Savio

Concept 400

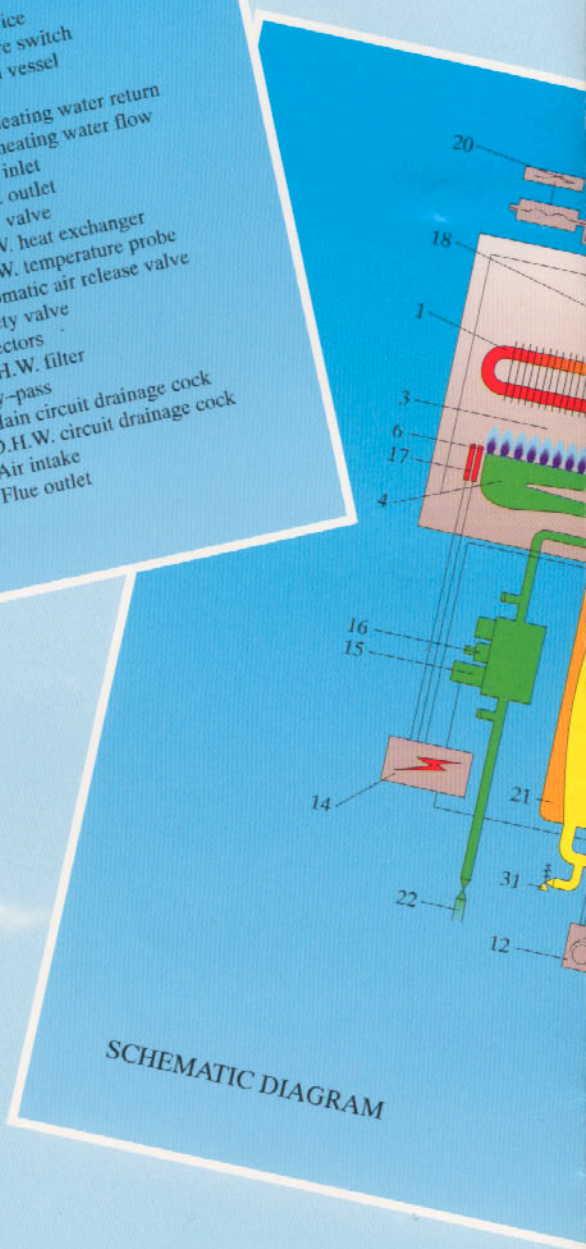
Wall hung gas boilers

British Gas
Approved and Service Listed

Concept 400

For a new approach to central heating

• Large company • Market awareness • Environmental design



SCHEMATIC DIAGRAM

Savio's technical skill and excellence within the heating market has been gained through ten years of research and development into the manufacture of boilers and heat exchangers. This research and development has led to innovative design of boiler and components to produce maximum efficiency coupled with ease of maintenance.

Special design features have been incorporated to prevent build up of lime-scale, in both the main and domestic hot water heat exchangers considered a significant feature of all combination boilers.

A new concept in technical achievement born from an industrial group's in-depth research and capacity for effective action.

• Quality products • Convincing technological solutions • Regard for the quality of life

All this translates into a technical features which bring significant advantages to the user: reduces gas consumption, thanks to the high efficiency between the burning gas and the water; a guarantied hot water supply even with low main pressures; excellent user comfort, thanks to the continuous double modulation of the flame and simple regular maintenance of the components.

