

Bosch Hydronic Heating

Efficient, comfortable, healthy.

Buderus

Bosch Group



BOSCH

Hydronic Specialist



What is Hydronic Heating?

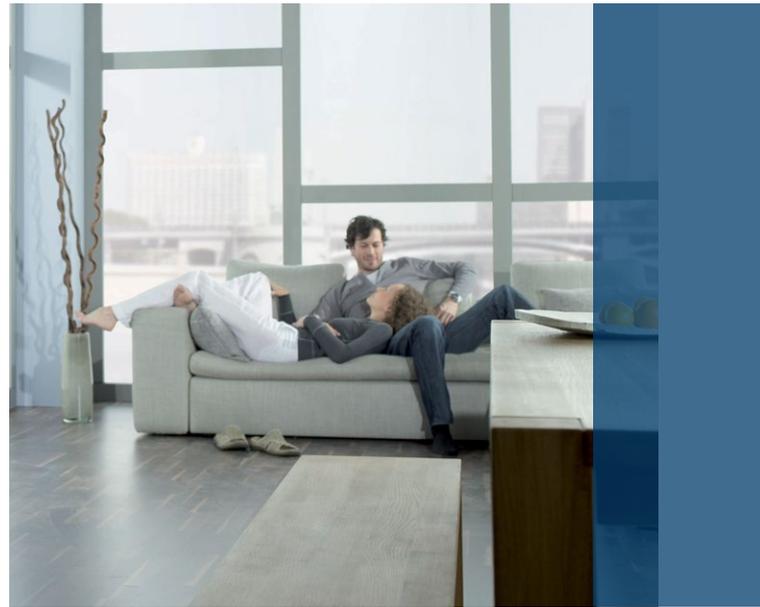
Hydronic heating is a method of heating utilising heated water to distribute warmth throughout a building.

The benefits of hydronic heating

Hydronic heating offers superior comfort, operational efficiency, and silent operation. It is also known to minimise the negative effects to allergy and asthma sufferers caused by the circulation of airborne particles, such as pollen and dust, that occur with alternative heating technologies employing blown air.

Bosch – Invented for life

Bosch is a global technology and services company with the ambition to enhance the quality of life for the worlds citizens, with solutions that are both innovative and beneficial. This ambition is perfectly aligned with Bosch’s current position as the world market leader for residential heating systems. In the heating field, Bosch has secured this dominant position by providing high technology appliances that are efficient, high quality, and outstanding value for money.



Boilers

Bosch offers a range of 3 highly efficient condensing technology Boilers in Australia. The 18KW and 30KW hydronic heating boilers are suitable for heating small through to large domestic homes. The 37KW combination boiler can provide 30KW of hydronic heating, plus highly efficient continuous flow domestic hot water. Bosch hydronic heating boilers have been engineered to minimise their impact on the environment. The combustion process is designed for maximum efficiency and minimum emissions in line with stringent European requirements. The Bosch boilers utilise condensing technology that delivers additional efficiency gains over conventional gas appliances by converting flue gases to liquid condensate.

Specifications

	Model		
	18 kW	30 kW	37 kW
Part Number - NG	7716130186	7738100005	7738100003
Part Number - LPG	7716130187	7738100006	7738100004
Installation	Internal (requires optional flueing components) or External (requires optional outdoor casing)		
Gas type	NG/LPG	NG/LPG	NG/LPG
Efficiency at 80/60' (Flow/Return)	97%_88%	98%_88%	98%_88%
Efficiency at 50/30' (Flow/Return)	103%/93%	103%/93%	103%/93%
Nominal Gas Consumption (MJ/H) Central Heating (CH)	75	130	130
Domestic Hot Water (DHW)	n/a	n/a	160
Gas supply pressure (kPa)	1.13 (NG) 2.75 (LPG)	1.13 (NG) 2.75 (LPG)	1.13 (NG) 2.75 (LPG)
Expansion tank (ltr)	8	10	10
Minimum Working Water Pressure (kPa)	CH: 100 DHW: n/a	CH: 100 DHW: n/a	CH: 100 DHW: 20
Maximum Working Water Pressure (kPa)	CH: 265 DHW: n/a	CH: 265 DHW: n/a	CH: 265 DHW: 1000
Net weight (kg)	27.1	46.5	48.5
Dimensions - Internal Installation			
Height (mm)	700	750	750
Width (mm)	400	440	440
Depth (mm)	330	360	360
Dimensions - External Installation			
Height (mm)	1000	1000	1000
Width (mm)	500	500	500
Depth (mm)	400	400	400

