

EUCERK HE EVO4 - EUCERK HE-JR EVO4

SUSPENDED GAS RADIANT STRIP HEATING SYSTEMS

SINGLE BURNER GAS-FIRED OVERHEAD RADIANT STRIP HEATER FOR NON-DOMESTIC USE

TECHNICAL DATA	EUCERK HE	EUCERK HE-JR
Nominal heat output [kW]	275.8	114.4
Heat input [kW]	290.0	120.0
Thermal efficiency NCV 100% [%]	92.9%	93.1%
Thermal efficiency NCV 50% [%]	95.5%	95.4%
Envelope loss factor [%]	2.2%	2.2%
Exhaust gas - thermal loss @ burner ON [%]	4.9%	4.7%
Exhaust gas - thermal loss @ burner OFF [%]	<0.1%	<0.1%
Useful efficiency NCV 100% [%]	95.1%	95.3%
Useful efficiency NCV 50% [%]	96.6%	96.5%
Seasonal space heating energy efficiency (outdoor installation) [%]	87.5%	86.1%
Exhaust gas temperature @ 100% [°C] *	120 ÷ 170	110 ÷ 140
Exhaust gas temperature @ 50% [°C] *	70 ÷ 120	60 ÷ 100
Fuel gas - compatibility	G20 - G25 - G31	
Emission system	Radiant strip	
Power supply [V/Hz/-]	400 / 50 / 3F+N	
Installed electric power [kW]	2.7	1.6
Input current [A] @ 400 V / 50 Hz	4.7	2.7
Auxiliary electricity consumption @ standby mode [W]	10	10
Inverter	YES	
Modulation of the recirculation fan for combustion products	YES	
Combustion modulation	YES	
Electrical input @ maximum nominal output [kW]	2.64	0.97
Electrical input @ minimum heat output [kW]	1.02	0.54
Evacuation of the combustion products - Type of installation	B22 ; B52	
Category	II _{2H3P}	
Regulation mode	Modulating	
Burner type	Mixing premix blown	
Exhaust gas - available pressure [Pa]	50	10
Exhaust gas - duct max. length [m] **	5	8
Flue gas connection [mm]	150	120
Gas supply connection [BSP]	1"	3/4"
Nitrogen oxides emissions [mg/kWh]	27	29
Unit weight [kg]	190	122
Frame weight [kg]	29	20
Noise level [dB(A)]	90	86
Supply pressure G20 min / max [mbar]***	20 / 100	20 / 50
Supply pressure G31 min / max [mbar]***	37 / 100	37 / 50
Radiant modules compatibility	M8Ø3 - M4Ø3 M12Ø3	M8Ø2 M8Ø3 - M4Ø3