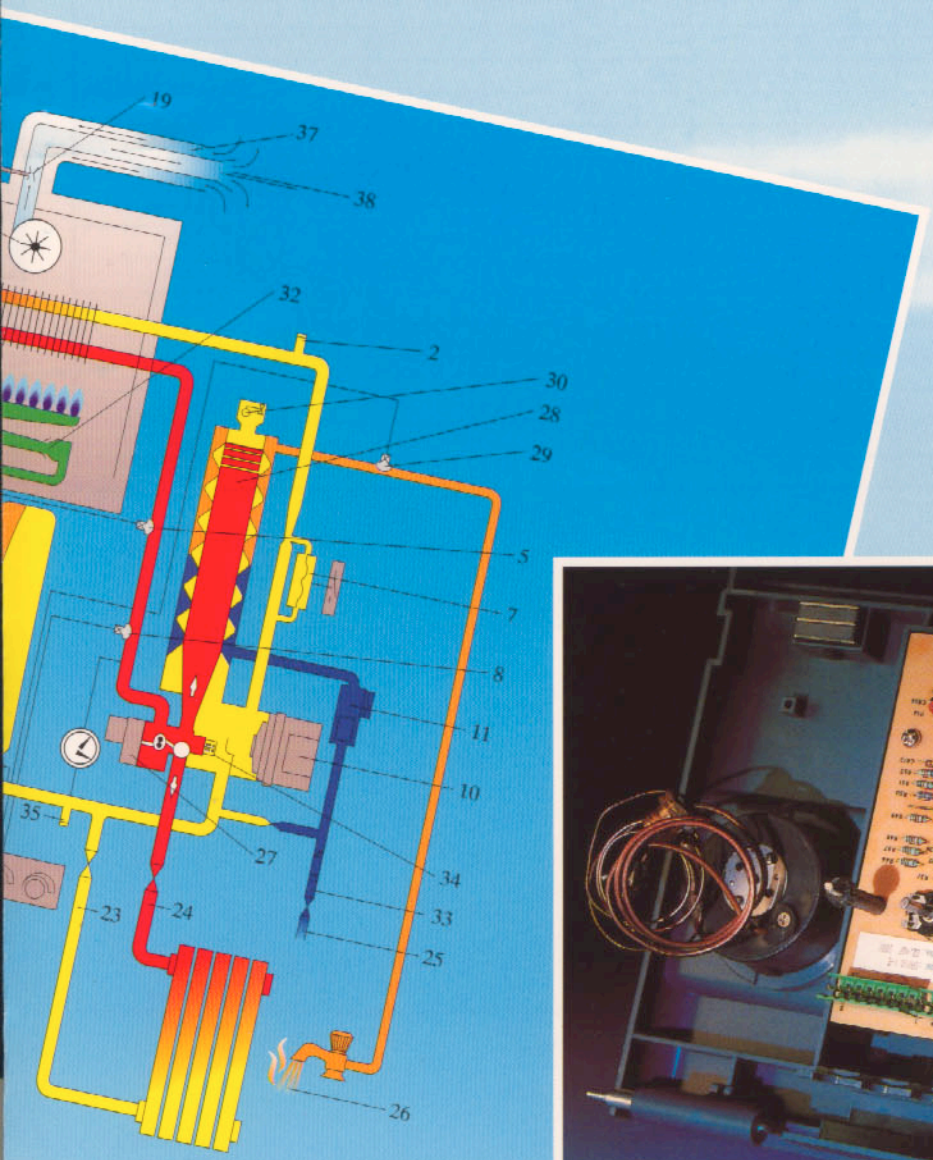
And, in addition: the possibility of independently adjusting the control of the central heating together with control of domestic hot water to within 1°C for any delivery volume; built-in double safety features, electronic controls, and the absence of thermal shocks.

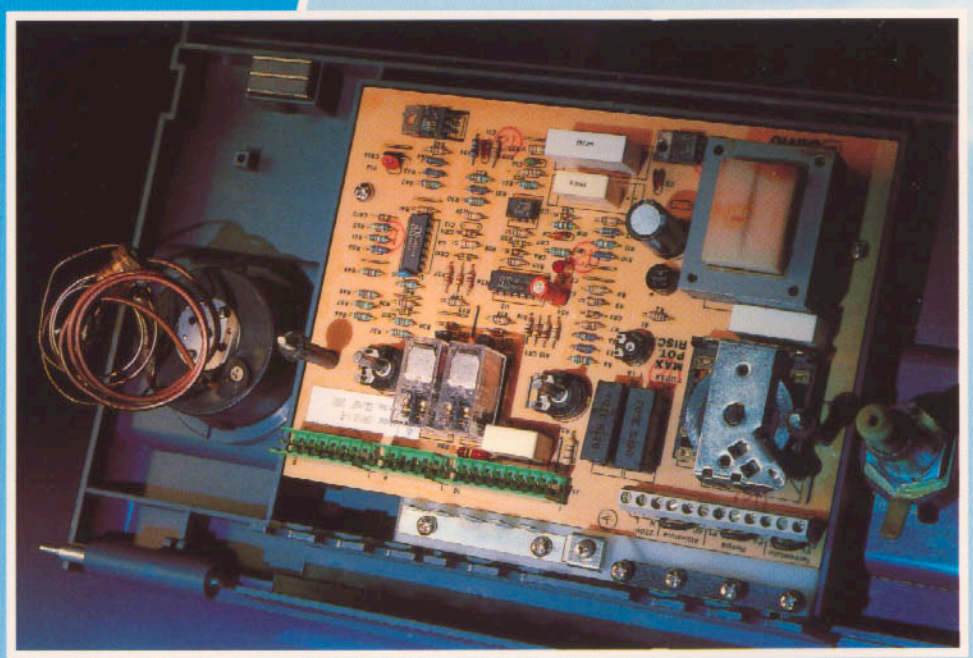
This is more than just a new central heating boiler; the design also express new concepts, a new approach. This appliance is designed for use in the home and has a direct bearing on daily life. It must therefore, be efficient, safe, comfortable, attractive and simple as a child's toy.

