DAYGAS

Heating Systems

Product Catalogue

ABOUT US

Daygas heat systems were put in place in 2014 by young entrepreneurs in Istanbul and started producing gas heaters in open and closed areas. Since the Daygas organization, it has established unconditional customer satisfaction.

Daygas brings to final consumers efficient, economical, quality and functional products that enhance innovation and R&D work, saving energy in the heating industry.

Our company has been operating since 2014 and has been operating in production, sale and aftersales activities of ceramic fillet heaters, industrial ceramic fillet heaters, hot air generators, pipetype fillet heaters and electric infrared heaters.

Vision

To minimize carbon footprint and produce nature friendly products with innovative, technological, economical, quality, functional devices that save energy in the heating and cooling industry.

Mission

To produce innovative, socially and environmentally conscious design, functional products with unconditional customer satisfaction principle and economic quality..

CONTENTS

High standard temperature

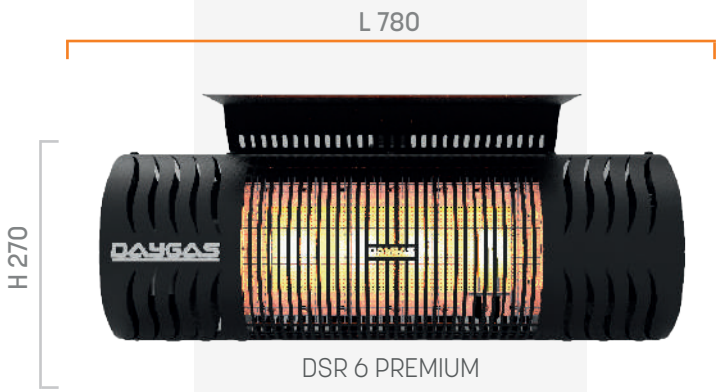
Daygas Radiant Heating Systems derived from NG, LPG and electricity based on the heating principle of sunlight high efficiency heating that converts energy into heat energy and transmits it directly to the desired environment it's their technology.

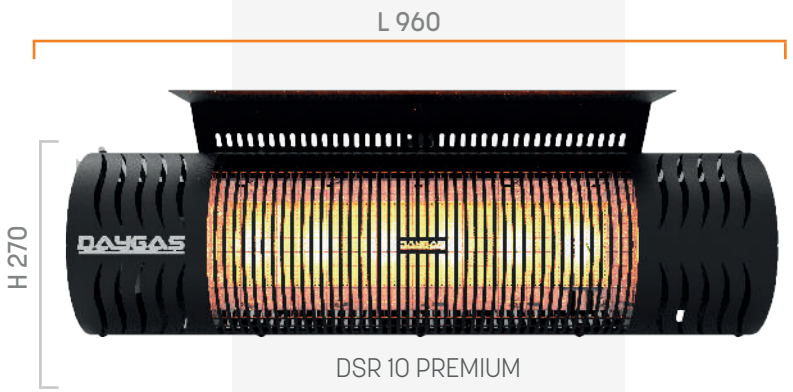
Daygas Radyant Heating Systems NG is the fastest source of energy from LPG and electricity it transmits in a way and has the ability to create the widest beam. Thanks to specially designed combustion surface compared to other radyant products with high efficiency and low energy consumption it gives you the upper hand. Simple to set up and use, reducing costs. Dimensions and ergonomic they are designed to fit the architectural structures of their areas of use.

Daygas radyant Heat Systems in cafes, restaurants, winter gardens, factories, warehouses, in the antrepoles, in sports halls and stadiums, places of worship, greenhouses and all open, semiopen or suitable for indoor use in sufficiently ventilated areas. Plus, on-demand project development and custom it can be designed for its intended purpose.

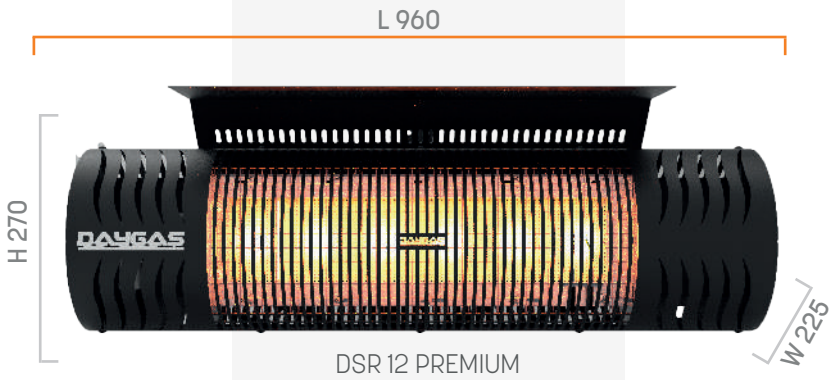
Daygas Radiant Heating Systems manual, with remote control or with other Daygas control units it's controllable. It can be produced stepless, 2-stage and 5-stage. All with one control You can check Daygas heating products.

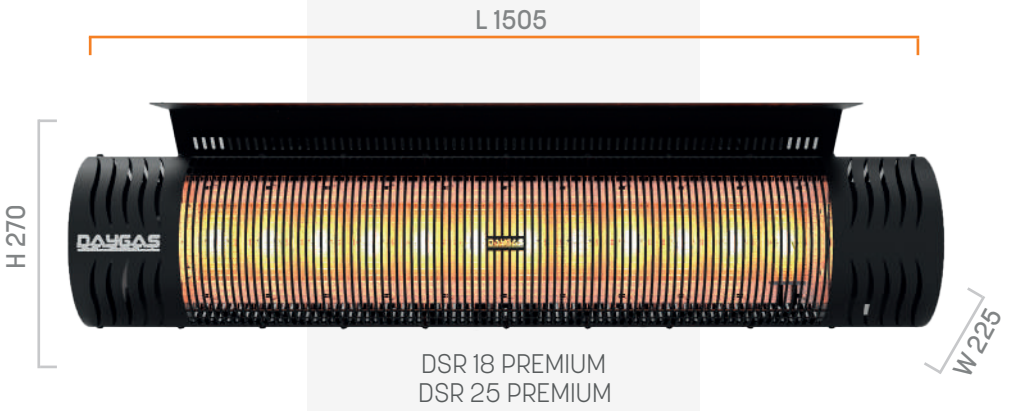
All Daygas branded products use world-class CE-certified materials. Metal components of products corrosion resistant and comfortable to use on seaside and damp environments.





	DSR 6 Premium Edition / Plus	DSR 10 Premium Edition / Plus
Capacity	6 kW	9 kW
Gas Consumption	NG 0,57m³/h / LPG 0,42kg/h	NG 0,86m³/h / LPG 0,63 kg/h
Dimensions	270h / 780L / 225w	270h / 960L / 225w
Weight	Net 13,35kg / Gross 14,75kg	Net 15,50kg / Gross 17,15kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Heating Area	min 9m² /avg 15m² / max 20m²	min 12m² /avg 20m² / max 30m²
Stage	Standard 2 / Plus 5	Standard 2 / Plus 5
Ceramic Plate	4 pcs	6 pcs
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"
Installation On Height	180 - 300cm	185 - 350cm
Parcel Dimensions	300h /820L /300w	300h /1010L /300w

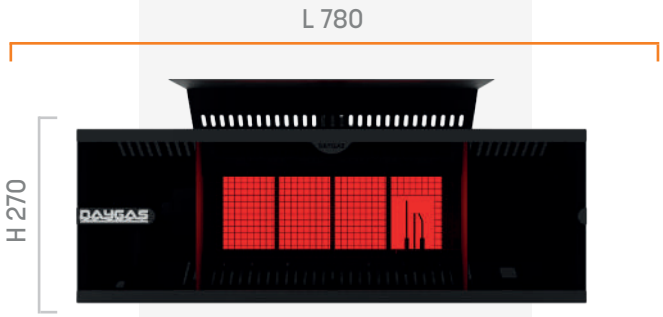




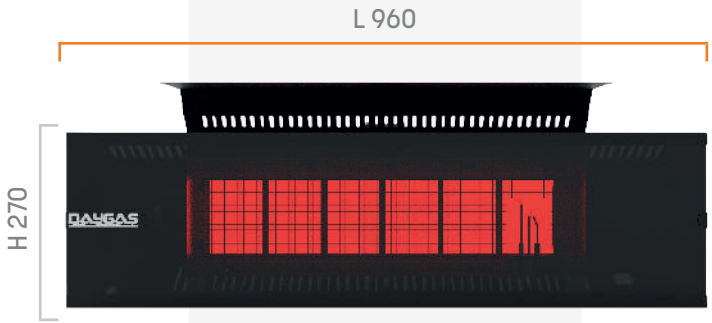
	DSR 12 Premium Edition / Plus	DSR 18 Premium Edition / Plus	DSR 25 Premium Edition / Plus
Capacity	12 kW	18 kW	25 kW
Gas Consumption	NG 1,14m³/h / LPG 0,84kg/h	NG 1,71m³/h / LPG 1,27 kg/h	NG 2,38m³/h / LPG 1,76 kg/h
Dimensions	270h / 960L / 225w	270h / 1505L / 225w	270h / 1505L / 225w
Weight	Net 15,50kg / Gross 17,15kg	Net 30,55kg / Gross 33,1kg	Net 30,55kg / Gross 33,1kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Heating Area	min 18m² /avg 25m² / max 40m²	min 25m² /avg 30m² / max 50m²	min 30m² /avg 35m² / max 55m²
Stage	Standard 2 / Plus 5	Standard 2 / Plus 5	Standard 2 / Plus 5
Ceramic Plate	6 pcs	12 pcs	12 pcs
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"	G ¾"
Installation On Height	190 - 350cm	210 - 450cm	220 - 450cm
Parcel Dimensions	300h /1010L /300w	300h /1560L /300w	300h /1560L /300w

From All Angles
Same Quality Temperature

You can reach any temperature in your area at any time of day by positioning the DAYGAS heater variants in different locations.