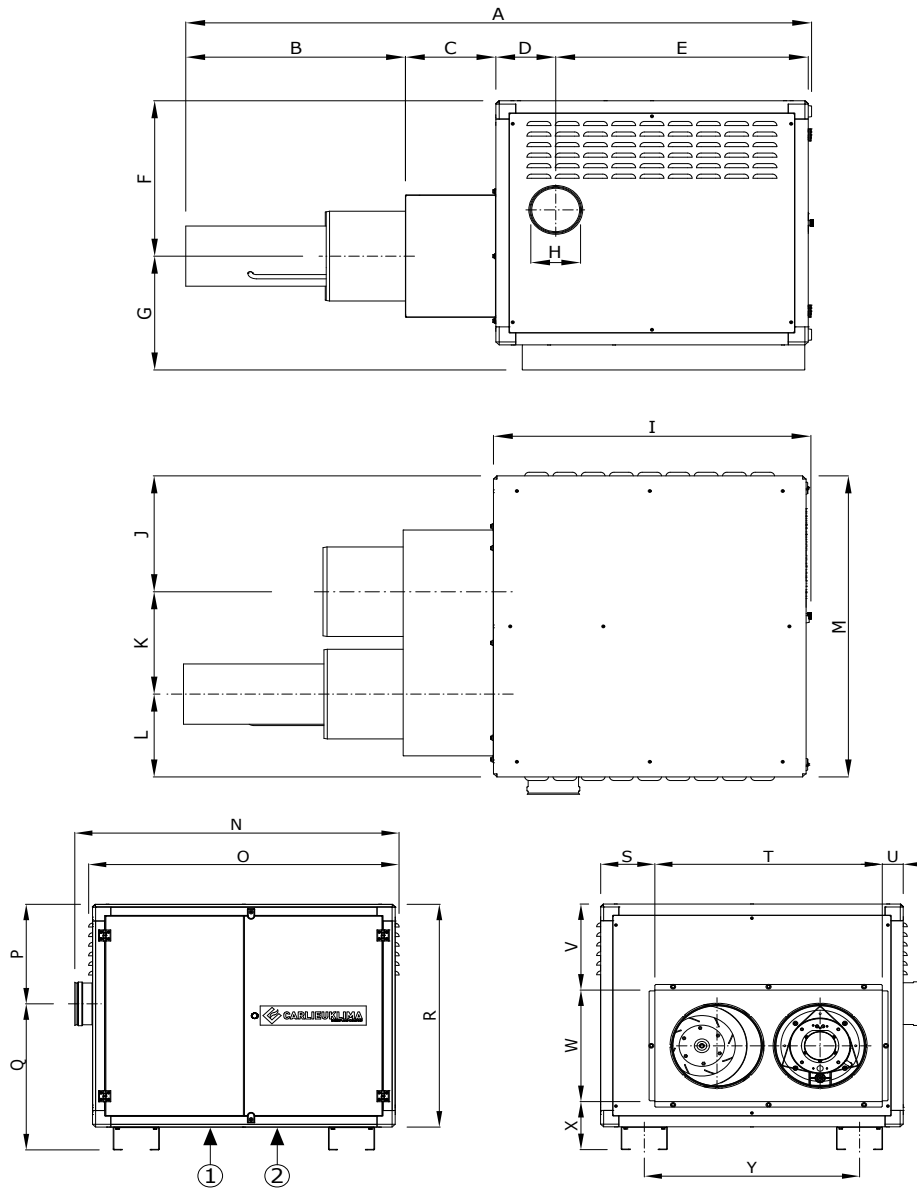
Reference fuel gas: G20

* Variable in relation to the type of module and the radiant line configuration

** Each 90° elbow corresponds to 1.5 m length of linear duct

*** Minimum gas supply pressure must be guaranteed @ nominal power

MAIN DIMENSIONS OF THE UNIT (mm)



EUCERK HE	ID	EUCERK HE-JR
1757	A	1544
660	B	459
264	C	265
189	D	157
640	E	658
490	F	326
416	G	358
150	H	120
833	I	820
384	J	239
340	K	320
274	L	239
998	M	798
1125	N	930
1023	O	824
372	P	311
440	Q	358
813	R	591
180	S	34
750	T	750
68	U	34
287	V	144
406	W	364
213	X	176
710	Y	528

1 = gas connection
2 = electric connection

Specifications relating to the regulation systems of the heating system

Thermal plant management system: centralized regulation and supervision system with integration of local controllers for temporary changes to single set-points.

Instant power adjustment based on:

- the difference between the measured room temperature and the set-point temperature (continuous modulation);
- the difference between the temperature of the combustion products and their set value.

Evacuation ducts for combustion products

Single-wall stainless steel smoke evacuation system complying with the GASTEC QA-it test requirements No. SF-5. Each unit is equipped with a smoke evacuation duct, sized for the maximum specified length.

CALIBRATIONS

EUCERK HE

	HE 290	HE 270	HE 250	HE 230	HE 210	HE 190	HE 170	HE 150
Nominal heat output [kW]	275.8	257.1	238.4	219.7	200.9	182.0	163.1	144.1
Heat input [kW]	290.0	270.0	250.0	230.0	210.0	190.0	170.0	150.0
Thermal efficiency NCV 100% [%]	92.9%	93.0%	93.2%	93.3%	93.5%	93.6%	93.7%	93.9%
Thermal efficiency NCV 50% [%]	95.0%	95.1%	95.2%	95.2%	95.3%	95.4%	95.4%	95.5%
Envelope loss factor [%]	2.2%	2.2%	2.2%	2.2%	2.2%	2.2%	2.2%	2.2%
Exhaust gas – thermal loss @burner ON [%]	4.9%	4.9%	4.9%	4.9%	4.9%	4.9%	4.9%	4.9%
Exhaust gas – thermal loss @burner OFF [%]	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%
Useful efficiency NCV 100% [%]	95.1%	95.2%	95.4%	95.5%	95.7%	95.8%	95.9%	96.1%
Useful efficiency NCV 50% [%]	96.1%	96.2%	96.3%	96.3%	96.4%	96.5%	96.5%	96.6%
Electrical input @ maximum nominal output [kW]	2.64	2.49	2.34	2.18	2.03	1.88	1.73	1.57
Electrical input @ maximum minimum output [kW]	1.73	1.63	1.53	1.42	1.32	1.22	1.12	1.02
Electrical input - representative average value [kW]	1.87	1.76	1.66	1.54	1.43	1.32	1.22	1.11

Gas di riferimento: G20

EUCERK HE-JR

	HE-JR 120	HE-JR 115	HE-JR 100	HE-JR 80	HE-JR 60
Nominal heat output [kW]	114.4	109.7	95.6	76.7	57.7
Heat input [kW]	120.0	115.0	100.0	80.0	60.0
Thermal efficiency NCV 100% [%]	93.1%	93.2%	93.4%	93.6%	93.9%
Thermal efficiency NCV 50% [%]	95.0%	95.0%	95.1%	95.3%	95.4%
Envelope loss factor [%]	2.2%	2.2%	2.2%	2.2%	2.2%
Exhaust gas – thermal loss @burner ON [%]	4.7%	4.7%	4.7%	4.7%	4.7%
Exhaust gas – thermal loss @burner OFF [%]	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%
Useful efficiency NCV 100% [%]	95.3%	95.4%	95.6%	95.8%	96.1%
Useful efficiency NCV 50% [%]	96.1%	96.1%	96.2%	96.4%	96.5%
Electrical input @ maximum nominal output [kW]	0.97	0.94	0.87	0.78	0.69
Electrical input @ minimum output [kW]	0.56	0.56	0.55	0.54	0.54
Electrical input - representative average value [kW]	0.63	0.62	0.60	0.58	0.57

Gas type: G20

Constant developments to improve our products may cause, without notification, changes to contents and descriptions herein.