Economical control

Thermo-static adjustment

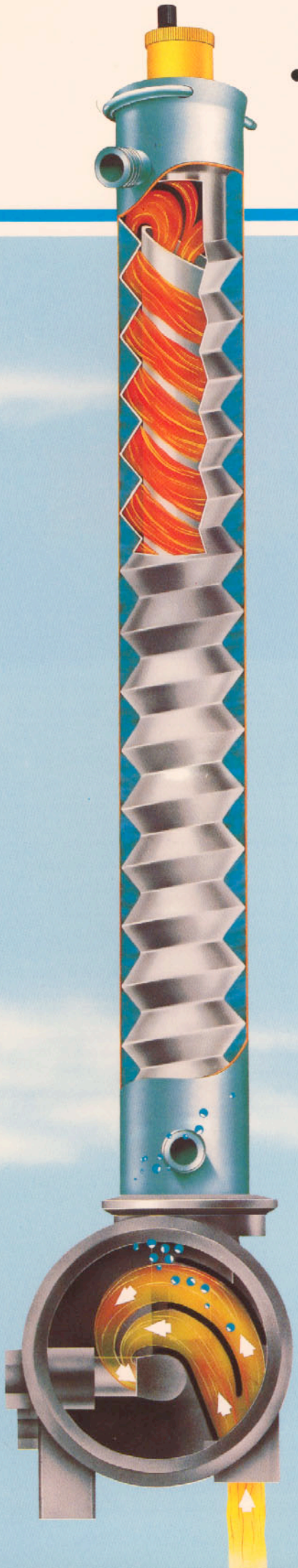
Continuous electronically controlled modulation of up to 35% of rated power on two independent circuits = uniformity of domestic hot water temperature independently of the amount required, to within 1°C of the temperature set on the control panel + the possibility of adapting the heating output to ambient requirements, in compliance with current energy-saving legislation.

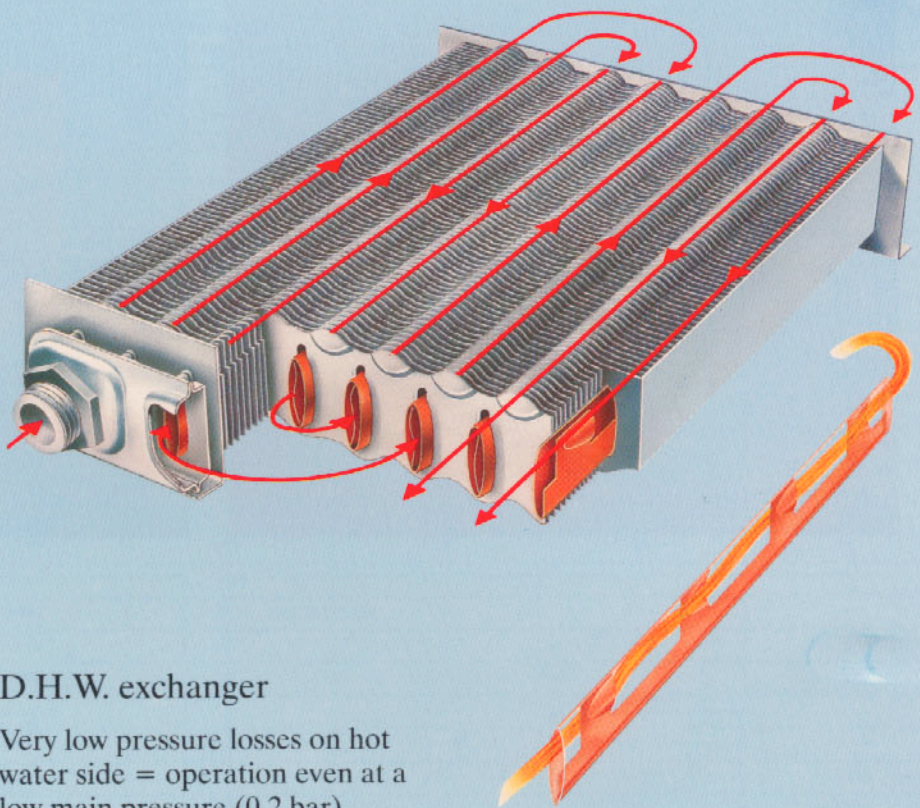




The complete central heating boiler

• Maximum reliability • Complete safety • Simplicity of operation
• Simple installation and maintenance • Operating flexibility
• Wide range of performances • State–of–the–art components
• Compact design • High efficiency • Comfort





