

ECOflo

High Efficiency Condensing Storage Water Heaters



Working towards
a cleaner future



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ECOflo is the latest addition to the Andrews range of condensing storage water heaters and is designed for large domestic, commercial and industrial applications.

The high efficiency units incorporate Vitraglas® silica glass lined tanks to provide protection against the corrosive effect of hot water and guarantees a longer working life.

The condensing vitreous enamel-lined ultra high thermal efficiency storage water heater features a low NOx pre-mix power burner that is quiet in operation, and a remarkable 98% max gross efficiency that keeps running costs to a minimum, plus flueing arrangements that offer unsurpassed installation flexibility.

ECOflo – a New Standard in Condensing Storage Water Heating

The ECOflo range comprises eight models in two storage capacities – 230/380 litres – with heat outputs ranging from 35kW to 111kW and recovery rates of up to 1900 litres/hour through a temperature rise of 50°C.

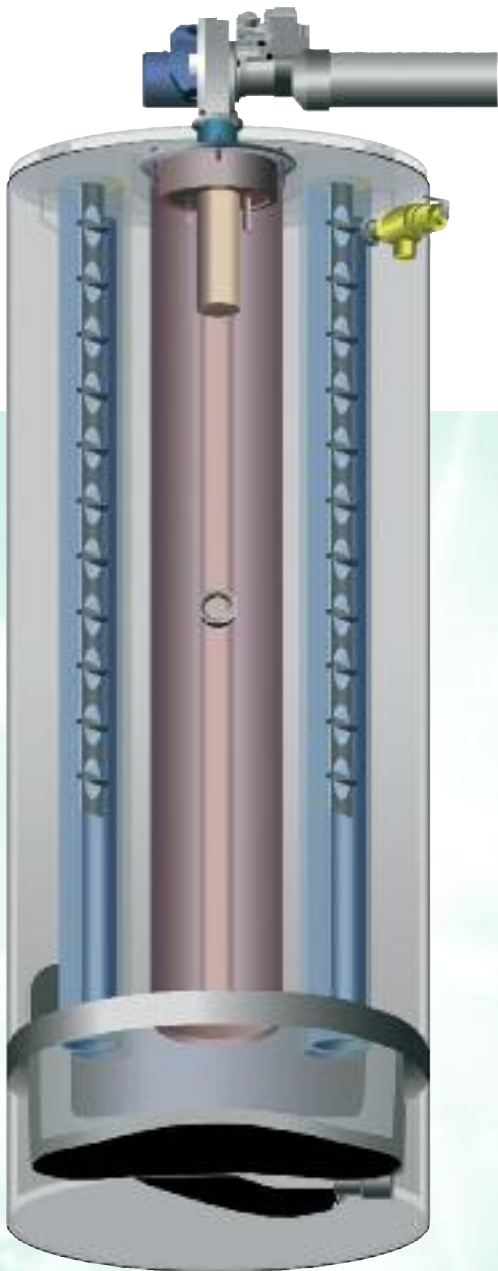
A thermal efficiency rate of up to 98% gross puts ECOflo at the top of the class and leads to greater economy.

In addition to outstanding performance characteristics, all ECOflo models can be flued either vertically or horizontally as room sealed balanced flue appliances, using concentric flue components supplied by Andrews offering the ultimate in siting and installation flexibility.

All models incorporate Correx Powered (maintenance free) Anodes as standard which substantially reduce service time and costs and the factory fitted Hydrojet® sediment reduction system on the cold inlet connection helps to prevent sediment build-up at the base of the tank giving a longer and more efficient working life.

