



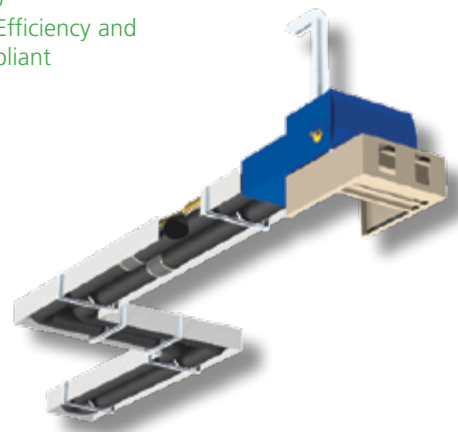
REZNOR

Sonning² OHA

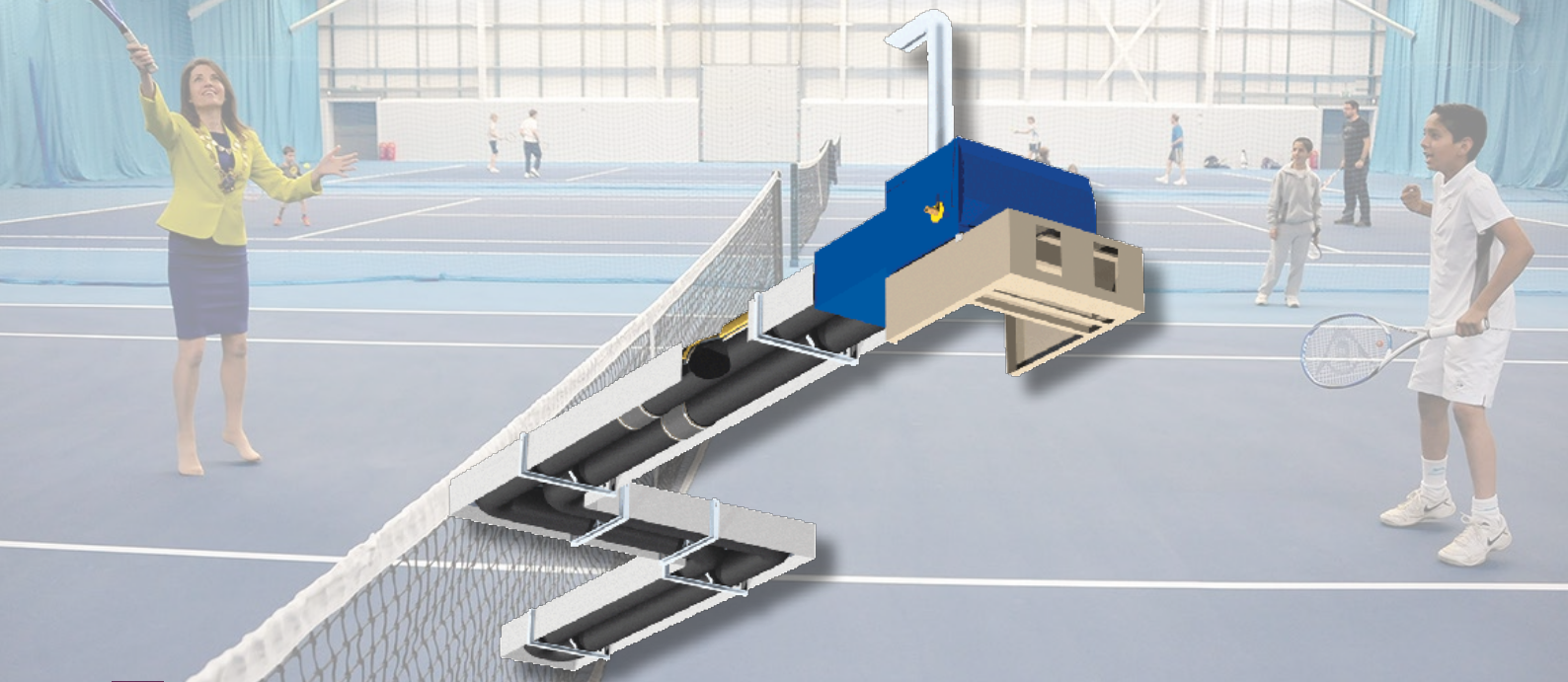
Radiant Tube Heating Systems



ErP Lot 20
Seasonal Efficiency and
NOx compliant



 **NORTEK**TM
GLOBAL HVAC



Sonning² OHA

Radiant Tube Heating Systems

OHA is a gas fired radiant tube heating system with either internal or external burner, which employs a 80% re-circulation and is designed specially for the building it is required to heat.

The inclusion of modulating burner on the OHA RHE ranges enables thermal efficiencies of up to 96% to be achieved.

