

Hot water for a single household

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

METRO 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.

The benefits of METRO Electrical Hot Water Heater, Models 55, 60, 110 and 160

- 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 |