

**BEIS HY4HEAT** 

**HYRAD CONSORTIUM** 

**HYDROGEN RADIANT TUBE HEATER** 



## THE HYRAD CONSORTIUM

**Enertek International Ltd** – Consortium lead and R&D partner



Nortek Global HVAC – Radiant Tube heater manufacturer



The HyRad Consortium comprises Nortek Global HVAC (the UK's largest manufacturer of radiant tube heaters) and Enertek International Ltd, (an independent R&D consultancy specialising in gas product design and development). Both companies have worked collaboratively throughout the Hy4Heat programme with input from key component suppliers to produce a 100% hydrogen fired radiant tube heater.

## THE PRODUCT - 100% HYDROGEN RADIANT TUBE HEATER

Vision VS overhead gas fired radiant tube heater – 25 kW



The radiant tube heater has been certified for use in field trials and full certification (for serial production) will be achieved before the end of 2021.

### **PRODUCT FEATURES:**

- User operation is identical to the natural gas model
- Dimensions and performance are almost identical to the natural gas equivalent
- Installation requirements are straightforward and similar to the natural gas model
- Zero carbon emissions
- Costs (when manufactured in volume) will be similar to the natural gas model
- Safety features comply with hydrogen standards (PAS 4444)

# **FUTURE DEVELOPMENTS**

Prior to commercial launch, the new hydrogen model will be adapted for use with methane (natural gas) so that a 'Hydrogen Ready' version will be available for use with natural gas prior to the gas supply being converted to hydrogen.

# THE MARKET OPPORTUNITY

Conversion of the gas supply to hydrogen offers continuity and minimal disruption for the building owner / occupier, especially with the advent of hydrogen-ready appliances in the years preceding conversion of the gas supply to hydrogen. The market is driven by:

- The cost of gas is lower than the cost of electricity (and likely to remain so)
- Gas offers a cost effective, flexible and convenient way of heating large areas within commercial premises
- Gas heating offers instant, easily controllable heat