

 **sime**<sup>®</sup>



Condensation floor standing boiler

**Dewy 30/80**

# Dewy 30/80



## The pre-mixed condensation boiler

Why choose a condensation boiler?  
It offers a number of obvious advantages. Combustion in a conventional boiler exploits only a portion of the energy contained in fuel by transforming it into heat; the rest of the energy is dispersed in the flue. Condensation technology recovers a large percentage of the dispersed energy, achieving more efficient use of all the

energy offered by the fuel. **Dewy 30/80** makes use of almost all energy produced by fuel to achieve maximum efficiency and minimum consumption. **Dewy 30/80** meets the requirements of EEC Gas Directive 90/396, EEC Electromagnetic Compatibility Directive 89/336, EEC Low Voltage Directive 73/23 and EEC Efficiency Directive 92/42



CO emissions	27 ppm
NOx emissions	35 ppm

## Ecological heat

**Dewy 30/80** stands out for its environmental compatibility thanks to use of SIME's exclusive forced premixing system which mixes air and gas in a special manifold prior to ignition.

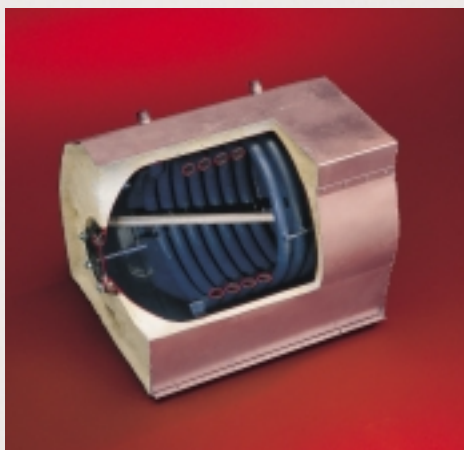
The system permits regulation of combustion factors, helping keep the burner flame at the optimum temperature and thereby limiting formation of carbon monoxide and nitrogen oxides.

The burner is designed for silent operation, and can be used with LPG.



## Intelligent accumulation

The outstanding efficiency of the steel boiler, coated with porcelain glass to ensure the utmost hygiene, guarantees that hot water can be supplied to multiple taps at the same time. Modulation of delivery temperature combined with microprocessor control of the hot water tank ensures that water is kept at the desired temperature at all times. With **Logica**<sup>®</sup> boiler activity may be programmed with two temperature levels: comfort and economy, so that abundant hot water is available whenever it is needed, and only when it is needed. Once a week **Dewy 30/80** heats the boiler to 65°C to eliminate any bacteria in the water



## Climatic comfort

With **Logica**<sup>®</sup> (optional), SIME's outstanding temperature control unit, and connection with an outdoor **sensor** (optional, **Dewy 30/80** manages demand for heat and hot water to match climatic conditions outdoors, the quality of indoor insulation and the habits and demands of the family.



## Integrated control

The electronic microprocessor control and management board guarantees excellent, dependable performance. The **chimney sweep** function aids combustion analysis. **Power modulation** in heating and hot water mode is rapid and precise, optimising consumption to meet real needs. If pumps are inactive for over 24 hours, **Dewy 30/80** starts them up for two seconds to prevent them from seizing up due to inactivity.



## Energy efficiency

**Dewy 30/80** recovers 98% of the heat produced by combustion by exploiting the principle of condensation, permitting significant savings even in conventional systems.