Standard ECOflo Features

- Two storage capacities available, 230 litre and 380 litre
- Fully condensing, with efficiencies up to 98%
- Low NOx pre-mix power burner
- Vitraglas® lined storage tank
- Room sealed balanced flue
- Three pass flue system
- Ultra quiet operation
- Electronic controls
- Factory installed Correx Powered Anode System (maintenance free)
- Factory installed Hydrojet® Sediment Reduction System
- Large hand hole cleanout opening
- Natural Gas and Propane models available



Flueing:
1st Pass



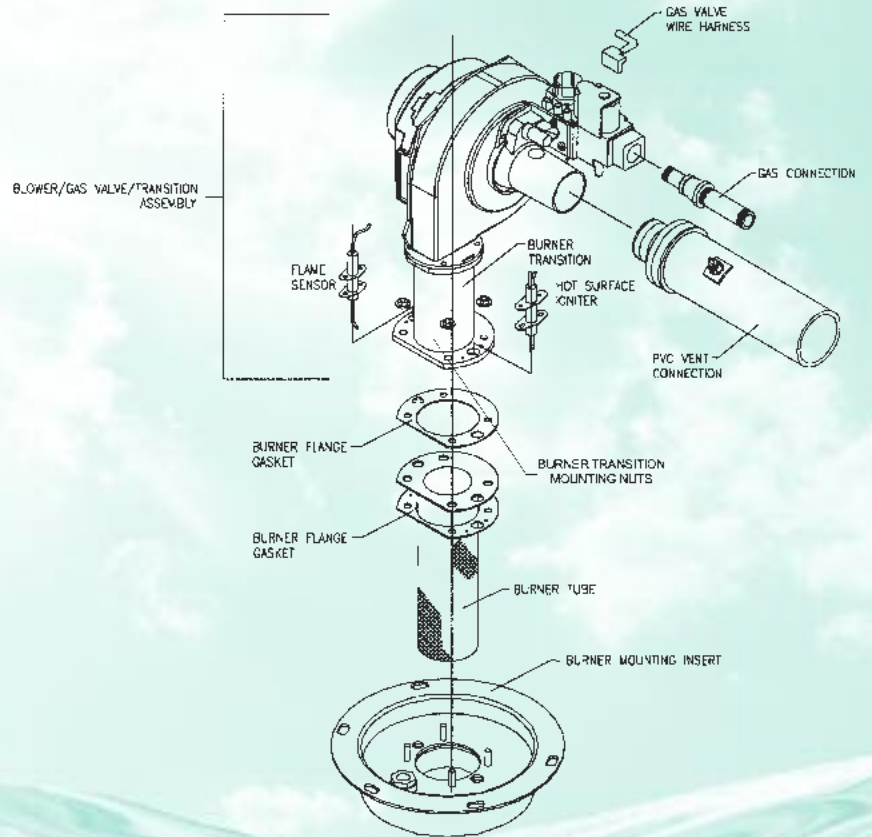
2nd Pass



3rd pass



Burner tube assembly



Specification

Model reference – <i>Natural Gas</i>	EC230/600	EC230/700	EC230/960	EC380/740	EC380/980	EC380/1220	EC380/1400	EC380/1900
Heat input (gross, G20)	36.6 kW	43.9 kW	58.3 kW	43.9 kW	58.6 kW	73.2 kW	87.9 kW	117.2 kW
Heat output	35.1 kW	41.3 kW	54.2 kW	43.0 kW	57.1 kW	71.0 kW	79.1 kW	111.2 kW
Natural Gas, category I2H Gas consumption G20	3.41 m ³ /h	4.09 m ³ /h	5.43 m ³ /h	4.09 m ³ /h	5.43 m ³ /h	6.82 m ³ /h	7.92 m ³ /h	10.95 m ³ /h
Supply pressure	20 mbar	20 mbar	20 mbar	20 mbar	20 mbar	20 mbar	20 mbar	20 mbar
Gross thermal efficiency	96%	94%	93%	98%	98%	97%	93%	94%
Model reference – <i>Propane</i>	LEC230/600	LEC230/700	LEC230/960	LEC380/740	LEC380/980	LEC380/1220	LEC380/1400	LEC380/1900
Heat input (gross, G31)	36.6 kW	43.9 kW	58.3 kW	43.9 kW	58.6 kW	73.2 kW	87.9 kW	117.2 kW
Heat output	35.1 kW	41.3 kW	54.2 kW	43.0 kW	57.1 kW	71.0 kW	79.1 kW	111.2 kW
Propane Gas, category I3P Gas consumption G31	1.39 m ³ /h	1.67 m ³ /h	2.22 m ³ /h	1.67 m ³ /h	2.22 m ³ /h	2.78 m ³ /h	3.12 m ³ /h	4.46 m ³ /h
Supply pressure	37 mbar	37 mbar	37 mbar	37 mbar	37 mbar	37 mbar	37 mbar	37 mbar
Gross thermal efficiency	96%	94%	93%	98%	98%	97%	96%	94%
Technical details – <i>Natural Gas and Propane models</i>								