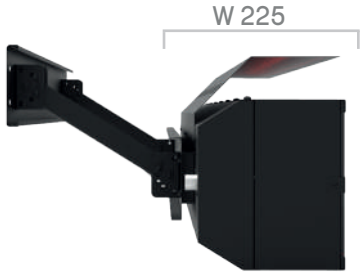


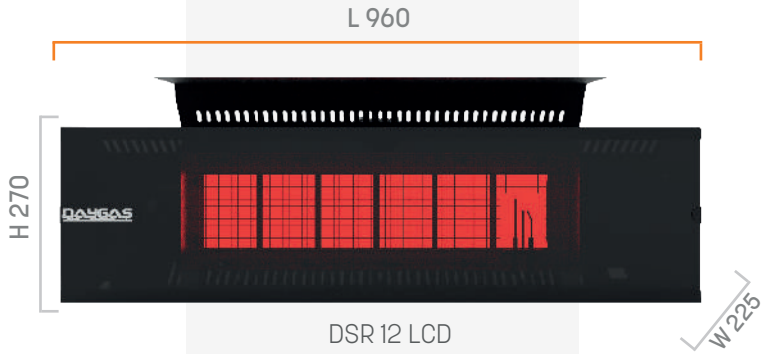
DSR 6 LCD

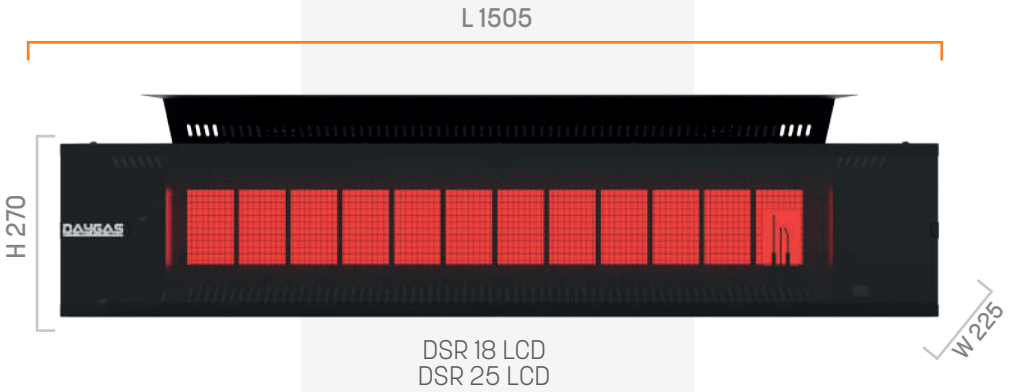


DSR 10 LCD

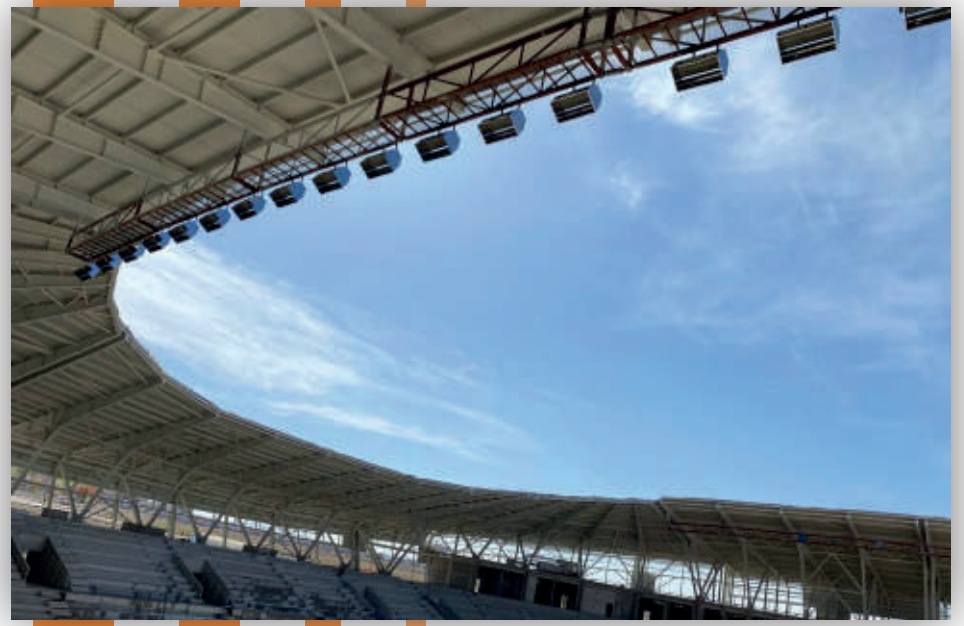
	DSR 6 LCD Edition / Plus	DSR 10 LCD Edition / Plus
Capacity	6 kW	9 kW
Gas Consumption	NG 0,57m³/h / LPG 0,42kg/h	NG 0,86m³/h / LPG 0,63 kg/h
Dimensions	270h / 780L / 225w	270h / 960L / 225w
Weight	Net 16,40kg / Gross 17,8kg	Net 18,80kg / Gross 20,45kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Heating Area	min 7,65m² /avg 12,75m² / max 17m²	min 11,8m² /avg 17m² / max 25,5m²
Stage	Standard 2 / Plus 5	Standard 2 / Plus 5
Ceramic Plate	4 pcs	6 pcs
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"
Installation On Height	180 - 300cm	185 - 350cm
Parcel Dimensions	300h /820L /300w	300h /1010L /300w





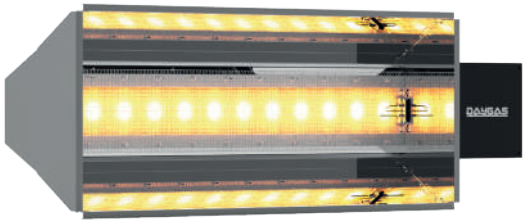


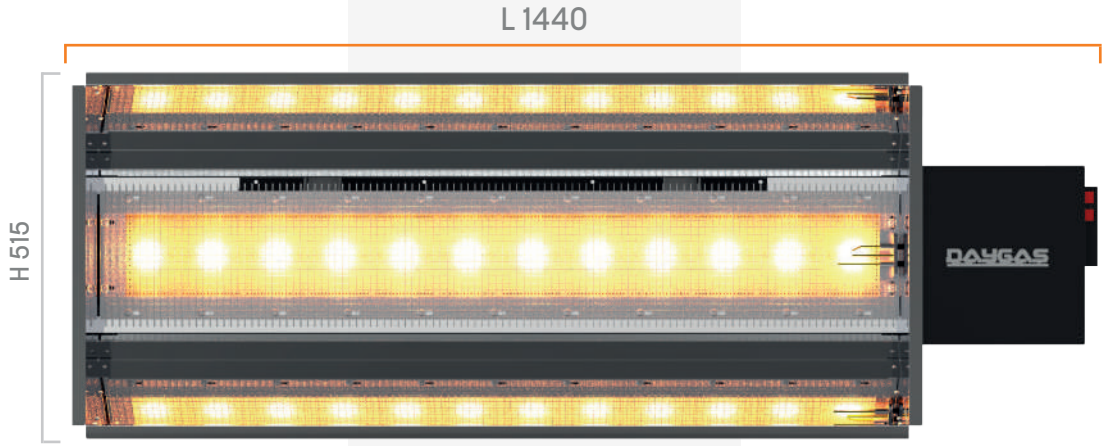
	DSR 12 LCD Edition / Plus	DSR 18 LCD Edition / Plus	DSR 25 LCD Edition / Plus
Capacity	12 kW	18 kW	25 kW
Gas Consumption	NG 1,14m³/h / LPG 0,84kg/h	NG 1,71m³/h / LPG 1,27 kg/h	NG 2,38m³/h / LPG 1,76 kg/h
Dimensions	270h / 960L / 225w	270h / 1505L / 225w	270h / 1505L / 225w
Weight	Net 18,80kg / Gross 20,45kg	Net 38,05kg / Gross 40,6kg	Net 38,05kg / Gross 40,6kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Heating Area	min 15,3m² /avg 21,25m² / max 34m²	min 21,25m² /avg 25,5m² / max 42,5m²	min 25,5m² /avg 30m² / max 46,5m²
Stage	Standard 2 / Plus 5	Standard 2 / Plus 5	Standard 2 / Plus 5
Ceramic Plate	6 pcs	12 pcs	12 pcs
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"	G ¾"
Installation On Height	190 - 350cm	210 - 450cm	220 - 450cm
Parcel Dimensions	300h /1010L /300w	300h /1560L /300w	300h /1560L /300w



DSR Ceramic Heaters
Areas Of Use

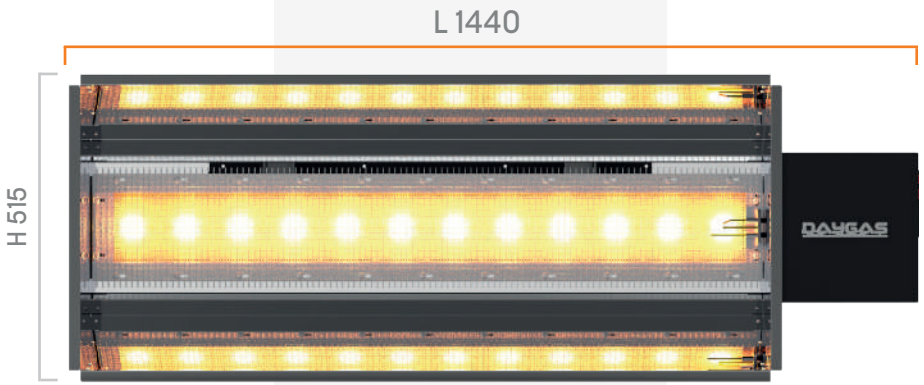
Daygas DSR and DSR E ceramic radiant heating systems in cafes, restaurants, winter gardens, factories, warehouses, suitable for use in antrepolaries, sports halls and stadiums, places of worship and indoor areas that are all open, semi-open or adequately ventilated.