D.H.W. exchanger

Very low pressure losses on hot water side = operation even at a low main pressure (0.2 bar).

High efficiency = immediate and complete response of maximum available power.

Original design of exchange surfaces and water passages = high resistance to scale and simple dismantling an cleaning.

Main exchanger

Maximum temperature of metal on flame side 200°C = reliability and durability.

Special vortex–forming elements designed to prevent boiling even in abnormal operation = absence of thermal shocks.

Transfer over 90% of combustion heat to water = economy in compliance with energy–saving legislation.

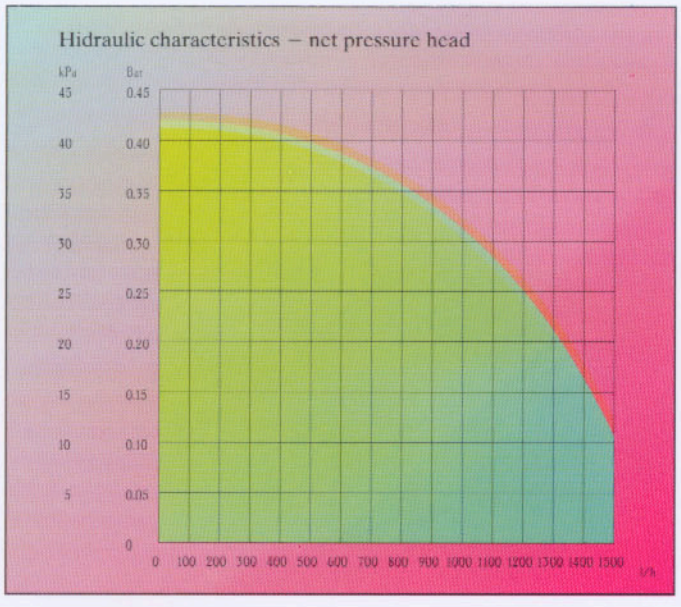
High performance circulation pump

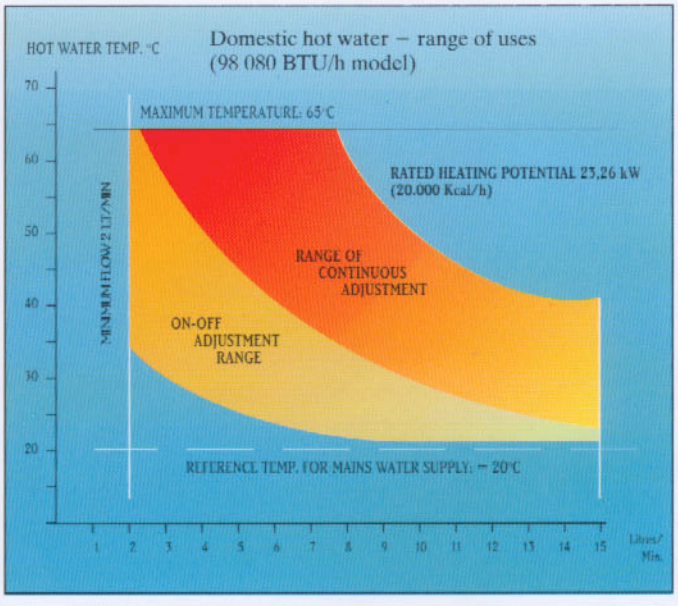
Operation is quiet and efficient.