NOx level	25 ppm 44mg/kWh	25 ppm 44mg/kWh	25 ppm 44mg/kWh	25 ppm 44mg/kWh	25 ppm 44mg/kWh	25 ppm 44mg/kWh	25 ppm 44mg/kWh	25 ppm 44mg/kWh
Noise level (a)	51 dBA	51 dBA	51 dBA	51 dBA	51 dBA	51 dBA	51 dBA	51 dBA
Recovery rate/hour thru' 50°C	600 litres	700 litres	960 litres	740 litres	980 litres	1220 litres	1400 litres	1900 litres
Storage recovery time @ 50°C rise	23 mins	20 mins	14 mins	31 mins	23 mins	19 mins	16 mins	12 mins
Flue size (concentric)	100/150mm	100/150mm	100/150mm	100/150mm	100/150mm	100/150mm	100/150mm	100/150mm
Maximum flue run (concentric) (b)	16 metres	16 metres	16 metres	16 metres	16 metres	16 metres	16 metres	16 metres
Cold inlet water connection	1½" BSP	1½" BSP	1½" BSP	1½" BSP	1½" BSP	1½" BSP	1½" BSP	1½" BSP
Hot outlet water connection	1½" BSP	1½" BSP	1½" BSP	1½" BSP	1½" BSP	1½" BSP	1½" BSP	1½" BSP
Drain port connection	¾" BSP	¾" BSP	¾" BSP	¾" BSP	¾" BSP	¾" BSP	¾" BSP	¾" BSP
Secondary return connection	¾" BSP	¾" BSP	¾" BSP	¾" BSP	¾" BSP	¾" BSP	¾" BSP	¾" BSP
Operating pressure (unvented)	3.5 bar	3.5 bar	3.5 bar	3.5 bar	3.5 bar	3.5 bar	3.5 bar	3.5 bar
Maximum working pressure (vented)	10.3 bar	10.3 bar	10.3 bar	10.3 bar	10.3 bar	10.3 bar	10.3 bar	10.3 bar
Maximum test pressure	20.7 bar	20.7 bar	20.7 bar	20.7 bar	20.7 bar	20.7 bar	20.7 bar	20.7 bar
Gas connection dia.	¾" BSP	¾" BSP	¾" BSP	¾" BSP	¾" BSP	¾" BSP	¾" BSP	1" BSP
Electrical supply	230v/50Hz	230v/50Hz	230v/50Hz	230v/50Hz	230v/50Hz	230v/50Hz	230v/50Hz	230v/50Hz
Fuse	5 amp	5 amp	5 amp	5 amp	5 amp	5 amp	5 amp	5 amp
Power consumption	120W	120W	210W	120W	210W	210W	210W	210W
Shipping weight empty	259kg	259kg	259kg	408kg	408kg	408kg	408kg	431kg
Storage	230 ltr	230 ltr	230 ltr	380 ltr	380 ltr	380 ltr	380 ltr	380 ltr
(a)	Noise level measured at 2m from flue terminal							
(b)	Reduce flue length by 1.2m for 90° bend, 0.7m for 45° bend and 1.5m for condense trap							

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