

INFRA RADIANT TUBES



INFRA HEATING ADVANTAGES

- Free choice of temperature distribution
- Pleasant feeling
- No pollution of the heated premises
- No airflow
- No dust stirring
- No noise
- A direct and evenly distributed heat
- Partial heating of a hall possible
- Simple mount
- Minimal maintenance requirements
- No energy losses while heating is off

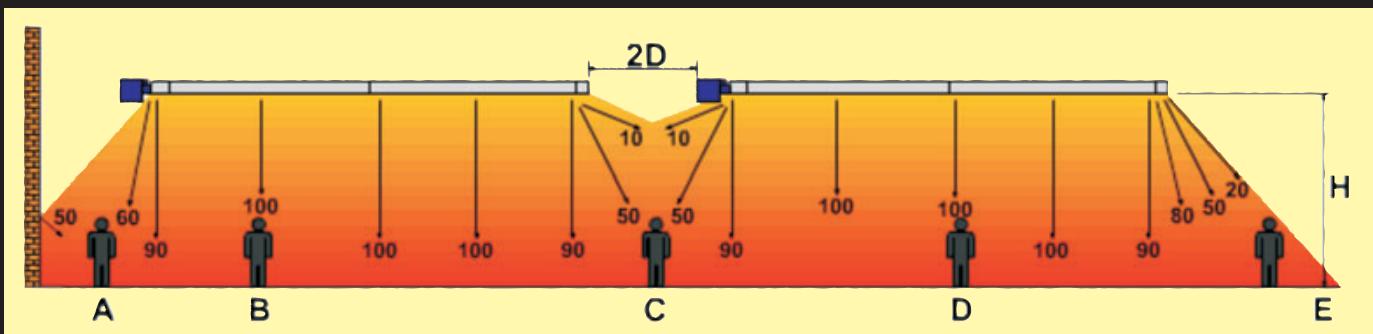
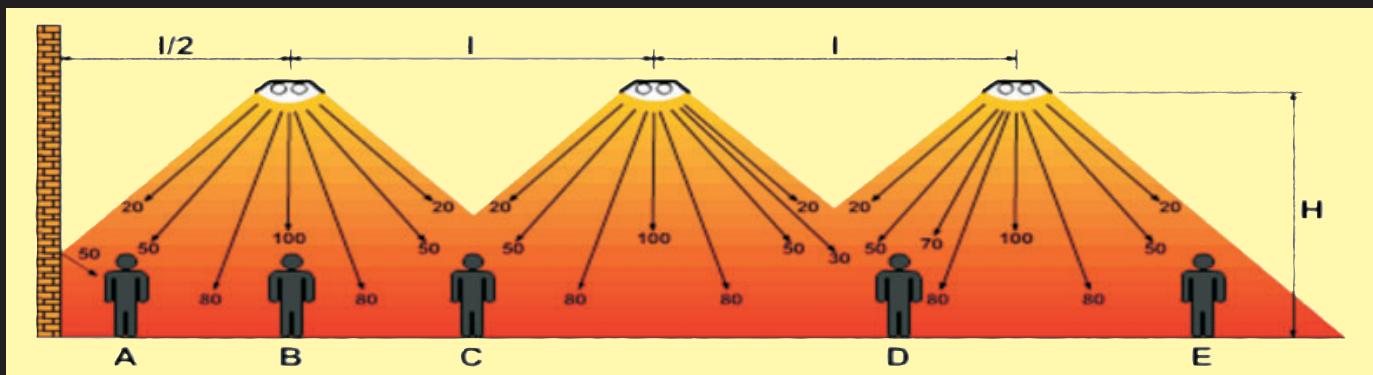


Removal of fumes outside the heated premises

APPLICATION AREAS

INFRA HEATING – the standard models and types apply for the premises higher than 4 metres. For lower premises, wall mounting is designed (from 3.5 metres on) as well as some non-standard designs with several burners and several heating tubes length.

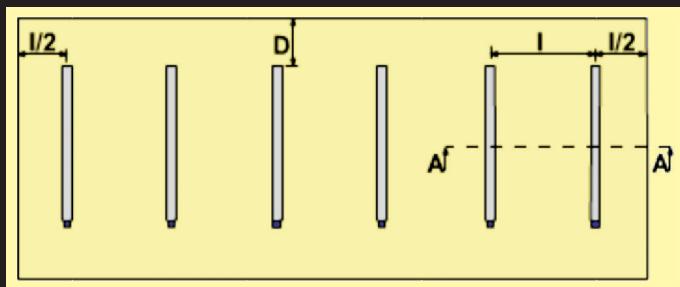
INFRA heating efficiently heats small workshops as well as industrial halls, sports halls, warehouse halls, wholesale halls, discount stores halls, big garages, etc.



