



## **THERMAL FLUID ELECTRIC HEATERS**

Standard manufacturing program



HEATING BETTER

## Thermal Fluid Electric Heaters

- Power range between 5 and 4000 kW
- Design codes: AD-2000
- CE marked
- Low specific charge: 3 W/cm<sup>2</sup>
- Official test pressure: 14 bar
- Working pressure: 7 bar
- Design temperature: 400°C
- Max. Working temperature: 350°C
- Separate connection box
- Efficiency 100%

### OPTIONS:

- PLC Control
- Reduced thermal charge
- ATEX execution
- Communication with PC
- Pressurized expansion vessel
- Service temperature till 400°C
- 0-100% power regulation through SSR
- ASME Design
- Other fluids
- Skid on platform with retention system

The thermal fluid electric heaters heat the fluid through one or several electric resistances. The connection of these resistances allows the division of the power in several steps.

The power control is completely automatic and it is guaranteed simply by selecting the desired temperature on the control panel. In the control panel are placed contactors or solid state relays that will activate the different stages of the resistance.

*CE-1600 ATEX, 1600 kW*





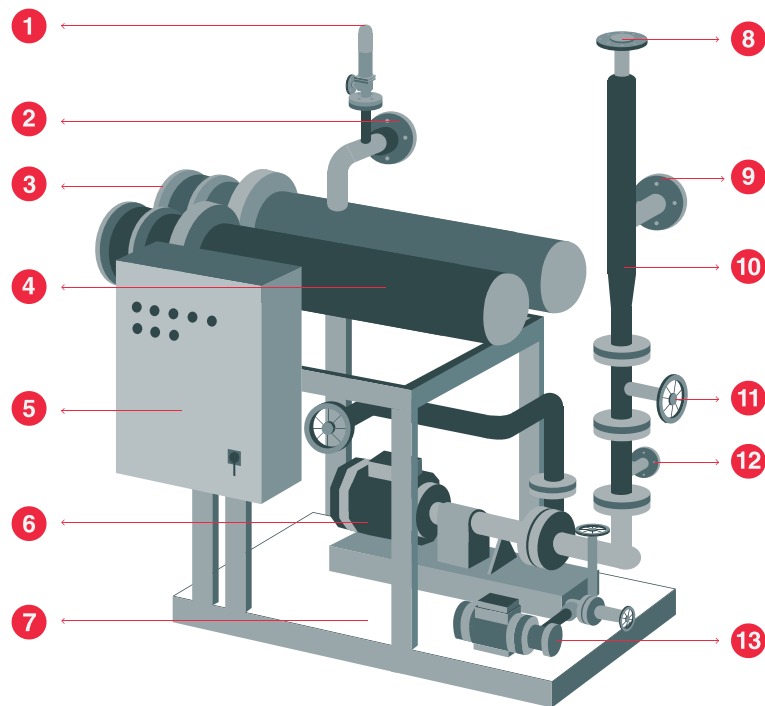
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## APPLICATIONS:

- Research centers
- Universities
- Solar energy
- Mining
- Presses
- Reactors
- Asphalt / bitumen heating
- Paintings
- Plastic and rubber
- Oils and greases
- Drying processes
- Storage tanks
- Evaporators
- Distillation columns
- Flexography and rotogravure

## HEATER SCHEME:

- 1 Safety valve
- 2 Outlet flange
- 3 Electrical resistances
- 4 Resistance body with thermal insulation
- 5 Control panel
- 6 Recirculation pump
- 7 Platform
- 8 Expansion vessel flange
- 9 Return flange
- 10 Air separator
- 11 Interruption ON/OFF valve
- 12 Filter
- 13 Filling and draining pump



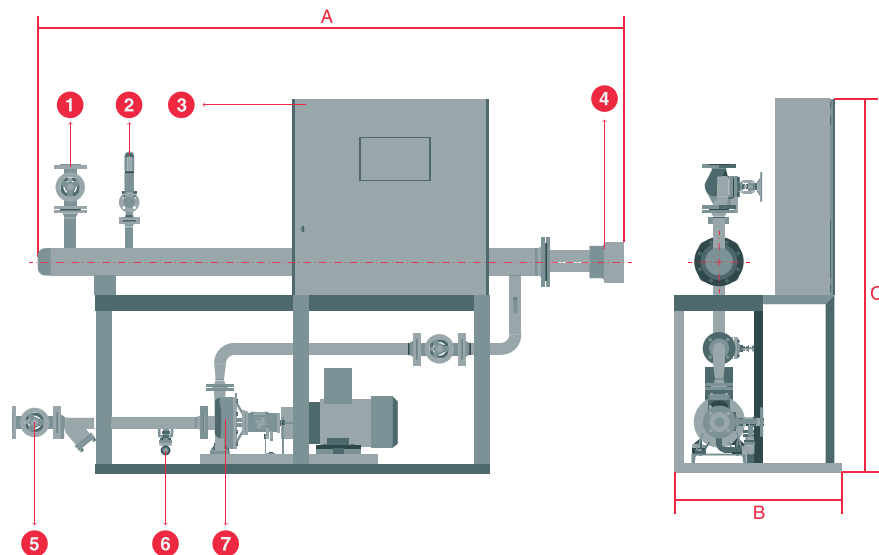
MODEL	CALORIFIC POWER	
	kcal/h	kW*
CE-25	21.500	25
CE-50	43.000	50
CE-100	86.000	100
CE-200	172.000	200
CE-500	430.000	500
CE-1000	860.000	1000
CE-2000	1.720.000	2000
CE-4000	3.440.000	4000

(\*) Other powers on demand



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## Thermal Fluid Electric Heaters



- 1 Thermal fluid outlet valve
- 2 Safety valve
- 3 Control panel
- 4 Electrical resistance
- 5 Thermal fluid inlet valve
- 6 Drainage valve

### MAIN DIMENSIONS (mm):

MODEL	RESISTANCES	OVERALL DIMENSIONS		
		A	B	C
CE-25	1X25	1800	800	1800
CE-50	1X50	2800	800	1800
CE-100	1X100	2600	1000	1800
CE-200	1X200	3800	1500	1800
CE-500	1X500	4000	1500	1800
CE-1000	1x1000	4000	1500	2300
CE-2000	2X1000	4000	1700	2600
CE-4000	3X1330	4000	2300	2600

*The manufacturer reserves the right to modify the dimensions according to the final execution drawings.*



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