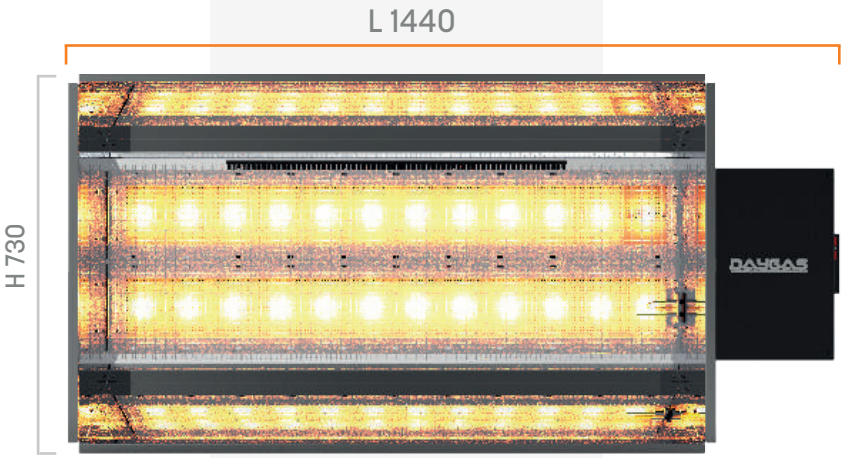


DSR Industrial 25
DSR Industrial 30

	DSR 25 Industrial Edition / Plus	DSR 30 Industrial Edition / Plus
Capacity	25 kW	30 kW
Gas Consumption	NG 2,38m³/h / LPG 1,76kg/h	NG 2,85m³/h / LPG 2,11 kg/h
Dimensions	515h / 1440L / 410w	515h / 1440L / 410w
Weight	Net 31,80kg / Gross 36,60kg	Net 31,80kg / Gross 36,60kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Heating Area	min 35m² /avg 40m² / max 60m²	min 40m² /avg 50m² / max 70m²
Stage	Standard 2 / Plus 5	Standard 2 / Plus 5
Ceramic Plate	12 pcs	12 pcs
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"
Installation On Height	230-450cm	250 - 500cm
Parcel Dimensions	550h /1470L /450w	550h /1470L /450w

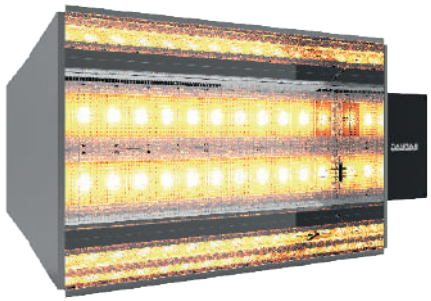


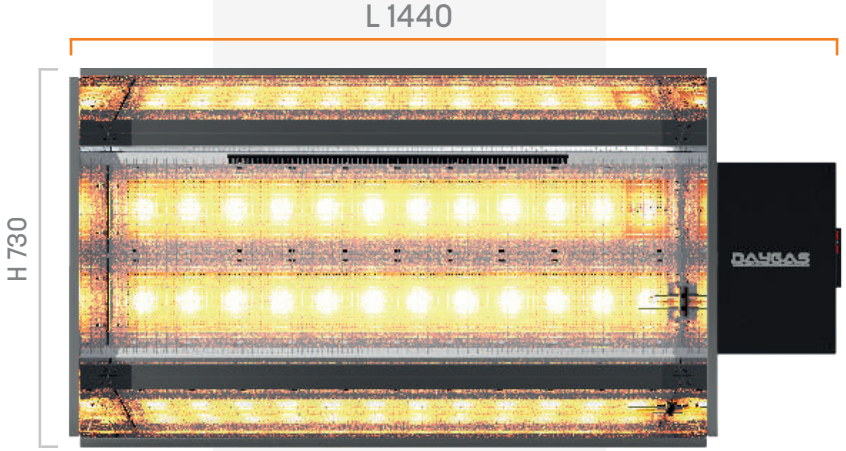
DSR Industrial 35-36



DSR Industrial 38-40

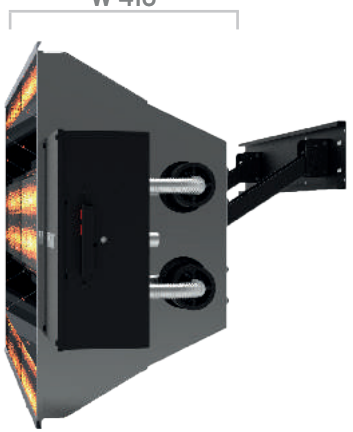
	DSR 35-36 Industrial Edition / Plus	DSR 38-40 Industrial Edition / Plus
Capacity	35-35,5 kW	38-38,5 kW
Gas Consumption	NG 3,37m³/h / LPG 2,50kg/h	NG 3,61m³/h / LPG 2,67 kg/h
Dimensions	515h / 1440L / 410w	710h / 1440L / 410w
Weight	Net 31,80kg / Gross 36,60kg	Net 51,85kg / Gross 58,3kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Heating Area	min 45m² /avg 55m² / max 75m²	min 55m² /avg 65m² / max 90m²
Stage	Standard 2 / Plus 5	Standard 2 / Plus 5
Ceramic Plate	12 pcs	24 pcs
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"
Installation On Height	270-550cm	300 - 900cm
Parcel Dimensions	550h /1470L /450w	730h /1470L /450w





DSR Industrial 50
DSR Industrial 56

	DSR 50 Industrial Edition / Plus	DSR 56 Industrial Edition / Plus
Capacity	48 kW	56 kW
Gas Consumption	NG 3,66m³/h / LPG 2,71 kg/h	NG 5,32m³/h / LPG 3,94 kg/h
Dimensions	710h / 1440L / 410w	710h / 1440L / 410w
Weight	Net 51,85kg / Gross 58,3kg	Net 51,85kg / Gross 58,3kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Heating Area	min 56m² /avg 67m² / max 94m²	min 80m² /avg 100m² / max 135m²
Stage	Standard 2 / Plus 5	Standard 2 / Plus 5
Ceramic Plate	24 pcs	24 pcs
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"
Installation On Height	330 - 1000cm	350-1200cm
Parcel Dimensions	730h /1470L /450w	730h /1470L /450w



DSR Ceramic Radiant Heaters

Special design with high heat capability Daygas ceramic stone, **effective and economical power in local heating solutions...**

- Technology from the sun.
- All metal components are high temperature resistant and long lasting.
- All electrical components consist of high heat resistant non flammable silicone cables.

Ceramic Stones

Daygas ceramic radiant devices use special edition Daygas ceramic stones.

The radiant wavelength must be within the infrared range. This is because the ceramic stone surface area is radiated in accordance with the desired conditions, the selection and quality of the stone are very important.

Homogeneous Heat Dissipation

Space - Saving Design

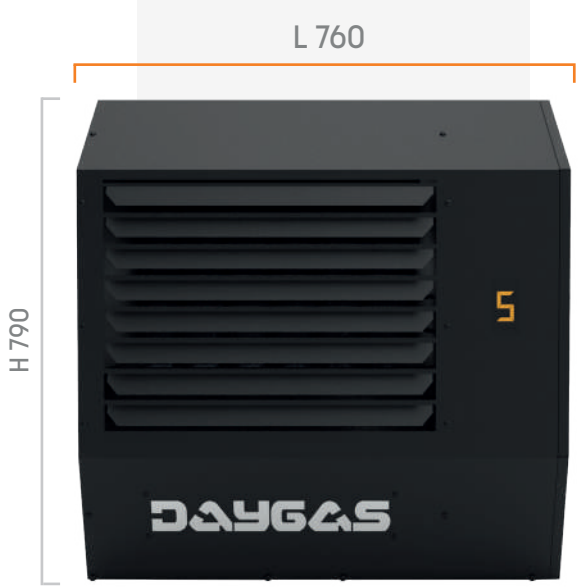
Lodos hot air generators heat the area where direct conventions are required with a technological burner structure that releases minimal waste gas. Heat generated in blades with increased efficiency, an axial fan they are the most homogeneous heat dissipation devices since they are transferred directly to the media.

	Lodos 16	Lodos 20	Lodos 25
Capacity	16 kW	20 kW	25 kW
Gas Consumption	NG 1,52m³/h / LPG 1,12kg/h	NG 1,90m³/h / LPG 1,41 kg/h	NG 2,38m³/h / LPG 1,76 kg/h
Dimensions	600h / 525L / 675w	600h / 525L / 675w	600h / 525L / 675w
Weight	Net 39,00kg / Gross 43,00kg	Net 39,00kg / Gross 43,00kg	Net 39,00kg / Gross 43,00kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Heating Area m²	min 80m² /avg 100m² / max 120m²	min 100m² /avg 125m² / max 150m²	min 120m² /avg 150m² / max 180m²
Heating Area m³	min 240m³ /avg 300m³ / max 360m³	min 300m³ /avg 375m³ / max 450m³	min 360m³ /avg 450m³ / max 540m³
Free Space Audio	50 d-BA	50 d-BA	50 d-BA
Op. Environment Sound	39 d-BA	39 d-BA	39 d-BA
Deby m³	3300 m³	3300 m³	3300 m³
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"	G ¾"
Parcel Dimensions	610h / 555L / 685w	610h / 555L / 685w	610h / 555L / 685w

Radial Fan Selection: Our devices are suitable for use with channel type and radial fan.
You can find out from your sales advisor on the subject.

	Lodos 30	Lodos 35	Lodos 40
Capacity	30 kW	35 kW	40 kW
Gas Consumption	NG 2,85m³/h / LPG 2,11kg/h	NG 3,33m³/h / LPG 2,46 kg/h	NG 3,80m³/h / LPG 2,81 kg/h
Dimensions	660h / 660L / 820w	660h / 660L / 820w	660h / 660L / 820w
Weight	Net 49,00kg / Gross 54,00kg	Net 49,00kg / Gross 54,00kg	Net 49,00kg / Gross 54,00kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Heating Area m²	min 152m² /avg 190m² / max 228m²	min 176m² /avg 220m² / max 264m²	min 200m² /avg 250m² / max 300m²
Heating Area m³	min 456m² /avg 570m² / max 684m²	min 528m² /avg 660m² / max 792m²	min 600m² /avg 750m² / max 900m²
Free Space Audio	55 d-BA	55 d-BA	55 d-BA
Op. Environment Sound	43 d-BA	43 d-BA	43 d-BA
Deby m³	3500 m³	3500 m³	3500 m³
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"	G ¾"
Parcel Dimensions	670h / 690L / 830w	670h / 690L / 830w	670h / 690L / 830w

Radial Fan Selection: Our devices are suitable for use with channel type and radial fan.
You can find out from your sales advisor on the subject.



