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| Boiler Type : | Gas 310 Eco Pro 430 |
| Issue Date : | July 2014 |



TECHNICAL SPECIFICATION SHEET

This is a quick reference specification sheet, full details can be found in the Gas 310 Eco Pro installation and Service guide via www.remeha.co.uk/documents

General Details

Fully condensing floor standing boiler supplied c/w electronic temperature and safety controls. Sectional cast aluminium heat exchanger. Powder coated, enamel steel casing. Ultra low NOx, on/off, or fully modulating (20-100%), pre - mix burner, gas/air ratio control for maximum efficiency and minimum emissions. Boiler fitted with casters for ease of positioning within plant room. Intelligent "abc[®]" boiler control system c/w numerical display providing operating and service parameters. Manufactured to ISO 9001. CE approved and supplied pre-assembled, easy to dismantle for ease of installation. NOx levels according to EN483 and EN 15420 (EN297 A3).

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| MODEL : Gas 310 ECO Pro 430 | | No of SECTIONS : 7 | |
| Rated Output kW (80/60°c) : | 79 - 395 | SBEM Seasonal Efficiency %: GCV⁽¹⁾ | 96.16 |
| Rated Output kW (50/30°c) : | 425 | Min/Max Gas pressure mbar : | 17 - 100 |
| Weight (dry) kgs : | 433 | Radiated Losses % ⁽²⁾ : | 0.15 |
| Overall Dim WxDxH mm : | 716 x 1862 x 1500 | | |

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| BURNER TYPE Pre mix | | | |
| Std Fuel Available : | Natural Gas | Gas Connection size BSP : | 2" (F) |
| Fuel Consumption M³/h : | 42.5 (Max) | Acoustic level dB(A) at 1 metre ⁽³⁾: | 55.7 |
| Flame Protection : | Ionisation | NOx (Dry, 0% O₂) Mg/kW : | 32 |
| Ignition : | Electronic | | |

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| HYDRAULICS | | | |
| Water Content ltrs : | 71 | Connection Size Flanged mm : ## | NW 80 |
| Resistance @ 11°C Δt mbar : | 397 | Std Operating Temp °C : | 20 - 90 |
| Resistance @ 20°C Δt mbar : | 120 | Max Operating Temp °C : | 90 |
| Nom Flow Rate @ 11° C Δt l/s : | 8.59 | High Limit Set Point °C : | 110 |
| Nom Flow Rate @ 20° C Δt l/s : | 4.72 | Max operating pressure bar : | 7 |
| Min Flow Rate l/s : | # | Min operating pressure bar : | 0.8 |
| Condensate Connection : | 1 1/4" | | |

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| FLUE/AIR INLET | | Standard = conventional | |
| Flue diameter mm I/D : | 250 | Mass flue gas flow rate kgs/hr : | 138 – 676 |
| Air inlet diameter mm I/D : | 250 | Flue Gas Temperature @ 80/60 °C : | 30 - 80 |
| Residual Fan Duty Pa : | 130 | | |

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| ELECTRICAL | | | |
| Power Supply : | 230v – 1ph – 50hz | Fuse Rating amps : | 10 |
| Power Consumption W: | 6 - 426 | Controls Voltage : | 24 (max 4va) |
| Modulating input V dc : | 0 -10 | Insulation Class IP : | X1B |
| Start Current amps : | 4 | Run Current amps : | 3.8 |

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| CONTROL OPERATION | | | |
| Standard : | On/Off 0-10v dc Open Therm High limit protection Low water protection Volt free common alarm | Manual o/ride Modulating (20 - 100%) Safety interlocks Hours run indication Boiler run indication | |
| Optional : | Optimising / Compensators > Second return > Gas leak Detection > Water Pressure Switch > Air Inlet Filter > | For multiple and single boiler 65mm Flanged 80mm PN16 Option fitted to gas valve System pressure Connects to boiler air supply | |

(1) In accordance with the Non Domestic Building Services Compliance Guide 2013 Edition – for use in England

(2) At 30°c ΔT = Boiler temp – Ambient temp (without heat exchanger insulation kit)

(3) For room sealed operation

For a continuous supply of heat the boiler requires a minimum flow of 30% of the design flow rate

Flow 80mm Return 65mm both Flanged NW 80 DIN 2576 – (PN16)