



The new degree of comfort.®



RHC B

SS316 CALORIFIERS
WITHOUT HEX



CONSTRUCTION



RHC B

TANK MATERIAL	STAINLESS STEEL AISI 316L
INTERNAL SURFACE TREATMENT	PICKLING AND PASSIVATION
EXTERNAL SURFACE TREATMENT	PICKLING AND PASSIVATION
CAPACITY	500-10000 L
VERSION	VERTICAL
CONNECTIONS	THREADED
PRIMARY CHEST MATERIAL	STAINLESS STEEL AISI 316L
SPIRAL COIL MATERIAL	STAINLESS STEEL AISI 316L
INSULATION 500 L	HARD POLYURETHANE 80 MM INJECTED
INSULATION 800 - 2000 L	• PLFH 100 MM • HIGH DENSITY ECO-FRIENDLY POLYESTER FIBER
INSULATION 2500 - 5000 L	• PLF 50 MM • ECO-FRIENDLY POLYESTER FIBER
CLADDING	• LIGHT GREY RAL7035 • ALUMINIUM
ANODE TYPE	—
ACCESSORIES (FACTORY FITTED)	THERMOMETER

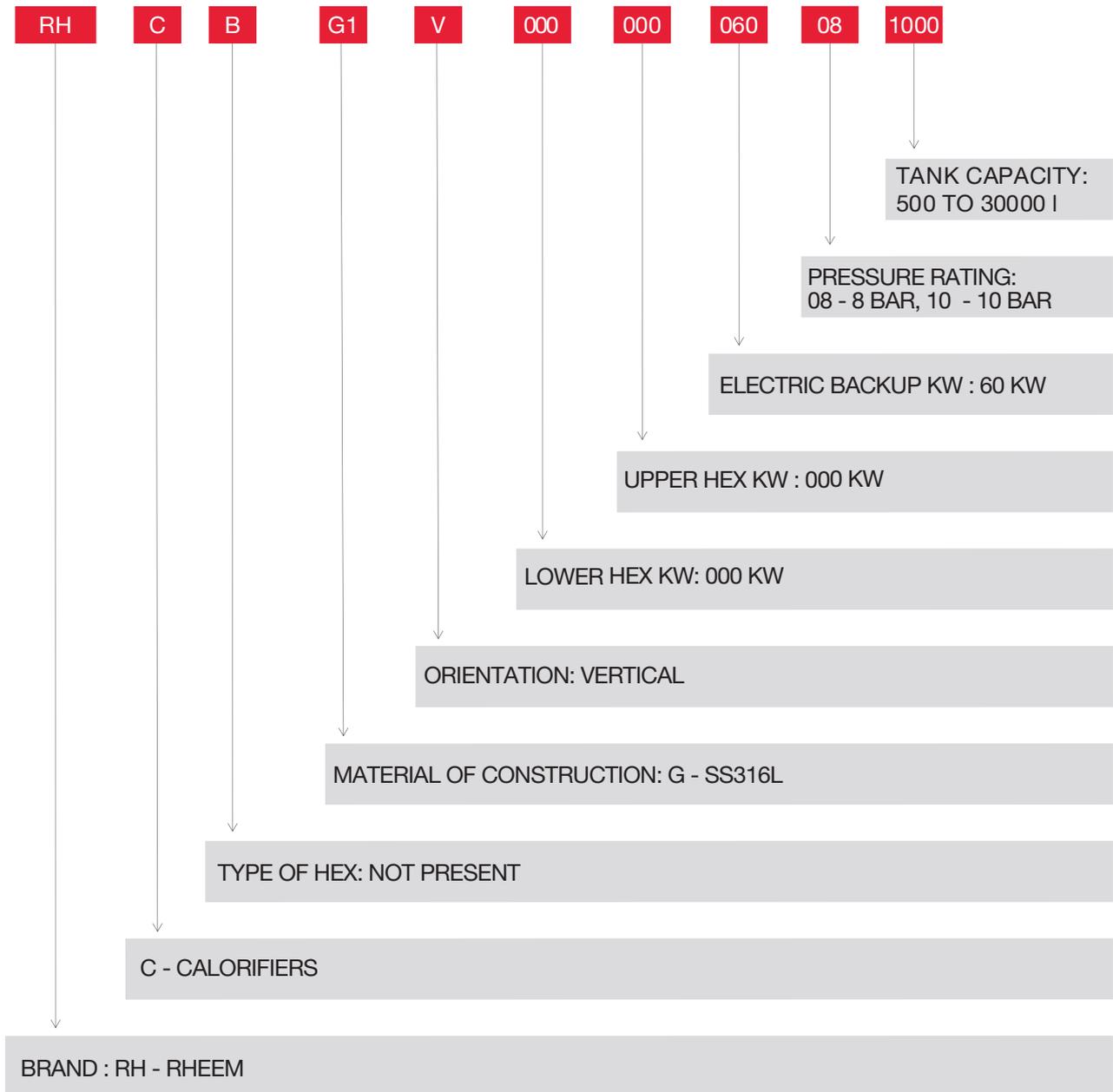
STANDARD WORKING CONDITIONS

	Capacity-L	500	800	1000	1500	2000	2500	3000	4000	5000
Tank working pressure	bar	ATM-8*								
Coil working pressure	bar	ATM-12								
Tank working temperature	°C	AMB-99								