	Lodos 45	Lodos 50	Lodos 55
Capacity	45 kW	50 kW	55 kW
Gas Consumption	NG 4,28m³/h / LPG 3,16kg/h	NG 4,75m³/h / LPG 3,52 kg/h	NG 5,23m³/h / LPG 3,87 kg/h
Dimensions	790h / 760L / 820w	790h / 760L / 820w	790h / 760L / 820w
Weight	Net 73,75kg / Gross 88,60kg	Net 73,75kg / Gross 88,60kg	Net 73,75kg / Gross 88,60kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Heating Area m²	min 224m² /avg 280m² / max 336m²	min 250m² /avg 300m² / max 365m²	min 275m² /avg 330m² / max 395m²
Heating Area m³	min 672m³ /avg 840m³ / max 1008m³	min 740m² /avg 930m² / max 1100m²	min 810m³ /avg 1020m³ / max 1208m³
Free Space Audio	55 d-BA	55 d-BA	55 d-BA
Op. Environment Sound	43 d-BA	43 d-BA	43 d-BA
Deby m³	3500 m³	3500 m³	3500 m³
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"	G ¾"
Parcel Dimensions	800h / 790L / 820w	800h / 790L / 820w	800h / 790L / 820w

Axial Fan Selection: Depending on the usage areas, the axial fan size of Lodos 45-50-55 devices can be modified optionally. You can find out from your sales advisor about the topic.

Radial Fan Selection: Our devices are suitable for use with channel type and radial fan. You can find out from your sales advisor on the subject.

	Lodos 60	Lodos 70	Lodos 80
Capacity	60 kW	69,7 kW	80 kW
Gas Consumption	NG 5,70m³/h / LPG 4,22kg/h	NG 6,65m³/h / LPG 4,92kg/h	NG 7,55m³/h / LPG 5,60kg/h
Dimensions	790h / 1057L / 842w	790h / 1057L / 842w	790h / 1057L / 842w
Weight	Net 103,25kg / Gross 124,04kg	Net 103,25kg / Gross 124,04kg	Net 103,25kg / Gross 124,04kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Heating Area m²	min 325m² /avg 390m² / max 470m²	min 350m² /avg 420m² / max 505m²	min 375m² /avg 450m² / max 540m²
Heating Area m³	min 750m³ /avg 1200m³ / max 1424m³	min 820m³ /avg 1290m³ / max 1532m³	min 890m³ /avg 1360m³ / max 1600m³
Free Space Audio	62 d-BA	62 d-BA	62 d-BA
Op. Environment Sound	50 d-BA	50 d-BA	50 d-BA
Deby m³	6900 m³	6900 m³	6900 m³
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"	G ¾"
Parcel Dimensions	800h / 1060L / 852w	800h / 1060L / 852w	800h / 1060L / 852w

Radial Fan Selection: Our devices are suitable for use with channel type and radial fan.
You can find out from your sales advisor on the subject.

Lodos Hot Air Generators

Daygas Lodos hot air generators are the devices that provide heating of the heat energy from NG or LPG, either directly to the environment on which the fan is fitted, or by blowing hot air through the air ducts. The Daygas Lodos hot air generator devices provide high efficiency and low energy consumption thanks to a specially designed boiler structure. The special design is the lowest operating sound with a boiler and body structure. He works quieter than his counterparts. Due to the rise of the heating air, it is recommended that hot air generators be used in confined spaces that do not exceed ceiling height 5m to provide more efficient and homogeneous heating.

Characteristics of Lodos Hot Air Generators

- 5-stage with thermostats or remote control
- Notification of fault and stage on the display screen
- Custom design boiler construction for enhanced productivity
- High level of safety
- Safe gas valve system
- Quick start-up
- Low energy consumption
- Low emission ratio
- Silent operation
- Cooling mode

In the winter the Lodosbreeze,
Cooling pleasure in hot weather.

- All metal components are high temperature resistant long life aluminum-silicon alloy.
- Electrical components consist of high heat resistant nonflammable silicone cables.
- The ability to work Hermatic and semi-hermatic.

Long Life Temperature
Radium Tube Radiant

Thanks to balanced load distribution and increased flame size burner and aerodynamic maximized fans, the products are as smooth as the first day without losing performance for many years it continues to work.

L 4200

Radium U 15
Radium U 20

L 7200-10200

Radium U 30
Radium U 35

	Radium U 15	Radium U 20	Radium U 30	Radium U 35
Capacity	15 kW	20 kW	30 kW	35 kW
Gas Consumption	NG 1,43m³/h / LPG 1,05kg/h	NG 1,90m³/h / LPG 1,41kg/h	NG 2,85m³/h / LPG 2,11 kg/h	NG 3,33m³/h / LPG 2,46 kg/h
Dimensions	250h / 4200L / 405w	250h / 4200L / 405w	250h / 7200-10200L / 405w	250h / 7200-10200L / 405w
Weight	Net 65,00kg / Gross 80,00kg	Net 65,00kg / Gross 80,00kg	Net 120-175kg / Gross 150-220kg	Net 120-175kg / Brüt 150-220kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Installation On Height	250-450cm	250-450cm	260-470cm	280-800cm
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"	G ¾"	G ¾"

L 7200 - 10200

Radium U 40
Radium U 45

L 10200 - 13200

Radium U 50
Radium U 55

	Radium U 40	Radium U 45	Radium U 50	Radium U 55
Capacity	40 kW	45 kW	50 kW	55 kW
Gas Consumption	NG 3,80m³/h / LPG 2,81kg/h	NG 4,28m³/h / LPG 3,16kg/h	NG 4,75m³/h / LPG 3,52kg/h	NG 5,23m³/h / LPG 3,87kg/h
Dimensions	250h / 7200-10200L / 405w	250h / 7200-10200L / 405w	250h / 10200-13200L / 405w	250h / 10200-13200L / 405w
Weight	Net 120-175kg / Gross 150-220kg	Net 120-175kg / Gross 150-220kg	Net 175-200kg / Gross 220-240kg	Net 175-200kg / Gross 220-240kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Installation On Height	300-900cm	320-1000cm	350-1200cm	400-1300cm
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"	G ¾"	G ¾"

L 10200 - 13200

Radium U 60

L 16200

Radium U 71

	Radium U 60	Radium U 71
Capacity	60 kW	69,7 kW
Gas Consumption	NG 5,70m³/h / LPG 4,22kg/h	NG 6,75m³/h / LPG 5,00kg/h
Dimensions	250h / 10200-13200L / 405w	250h / 16200L / 405w
Weight	Net 175-200kg / Gross 220-240kg	Net 220kg / Gross 260kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Installation On Height	425-1350cm	450-1400cm
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"

L 3900

Radium I 15

Radium I 30

L 6900 - 9900

L 3900 - 6900

Radium I 20

	Radium I 15	Radium I 20	Radium I 30
Capacity	15 kW	20 kW	30 kW
Gas Consumption	NG 1,43m³/h / LPG 1,05kg/h	NG 1,90m³/h / LPG 1,41kg/h	NG 2,85m³/h / LPG 2,11 kg/h
Dimensions	250h / 3900L / 260w	250h / 3900-6900L / 260w	250h / 6900-9900L / 260w
Weight	Net 35kg / Gross 45kg	Net 35-60kg / Gross 45-80kg	Net 60-85kg / Gross 80-105kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Installation On Height	250-450cm	250-450cm	260-470cm
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"	G ¾"

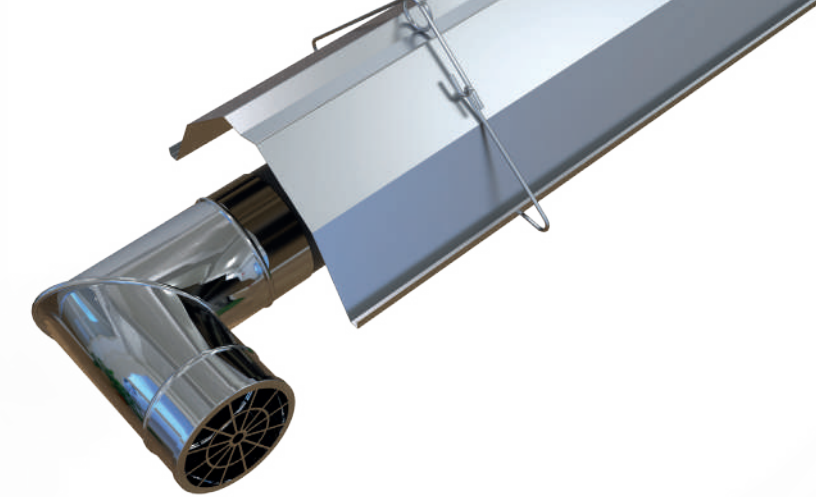
L 6900 - 9900 - 12900

Radium I 35

L 9900 - 12900 - 15900

Radium I 40
Radium I 45

	Radium I 35	Radium I 40	Radium I 45
Capacity	35 kW	40 kW	45 kW
Gas Consumption	NG 3,33m³/h / LPG 2,46 kg/h	NG 3,80m³/h / LPG 2,81kg/h	NG 4,28m³/h / LPG 3,16kg/h
Dimensions	250h / 6900-9900-12900L / 260w	250h / 9900-12900-15900L / 260w	250h / 9900-12900-15900L / 260w
Weight	Net 60-85-110kg / Gross 80-105-150kg	Net 85-110-135kg/ Gross 105-150-185kg	Net 85-110-135kg/ Gross 105-150-185kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Installation On Height	280-800cm	300-900cm	320-1000cm
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"	G ¾"



L 12900 - 15900

Radium I 50
Radium I 55

	Radium I 50	Radium I 55
Capacity	50 kW	55 kW
Gas Consumption	NG 4,75m³/h / LPG 3,52kg/h	NG 5,23m³/h / LPG 3,87kg/h
Dimensions	250h / 12900-15900L / 260w	250h / 12900-15900L / 260w
Weight	Net 110-135kg / Gross 150-185kg	Net 110-135kg / Gross 150-185kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Installation On Height	350-1200cm	400-1300cm
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"

