

<b>Product Series</b>	<b>610 ECO/2x6</b>
<b>Issue Date :</b>	<b>JAN 2005</b>



## TECHNICAL SPECIFICATION SHEET

**MODEL : GAS 610 ECO**

**NO OF SECTIONS : 2x6**

### General Details

Fully condensing pre-assembled floor standing boiler consisting of 2 individual modules within one casing and a common flue gas outlet. Boiler supplied c/w electronic temperature and safety controls.

Sectional cast aluminium heat exchangers. Powder coated, enamel steel casing.

Ultra low NOx, on/off, high/low or fully modulating (30-100%), 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<sup>®</sup>" boiler control system c/w numerical display providing operating and service parameters.

Manufactured to ISO 9001 and CE approved.

Output @ 80/60°C kW :	87 – 654	Annual Efficiency %NCV (Hi) :	108.9
Weight (dry) kgs :	820	Min Gas Pressure mbar :	17
Overall Dim WxHxD mm :	1756x1590x1450	Max Gas Pressure mbar :	100
Radiated Losses % :	< 0.3	Casing Colour BS RAL :	Red 2002 Grey 9023

BURNER TYPE			
	Pre-mix	Low Nox Atmospheric	
Std Fuel Available :	Natural Gas	Gas Conn. Size BSP :	2 x 2" (F)
Flame Protection :	Ionisation	NOx Level ppm @ 0% O <sub>2</sub> :	< 35
Noise Levels dB(A)@1M :	< 63	NOx Level mg/kWh :	< 60
Ignition :	Electronic	Gas Consumption M <sup>3</sup> /h :	74 NG

HYDRAULICS			
Water Content ltrs :	120	Resistance @ 11°C Δt. mb :	364 (36.4 kPa)
Nom Flow @ 11°C Δt l/s :	2 x 7.18	Resistance @ 20°C Δt. mb:	110 (11.0 kPa)
Min Return Temp °C	20	Min Flow Rate l/s :	None
Op Press min/max bars :	0.8 / 6 pumped system	Std Operating Temp °C :	20 – 90
Test Press bar :	6	High Limit Temp °C :	110
Condensate Conn. mm :	2 x 1¼" nb plastic	Boiler Conns Flanged :	4 x NW 80 DIN 2576
		2 <sup>nd</sup> Return Conn Flanged (Option) :	2 x NW 65 DIN 2576

FLUE/ AIR INLET			
Supplied as standard for conventional flue with optional kit for room sealed operation			
Residue Fan Duty Pa :	150	Air Inlet Conn mm :	2 x 250 i/d
Flue Diameter mm :	350 i/d	Air Inlet Conn Room Sealed mm :	350 i/d
Min Flue Gas Temp @ 80/60°C	57	Min Flue Gas Mass kgs/hr :	153
Max Flue Gas Temp @ 80/60°C	65	Max Flue Gas Mass kgs/hr :	1130

ELECTRICAL			
Insulation Class IP :	20	Power Supply :	2 x 230.1.50
Start Current Amps :	2 x 4	Run Current Amps :	2 x 1.4
Fuse Rating Amps :	2 x 10	Power Consumption VA :	24 / 694
Modulating input V dc :	2 x 0-10	Controls Voltage V ac :	2 x 24 (max 4VA)

CONTROLS			
Each module requires its own set of controls			
Standard :	High / Low Manual o/ride High limit protection Operating status indication	BMS Modulating (30-100%) Hours Run Indication Low water protection	On / Off
Optional :	Volt free common alarm and boiler run indication Safety interlock control pair (24V ac)		

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<b>Product Series</b>	<b>610 ECO/2x7</b>
<b>Issue Date :</b>	<b>JAN 2005</b>



## TECHNICAL SPECIFICATION SHEET

**MODEL : GAS 610 ECO**

**NO OF SECTIONS : 2x7**

### General Details

Fully condensing pre-assembled floor standing boiler consisting of 2 individual modules within one casing and a common flue gas outlet. Boiler supplied c/w electronic temperature and safety controls.

Sectional cast aluminium heat exchangers. Powder coated, enamel steel casing.

Ultra low NOx, on/off, high/low or fully modulating (30-100%), 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<sup>®</sup>" boiler control system c/w numerical display providing operating and service parameters. Manufactured to ISO 9001 and CE approved.

