



High efficiency black tube radiant heater

Mark INFRAMONO black tube radiant heaters heat with long-wave infrared radiation. Radiant heating is based on the principle of heat transfer from a warm object to an object of lower temperature by means of electromagnetic wave energy.

This electromagnetic wave, not hindered by air, radiates walls, floor and the people present in the room.

As soon as the infrared radiation gets in contact with the human body, it is converted into heat. This does not cause any change in the air temperature. This method of heat generation is considered very pleasant.

The more intense the radiant heat is, the less the actual air temperature has to be increased for a comfortable indoor climate. Therefore, heating with the Mark INFRAMONO system is much more economical compared to conventional systems.

Possible applications include: sports halls, production facilities, aircraft hangars, showrooms and garages.

The benefits of radiant heating include:

- No spreading of dust and low noise level during operation
- Can be used in a focused way to enable a high energy efficiency
- A radiation efficiency of up to 75% according to EN 416-2
- A uniform heat distribution across the entire length of the radiator is achieved by the use of an overpressure burner with a long stable flame, in combination with built-in turbulators in the radiant tube
- Available in 10 different types from 10 to 100 kW
- By using a 1-stage or 2-stage control the output of the radiant heater is adapted to the required heat
- Various sizes, from 3 to 18 m length

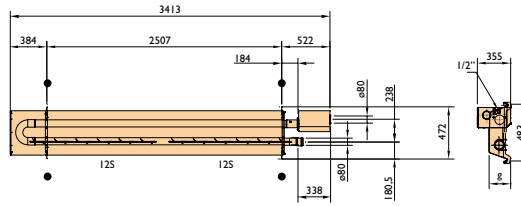
- Highly reflective reflector hood, optional double air insulated (type +)
- The radiator with a double air-insulated reflector can be optimized energetically by using a flue gas cooler (type ++)
- The highly reflective radiation hood features integrated V-shaped reflectors and end caps
- Available in natural gas and propane
- Easy installation and maintenance



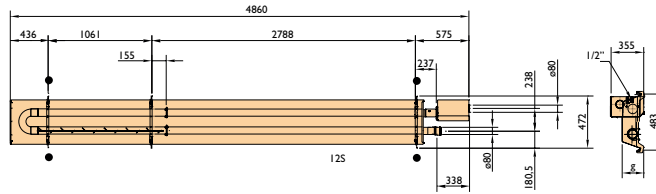
Remote connection possible with the PinTherm Infra Connect!