L 15900 - 18900

Radium I 60

L 18900

Radium I 71

	Radium I 60	Radium I 71
Capacity	60 kW	69,7 kW
Gas Consumption	NG 5,70m³/h / LPG 4,22kg/h	NG 6,75m³/h / LPG 5,00kg/h
Dimensions	250h / 15900-18900L / 260w	250h / 18900L / 260w
Weight	Net 135-160kg / Gross 185-230kg	Net 160kg / Gross 230kg
Operating Pressure	21-55mbr NG / 32-55mbr LPG	21-55mbr NG / 32-55mbr LPG
Installation On Height	500-1300cm	450-1400cm
Electrical Connection	230-240VAC 50-60Hz +/-%15	230-240VAC 50-60Hz +/-%15
Gas Connection	G ¾"	G ¾"

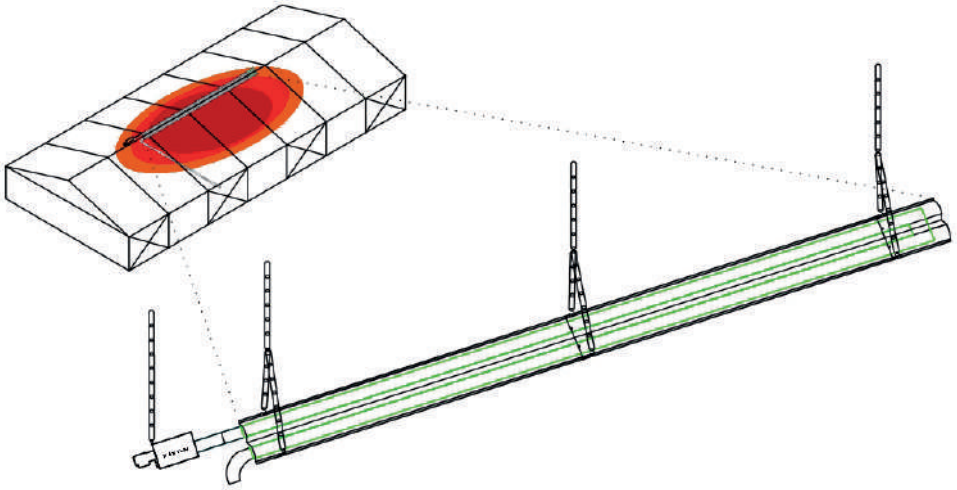
Radium Tube Radiant Heaters

Daygas Radium tube type radiant heaters are modern devices designed to heat high ceilings and large volumes. Radium warms the atmosphere by reflecting the heat energy generated by the combustion of the air-gas mixture inside the radiant tubes into the desired environment thanks to parabolic design aluminum reflectors. Radium tube type radiants heat people and objects. This ensures optimal comfort for heating.

Properties of Radium Tube Radiant Heaters

- 2-stage with thermostats or remote control
- Notification of fault and stage on the display screen
- Warm up by radiation without air ventilation
- We produce two types of tubelar Radium I and U
- Heat resistant non-flammable cable
- High level of safety
- Safe gas valve system
- Simple service and assembly
- Quick start-up
- Low energy consumption
- Low emission ratio
- Frost protection

Radium Radiant Heaters Pipes



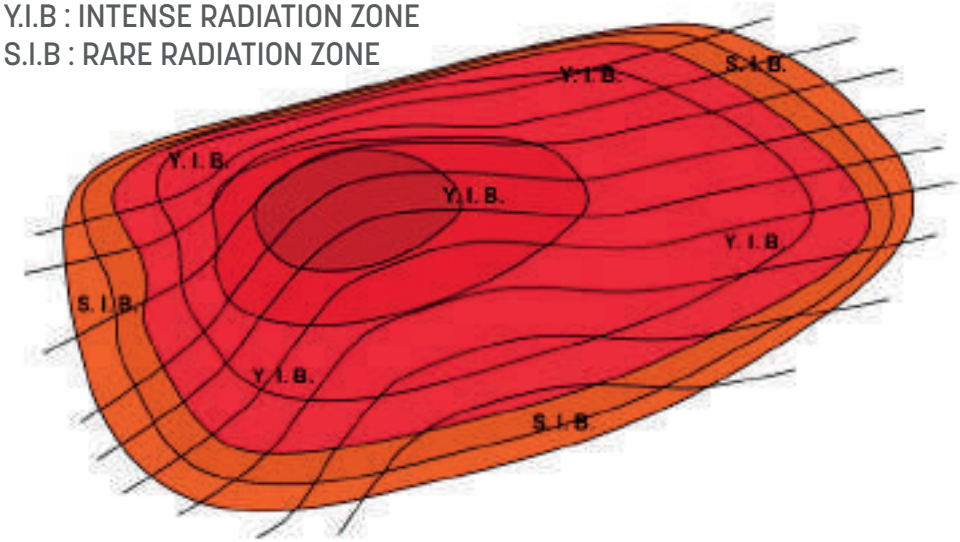
- The tubular radiant heaters use heat treated aluminum steel fillet tubes.
- From raw to finished pipe, the production process is subject to special processes to show the highest radiation capability in the areas of use.
- Our fillet tubes are tubes for your high performance aluminas. These pipes are made of calorie steel coils to your aluminum.
- With pipes, we provide efficient, low capacity, efficient heating to end users.

Why is the calorized Aluminum the best?

	RADYANT YIELD	RADIATION EFFECT	WEAR RESISTANCE	PEELING STRENGTH
CalorizedAluminum	●●◖	●●◖	●●●	●●●
Aluminum Steel	◖	●	●●	●●
Painted Aluminum Steel	●●	●●◖	●●◖	●
Hot Rolled Steel	●◖	●◖	●	●
Hot Rolling Paint Steel	●●	●●	●	●
Stainless Steel	◖	◖	●●●	●●●
Painted Stainless Steel	●◖	●●◖	●●●	●

Radium Radiant Heaters Heat Dissipation

Y.I.B : INTENSE RADIATION ZONE
S.I.B : RARE RADIATION ZONE



* Radium Tube Radiant Heat Dissipation Izohips Curve

Radium tube radiant device adjacent temperature distribution isohips curve Y.I.B the ability to address a large area, as in the curve, is due to the high radiant efficiency of the radiant tube material to radiate.

* Radiant Efficiency

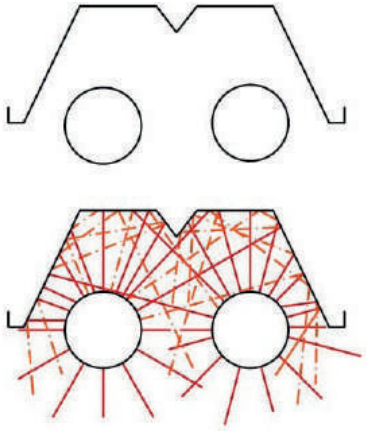
We use steel-specific radiant tubes to your aluminum, with a radiant efficiency of 92%. We achieve high efficiency by minimizing heat losses.

Importance Of Tube On Piped Radiant Devices:

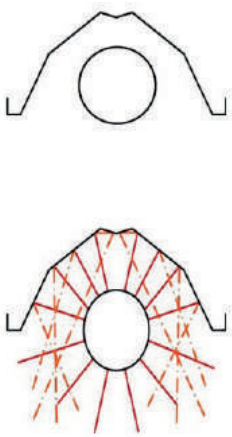
The flame, which is created by the flapping of the air-fuel mixture in the burner, flows through the pipe into the chimney gas and the waste gas is thrown out of the chimney. During this process, the energy generated by the burning of gas in the pipe is transmitted to the pipe. Heating is ensured by the way that the pipe emits its energy from the inside of the pipe by radiating the outside area to the environment where it is located. Therefore, the maximum heat transfer and radiation capability of all these processes is directly related to the quality and suitability of the fillet tube.

Reflectors of Radium Radiant Heaters

U Type Tubular Reflector

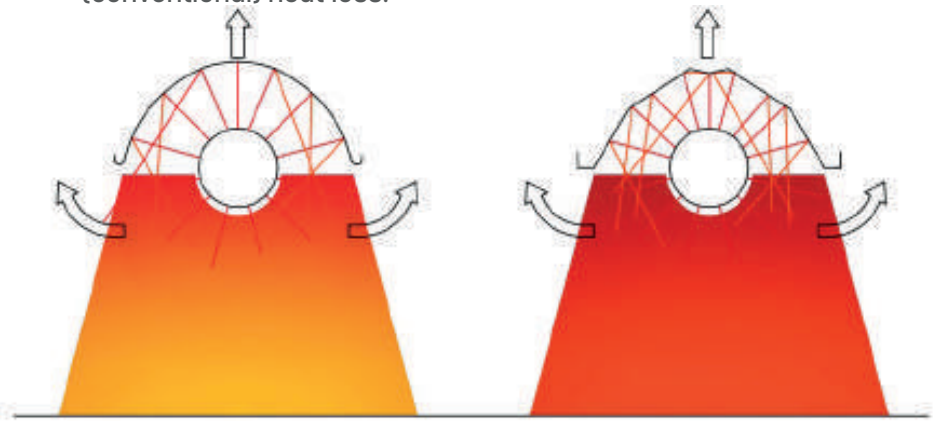


I TypeTubularReflector



Classic parabolic reflector25% convection (conventional) heat loss.

Daygas angled parabolic reflectors prevent heat loss.



- The beam emanating from the tubular surface area.
- The beam reflected from the reflector.

The radiation beams coming out of the pipe surface area are indicated by red color (straight line), the beam beams reflected from the reflector are indicated by orange (dashed line). Normally, the radiation continues on its way, leaving a part of its energy on each surface it hits. The choice of material of the reflector (reflector) comes into play here, and it is desirable to reflect it as it is, without consuming the energy of the radiation incident on it. Aware of the importance of this, reflective aluminum material with high reflective properties is used in our products.

