

# SCR: Premix ceramic heaters with modulation

This range of modulating ceramic heaters represents an innovative project.

There are two versions: **automatic premix with modulation** and **manual premix**. Both of them have the possibility to be completed with external air intake and filters.

## SCR-A - Automatic

### SCR-A - AUTOMATIC PREMIX VERSION WITH MODULATION:

In this model the power is **continuously modulated keeping constantly the comfort temperature** of the environment and satisfying the final customer's requirements.

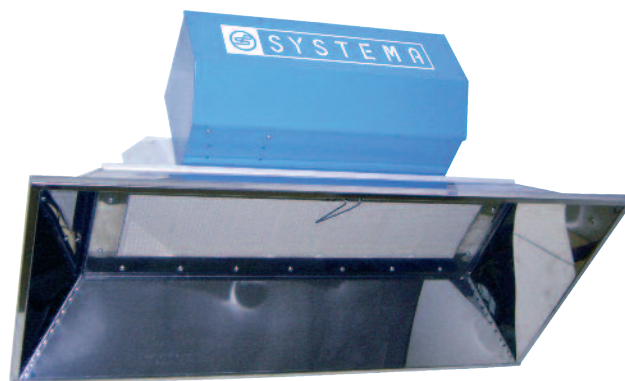
#### ADVANTAGES

As previously mentioned, **the temperature of the environment is constant, without thermal peaks** caused by the continuous on/off of the equipment. Furthermore with this product the "insolation effect" due to the continuous functioning at the maximum power (typical of the old technologies) **is avoided**.

**In this way the gas consumptions are strongly reduced.** Moreover there is the possibility to install an external probe (optional) which enable the heater to **anticipate the ignition of the ceramic heater according to the external temperature**, the environment temperature and the thermal power. Thanks to the premix burner with multiple gas train, realized and produced by Systema S.p.A., the combustion process **is perfect with excellent CO-NOx values and high performances**.

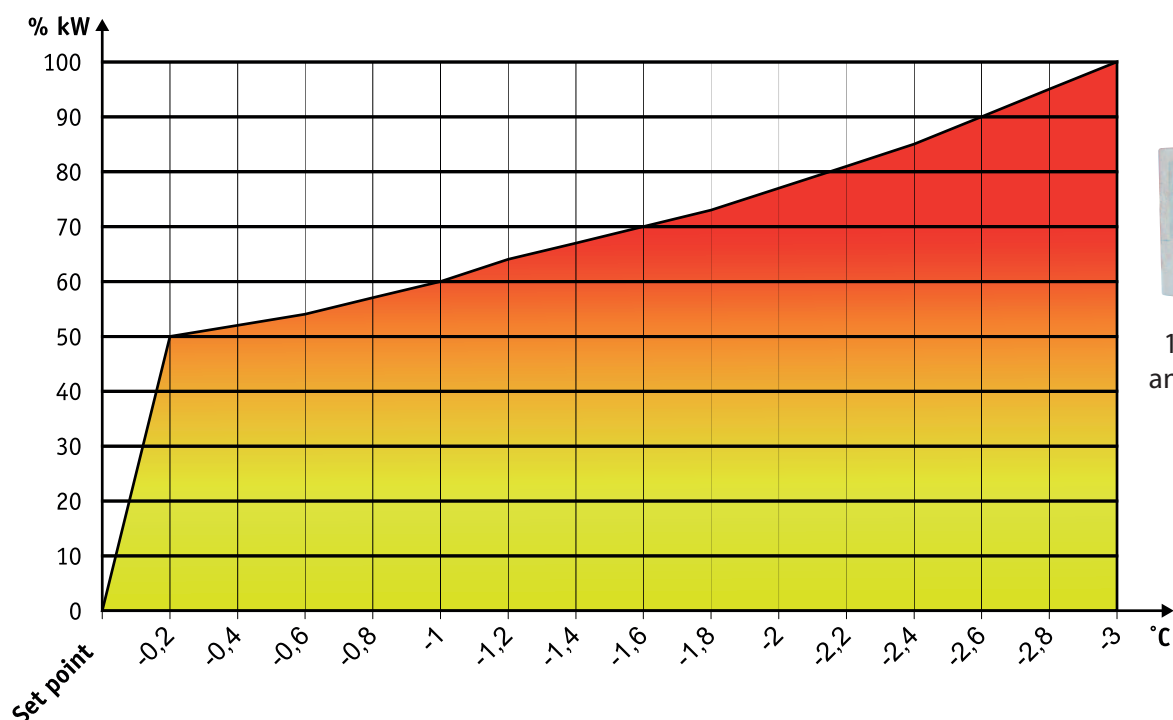
This model operates with bus net and **INET control panel for the management up to 16 ceramic heaters**.

