

# QMS

## WATER HEATER FOR INDIRECT HEATING / SOLAR



### Design

The QMS water heater is a high-class product with superior performance.

The heater features two purpose-built heating coils to provide an efficient heating of the industrial water in order to ensure sufficient amounts of hot water.

The heater is equipped with a side flange for cleaning purposes.

The QMS range is completely insulated with CFC-free EPS cups. This minimises the heat loss and the running costs.

Besides, the water heater is enamelled and equipped with an anode in order to prevent corrosion and ensure a long life cycle.

The QMS is easy to install and maintain. The heater comes in two sizes – 300 and 400 litres.

The inside of the QMS is covered with a unique enamel which has been melted into a hard and impervious surface at temperatures of up to 850°C. This super-hard surface restrains lime, zoogloeal film, and other types of scaling – even after several years of operation. This improves the hygiene and leads to a long life cycle. Along with the anode, this protects the heater from corrosion.

The large enamelled steel coils consist of pipes designed to provide maximum cooling of the primary side with minimum pressure drop, altogether ensuring sound running costs.

### Application

QMS is designed to heat industrial water by means of solar energy and district/central heating as a supplement.

QMS may be used for district heating purposes and in connection with oil and gas boilers.

### High efficiency

The large coil at the bottom of the heater is connected to the solar panel system functioning as the main heat source. The upper half of the heater features a minor coil which is used for supplementary heating from the central heat system, providing sufficient amounts of hot water in the heating season.

For district heating purposes, the coils may be connected in series in order to ensure a proper cooling and a high output.

### Water heaters for indirect heating with two enameld battery circuit

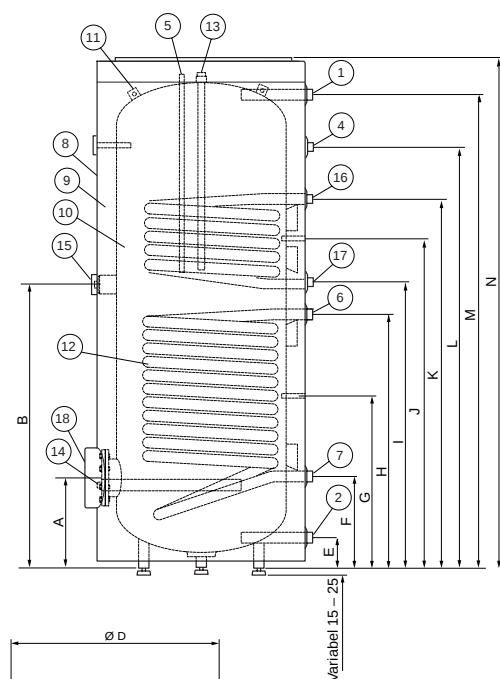
### The advantages of QMS

- **Efficient heating coil – always sufficient amounts of hot water.**
- **Inside enamelling to prevent corrosion.**
- **Long life cycle.**
- **High reliability.**
- **Completely CFC-free insulation to prevent heat loss.**
- **5 year corrosion guarantee.**
- **Cost-effective acquisition.**



*Comfort from Sweden*

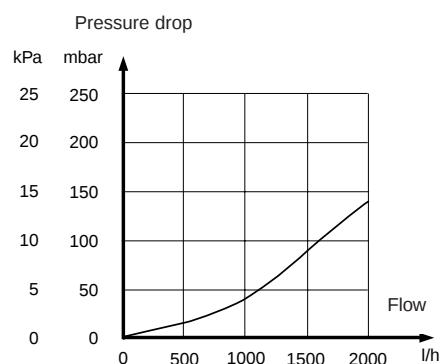
## Dimensions & Key to Components



- |    |                              |                       |
|----|------------------------------|-----------------------|
| 1  | Hot water outlet             | G1 external thread    |
| 2  | Cold water inlet             | G1 external thread    |
| 4  | Circulation connection       | G3/4 external thread  |
| 5  | Thermostat connection        | Ø 12.5 mm (internal)  |
| 6  | Inlet battery circuit        | G1 external thread    |
| 7  | Outlet battery circuit       | G1 external thread    |
| 8  | Outer cladding               |                       |
| 9  | Insulation                   |                       |
| 10 | Water tank                   |                       |
| 11 | Lifting eye                  |                       |
| 12 | Battery circuit              |                       |
| 13 | Anode                        |                       |
| 14 | Anode                        |                       |
| 15 | Electric heater connection   | 1 1/2 internal thread |
| 16 | Inlet battery circuit upper  | G1 external thread    |
| 17 | Outlet battery circuit upper | G1 external thread    |
| 18 | Inspection opening           |                       |

## Pressure drop diagram

(Primary side)



|     | QMS 300 | QMS 400 |
|-----|---------|---------|
| A   | 283     | 315     |
| B   | 883     | 883     |
| Ø D | 650     | 725     |
| E   | 91      | 103     |
| F   | 283     | 283     |
| G   | 533     | 533     |
| H   | 786     | 786     |
| I   | 932     | 932     |
| J   | 1083    | 1083    |
| K   | 1227    | 1227    |
| L   | 1308    | 1308    |
| M   | 1472    | 1495    |
| N   | 1587    | 1633    |

## Technical data

| Type designation                 |                 |                 | QMS 300 | QMS 400 |
|----------------------------------|-----------------|-----------------|---------|---------|
| Volume                           |                 | l               | 295     | 390     |
| Net weight                       |                 | kg              | 145     | 205     |
| Battery                          | heating surface | m <sup>2</sup>  | 1,55    | 2,1     |
| Continuous tapping               | 80/10 – 45°C    | l/h             | 1000    | 1265    |
| Output at primary flow 1,500 l/h | 80/10 – 45°C    | kW              | 41      | 52      |
| Output at primary flow 1,500 l/h | 80/10 – 60 °C   | kW              | 33      | 43      |
| Heating time                     | to 60 °C        | min             | 32      | 40      |
| Hot/Cold water connection        | flat sealing    | external thread | G1      | G1      |

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

**NIBE AB**  
Sweden

Box 14  
Järnvägsgatan 40  
SE - 285 21 MARKARYD

Tel: +46 - (0)433-73 000  
Fax: +46 - (0)433-73 190

[www.nibe.com](http://www.nibe.com)