In tubular radiants, radiation occurs in the surface area of the pipe. In places where devices are hung, reflective, in other words reflectors, are used in tubular radiant devices to take advantage of the energy of the radiation that goes from the surface area to dead points (usually the part facing the ceiling).
The use of a reflector reflects the radiation going to dead spots and sends it back to the desired environment / area, as well as supports the heating of the surface area more as a result of the radiation coming out of the pipe and hitting the pipe surface again, and increasing the radiation capacity due to this.

Radium Radiant Heaters Report

Emissivity

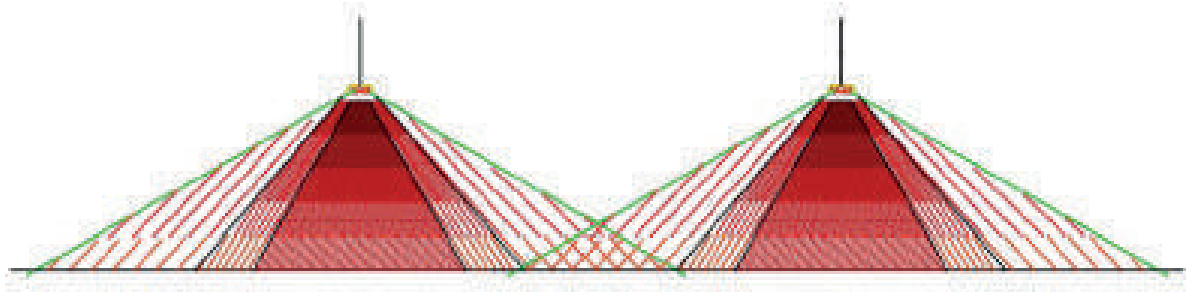
Emissivity is a dimensionless number that gives a measure of how well an object can emit energy compared to a black body. The ability to emit may depend on factors such as body temperature, the wavelength December considered for the energy emitted, and the angle of propagation of the energy.

General		Subscripts	
ρ	Reflection (The ratio between the reflected and incident radiation Decurrent.)	λ	The Rays Emitted by Substances (Depending on the wavelength.)
α	Absorption / Absorption (The ratio between the absorbed and incoming radiation flu Dec.)	h	The Rays Emitted by Substances (Depending on the wavelength.)
ε	My Publication	θ	Direction
I	Radiant Intensity	n	Normal or Semi-Normal
E	Broadcasting Power	e	Expansive
		b	Black Body

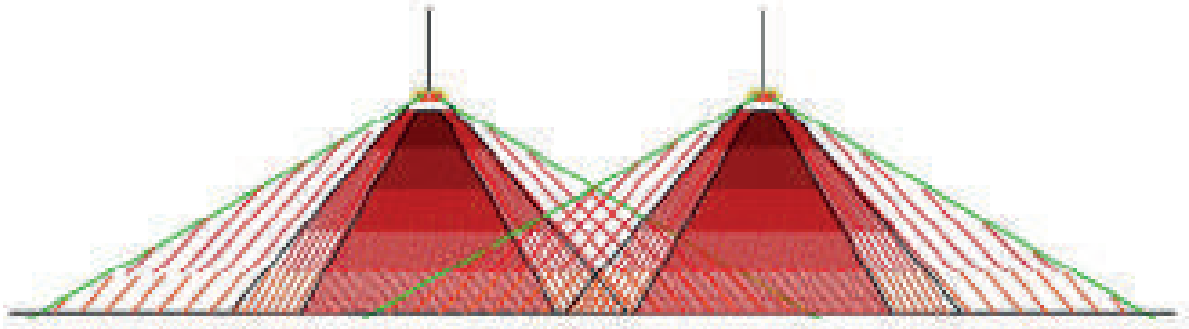
According to Kirchhoff's law, if the radiation emitting power of a substance is 'E' and the absorption coefficient is 'α', they are equal to each other in theory. In other words, the emission (or emission coefficient) of a body at any temperature is equal to the absorption coefficient.For real bodies, ε depends largely on the structure of the surface, and the radiant wavelength, the arrival of the beam, also depends on the surface temperature. For real bodies, the Decimation coefficient varies between 0 and 1.0 < ε < 1

$$\varepsilon_{\lambda,\theta} = \frac{I_{\lambda,e}(\lambda,\theta,\rho,T)}{I_{\lambda,b}(\lambda,T)}$$

The Radiant Area of Radium Radiant Heaters



When designing tubular radiant device layouts, a layout plan is made according to the heat loss in the environment at the place where the devices will be used. The device layout design you see above, where insulation is sufficient and uniform heat distribution is not very important, optimal heating can be achieved by overlapping standard areas of influence.



In this way, if the device layout plan, heat loss is high, insulation is poor or the air flow is strong in the environment where the devices will be used, the intense radiation areas of the devices can be provided with optimal heating by overlapping each other.

The Radiant Area **of Radium Radiant Heaters**

When intersecting scanning angles, the intersection is made by taking into account not only the horizontal positioning of the devices, but also the hanging heights.

For example; Lets take the Daygas Radium 60 kW U tube type radiant heater device;
From the catalog data, the device min. hanging height: 425
max. hanging height: 1350 cm

Selectable radiant pipe meter within the capacity limits of the device: 9-15-18 meters
When the design is made to have a radiant pipe of 9 meters and a hanging height of 6 meters at the place where it will be used;

Standard scanning angle below one 60 kW U-tube radiant device at the specified hanging height and pipe meter;

Standard radiation length Lu : h*2
= 6*2
= 12 meters

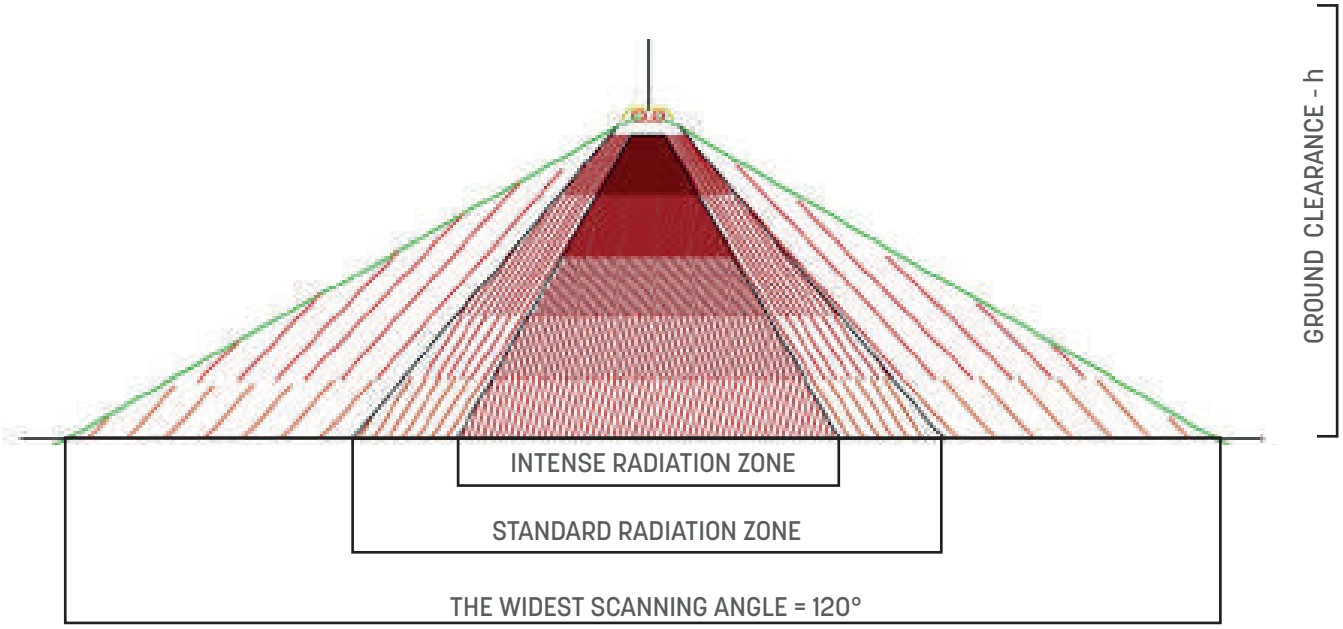
Standard radiation effect width Lux : Li + (Lu/2)
= 9 + (12/2)
= 15 meters

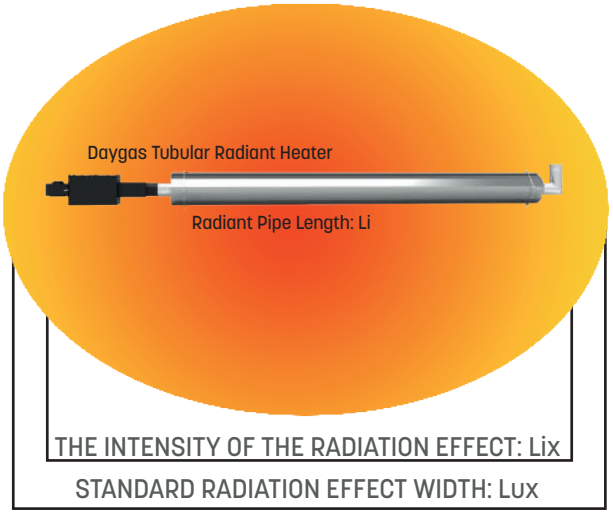
Scanning Area = Lu * Lux
= 12 x 15
= 180 m^2 we reach its value.

If the place where this device will be used will be heated by staying under the intense radiation zone; the scanning area decreases to ~ 90 m^2.

By intersecting this drop with the scanning angle of another tubular radiant, we can increase the scanning area up to 150 m^2.