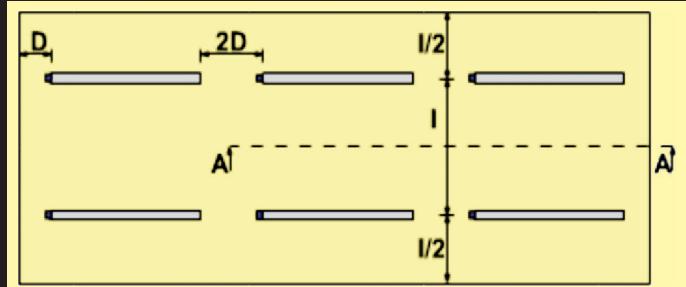
Heat intensity distribution

GENERAL INSTRUCTIONS FOR DESIGNING AND MOUNTING OF INFRA HEATERS

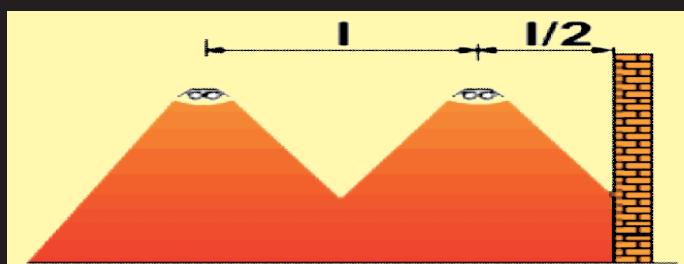
TRANSVERSAL DISTRIBUTION



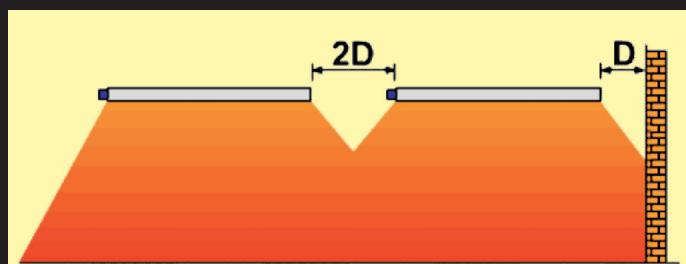
LONGITUDINAL DISTRIBUTION



TRANSVERSAL SECTION A-A



TRANSVERSAL SECTION A-A

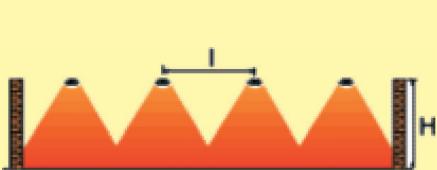


THE BASIC FORMULA FOR CALCULATING THE POWER AND DISTRIBUTION OF GAS INFRA HEATERS

H = Mount height

**I = Distance among
the centres (m)**

D= Distance (m)



INFRA IG 28								
H	4	5	6					
I max	5	6.5	8					
D max	2.5	3	3.5					

INFRA IG 38								
H	5	6	7	8	9	10		
I _{max}	6	8	9	10	10	10		
D _{max}	3	3.5	4	4.5	4.5	4.5		

INFRA IG 45							
H	5	6	7	8	9	10	
I _{max}	6	8	9	10	10	10	
D _{max}	2	2.5	4	4.5	4.5	4.5	

The ratio between the installed power (W) and the heated surface (m ²)								
H	4	5	6	7	8	9	10	Out. temp.
W/mq	190	190	210	210	230	230	250	-5°C
W/mq	190	200	220	220	240	240	260	-10°C
W/mq	190	210	230	230	250	250	270	-20°C