The OHA system is designed to provide uniform heat coverage over the entire floor area. The system can also cater for distinct zones providing a varied degree of comfort level within the overall layout of the building.

Nortek strives to become part of the 'design team', working closely with engineers or end users to determine the specific design parameters for the OHA scheme layout. This contact between the company's engineers and the system designer or client will give the most effective OHA system.

Model Range

The OHA Series radiant tube heating system includes nine natural gas or propane burner models from 50 to 400kW, radiant tube lengths from 25 to 400 metres. Maximum tube temperatures range from 200°C to 350°C.

The OHA RHE Modulating Series radiant tube heating system includes 6 natural gas or propane burner models from 100 to 370kW, radiant tube lengths from 35 to 250 metres. Maximum tube temperatures range from 120°C to 290°C.

The heaters will operate equally as effective on a wide variety of fuels; natural gas, LPG and oil (OHA only)

Features & Benefits

- > External or internal burner
- > No serviceable parts within the heated area (external burner)
- > No fuel distribution within the building (external burner)
- > High performance blown air, mono-flame and mono-nozzle low NO_x premix and burner
- > Fuel efficient burners with capacities from 50 to 400kW
- > Modulation and inverter driven, 96% thermal efficiency - (RHE only)
- > No system noise within heated area (external burner)
- > Low surface temperature radiant emitter



OHA Technical Data

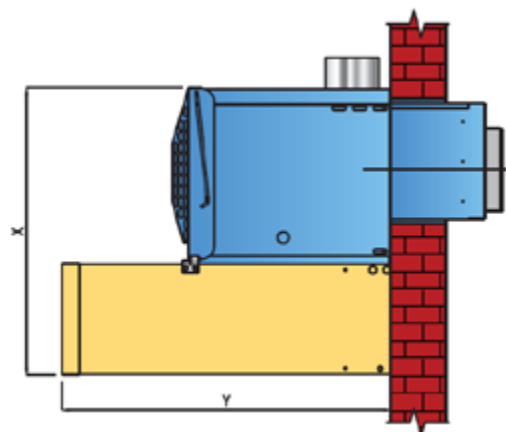
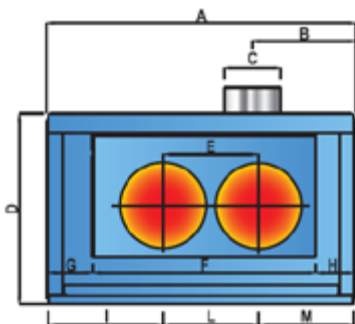
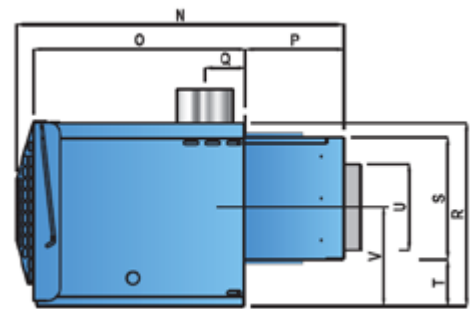
| Model | | | OHA100 | | OHA200 | | | OHA400 | | | |
|---|-----------------|-------|-------------------|-------------|-------------------|-------------|-------------|-------------------|-------------|-------------|-------------|
| Version | | | OHA 100-50 | OHA 100-100 | OHA 200-115 | OHA 200-150 | OHA 200-180 | OHA 400-200 | OHA 400-250 | OHA 400-300 | OHA 400-400 |
| Thermal capacity | kW (HI) | | 50 | 100 | 115 | 150 | 180 | 200 | 250 | 300 | 400 |
| Thermal power | kW (HI) | | 45.5 | 93.0 | 105.2 | 138.0 | 165.6 | 183.0 | 230.0 | 276.0 | 366.0 |
| Thermal efficiency | % | | 91.0 | 93.0 | 91.5 | 92.0 | 92.0 | 91.5 | 92.0 | 92.0 | 91.5 |
| Nominal consumption at 15°C and 1013, 25mbar | Natural gas G20 | Nm³/h | 5.29 | 10.58 | 12.17 | 15.87 | 19.05 | 21.16 | 26.46 | 31.75 | 42.33 |
| | LPG Propane G31 | Kg/h | 3.88 | 7.77 | 8.93 | 11.65 | 13.98 | 15.54 | 19.42 | 23.31 | 31.07 |
| Electric power | | | 3/N/PE ~50Hz 400V | | 3/N/PE ~50Hz 400V | | | 3/N/PE ~50Hz 400V | | | |
| Electric power max absorbed | W | | 1350 | | 3450 | | 4450 | 4450 | | 5700 | |
| Gas connection (male) | Inches | | 1" | | 1" | | | 1" | | 1" | |
| Weight | Kg | | 90 | | 230 | | 240 | 240 | | 260 | |
| Fume pipe diameter | mm | | 200 | | 200 | | | 200 | | | |
| Max length of fume exhaust pipe | m | | 6 | | 6 | | | 6 | | 9 | |
| Type | | | B22 | | B22 | | | B22 | | | |
| Maximum length of the circuit according to the combustion unit | | | | | | | | | | | |
| Radiant strips mod. M 1 pipe Ø 300mm | min (*) | m | 50 | 100 | 115 | 150 | 180 | 200 | 250 | 300 | 400 |
| | max (*) | m | 40 | 60 | 80 | 115 | 140 | 160 | 190 | 220 | - |
| Radiant strips mod. M 1 pipe Ø 300mm | min (*) | m | 60 | 120 | 130 | 140 | 180 | 190 | 220 | 250 | - |
| | max (*) | m | 25 | 35 | 50 | 60 | 80 | 90 | 110 | 130 | - |
| Radiant strips mod. M 1 pipe Ø 300mm | min (*) | m | 35 | 50 | 70 | 80 | 110 | 115 | 130 | 160 | - |
| | max (*) | m | - | - | - | - | - | - | - | 90 | 120 |

