



INFRA Energy Saving

Gas Radiant Tubes from 28 to 60kW

> For the heating of medium and large industrial environments, commercial areas and gyms <

> Available versions with fumes recirculation <



RADIANT

TECHNICAL FEATURES

Hanging gas thermal unit "INFRA ES", equipped with:

- » 2 versions, Standard and R (Recirculation) for a total of 9 models with 6-9-12-15 m lengths
- » Stainless steel combustion chamber for models 9-12-15 meters, 10 years guaranteed
- » Power capacity from 28 to 60 kW
- » For the heating of medium and large industrial environments, commercial areas and gyms
- » Burner provided with all the control and safety devices
- » Brackets for emitting tubes/canopies equipped with fixing screws, springs, split pins for canopies
- » Reflecting stainless steel canopies
- » Calorized aluminized and stainless steel (INFRA 9, INFRA 12 and INFRA 15 first part) emitting tubes
- » RECIRCULATION VERSIONS WITH FUMES RECIRCULATION SYSTEM: INFRA 9 ES-R 53 and INFRA 12 ES-R 60 with increased combustion performance up to 93 %
- » Cartoon and nylon packing

CERTIFICATIONS

- ☑ CE Certification
- ☑ In accordance with the "LOW TENSION 73/23 CEE" regulation
- ☑ In accordance with the electro-magnetic compatibility ECM 89/336/CEE regulation
- ☑ Equipment checked according to the european standard: EN 416-1
- ☑ Sanitary and hygienic considerations of "INFRA Radiant Tubes", realized by Systema S.p.A. made by Dr. Giuseppe RAUSA, institute of Hygiene and Preventive Medicine of FERRARA UNIVERSITY.



To continually improve the products, SYSTEMA S.p.A. reserves the right to alter the characteristics without prior notice.