INFRA RADIANT TUBES - TECHNICAL DATA

DARK DUAL TUBE GAS INFRA HEATERS

Example: IG-10

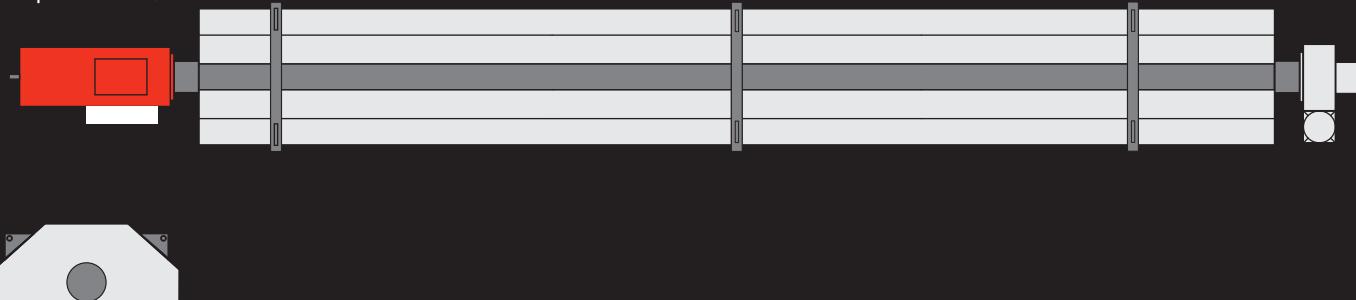


INFRA RADIANT HEATERS "U" TUBE (IG)							
Product type	IG 10	IG 28	IG 38	IG 45			
Nominal heat load	15 KW	28 KW	38 KW	45 KW			
Voltage supply	220-250 V 50 Hz	220-250 V 50 Hz	220-250 V 50 Hz	220-250 V 50 Hz			
Gas supply gauge	1/2"	1/2"	1/2"	1/2" (3/4")			
Fresh air inflow duct	100 mm	100 mm	100 mm	100 mm			
Fumes outflow duct	100 mm	100 mm	100 mm	100 mm			
Gas type	METHANE	P/B	METHANE	P/B	METHANE	P/B	METHANE
Working pressure	20 mbar	30 mbar	20 mbar	30 mbar	20 mbar	30 mbar	20 mbar
Valve size	2,80 mm	1,80 mm	4,20 mm	2,80 mm	5,00 mm	3,20 mm	6,30 mm
Gas consumption	1,42 m3/h	1,094 kg/h	2,66 m3/h	2,103 kg/h	3,59 m3/h	2,821 kg/h	4,26 m3/h
Nox class	klasa 4	klasa 4	klasa 3	klasa 4	klasa 3	klasa 3	klasa 3
Eu-type examination Certificate	GAD 80170003		GAD 80170003		GAD 80170003		GAD 80170003
Sort	B 22		B 22		B 22		B 22
Category	II 2H3 B/P		II 2H3 B/P		II 2H3 B/P		II 2H3 B/P
Size	3420 mm (3000 mm) x 485 mm x 200 mm		6420 mm (6000 mm) x 485 mm x 200 mm		9420 mm (9000 mm) x 485 mm x 200 mm		12420 mm (12000 mm) x 485 mm x 200 mm
Weight	55 kg		100 kg		144 kg		191 kg

Dual tube dark infra heaters technical data

DARK SINGLE TUBE GAS INFRA HEATERS

Example: IG-28/1



INFRA RADIANT HEATERS "I" TUBE (IG)					
Product type	IG 20/1	IG 38/1	IG 45/1		
Nominal heat load	20 KW	38 KW	45 KW		
Voltage supply	220-250 V 50 Hz	220-250 V 50 Hz	220-250 V 50 Hz		
Gas supply gauge	1/2"	1/2"	1/2" (3/4")		
Fresh air inflow duct	100 mm	100 mm	100 mm		
Fumes outflow duct	100 mm	100 mm	100 mm		
Gas type	METHANE	P/B	METHANE	P/B	METHANE
Working pressure	20 mbar	30 mbar	20 mbar	30 mbar	20 mbar
Valve size	3,20 mm	2,20 mm	5,00 mm	3,20 mm	6,30 mm
Gas consumption	1,80 m3/h	1,405 kg/h	3,58 m3/h	2,821 kg/h	4,28 m3/h
Nox class	klasa 4	klasa 4	klasa 3	klasa 2	klasa 3
Eu-type examination Certificate	GAD 80170003		GAD 80170003		GAD 80170003
Sort	B 22		B 22		B 22
Category	II 2H3 B/P		II 2H3 B/P		II 2H3 B/P
Size	9670 mm (9000 mm) x 315 mm x 170 mm		12670 mm (12000 mm) x 315 mm x 170 mm		5670 mm (15000 mm) x 315 mm x 170 mm
Weight	85 kg		112 kg		138 kg

Single tube dark infra heaters technical data

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