Output @ 80/60°C kW :	123 – 790	Annual Efficiency %NCV (Hi) :	108.9
Weight (dry) kgs :	920	Min Gas Pressure mbar :	17
Overall Dim WxHxD mm :	1756x1980x1450	Max Gas Pressure mbar :	100
Radiated Losses % :	< 0.3	Casing Colour BS RAL :	Red 2002 Grey 9023

BURNER TYPE	Pre-mix	Low Nox Atmospheric	
Std Fuel Available :	Natural Gas	Gas Conn. Size BSP :	2 x 2" (F)
Flame Protection :	Ionisation	NOx Level ppm @ 0% O <sub>2</sub> :	< 35
Noise Levels dB(A)@1M :	< 63	NOx Level mg/kWh :	< 60
Ignition :	Electronic	Gas Consumption M <sup>3</sup> /h :	86 NG

HYDRAULICS			
Water Content ltrs :	142	Resistance @ 11°C Δt. mb :	397 (39.7 kPa)
Nom Flow @ 11°C Δt l/s :	2 x 8.61	Resistance @ 20°C Δt. mb:	120 (12.0 kPa)
Min Return Temp °C	20	Min Flow Rate l/s :	None
Op Press min/max bars :	0.8 / 6 pumped system	Std Operating Temp °C :	20 – 90
Test Press bar :	6	High Limit Temp °C :	110
Condensate Conn. mm :	2 x 1¼" nb plastic	Boiler Conns Flanged :	4 x NW 80 DIN 2576
		2 <sup>nd</sup> Return Conn Flanged (Option) :	2 x NW 65 DIN 2576

FLUE/ AIR INLET			
Supplied as standard for conventional flue with optional kit for room sealed operation			
Residue Fan Duty Pa :	150	Air Inlet Conn mm :	2 x 250 i/d
Flue Diameter mm :	350 i/d	Air Inlet Conn Room Sealed mm :	350 i/d
Min Flue Gas Temp @ 80/60°C	57	Min Flue Gas Mass kgs/hr :	215
Max Flue Gas Temp @ 80/60°C	65	Max Flue Gas Mass kgs/hr :	1360

ELECTRICAL			
Insulation Class IP :	20	Power Supply :	2 x 230.1.50
Start Current Amps :	2 x 4	Run Current Amps :	2 x 3.8
Fuse Rating Amps :	2 x 10	Power Consumption VA :	24 / 980
Modulating input V dc :	2 x 0-10	Controls Voltage V ac :	2 x 24 (max 4VA)

CONTROLS			
Each module requires its own set of controls			
Standard :	High / Low Manual o/ride High limit protection Operating status indication	BMS Modulating (30-100%) Hours Run Indication Low water protection	On / Off
Optional :	Volt free common alarm and boiler run indication Safety interlock control pair (24V ac)		

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<b>Product Series</b>	<b>610 ECO/2x8</b>
<b>Issue Date :</b>	<b>JAN 2005</b>



## TECHNICAL SPECIFICATION SHEET

**MODEL : GAS 610 ECO**

**NO OF SECTIONS : 2x8**

### General Details

Fully condensing pre-assembled floor standing boiler consisting of 2 individual modules within one casing and a common flue gas outlet. Boiler supplied c/w electronic temperature and safety controls.

Sectional cast aluminium heat exchangers. Powder coated, enamel steel casing.

Ultra low NOx, on/off, high/low or fully modulating (30-100%), 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<sup>®</sup>" boiler control system c/w numerical display providing operating and service parameters.

Manufactured to ISO 9001 and CE approved.

Output @ 80/60°C kW :	122 – 924	Annual Efficiency %NCV (Hi) :	108.9
Weight (dry) kgs :	1020	Min Gas Pressure mbar :	17
Overall Dim WxHxD mm :	1756x1980x1450	Max Gas Pressure mbar :	100
Radiated Losses % :	< 0.3	Casing Colour BS RAL :	Red 2002 Grey 9023

BURNER TYPE			
	Pre-mix	Low Nox Atmospheric	
Std Fuel Available :	Natural Gas	Gas Conn. Size BSP :	2 x 2" (F)
Flame Protection :	Ionisation	NOx Level ppm @ 0% O <sub>2</sub> :	< 35
Noise Levels dB(A)@1M :	< 63	NOx Level mg/kWh :	< 60
Ignition :	Electronic	Gas Consumption M <sup>3</sup> /h :	100 NG

HYDRAULICS			
Water Content ltrs :	164	Resistance @ 11°C Δt. mb :	364 (36.4 kPa)
Nom Flow @ 11°C Δt l/s :	2 x 10.05	Resistance @ 20°C Δt. mb:	110 (11.0 kPa)
Min Return Temp °C	20	Min Flow Rate l/s :	None
Op Press min/max bars :	0.8 / 6 pumped system	Std Operating Temp °C :	20 – 90
Test Press bar :	6	High Limit Temp °C :	110
Condensate Conn. mm :	2 x 1¼" nb plastic	Boiler Conns Flanged :	4 x NW 80 DIN 2576
		2 <sup>nd</sup> Return Conn Flanged (Option) :	2 x NW 65 DIN 2576