Dimensions

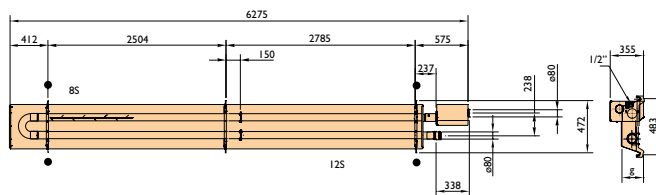
INFRA 10-3



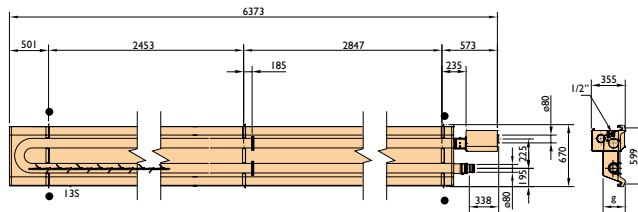
INFRA 15-5



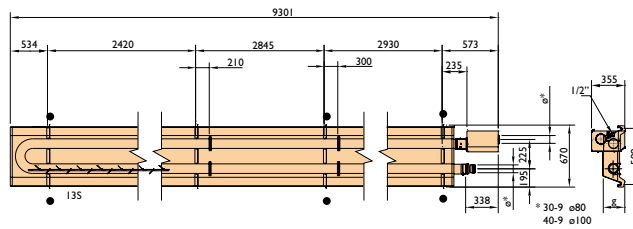
INFRA 20-6



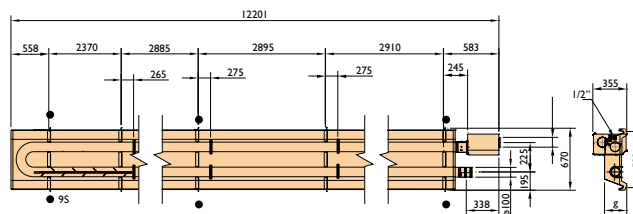
INFRA 30-6



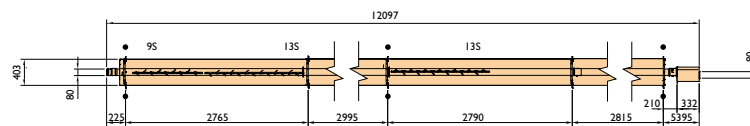
INFRA 30-9 / 40-9 / 50-9



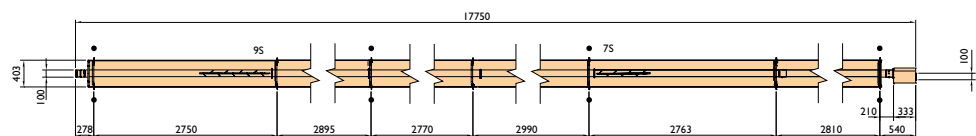
INFRA 50-12



INFRA MONO 30-12



INFRA MONO 50-18

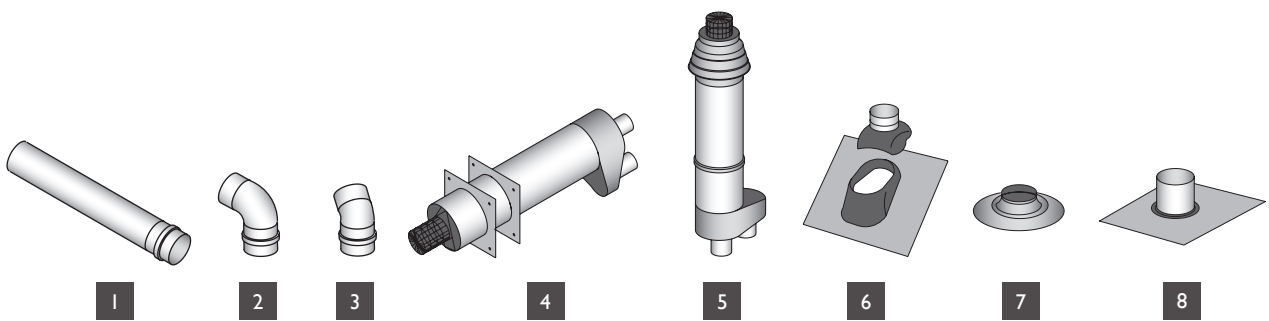


● suspension point

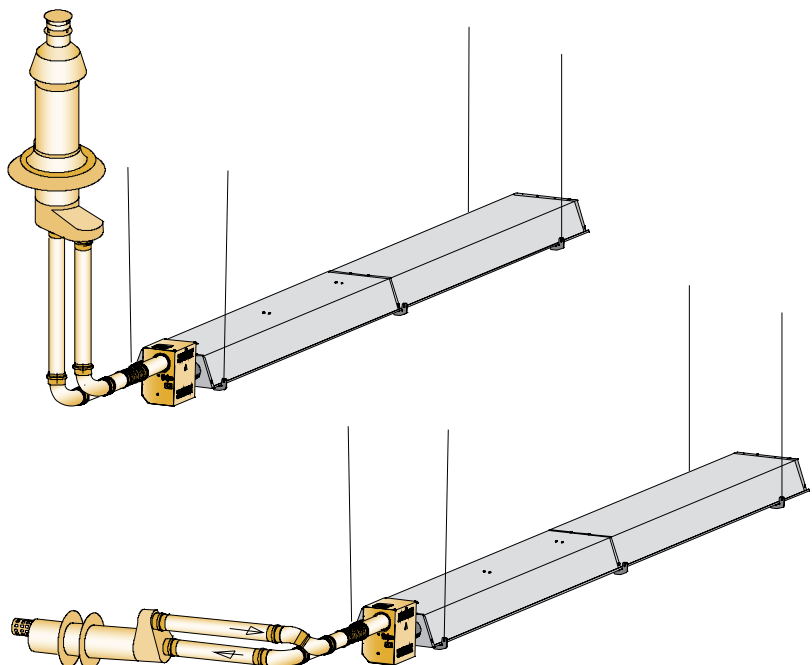
Type		10-3	15-5	20-6	30-6	30-9	40-9	50-9	50-12	30-12 MONO	50-18 MONO
Nominal power	kW	9,1	12,7	16,3	25,2	27,5	34,4	41,4	45,1	27,5	45,1
Nominal load (lower value)	kW	10,0	14,0	18,0	28,0	30,0	38,0	46,0	49,9	30,0	49,9
Flue efficiency (lower value)	%	91	90,7	90,6	90,0	91,7	90,5	90,0	90,3	91,7	90,3
Gas consumption G25 (15°C)	m³/h	1,20	1,70	2,20	3,30	3,60	4,60	5,4	5,90	3,60	5,90
Gas consumption G20 (15°C)	m³/h	1,10	1,50	1,90	2,90	3,20	3,90	4,9	5,30	3,20	5,30
Gas consumption G31 (15°C)	kg/h	0,79	1,11	1,42	2,12	2,21	2,99	3,72	3,92	2,36	3,92
Gas consumption G30 (15°C)	kg/h	0,81	1,14	1,46	2,19	2,27	3,08	3,64	4,04	2,43	4,04
Weight	kg	48 / 65*	66 / 91*	81 / 112*	97 / 136*	132 / 190*	132 / 190*	132	168 / 244*	101	143
Electrical power	W	55	57	60	60	60	63	63	63	60	63
Recommended suspension height, horizontal	m	4	4	4	5	5	5	7	7	5	7
Recommended suspension height, 30° angle	m	4	4	4	4	4	5	6	6	5	6
Burner pressure G25	mbar	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0	16,0
Burner pressure G20	mbar	11,0	11,0	11,0	11,5	11,5	11,5	11,5	11,5	12,0	12,0
Burner pressure G31	mbar	35,1	35,1	35,1	35,1	35,1	35,1	35,1	35,1	35,1	35,1
Burner pressure G30	mbar	27,2	27,2	27,2	27,2	27,2	27,2	27,2	27,2	27,2	27,2
Sound level at 5 metres	dB(A)	41	41	42	42	42	43	43	43	42	43

