GBK 80-200

Pressurised electric water heaters

Volumes: 80, 100, 120, 150, 200 l.
Vertical wall mounting.
High – quality thermal insulation.
Combination of electrical heating and heating from another source via tubular heat exchanger.
RN – right side inlet connection or LN – left side inlet connection for the heat exchanger
Indirect air heating element.
Arbitrary water temperature setting up to 75°C.with a rotating knob .
Temperature setting options:
economical temperature
protection against freezing.
Thermometer displaying water temperature inside water heater.
Indicator of electric heating element operation.
Tank made of high quality steel sheet, enamel coated at 850°C.
Magnesium anode for additional anti-corrosion protection of tank.
Large diameter of heating flange (100 mm) allows simple cleaning and maintenance.

Indirect air heating elements – reliable operation, simple maintenance

Tubular air heating elements are inserted into the heating flange made of special steel and enamelled against corrosion. Compared to conventional immersion heating elements, the advantages of indirect heating element are as follows:

the heating elements are not in direct contact with water,
the replacement of heating elements is simple as it is not required to empty the water heater before repair,
the heating flange incorporates 2 or more heating elements electrically connected in parallel, assuring a higher reliability of operation (if one heating element fails, the water heater still operates),
the limestone depositing is reduced and removing the limestone deposit is simpler,
the inside surface is completely enamel coated (no blank surfaces, compared to the models with immersion heating elements) therefore Mg anode consumption is reduced and consequently its life span is longer.

Properties

MODEL	GBK 80RN / GBK 80LN	GBK 100RN / GBK 100LN	GBK 120RN / GBK 120LN	GBK 150 RN/LN	GBK 200 RN/LN
Volume [l]	80	100	120	150	200
Purpose					
One or more outlets	•	•	•	•	•
Vertical wall mounting	•	•	•	•	•
Left / right connections for heat exchanger	G 3/4	G 3/4	G 3/4	G 3/4	G 3/4
Number of persons - average consumption	3 - 4	4 - 5	5 - 6	6 - 8	8 - 10
Dimensions of Connections					
Height (mm)	803	948	1103	1318	1510
Diameter(mm)	500	500	500	500	500
Depth (mm)	507	507	507	507	507

Connections to the supply network	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2
Net / gross weight / with water [kg]	51/54/131	56/59/156	62/66/182	72/76/222	90/95/295
Technical Characteristics					
Working pressure [bar]	6	6	6	6	6
Enamelled steel tank	•	•	•	•	•
Magnesium protective anode	•	•	•	•	•
Selection of temperatures up to 75 °C	•	•	•	•	•
Protection against freezing	•	•	•	•	•
Heating element control lamp	•	•	•	•	•
Thermometer	•	•	•	•	•
Average thickness of insulation [mm]	40	40	40	40	40
Degree of protection against humidity	IP 25	IP 25	IP 25	IP 25	IP 25
Heat Exchanger					
Area of the exchanger [m²]	0,70	0,90	0,90	0,90	0,90
Area of the exchanger [m²]	6	6	6	6	6
Max. input temperature [°C]	85	85	85	85	85
Electrical Characteristics					
Number of heating elements x power [W]	2 x 1000	2 x 1000	2 x 1000	2 x 1000	2 x 1000
Rated power output [W]	2000	2000	2000	2000	2000
Voltage 230 V ~	•	•	•	•	•
Nominal current [A]	8,7	8,7	8,7	8.7	8.7
Functional Characteristics					
Heating time from 15 to 75 °C	3h 05min	3h 55min	4h 35min	5h 45 min	7h 40 min
Heating time from 15 to 45 °C using heat exchanger	17min	12min	15min	18 min	24 min
Amount of available mixed water at 40 °C [l][1]	141	187	224	286	387
Thermal losses [kWh/24 h][2]	1,39	1,58	1,77	2.05	2.50
Connection Fittings					
Safety valve or safety group	•	•	•	•	•

Reduction valve for pressure > 5 bar	•	•	•	•	•
Non-return valve for heat exchanger	•	•	•	•	•
Transportation					
Packaging dimensions [mm]	600x600x902	600x600x1047	600x600x1202	600x600x1417	600x600x1609
No. of pieces per truck [120 m³]	288	192	192	192	96

(1) Values are valid for mixing water with a temperature of 15°C from the cold inlet with water at 65°C from the heater (SIST EN 60379:2005 standard).
(2) Measured at 20°C ambient temperature and 65°C water temperature in the heater (SIST EN 60379:2005 standard).
* When connected as pressurised, use of safety valve is mandatory.