

Hot water for a single household

Electrical Hot Water Heater, Models 55, 60, 110 and 160

METRO THERM's electrical Hot Water Heater, Models 55, 60, 110 and 160 supply hot water to the kitchen, washbasins and shower for a single household and other minor installations. The water is heated by a ceramic electrical heating element, mounted in an enamelled flange pipe. That means less limescale deposit on the heater element, and the tank will be less exposed to corrosion. The temperature is controlled by an integrated thermostat between 5-65°C.

Benefits

- Coated in a special enamel against corrosion, limescale and bacteria deposits.
- Low heat loss, as the tanks are fully insulated with PUR insulation foam.
- Frontal control panel, easy to install and service.
- 5-year guarantee against corrosion penetration.
- Can be connected to 230V and 400V
- Fast, stable hot water heating.



Performance

The heaters are fitted with a 3.6 kW (400 V) steatite electric heating element, which can also be connected to 230 V mains supply without modification. Output then becomes 1.2 kW. High-performance 400 Volt heating element available.

Achieves the following output:

- Type 622 (56 litres): 6 kW
- Type 644 (98 litres): 9 kW
- Type 605 (142 litres): 9 kW

An indicator light on the front shows when the water is heating. The heater is fitted with a thermal fuse, which can be reset. The tank is frost-proof at its minimum setting (5°C).

Frequent limescale deposit removal may be necessary, depending on water hardness and amount used.

Construction

The tanks are coated internally with special enamel to protect against rust, limescale and bacteria. They are fitted with readable and replaceable anodes, and are VA-approved (a voluntary Danish approval scheme for water and drain products). The cabinet is powder-coated with a strong, matt silk paint, which is easy to keep clean.

Installation

All hot water heaters are supplied with a wall bracket, as they are intended for vertical mounting on a wall.

NB: models 110 and 160 can be mounted horizontally, but will provide 25 - 30% less hot water than when mounted vertically. A safety device is supplied with heaters fitted with 3 kW heating elements.

The heaters have encapsulation class is IP24, fulfilling the Low Voltage Directive (LVD), and the heaters are CE-marked.

TYPE 655 TYPE 622 TYPE 644 TYPE 605

Mål i mm

H 460 W 460 D 560 H 875 W 390 D 390 H 1030 W 460 D 460 H 1400 W 460 D 460

1. Water supply (cold) 3/4" shut-off valve
2. Non-return valve (integrated)
3. Safety valve
4. Overflow 3/4"
5. Drain tap
B Hot water out 3/4"
C Cold water in 3/4"

Non-pressurised (type 655 only)

1. Water supply
2. Drain spout (overflow)
3. Handle for hot water
4. Handle for cold water
5. Tank inlet
6. Tank outlet
7. Non-return valve

Distance between connection pipes:

TYPE 655: 70 mm
TYPE 622: 100 mm
TYPE 644: 100 mm
TYPE 605: 100 mm

NB: The safety device protects this form of installation on the cold tap water side.

Technical data

Type	Litres	kW	Volt	Fuse rating (A)	Weight, kg	Test pressure, bar	Max. operating pressure, bar	Energy class	Plumbing no.	METRO no.
655 pipe upwards	53	1/3	230/400	1x10/2x10	42	13.5	10	C	345111260	0116551003
622 5-65°C	56	1/3	230/400	1x10/2x10	48	13.5	10	C	345121360	0116221003
622 5-88°C	54	6	3x400	3x10	50	13.5	10	C	345121370	0116221005
644 5-65°C	98	1/3	230/400	1x10/2x10	59	13.5	10	C	345121560	0116441003
644 5-88°C	98	1/3	230/400	1x10/2x10	59	13.5	10	C	345121562	0116441601
644 5-88°C	94	9	3x400	3x16	61	13.5	10	B	345121580	0116441006
605 5-65°C	142	1/3	230/400	1x10/2x10	76	13.5	10	C	345121760	0116051003
605 5-88°C	142	1/3	230/400	1x10/2x10	76	13.5	10	C	345121762	0116051601
605 5-88°C	140	9	3x400	3x16	78	13.5	10	C	345121780	0116051006

Heating times

	Volt	Heating time from 10-55 °C, minutes			
		655	622	644	605
Litres		53	56	98	142
Output 1 kW	230	172	188	345	502
Output 3 kW	400	57	63	115	167
Output 6 kW	400	-	31	-	-
Output 9 kW	400	-	-	38	56