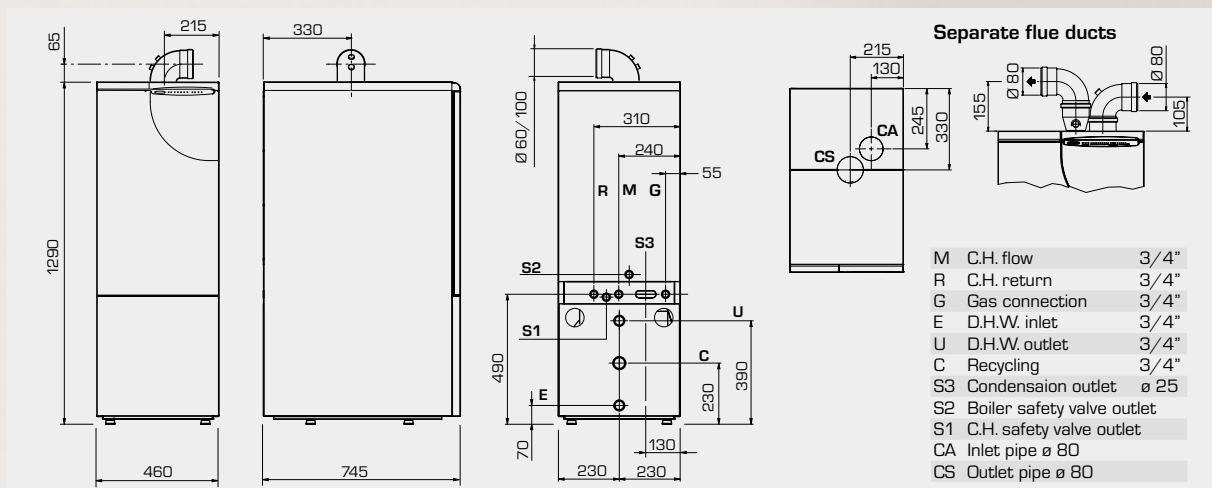


## Technical data

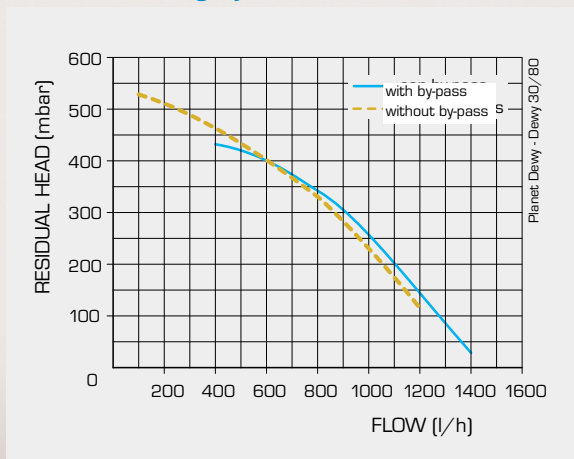
C0694		Dewy 30/80
<b>Heat output</b>		
Minimum/Nominal 80-60°C	kW (kcal/h)	10,4/29,3 (9.000/25.200)
Minimum/Nominal 50-30°C	kW (kcal/h)	11,4/32,0 (9.800/27.600)
<b>Heat input</b>		
Minimum/Nominal	kW	10,8/30,0
<b>Useful thermal efficiency 80-60°C</b>		
Minimum/nominal load	%	96,7/97,7
<b>Useful thermal efficiency 50-30°C</b>		
Minimum/nominal load	%	105,8/106,8
<b>Energy efficiency (EEC Directive 92/42)</b>		
		★★★★
<b>Water content</b>		
	litri	9,5
<b>Maximum water head</b>		
	bar	3
<b>Absorbed power consumption</b>		
	W	175
<b>Electrical protection grade</b>		
		IP 44 (IP X4D)
<b>Expansion vessel</b>		
Capacity/Preloading pressure	l/bar	8/1
<b>C.H. setting range</b>		
	°C	20÷80
<b>D.H.W. setting range</b>		
	°C	10÷60
<b>D.H.W. production</b>		
Specific D.H.W. flow rate EN 625 <sup>(1)</sup>	l/min	19,9
Continuous D.H.W. flow rate Δt 30°C	l/min	14
Maximum D.H.W. pressure	bar	7
D.H.W. tank capacity	l	80
D.H.W. expansion vessel	l	4
<b>Total load loss</b>		
	mm H <sub>2</sub> O	15,5
<b>CO emissions</b>		
	ppm	27
<b>NOx emissions (Class 5)</b>		
	ppm	35
<b>Weight</b>		
	kg	127

<sup>(1)</sup> Test for 10 minutes of water consumption

## Dimensional details - Hydraulic connections



## Head of heating system



We pursue a policy of continuing improvement in design and performance of our products. The right is therefore reserved to vary specifications without notice.

## Technical features

Dewy 30/80	
Inspectable D.H.W. tank	•
Automatic ignition by flame ionisation	•
Automatic bypass on heating circuit	•
Antifreeze system triggered at 6°C using heating NTC probe	•
Hermetically sealed combustion chamber	•
Motorized diverter valve	•
Gas flow regulator	•
No water safety device	•
Expansion vessel	•
D.H.W. expansion vessel	•
Pump with air separator	•
Self-diagnosis with leds	•
Manual filling cock	•
Non-stop electronic flame modulation in C.H. and D.H.W. mode	•
Ready for installation of Logica Remote Control unit and outdoor temperature sensor (optional)	•

