HSE SUPER HOT INTERGAS

CONDENSING HIGH EFFICIENCY GAS BOILER



HEAT • SMART • EFFICIENT

ENERGY EFFICIENT: Up to 95% AFUE, 0.88 EF

FLEXIBLE APPLICATIONS: Central heating, hot water, or both

SINGLE HEAT EXCHANGER: Dual copper waterways

RELIABLE PERFORMANCE: Proven European design



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INTEGRATED HEATING AND HOT WATER SOLUTION

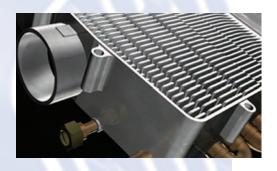
The HSE125 and HSE145 are new high performance condensing combination boilers that do more for less. As among the most versatile heating appliances on the market, it combines domestic hot water and central heating in a single compact unit. HSE is the Heating, Smart, Efficient solution.

The HSE uses proven condensing technology with a unique double high efficiency heat exchanger performing at up to 95% AFUE. As an ENERGY STAR ® appliance, it is eligible for most government and utility rebates. Reliability, high efficiency, economical design and a 10 year heat exchanger warranty are just a few of the reasons why it is the smart choice for builders and homeowners alike.





TRUE COMBINATION HEATING SOLUTIONS



GREEN: 95% AFUE AND A DOUBLE HIGH EFFICIENCY

HEAT EXCHANGER

DURABLE: COMBINATION DESIGN HAS FEWER PARTS FOR

LONGER LIFE

ECONOMICAL: SIMPLE PIPING AND HOT WATER INCLUDED

WITH NO DIVERTER VALVE; FITS ANY BUDGET

AND QUALIFIES FOR TOP REBATES

FLEXIBLE: TWO FULLY MODULATING MODELS WITH A

SMART CONTROLLER AND INTEGRATED

DOMESTIC HOT WATER

LOW PROFILE: WHISPER QUIET OPERATION IN A LIGHT WEIGHT,

WALL-HUNG DESIGN

FEATURES

The unique double high efficiency heat exchanger uses copper waterways in an aluminum block for maximum heat transfer. The sophisticated controller with outdoor air sensor constantly monitors environmental changes and modulates according to specific heating and domestic water demands. With proven technology and up to 95% AFUE, you can take comfort in the warmth, and environmental and cost savings with one of the most advanced heating appliances available.





UNLIMITED APPLICATIONS

Two fully modulating models for residential and light commercial applications: central heating, hot water, or both - with integrated domestic hot water and priority for indirect tanks, all in a low profile, wall-hung form.

ENVIRONMENTALLY FRIENDLY

The smart HSE design does more with fewer parts and operates at up to 95% efficiency with near 0 standby losses and a 5:1 turndown ratio. A state-of-the-art production facility reduces overall environmental impact making it the green choice for heating.

DEPENDABLE PERFORMANCE

A proven, double high efficiency heat exchanger has fewer moving parts offering long lasting service. Dual all-copper waterways protect the heat exchanger from internal corrosion and are glycol compatible.

EASY INSTALLATION

Trouble-free installation with simple piping and DHW kits, integrated hot water, 85ft CPVC, SS, and PP venting options and a user-friendly controller, reduce setup time and costs.

DOUBLE HIGH EFFICIENCY HEAT EXCHANGER

A multi-pass heat exchanger with dual copper waterways allow all heating to be done in a single, compact and cost effective unit. No need for diverter valve, pump, hot water plate exchanger, or air pressure switch.

REDUCED MAINTENANCE

The minimalist design with convenient access to internal components and few moving parts reduces maintenance costs and offers ease of service - all backed by a 10 year heat exchanger warranty.

SUPER HOT INTERGAS

| TECHNICAL DATA | | HSE-125-N Natural Gas | HSE-125-P Propane | HSE-145-N Natural Gas | HSE-145-P Propane |
|---|-----------------|--------------------------|----------------------|--------------------------|----------------------|
| CH (central heating – BOILER) | | | | | |
| Nominal input rate | 1000 Btu/h (kW) | 28.7 – 124 (8.4 – 36.3) | | 33 – 145 (9.7 – 42.5) | |
| Nominal output rate | 1000 Btu/h (kW) | 27.3 – 118 (8.0 – 34.5) | | 31 – 136 (9.1 – 39.9) | |
| AFUE | % | 95 | | 94 | |
| Maximum CH operating pressure | psi (bar) | 43 (3.0) | | 43 (3.0) | |
| Maximum CH operating temperature | °F (°C) | 194 (90) | | 194 (90) | |
| DHW (domestic hot water – HEATER) | | | | | |
| Nominal input rate | 1000 Btu/h (kW) | 28.7 – 124 (8.4 – 36.3) | | 33 – 145 (9.7 – 42.5)** | |
| Nominal output rate | 1000 Btu/h (kW) | 25.3 – 109 (7.4 – 31.9) | | 29 – 128 (8.5 – 37.4) | |
| Energy Factor (EF)* | | 0.88 | 0.91 | 0.88 | 0.91 |
| DHW minimum flow rate | USGPM (I/min) | 0.53 (2.0) | | 0.53 (2.0) | |
| DHW continuous delivery at 135 °F (with 77 °F water temperature rise) | USGPM (I/min) | 2.8 (10.7) | | 2.8 (10.7) | |
| DHW continuous delivery at 120 °F (with 60 °F water temperature rise) | USGPM (I/min) | 3.6 (13.7) | | 3.6 (13.7) | |
| Maximum DHW temperature | °F (°C) | 150 (65) | | 150 (65) | |

Conditions for max. flow rate based on CAN/CSA P.7 and DOE test Procedures P.7

| DIMENSIONS | | | |
|--|---------------|---|---|
| HEIGHT X WIDTH X DEPTH | INCH (MM) | 31.9 X 17.7 X 10.6 (810 X 450 X 270) | 31.9 X 17.7 X 10.6 (810 X 450 X 270) |
| WEIGHT | LBS (KG) | 86 (39) | 86 (39) |
| CONNECTIONS | | | |
| CH supply | inch NPT male | 3/4 | 3/4 |
| CH return | inch NPT male | 3/4 | 3/4 |
| DHW supply | inch NPT male | 1/2 | 1/2 |
| Cold water for DWH | inch NPT male | 1/2 | 1/2 |
| Gas | inch NPT male | 1/2 | 1/2 |
| Condensate drain flexible pipe, outside diameter | inch (mm) | 1 (25) | 1 (25) |
| Air supply inlet (without adapter installed) | mm | 80 | 80 |
| Flue gas outlet (without adapter installed) | mm | 80 | 80 |
| Air supply inlet with adapter installed | inch | 3 | 3 |
| Flue gas outlet with adapter installed | inch | 3 | 3 |
| | | | |

- * The energy factor (EF) is the ratio of energy delivered to the water as compared to the total energy consumed.
- ** The DHW Booster function operates at an input rate of 145,000 Btu/h (42.5 kW) for the first 2min after which the DHW input rate drops to 124,000 Btu/h (36.3 kW)

DOMESTIC HOT WATER REQUIRES DHW KIT

Boiler Certified to ANSI Z21.13 / CSA 4.9

Water Heater Certified to ANSI Z21.10.3 / CSA 4.3

The Super Hot product improvement program may result in changes to design and/or specifications made without notice.













ALLIED ENGINEERING COMPANY

DIVISION OF E-Z-RECT MANUFACTURING LTD

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