

# COMPACT E – R – CU

ELECTRIC WATER HEATER



## Design

COMPACT is available with three different types of corrosion-resistant lining material for the hot water tank; copper, enamel or stainless steel. The type of anticorrosive lining used in the tank is determined by the type of water used in the hot water tank.

### Copper –

The water tank consists of a steel vessel, with a copper lining to protect against corrosion.

### Enamel -

The water tank consists of a steel vessel, with an enamel lining to protect against corrosion.

### Stainless steel -

The water tank consists of a stainless steel vessel, (grade EN 1.4521) which is precision welded and then pickled in an acid bath to ensure a high-quality finish.

The pressure vessel is designed and manufactured in accordance with current pressure vessel standards (PED 97/23 EC § 3.3), for a maximum working pressure of 9 bar (0.9 MPa), which is the equivalent to a design pressure of 10 bar (1.0 MPa).

The water tank's seamless, flame-resistant, blow-moulded polyurethane foam insulation provides an excellent heat insulation.

The outer shell is made from powder-coated sheet steel and the rear panel is made from galvanised sheet steel.

The flanged, stainless steel (Alloy 254 SMO) immersion heater in a Ø 80 mm connection opening allows for simple dismantling, internal inspection and cleaning of the vessel.

## Installation

The water heater is designed for upright installation. The COMPACT CU 100 can be installed beneath a worktop in the kitchen.

A complete set of valves, consisting of a mixer valve, non-return valve, safety/drain valve and shut-off valve, are factory fitted.

The base of the unit is generously sized to permit concealed piping connections. Piping can be brought up from beneath or down from above (through recesses in the back panel). There is sufficient space in the base to allow connection of a distribution manifold.

### COMPACT - E

When mounting the unit, be sure to leave enough room to allow for inspection of the sacrificial anode, see Technical specifications.

If an anode needs replacing, a ribbon anode can be fitted instead of a rod anode. This has the same function as a rod anode but only requires approx. 200 mm of free space above the water heater.

## Electrical equipment

The water heater is connected to 400 V~ two-phase. The water heater can be connected to 230 V~ single-phase if required, but then the power output is limited to 1.0 kW. (6 kW 400 V~ three-phase can be specially ordered.)

The flanged, stainless steel (Alloy 254 SMO) immersion heater in a Ø 80 mm connection opening allows for simple dismantling and internal inspection of the vessel.

Adjustable thermostatic control to 80 °C.

Electric water heater  
for installation in areas such  
as kitchens or utility rooms

**ENAMEL**  
**STAINLESS STEEL**  
**COPPER**

COMPACT E **150 200 300**  
COMPACT R **200 300**  
COMPACT CU **100 200 300**

**The advantages of  
COMPACT**

**effective,  
pro-environmental insulation**

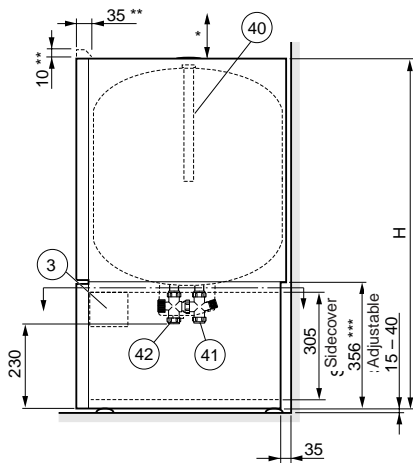
**quick and simple  
to install**

**best performance  
and safety**

*Comfort  
from Sweden*

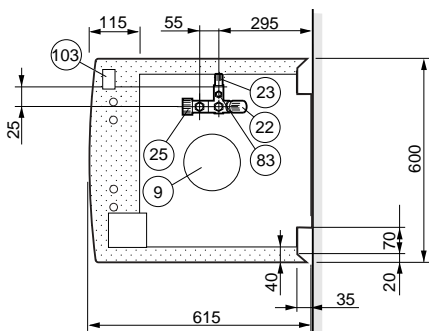


## Dimensions and equipment



\* Be sure to leave sufficient space for inspection purposes. See "Technical specifications", "Anode length" and "Installation". Only for the COMPACT - E.

\*\* The lower section of the side plates can be removed during installation. This allows easier access with a pipe wrench (and other tools) from the sides.



Pipes must not be run in the area indicated by dots.

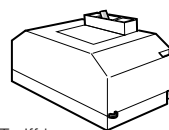
### Equipment

- 5 Combined thermostat and temperature limiter
- 6 Immersion heater RAR 14 - 112
- 9 Connection area
- 22 Shut-off valve with non-return valve function
- 23 Safety/drain valve
- 25 Mixer valve
- 40 Sacrificial anode
- 41 Cold water inlet, compression ring coupling Ø 22 mm
- 42 Mixed water, compression ring coupling Ø 22 mm
- 83 Drain pipe connection for sacrificial valve and draining, compression ring coupling Ø 15 mm

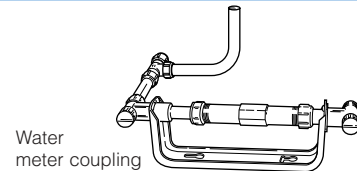
### Accessories

- Water meter kit, comprising:
- 45 Water meter bracket, with sliding gauge block
  - 46 Shut-off valves for water meter coupling
  - 47 Cold water inlet, G 25 ext.
  - 48 Cold water outlet, compression ring coupling Ø 22 mm

### Accessories

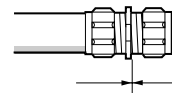


Tariff box



Water meter coupling

### Measuring principle



Compression ring

## Technical specifications

Model		E 150	E 200	E 300	CU 100	CU 200	CU 300	R 200	R 300
Height H	(mm)	1 120	1 310	1 710	820	1 310	1 710	1 310	1 710
Connection height (cold water, mixed water)	(mm)	230	230	230	150	230	230	-	-
Required ceiling height	(mm)	1 295	1 465	1 840	1 040	1 460	1 835	1 460	1 835
Voltage (standard design)		400V- two-phase or 230V							
Enclosure class		IP 24							
Power **	(kW)	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3	1 - 3
Fuses required at 1.0 / 3.0 kW	(A)	6 - 10	6 - 10	6 - 10	6 - 10	6 - 10	6 - 10	6 - 10	6 - 10
Heating-up time to 45 °C at 1.0 / 3.0 kW*	(hours)	6.0   2.0	8.0   2.5	11.5   4.0	4.0   1.5	8.0   2.5	11.5   4.0	8.0   2.5	11.5   4.0
Heating-up time to 80 °C at 1.0 / 3.0 kW*	(hours)	12.0   4.0	15.5   5.0	22.5   7.5	8.0   3.0	15.5   5.0	22.5   7.5	15.5   5.0	22.5   7.5
Heat content at 80 °C	(kWh)	11.8	15.1	22.4	8.1	15.1	22.4	15.1	22.4
Volume	(litres)	145	185	275	90	185	275	185	275
Net weight	(kg)	75	91	117	62	95	122	67	87
Sacrificial anode length	(mm)	570	570	775	-	-	-	-	-
Pressure vessel		PED 97/23 EC § 3.3							

\* This applies for incoming cold water temperature at 10°C

\*\* 6 kW 400V- three-phase can be specially ordered.

We reserve the right to make changes in design and dimensions without prior notice.



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