* Single-/ Double-walled reflector

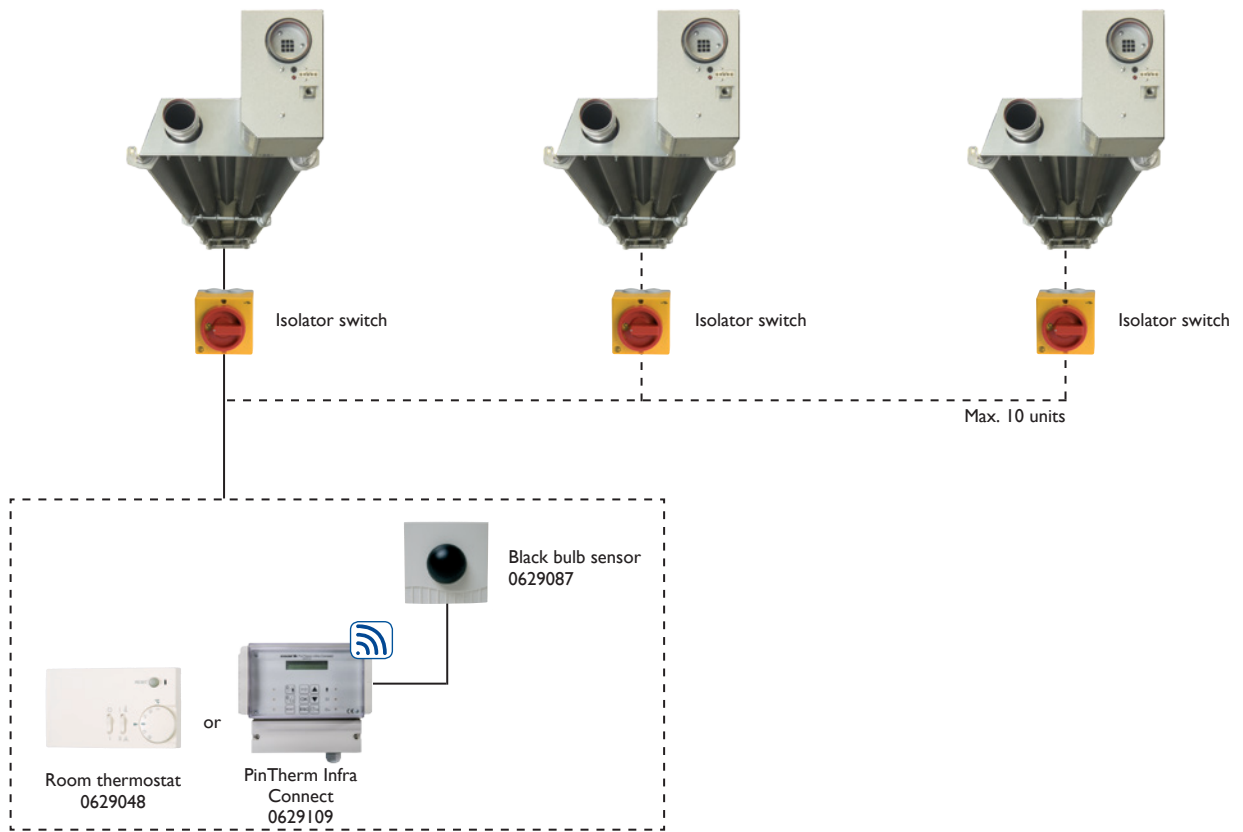
Accessories – flue gas exhaust



- 1 Extension set
- 2 90° elbow
- 3 45° elbow
- 4 Single flue set horizontal
- 5 Single flue set vertical
- 6 Roof flashing for pitched roof
- 7 Adhesive plate
- 8 Flexible roof flashing for cladded roof