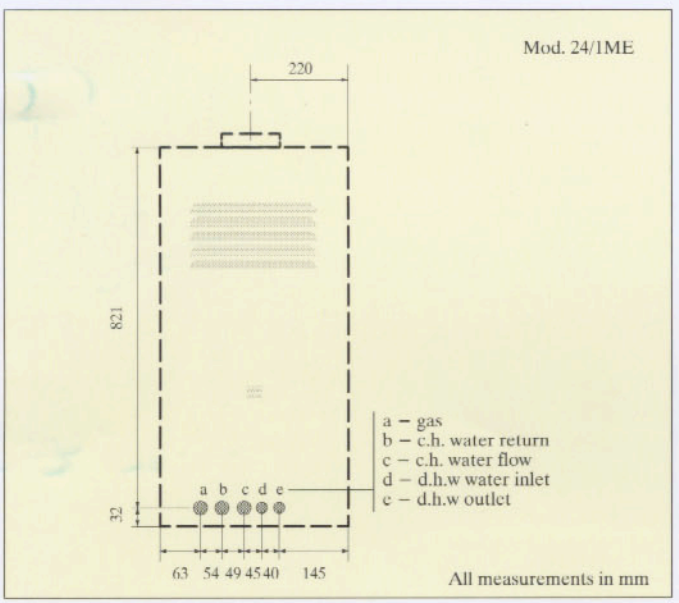
Efficient deareation right from the first start–up = no overheating of primary exchanger.

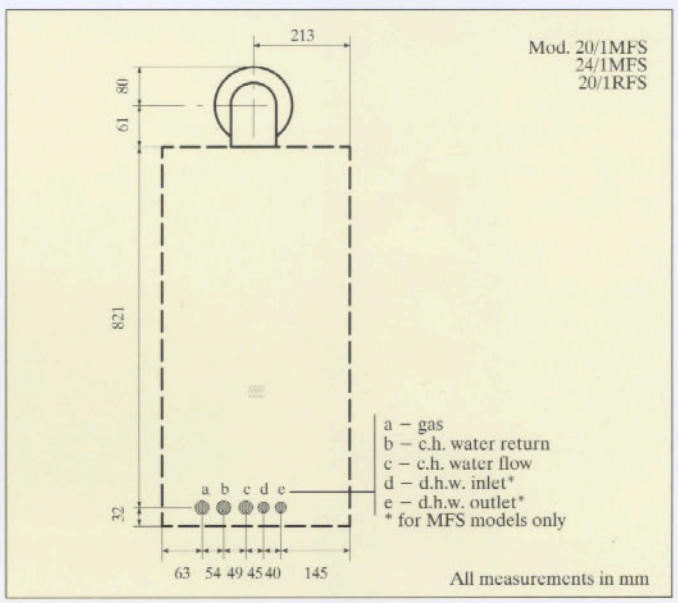
Low pressure losses inside heater = high pressure head available to the system.

Characteristics









Technical data

Models		24/1ME	20/1MFS	24/1MFS	20/1RFS*
		Natural draught Electronic ignition	Forced draught – Sealed chamber Electronic ignition		
Central heating					
Useful heat output	kW–BTU/h	27,90–95214	23.25–79344	27,90–95214	23.25–79344
Heat input (net)	kW–BTU/h	31,00–105794	25,89–88370	31,00–105794	25,89–88370
Minimum useful heat output	kW–BTU/h	9,80–33444	8,71–29274	9,80–33444	8,71–29274
Maximum temperature	°C	85	85	85	85
Expansion vessel capacity	l	7,5	7,5	7,5	7,5
Useful pressure head (1000 l/h)	kPa–bar	32–0,32	32–0,32	32–0,32	32–0,32
Domestic hot water					
Useful heat output	kW–BTU/h	27,90–95214	23.25–79344	27,90–95214	–
Minimum useful heat output	kW–BTU/h	9,80–33444	8,71–29274	9,80–33444	–
Maximum temperature	°C	65	65	65	–
Minimum temperature	°C	37	37	37	–
Maximum pressure	kPa–bar	1000–10	1000–10	1000–10	–
Minimum pressure	kPa–bar	20–0,2	20–0,2	20–0,2	–
Flow rate Δt 25K	l/min'	16	13,3	16	–
Flow rate Δt 30K	l/min'	13,3	11,1	13,3	–
Flow rate Δt 35K	l/min'	11,4	9,5	11,4	–
Flow rate Δt 40K	l/min'	10	8,3	10	–
Minimum rate flow	l/min'	2	2	2	–
Other data					
Voltage–frequency	V–Hz	240–50	240–50	240–50	240–50
Power	W	120	150	150	150
Height	mm	853	853	853	853
Width	mm	400	400	400	400
Depth	mm	370	370	370	370
Weigth	kg	42	50	50	47
Flue pipe diameter	mm	140	100/60	100/60	100/60
Max length of flue pipe	m	–	3	2	3
Loss in length for each elbow	m	–	1	1	1

*Central heating only

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