Bosch Condens 5000W range

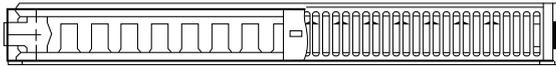


Radiators

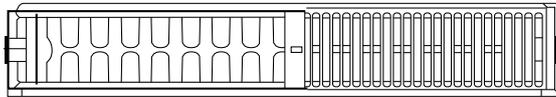
Radiator Dimensions

Dimensions	
Heights (mm)	4 Heights 300, 500, 600, 900
Types	2 Types 21, 22
Standard Lengths (mm)	400, 600, 800, 1000, 1200, 1400, 1600, 1800, 2000

Type 21



Type 22



In a hydronic heating system, heated water from the boiler passes through the radiator panels allowing heat to be transferred into the living environment.

Bosch (Buderus - Brand) radiator panels have been designed and constructed to achieve maximum thermal performance. They have a stylish modern design, and are finished in a high quality white powder coated finish. The panels are mounted with an unobtrusive but robust bracketing system designed to comply with rigorous German Standards.

Bosch and Buderus

Buderus is a Brand name owned by the Bosch Group, and is utilised globally for radiator panels. The company Buderus was founded in Germany in 1731 and is a manufacturer of high quality heating boilers and accessories. Buderus was acquired by the Bosch Group in 2003.

Controllers

The Bosch FR120 is a digital wall mounted room thermostat that is designed to provide accurate temperature and time control for hydronic heating systems, combining advanced features with user friendly operation. The FR120 controller's intelligent software stores operational data allowing the Bosch boiler to anticipate changes in heating demand and gain further heating system efficiency improvements.

Bosch FR 120 Features:

- ▶ 7 – Day programmable with up to 6 event periods per day
- ▶ User friendly functionality
- ▶ Slim, White styling - suitable for all locations and interior décor
- ▶ Large, clear LCD screen with back lighting feature
- ▶ Optimal Start – pre-activate start up for desired temperature settings
- ▶ Domestic hot water functionality
- ▶ Automatic frost detection
- ▶ Holiday function - Ensuring off when away, but heated upon return
- ▶ Fault diagnostics
- ▶ Instant comfort feature
- ▶ Low Voltage – Increased safety
- ▶ Manual override
- ▶ Long term reliability



Bosch FR 120

Controller Specifications

Part Number	FR120
Type	
Intelligent	•
Mount	
Wall mounted	•
Features	
Time Control	
Central Heating	•
Hot water	•
7 day	•
Temperature Control	
Programmable room thermostat	•
Optimum start	•
Boiler flow temp compensation	•
Electrical	
Connection Type	
Hard wired	•



Hydronic Specialists

Benefits of a Hydronic Specialist:

In order to ensure you receive only the best service and advice, Bosch has identified and established its own network of preferred Hydronic Heating Specialists. An accredited Bosch "Hydronic Specialist" has the required knowledge and expertise to optimally design, install, and service hydronic heating systems incorporating Bosch boilers and accessories.

Servicing

To ensure the longevity and operational efficiency of your heating system, Bosch recommends that all hydronic heating equipment be serviced annually by a qualified technician. Regular maintenance is a cost effective way to ensure ongoing optimal performance, reliability, and peace of mind.

Bosch Hydronic Specialist

Hydrotherm Australia Pty Ltd

96 Commercial Drive, Thomastown VIC 3074

P.O Box 1191 Bundoora VIC 3083

Phone +61 3 9464 4622

Email quotes@hydrotherm.com.au

Web www.greenheat.com.au

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HYDRONIC HEATING

