES | | 1" | 1" | 1" | 1" | DN50 | DN50 | DN50 | DN50 | DN65 | DN80 |
| COOLING POWER (kW) ** | OPTION e | 40 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | on request | |
| BOILER VOLUME (LITRES) | | 17 | 17 | 47 | 50 | 45 | 59 | 70 | 75 | 165 | 247 |
| EXPANSION VOLUME (LITRES) | | 34 | 34 | 56 | 56 | 63 | 125 | 125 | 125 | 223 | 217 |
| MAXIMUM EXTERNAL CIRCUIT (LITRES) | OPTION s or e | 60 | 63 | 93 | 93 | 108 | 233 | 233 | 233 | 470 | 270 |
| DIMENSIONS (mm) | WIDTH | 625 | 625 | 710 | 710 | 760 | 950 | 950 | 950 | 1200 | 1300 |
| | DEPTH | 850 | 850 | 900 | 900 | 1020 | 1180 | 1180 | 1180 | 1450 | 1450 |
| | HEIGHT | 1080 | 1080 | 1550 | 1550 | 1550 | 1650 | 1650 | 1650 | 1750 | 1770 |
| WEIGHT (Kg) | | 175 | 180 | 300 | 320 | 430 | 480 | 510 | 540 | 900 | 1250 |
| MAXIMUM TEMPERATURE (°C) *** | | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |

* In the 100 to 200 kW range, we also supply 126, 150 and 180 kW units.

** Cooling power at 200°C with 2 m3/h of water per hour at 17°C for option e.

*** From 10 kW upwards units may be optionally equipped for a maximum temperature of 350°C.

ADDITIONAL SISE - PARMILLEUX BENEFITS

■ UNIFORM TEMPERATURES :

The high flow rates of our centrifugal pumps ensures low temperature drops between outlet and return of oil, meaning more uniform temperature applied to the product or the part to be heated.

■ AN EXTENSIVE RANGE :

The combination of options described hereabove means that the XH range includes 132 types of standard devices and numerous other configurations.

■ RELIABILITY AND QUALITY OF THE MATERIALS :

- GS cast-iron centrifugal pumps,
- 80/20 Nickel-Chrome heating elements ,
- Expansion tank with anti-thermosiphon spiral tube,
- All our appliances are individually tested prior to dispatch.

■ FLUID LIFE :

- The expansion tank is fitted with a safety thermostat,
- The centrifugal pumps have high flow rates,
- An anti-thermosiphon compensation spiral tube is fitted,
- The low heating density (<2,5 W/cm²) ensures that the thermal transfer fluid has a long life.

■ SELF-TUNING :

Our microprocessor controllers have a self tuning behaviour for PID parameters which means that they are extremely easy to use.

■ SAFETY :

- 2 safety thermostats (one in the boiler, one in the expansion tank),
- Level sensor in the expansion tank,
- The expansion tank is fitted with an overflow and an anti-thermosiphon spiral tube,
- The main switch is fitted with fuses,
- Circuit breaker for pump protection,
- From 20kW upwards, a counter of service hours facilitates preventive maintenance

■ FREE SURVEY :

Our engineering department can carry out all necessary calculations in order to dimension properly all specifications of the system (heating power, throughput, back pressure, surface for heat exchange on consumer...).

Our preliminary surveys are conducted free of charge.