(*) Virtual length - effective length of the radiant strip, increased by the lengths equal to the direction changing (6 metres for each of direction). It is necessary to increase the effective length of 6 metres for each 90° bend used, 9 metres for each 180° final bend, 3 metres for each 45° bend used and T branch.



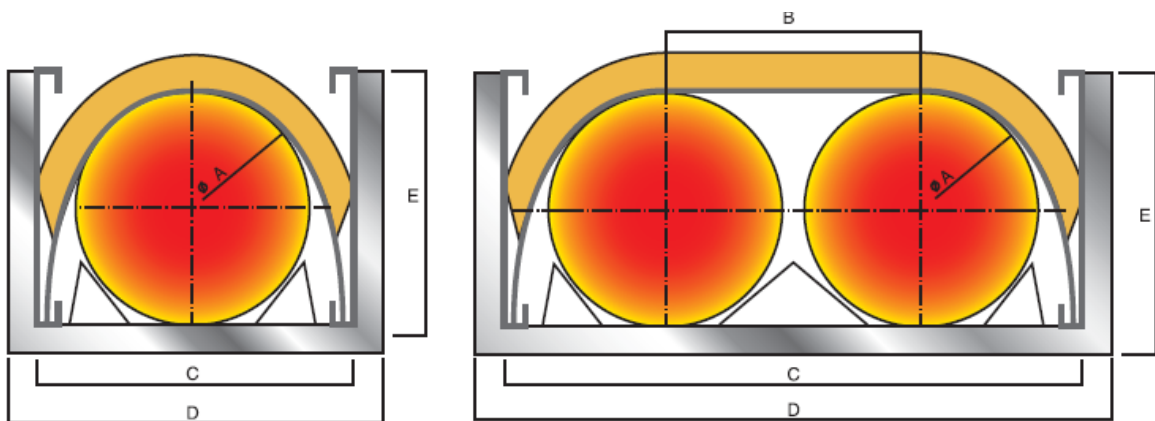
| OHA Dimensions | | | | | |
|----------------|--------------|--------------|------|--------------|--------------|
| Dim. | Pipe Ø 300mm | Pipe Ø 300mm | Dim. | Pipe Ø 300mm | Pipe Ø 300mm |
| A | 1075 | | N(*) | 1142 | |
| B | 359 | | O | 740 | |
| C | 200 | | P(*) | 343 | |
| D | 664 | | Q | 142 | |
| E | 333 | 430 | R | 637 | |
| F | 774 | 923 | S | 426 | 475 |
| G | 157 | 67 | T | 162 | 113 |
| H | 134 | 70 | U | 300 | 400 |
| I | 398 | 319 | V | 344 | 352 |
| L | 333 | 430 | X | 1049 | |
| M | 333 | 302 | Y | 1202 | |

(*) in case of long plenum (supplied only when requested) the dimensions N and P are respectively 1802mm and 1003mm





| OHA Dimensions mm | | | |
|-------------------|--------|---------|---------|
| Dim. | 1 Pipe | 2 Pipes | 2 Pipes |
| A | Ø300 | Ø300 | Ø400 |
| B | - | 335 | 460 |
| C | 512 | 850 | 1020 |
| D | 580 | 918 | 1088 |
| E | 374 | 374 | 478 |
| Weight (Kg/m) | 19 | 28 | 35 |





GB/AMB/SON2/0110717

NORTEK GLOBAL HVAC (UK) LTD

Fens Pool Avenue
Brierley Hill
West Midlands DY5 1QA
United Kingdom

Tel: **01384 489 700**
Fax: **01384 489 707**

reznorsales@nortek.com
www.reznor.co.uk