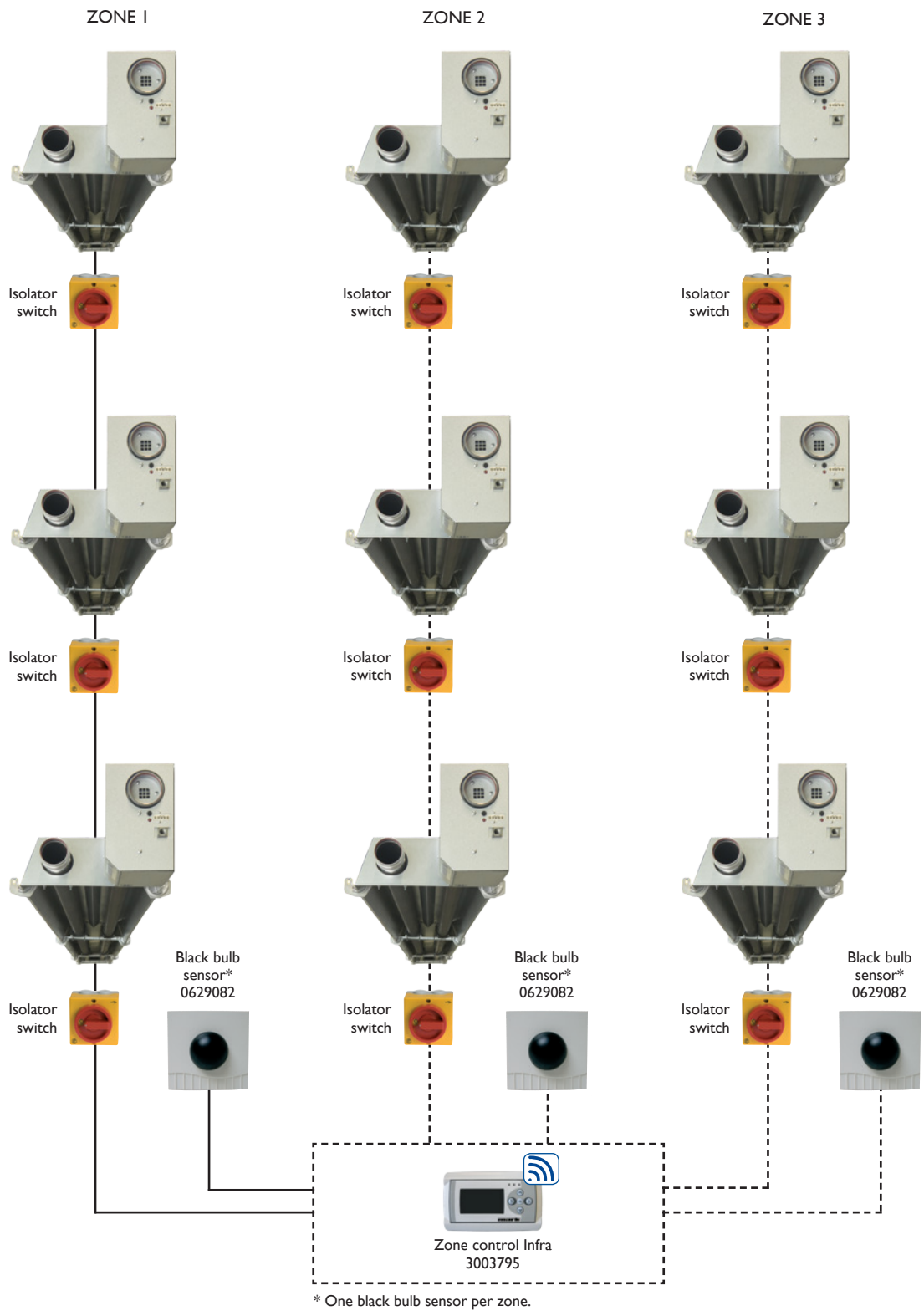


Controls



Waterproof stainless steel Infra, the perfect solution for, for example, car washes.

Zone control





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