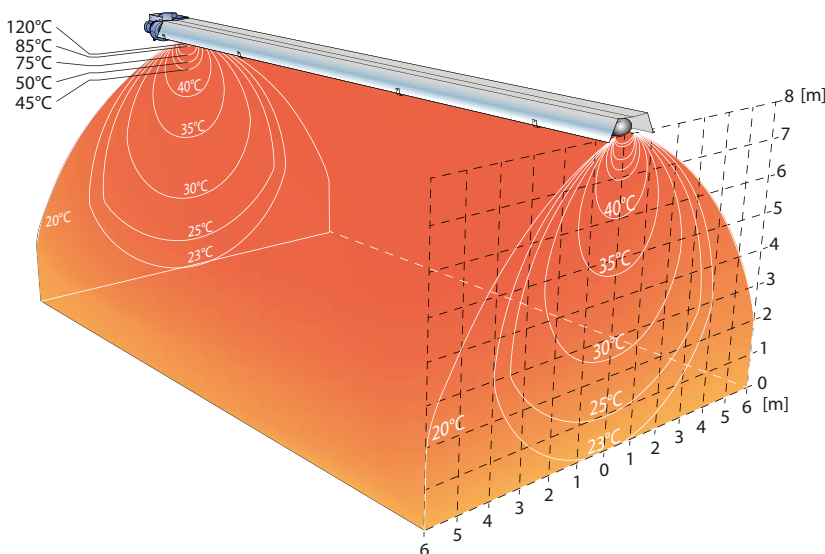
TECHNICAL DATA

MODELS		INFRA 6 ES 28	INFRA 6 ES 35	INFRA 9 ES 45	INFRA 9 ES 53	INFRA 12 ES 45	INFRA 12 ES 60	INFRA 15 ES 60	INFRA 9 ES-R 53	INFRA 12 ES-R 60
Versions		STANDARD							"R" RECIRCULATION	
Thermal capacity	kW	28,0	35,0	45,0	53,0	45,0	60,0	60,0	53,0	60,0
Thermal power	kW	25,70	31,96	40,95	48,39	40,95	54,6	54,9	49,29	55,5
Combustion efficiency *	%	91,8	91,3	91,0	91,3	91,0	91,0	91,5	93,0	92,5
Electrical power supply	V/Hz	230 V - 50/60 Hz							230 V - 50/60 Hz	
Electrical absorbed power	W	70	70	120	120	120	120	120	120	120
Air pressure switch settings	Pa	60	30	30	44	60	44	60	44	44
Fan power	W	55	55	100	100	100	100	100	100	100
Kind of fan	-	Standard					Increased		Standard	Increased
Fan wheel diameter	Ø mm	102	102	133	145	145	145	145	145	145
Gas connection (female)	inc.	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Air connection (male)	Ø mm	100	100	100	100	100	100	100	100	100
Fumes connection (female)	Ø mm	100	100	100	100	100	100	100	100	100
Fumes diaphragm	mm	47	-	50	60	58	-	-	60	-
Weight standard version	kg	86,5	86,5	139	139	176	176	208	139	176
Weight + insulated RBT canopies	kg	105,5	105,5	167,5	167,5	214	214	246	167,5	214
Rated CONSUMPTION at 15°C and 1013,25 mbar										
Natural Gas G20	m³/h	2,96	3,70	4,76	5,61	4,76	6,35	6,35	5,61	6,35
Natural Gas G25	m³/h	3,99	4,98	6,41	7,54	6,41	8,54	8,54	7,54	8,54
Natural Gas G27	m³/h	3,61	4,52	5,81	6,84	5,81	7,74	7,74	6,84	7,74
Natural Gas G2.350	m³/h	4,12	5,14	6,61	7,79	6,61	8,82	8,82	7,79	8,82
LPG Butane G30	kg/h	2,21	2,76	3,55	4,18	3,55	4,73	4,73	4,18	4,73
LPG Propane G31	kg/h	2,18	2,72	3,50	4,12	3,50	4,66	4,66	4,12	4,66

* Standard conditions

THERMAL DETECTION WITH INFRA 9 ES 45

TEST CONDITIONS: TMax. surface temperature of the radiant tube: 450 °C, kind of material heated wood-cartoon 0,5 m² 5mm parallel to the tubes, hanging in the air. The temperatures are measured after 90 minutes of thermal radiation, operating temperature: 16 °C and relative air speed <0.15 m/s



INFRA ES functions combined with INET control panel

Automatic working according to the program and timer settings



INET control panel to manage 16 equipments:

- 1 thermal zone**CODE 00CECR2678
- 2 thermal zones**CODE 00CECR2680
- 3 thermal zones**CODE 00CECR2682
- 4 thermal zones**CODE 00CECR2684

- ❖ **2 working temperature,**
- ❖ **Daily/weekly settings, Timer, hour counter** and holiday function
- ❖ Control by PC or ModBUS using SYS850 or SYS830 control panel and management software (optional)

ATTENTION

We invite you to contact our Technical Dept. to receive detailed information about PC connection or ModBUS and for installations of INFRA radiant tubes managed by SYS850 or SYS830 control panel..

INFRANET, SYS850 or SYS830 controllers are available to manage more thermal zones (please contact the Technical Dept. of Systema)

INFRA ES combined with CE control panel

CE control panel with digital thermostat, remote temperature probe and ON/OFF function:

Standard versions
and control of digital temperature



- 1 thermal zone** Code 00CEQU1196/A
- 2 thermal zones** Code 00CEQU1198/A
- 3/4 thermal zones** Code 00CEQU1200/A

Chrono-thermostat versions
with daily/weekly setting, timer



- 1 thermal zone** Code 00CEQU1197/A
- 2 thermal zones** Code 00CEQU1199/A
- 3/4 thermal zones** Code 00CEQU1201/A

INFRA ES combined with SLIM control panel

SLIM control panel, 1 thermal zone, with Chrono-thermostat and digital temperature control



- 1 radiant tube** Code 00CEQU2667
- 2 radiant tube** Code 00CEQU2668
- 3 radiant tube** Code 00CEQU2669