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PARMILLEUX

CODIFICATION

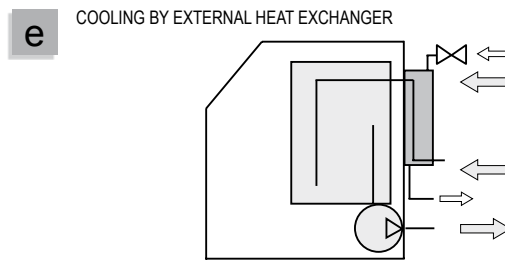
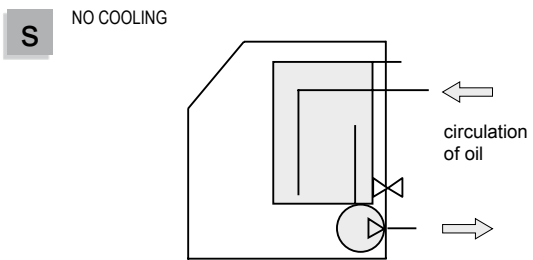
| XH | HEATING POWER | COOLING | LOCATION OF THE TEMPERATURE SENSOR | TYPE OF CONTROL |
|-----------------------------|--|---|--|--|
| OIL TEMPERATURE CONTROLLERS | <ul style="list-style-type: none"> • 3 = 3 kW • 6 = 6,5 kW • 10 = 13 kW • 20 = 21,6 kW • 30 = 32,4 kW • 40 = 43,2 kW • 50 = 54 kW • 60 = 64,8 kW • 75 = 75,6 kW • 100 = 108 kW • 200 = 216 kW | S no cooling | 1 on oil (simple control) | 3 controller with output relay (electromechanical contactors) |
| | | e cooling by external heat exchanger | 2 on part or product to be heated with oil temperature threshold set via a second temperature controller (pseudo cascade control) | 4 controller with logical output (static contactors) |

400 V 50Hz 3-phase without ground, other voltages and frequencies on request.

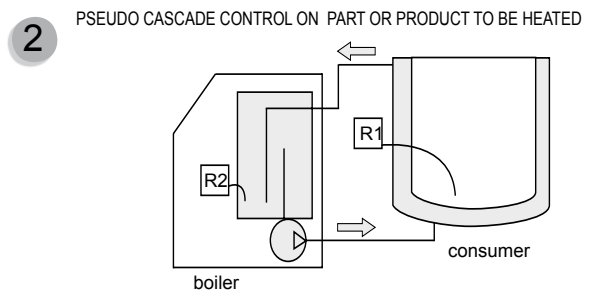
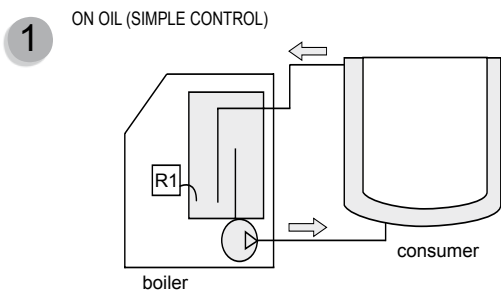
EXAMPLE

XH 75-e-24 : 75kW unit cooled by an external heat exchanger - temperature sensor on the part or the material to be heated and oil circuit regulation (pseudo-cascade) - microprocessor temperature controller with a logical output to thyristor-type

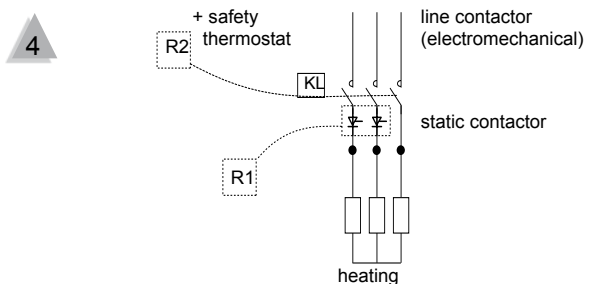
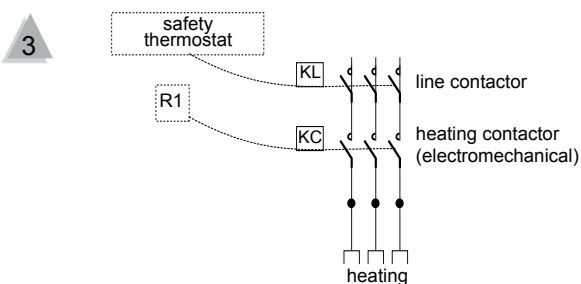
COOLING



LOCATION OF THE TEMPERATURE SENSOR



TYPE OF CONTROL



Parc Industriel Sud - Groissiat
F - 01100 OYONNAX

S.I.S.E.

Tél (33) 04.74.77.34.53 - Fax (33) 04.74.73.90.18
e-mail sise@sise.fr web : www.sise.fr

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