FLUE/ AIR INLET			
Supplied as standard for conventional flue with optional kit for room sealed operation			
Residue Fan Duty Pa :	150	Air Inlet Conn mm :	2 x 250 i/d
Flue Diameter mm :	350 i/d	Air Inlet Conn Room Sealed mm :	350 i/d
Min Flue Gas Temp @ 80/60°C	57	Min Flue Gas Mass kgs/hr :	214
Max Flue Gas Temp @ 80/60°C	65	Max Flue Gas Mass kgs/hr :	1586

ELECTRICAL			
Insulation Class IP :	20	Power Supply :	2 x 230.1.50
Start Current Amps :	2 x 4	Run Current Amps :	2 x 3.8
Fuse Rating Amps :	2 x 10	Power Consumption VA :	24 / 1240
Modulating input V dc :	2 x 0-10	Controls Voltage V ac :	2 x 24 (max 4VA)

CONTROLS			
Each module requires its own set of controls			
Standard :	High / Low	BMS Modulating (30-100%)	On / Off
	Manual o/ride	Hours Run Indication	
	High limit protection	Low water protection	
	Operating status indication		
Optional :	Volt free common alarm and boiler run indication		
	Safety interlock control pair (24V ac)		

<b>Product Series</b>	<b>610 ECO/2x9</b>
<b>Issue Date :</b>	<b>JAN 2005</b>



## TECHNICAL SPECIFICATION SHEET

**MODEL : GAS 610 ECO**

**NO OF SECTIONS : 2x9**

### General Details

Fully condensing pre-assembled floor standing boiler consisting of 2 individual modules within one casing and a common flue gas outlet. Boiler supplied c/w electronic temperature and safety controls.

Sectional cast aluminium heat exchangers. Powder coated, enamel steel casing.

Ultra low NOx, on/off, high/low or fully modulating (30-100%), 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<sup>®</sup>" boiler control system c/w numerical display providing operating and service parameters. Manufactured to ISO 9001 and CE approved.

Output @ 80/60°C kW :	148 – 1062	Annual Efficiency %NCV (Hi) :	108.9
Weight (dry) kgs :	1120	Min Gas Pressure mbar :	17
Overall Dim WxHxD mm :	1756x1980x1450	Max Gas Pressure mbar :	100
Radiated Losses % :	< 0.3	Casing Colour BS RAL :	Red 2002 Grey 9023

BURNER TYPE			
	Pre-mix	Low Nox Atmospheric	
Std Fuel Available :	Natural Gas	Gas Conn. Size BSP :	2 x 2" (F)
Flame Protection :	Ionisation	NOx Level ppm @ O% O2 :	< 35
Noise Levels dB(A)@1M :	< 63	NOx Level mg/kWh :	< 60
Ignition :	Electronic	Gas Consumption M <sup>3</sup> /h :	114 NG

HYDRAULICS			
Water Content ltrs :	186	Resistance @ 11°C Δt. mb :	413 (41.3 kPa)
Nom Flow @ 11°C Δt l/s :	2 x 11.51	Resistance @ 20°C Δt. mb:	125 (12.5 kPa)
Min Return Temp °C	20	Min Flow Rate l/s :	None
Op Press min/max bars :	0.8 / 6 pumped system	Std Operating Temp °C :	20 – 90
Test Press bar :	6	High Limit Temp °C :	110
Condensate Conn. mm :	2 x 1¼" nb plastic	Boiler Conns Flanged :	4 x NW 80 DIN 2576
		2 <sup>nd</sup> Return Conn Flanged (Option) :	2 x NW 65 DIN 2576

FLUE/ AIR INLET			
Supplied as standard for conventional flue with optional kit for room sealed operation			
Residue Fan Duty Pa :	150	Air Inlet Conn mm :	2 x 250 i/d
Flue Diameter mm :	350 i/d	Air Inlet Conn Room Sealed mm :	350 i/d
Min Flue Gas Temp @ 80/60°C	57	Min Flue Gas Mass kgs/hr :	257
Max Flue Gas Temp @ 80/60°C	65	Max Flue Gas Mass kgs/hr :	1814

ELECTRICAL			
Insulation Class IP :	20	Power Supply :	2 x 230.1.50
Start Current Amps :	2 x 4	Run Current Amps :	2 x 3.8
Fuse Rating Amps :	2 x 10	Power Consumption VA :	24 / 1684
Modulating input V dc :	2 x 0-10	Controls Voltage V ac :	2 x 24 (max 4VA)

CONTROLS			
Each module requires its own set of controls			
Standard :	High / Low	BMS Modulating (30-100%)	On / Off
	Manual o/ride	Hours Run Indication	
	High limit protection	Low water protection	
	Operating status indication		
Optional :	Volt free common alarm and boiler run indication		
	Safety interlock control pair (24V ac)		