As optional accessory, Systema offers also the infrared ray remote control.



#### Functions of INET control panel:

- once the range has been set, the panel guarantees the automatic modulation of the ceramic heater
- it controls independently up to 16 ceramic heaters
- three temperature levels: comfort, economic, antifreeze
- weekly timer
- optimization function for the anticipated ignition according to the external temperature (optional)
- acoustic or remote alarm system.



#### INET control panel



1 thermal zone and control up to 16 ceramic heaters

# SCR-M - Manual

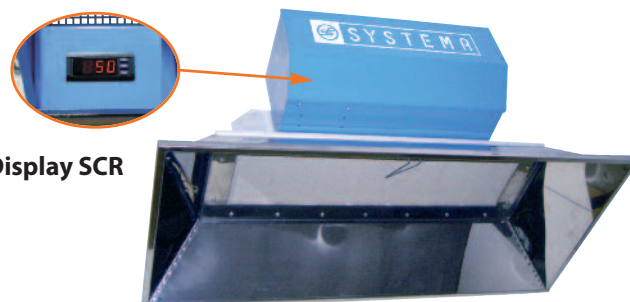
## SCR-M - MANUAL PREMIX MODEL:

This model has the same dimensions of the previous one and includes all the base technology of the new SCR project.

In comparison to the other version, this is an on/off heater.

There is also another model, called **RP** (optional) which is an on/off machine with the manual regulation of the thermal power through a potentiometer-remote modulator.

For the ignition and the shutdown, the base version can be interfaced with the room thermostat, whereas the RP version uses the RP control panel (optional).



Display SCR

## ADVANTAGES

- ☑ Modulating premix burner
- ☑ Well-functioning with all the types of gas, keeping high performances and efficiencies
- ☑ High thermal emission
- ☑ The reflecting canopies have a wide surface
- ☑ Single watertight skirt
- ☑ Possibility of installing air filters for the air suction
- ☑ Possibility of air intake from the external environment
- ☑ Maximum efficiency in all the environmental conditions
- ☑ Possible to install in all the positions

# SCR-W Wind Version



## TECHNICAL FEATURES

MODELS			SCR 25	SCR 45
<b>Maximum THERMAL CAPACITY</b>		kW	24	48
<b>Minimum THERMAL CAPACITY</b>		kW	12	24
<b>NOMINAL CONSUMPTION (15°C 1013,25 mbar)</b>	<b>E (20)</b>	Nm <sup>3</sup>	2,54	5,03
		Nm <sup>3</sup>	1,27	2,56
	<b>Lw (20)</b>	Nm <sup>3</sup>	3,07	6,03
		Nm <sup>3</sup>	1,53	3,07
	<b>Ls (13)</b>	Nm <sup>3</sup>	3,54	7
		Nm <sup>3</sup>	1,77	3,54
	<b>P (37)</b>	kg/h	1,86	3,97
		kg/h	0,93	1,96
	<b>B/P (37)</b>	kg/h	1,83	3,66
		kg/h	0,91	1,82
<b>ELECTRICAL POWER SUPPLY</b>		V/Hz	230/50	230/50
<b>MAXIMUM ABSORBED ELECTRICAL POWER</b>		W	60	60
<b>GAS CONNECTION</b>		mm	20	20
<b>WEIGHT (standard version)</b>		kg	23	32

SCR ceramic heaters are delivered already assembled and commissioned. No calibration during the start up is requested. Each single heater is packed individually.