The Radiant Area of Radium Radiant Heaters





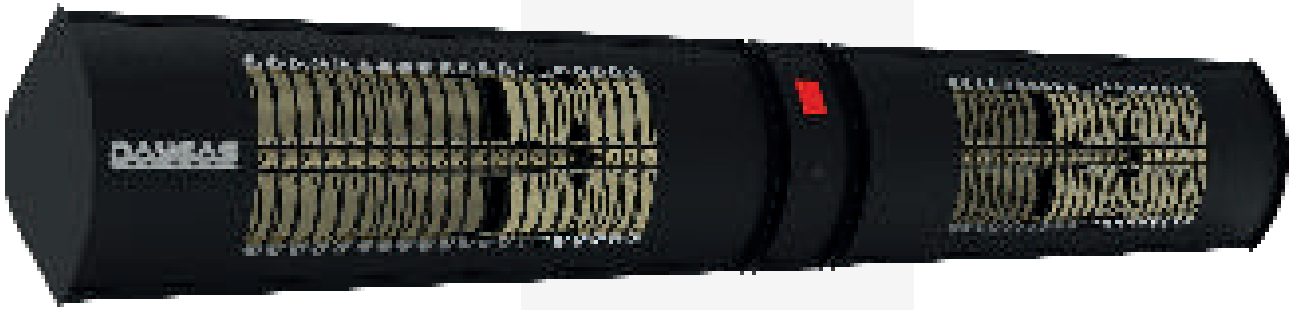
Lj = h*1.2
Lu = h*2

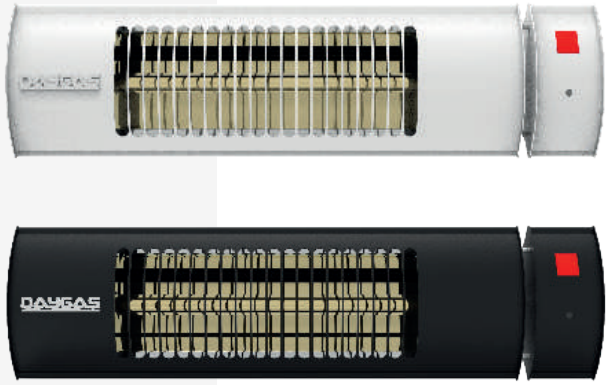
Ljx = Li+(Lj/2)
Lux = Li+(Lu/2)

r: Radiant hanging height.

The most important parameter in the selection of tubular radiant heater capacity is the hanging height. In addition, the device capacity and type are selected as a result of providing comfort and safety conditions in the areas to be irradiated.

In the drawing above, you can see the heating data obtained from tubular radiants, in other words, the radiation domains. When performing these calculations, the min given in the catalog values. and max. the hanging heights should be taken into consideration and the selection and number of pieces should be subtracted according to the area or environment where the heaters will be used.

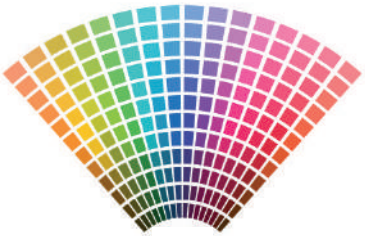




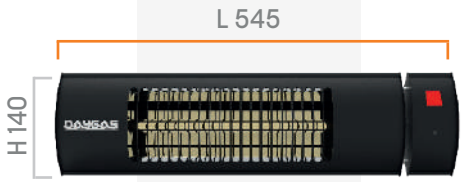
Effective Heating Solutions

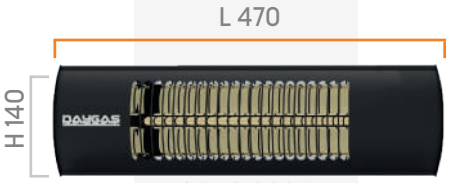
For Outdoor Areas With Solis

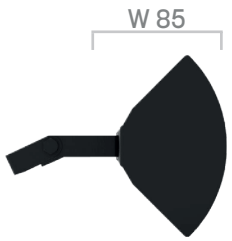
- IP67 Protection Class
- Parabolic Reflectors
- Different Color Options
- 10 Levels or Stepless Usage Opportunity

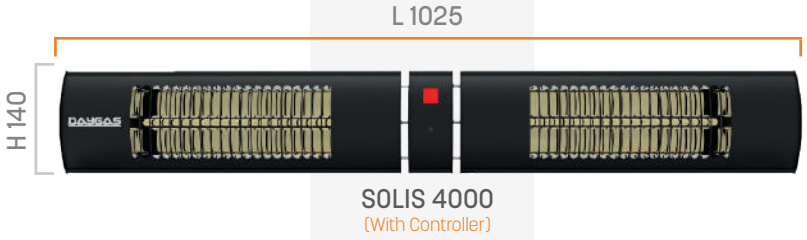


SOLIS





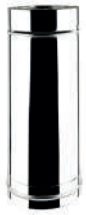




	Solis 2000 (With Controller)	Solis 4000 (With Controller)	Solis 2000 (Without Controller)	Solis 4000 (Without Controller)
Capacity	2000 W	4000 W	2000 W	4000 W
Electricity Consumption	2 VA	4 VA	2 VA	4 VA
Dimensions	140h / 545L / 85w mm	140h / 1025L / 85w mm	140h / 470L / 85w mm	140h / 940L / 85w mm
Weight	1,60kg	2,65kg	1,10kg	2,30kg
Electrical Connection	190-230 VAC / 50-60 Hz 230-240VAC 50-60Hz +/-%15	190-230 VAC / 50-60 Hz 230-240VAC 50-60Hz +/-%15	190-230 VAC / 50-60 Hz 230-240VAC 50-60Hz +/-%15	190-230 VAC / 50-60 Hz 230-240VAC 50-60Hz +/-%15
Heating Area	min 7m² /avg 10m² / max 15m²	min 15m² /avg 21m² / max 28m²	min 7m² /avg 10m² / max 15m²	min 15m² /avg 21m² / max 28m²
Installation On Height	150-250cm	150-250cm	150-250cm	150-250cm
IP Standards	--	--	IP67	IP67
Halogen Bulb Life	Ort. 7000 Saat	Avg. 7000 Hour	Avg. 7000 Hour	Avg. 7000 Hour

25 cm Chimney Pipe

50 cm Chimney Pipe



100 cm Chimney Pipe

15° Elbow

30° Elbow

45° Elbow

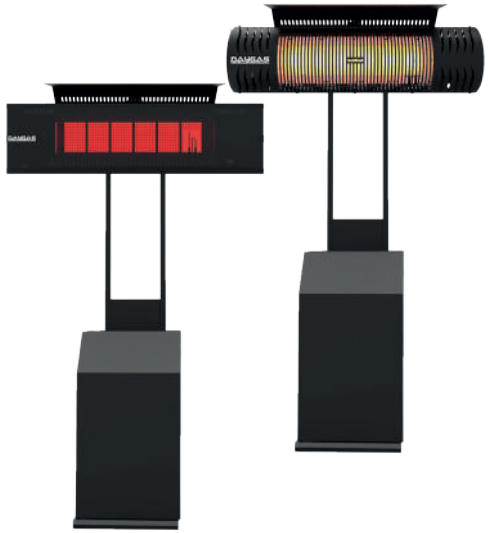
90° Elbow

Protected Elbow

Wall Fixing Clamps Eko

Wall Fixing Clamps Eko 11

Wall Fixing Clamps Eko 21



LPG Stand Up Kit

Lodos Wall Mounting Kit

Wind Protected Hat

Master Flash

Glass And Wall Cover

In waste gas sets, production can be made in ϕ 100- 120- 150 diameters.

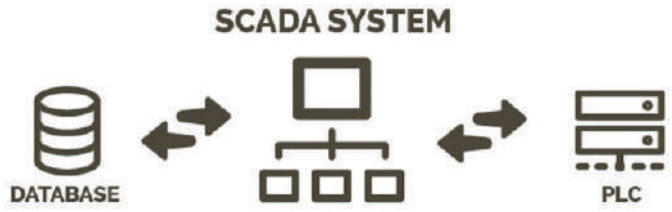
ACCESSORIES

Device **Controls**

There are different scenarios and control elements related to controlling the devices.
If we express under the main headings;

1. Integration into the automation system. (Control via Scada)
2. Integration via control board.
3. Pako switched manual control.
4. Thermostat-switchedautomaticcontrol.
5. Remote control.

The variety of control scenarios offered as 5 different alternatives allows the products to be managed correctly and in a desired way. The most appropriate control scenario is selected by evaluating the on-site use of the devices in our product range and the site conditions. Therefore, the control with the right solution scenario facilitates both fuel savings and long-lasting trouble-free service.



Integration to Automation System (Control over Scada)

Our devices can be integrated directly into building automation systems (bms) via modbus communication protocol via RS485 port (internal), or if there is no bms system available, the control of the devices can be used fully automatically from a single center via HMI touch panel or a PC.

In the BMS System;

- Operation of the heaters with regional or individual step and modulation control,
- Operation order of the devices on the specified days and hours,
- Seeing the fault codes from the devices in the system and which device is the problem and keeping it in memory,
- Functional controls such as instant, daily, weekly or monthly monitoring of fuel consumption are the advantages of the automation integrated system.

Analog Room Thermostat

Daygas analog room thermostat automatically turns off the device when the temperature value you have set is approached, and then when the ambient temperature drops below the desired temperature value, the device automatically switches on at the maximum level and starts working again. In this way, it saves fuel.

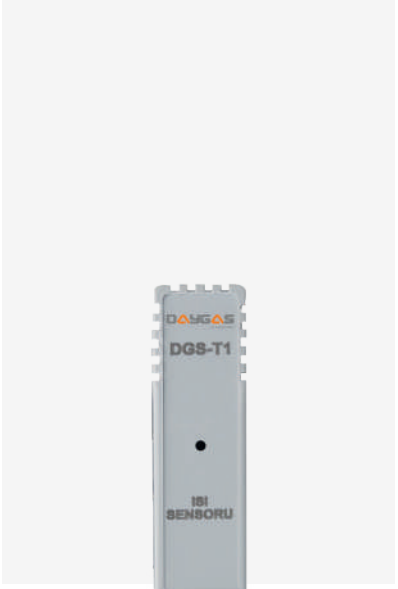
Control Panel

- Password protection.
- Heat preservation mode.
- Freeze protection feature.
- 128 x 64 graphic LCD display.
- Communication port with computer.
- 24/7 programmable feature.
- Possibility of automatic and manual control.
- Ability to connect external temperature sensor.
- Possibility to control 8 independent zones and 32 devices in total.

It makes your work easier thanks to many commands, from the command to turn the devices on and off on the working days and at the time intervals you want, to keep the environment warm in the temperature range determined for freezing protection when the business is closed.

Remote Control

Daygas remote controls are simple-to-use control devices with 3 buttons and easy functions. Thanks to the Daygas remote control, all functions of the device such as on-off, heat setting up-down and reset can be easily controlled.
All Daygas products can be controlled remotely with a single remote.



Temperature Sensor

- Freeze protection mode.
- Temperature adjustment via the device.
- Possibility of modulating control.

When your devices approach the temperature you programmed with the Daygas temperature sensor, it provides fuel saving by reducing the modulation value of the device according to the weather conditions. When the environment reaches the desired temperature value, the device automatically shuts down, and then when it falls below the desired value, the device automatically switches on at the temperature level most suitable for the environment and starts working again.

Pako Switched Manual Control

With pako switched control, step adjusted manual control can be provided over the pako. For more local solutions where there is no control panel or it is not needed, the devices can be operated at the desired level via the paco switch.

- The heaters can be controlled with an independent step setting.
- Since the device is not powered on stand - by (0) position on the Pako, the device to be turned off goes to sleep after the closing procedures and thus long service life of the devices is ensured.

With Daygas
Effective heatingin All Hard To Heat Spaces

Gyms
Cafes
Stadiums
Factories
Workshops
Restaurants
Open Spaces
Greenhouses
Houses of Worship
Industrial Facilities

Greenhouses

Greenhouse application is a very common type of agriculture in the world. One of the biggest problems of greenhouse cultivation is the inability to provide homogeneous heating in greenhouses. If a homogeneous distribution is not achieved and excessive heating occurs, both the soil and the crop can be damaged. For this reason, Daygas ensures that your greenhouse is in contact with heat in a homogeneous manner with its state of the art heating systems.

It is very important to be able to offer special solutions according to the type of plant desired to be grown in greenhouses. There may be different solutions suitable for greenhouses with soil and/or soilless agriculture, as well as pollination or sun effect creation low fuel.
We offer special solutions for greenhouses as a result of the cooperation of Daygas engineers and agricultural engineers who make greenhouse applications in order to provide cost and increase product yield.

While saving money with Daygas radiant heaters, which have very low investment and maintenance costs, increase your production with the right heating principle...

Cafe& Restaurant & Outdoors

The most effective way to provide a comfortable environment in cafes, restaurants and open spaces is the temperature of the environment. The ability of people to have a long and enjoyable time depends on this heat environment, especially in winter.

It is important to provide a comfortable environment in places where thermal insulation is weak and entrance and exit are frequently made, such as cafes and restaurants. Path passes through Daygas radiant heaters. Daygas DSR Ceramic radiant heaters and Radium Tubular Type heaters are economical heaters specially designed for heating open and semi-open spaces of cafes and restaurants. They heat people and objects with infrared rays. Thus, they can be used easily in open and semi-open areas without being affected by the cold air wave.

With the Daygas Lodos Hot Air Generator, the temperature is distributed in the most homogeneous way and a complete comfort environment is provided in the closed areas of the cafes where the thermal insulation is completed. Lodos Hot Air Generator can serve as cooling by running only the fan in summer.

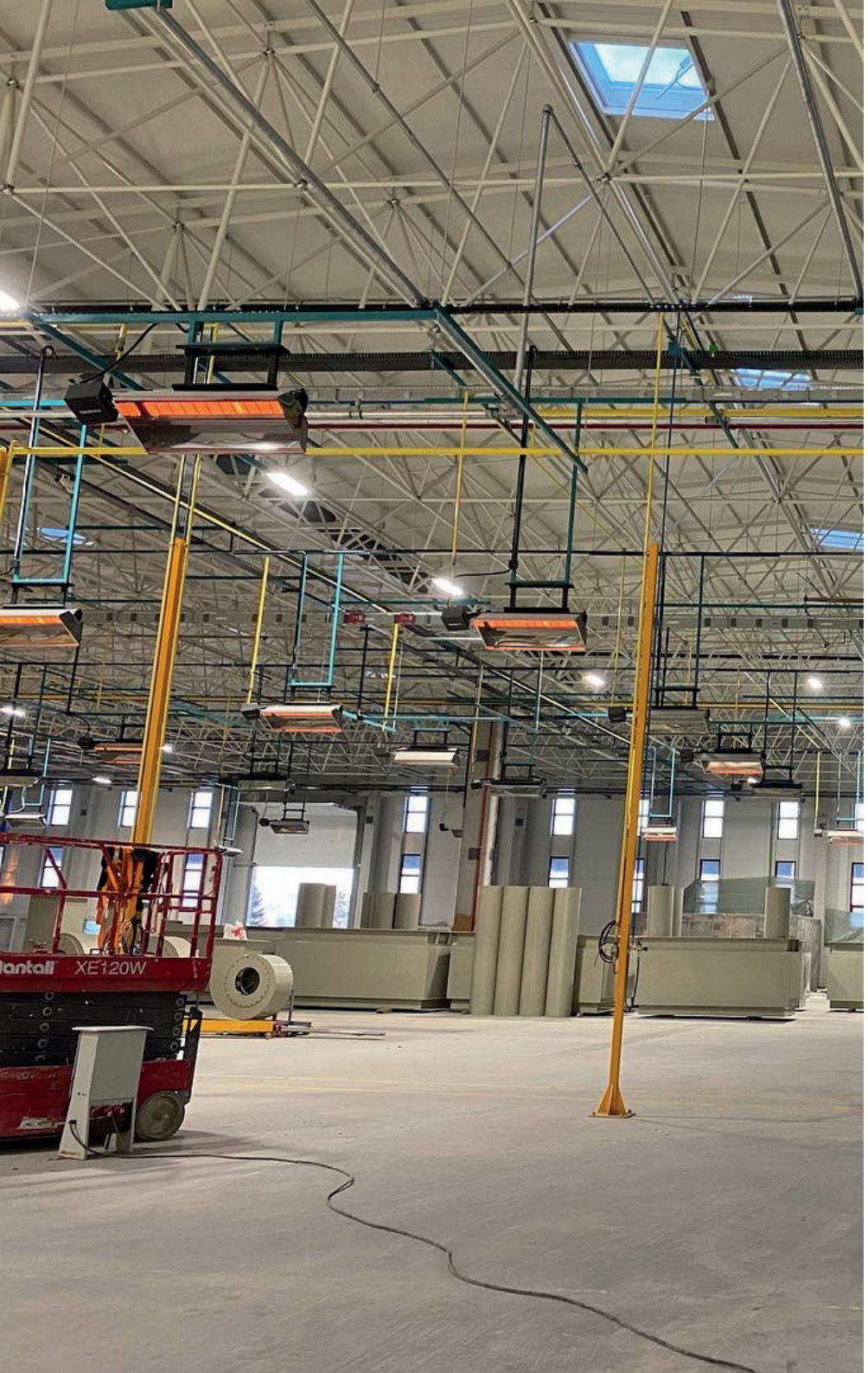
With the advantage of simple installation, low energy consumption and high performance, Daygas radiant heaters are the heating preference of cafes, restaurants and open spaces.

Places of Worship

Mosques and places of worship are structures with high ceilings. Therefore, the balance of cold and heat in places of worship may not be achieved according to seasonal conditions... Keeping the doors of places of worship closed for a long time in cold weather conditions may cause an stuffy and humid environment. Daygas radiant heaters provide solutions for effectively heating high ceilings and large volumes of places of worship.

The most important issue in the heating of places of worship is to provide comfort conditions by quickly putting the area to be heated into the regime. Conventional heaters try to heat the air molecules of the place of worship, because the heated air rises, it takes a long time to heat the area where people are. With Daygas radiant heaters, it heats the desired area in a few minutes in accordance with comfort conditions. Thus, it saves fuel

With its working principle suitable for high ceiling areas, silent operation and low fuel consumption, it is very easy to heat places of worship with Daygas radiant heaters.



Industrial Facilities

The heating system to be used in industrial areas is very important to ensure the comfort of the working environment and accordingly to increase the production volume. In addition, raw materials in some storage areas must be carefully selected to prevent deterioration and deformation due to cold weather conditions. Industrial areas are the most difficult areas to heat due to their high ceilings and large volumes. Especially in some industrial areas, thermal insulation cannot be fully provided due to loading and unloading areas. For this reason, it is very difficult and costly to provide heating with heaters with the conventional heating principle to heat the ambient temperature.

The most effective solution for heating industrial areas is Daygas radiant heaters. Daygas industrial radiant heaters are modern, specially designed for heating large and bulky areas. Are devices Daygas DSR E industrial heaters and Radium tubular radiant heaters are devices that offer the most effective heating solutions in areas such as factories and warehouses. With their ergonomic structures, they do not create any obstacles in the working environment. In addition, they provide a great deal of savings as they are produced with the logic of high performance and low energy consumption.

Daygas industrial heaters, with their space-saving designs, easy control systems and high level of safety features. They offer the advantage of effective, economical, safe and practical heating in the field...

Stadiums

Stadiums are very large and open ceilinged structures. For this reason, a special and effective heating system should be used to heat the stadiums.

Daygas radiant heaters, which provide heating with infrared technology, directly heat objects and people instead of heating the air. Therefore, heating high ceiling areas is not a problem for Daygas radiant heaters. Thanks to their special design, Daygas radiant heaters provide heating without causing air pollution. Thus, they provide healthy heating by maintaining clean air in crowded areas such as stadiums.

With its ergonomic structure, increased radiation efficiency and minimum waste gas emission, the most effective heating in stadiums and sports halls is in Daygas radiant heaters!

Gyms

Gyms are very crowded and places where fresh air is needed. For this reason, a special and effective heating system should be used to heat the gyms. It is difficult and costly to keep the air of the environment clean in gyms and at the same time to keep that environment at the desired temperature. For this reason, it is appropriate to use larger and more effective heating systems to heat gyms.

Daygas radiant heaters, which provide heating with infrared radiation, warm objects and people with the rays they send directly instead of heating the ambient air. Therefore, the heating of high ceiling areas is done with Daygas radiant heaters it is very easy.

Fabrika

Firuzköy Bulvarı No:206, 34325 Avcılar/İstanbul

+90 850 532 91 53

+90 212 423 30 44

info@daygas.com.tr

www.daygas.com.tr

DAYGAS

ısı sistemleri