*ATM -10 optional

Calorifiers made of Stainless Steel AISI 316L pickled and passivated

Nomenclature



CALORIFIER -1 UTUBE BUNDLE

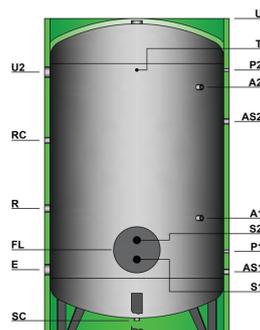
GENERAL CHARACTERISTICS - VERTICAL STANDARD VERSION

	Capacity-L	500	800	1000	1500
DIMENSIONS					
Diameter without insulation	mm	650	800	800	1000
Diameter with insulation	mm	760	1000	1000	1200
Overall height	mm	1824	1950	2200	2245
Overturning height with without insulation	mm	1980 —	2080 1918	2316 2166	2415 2240
CONNECTIONS					
E Cold water supply	mm Ø	384 1½"	420 2"	420 2"	480 2½"
U DHW return	mm Ø	1824 1½"	1950 2"	2200 2"	2245 2½"
U2 DHW additional return	mm Ø	—	—	—	—
RC Recirculation	mm Ø	1259 1½"	1370 1½"	1405 1½"	1395 1½"
R Immersion electric heater	mm Ø	804 2"	1010 2"	1010 2"	950 2"
P1 Sensor	mm Ø	504 ½"	610 ½"	608 ½"	650 ½"
P2 Sensor	mm Ø	1534 ½"	1550 ½"	1698 ½"	1680 ½"
T Thermometer	mm Ø	1534 ½"	1550 ½"	1800 ½"	1840 ½"
A1 Anode	mm Ø	884 ½"	920 ½"	608 ½"	860 ½"
A2 Anode	mm Ø	—	—	—	1680 ½"
AS1 Spare	mm Ø	384 1¼"	420 1¼"	418 1¼"	450 1¼"
AS2 Spare	mm Ø	1184 1¼"	1220 1¼"	1818 1¼"	1850 1¼"
SC Drain	mm Ø	99 1¼"	95 1¼"	95 1¼"	130 1¼"

EMPTY WEIGHTS					
Empty weight	kg	45	50	75	110

	Capacity	2000	2500	3000	4000	5000
DIMENSIONS						
Diameter without insulation	mm	1200	1200	1250	1400	1600
Diameter with insulation	mm	1400	1300	1350	1500	1700
Overall height	mm	2184	2590	2790	2869	2960
Overturning height with without insulation	mm	2418 2216	2773 2600	2976 2800	3088 2883	3232 2982
CONNECTIONS						
E Cold water supply	mm Ø	504 2½"	530 3"	525 3"	559 3"	620 3"
U DHW return	mm Ø	2184 2½"	2590 3"	2790 3"	2869 3"	2960 3"
U2 DHW additional return	mm Ø	—	—	—	2399 3"	2460 3"
RC Recirculation	mm Ø	1319 1½"	1645 1½"	1730 1½"	1764 1½"	1825 1½"
R Immersion electric heater	mm Ø	899 2"	1100 2"	1095 2"	1129 2"	1190 2"
P1 Sensor	mm Ø	649 ½"	700 ½"	695 ½"	729 ½"	790 ½"
P2 Sensor	mm Ø	1714 ½"	2190 ½"	2385 ½"	2419 ½"	2480 ½"
T Thermometer	mm Ø	1714 ½"	2190 ½"	2385 ½"	2419 ½"	2480 ½"
A1 Anode	mm Ø	834 ½"	1010 ½"	1005 ½"	1039 ½"	1100 ½"
A2 Anode	mm Ø	1554 ½"	2030 ½"	2225 ½"	2259 ½"	2320 ½"
AS1 Spare	mm Ø	484 1¼"	510 1¼"	505 1¼"	539 1¼"	600 1¼"
AS2 Spare	mm Ø	1284 1¼"	1910 1¼"	1905 1¼"	1939 1¼"	2000 1¼"
SC Drain	mm Ø	109 1¼"	135 1¼"	125 1¼"	114 1¼"	145 1¼"

EMPTY WEIGHTS						
Empty weight	kg	225	300	335	440	475



ACCESSORIES & SPARE PARTS

- THERMOMETER Ø65mm | L=150MM | (0-120)°C
- THERMOMETER Ø100mm | L=150 mm | (0-120)°C
- SENSOR SOCKET Ø½" | L=150 mm | Ø_{int} 10mm
- THERMOSTAT Ø½" (0-90)°C
- ELECTRONIC ANODEKIT 200-500 L
- ELECTRONIC ANODE KIT 800-1000 L
- ELECTRONIC ANODE KIT 1500-5000 L



THERMOMETER



PROBE SOCKET



THERMOSTAT



ELECTRONIC ANODE

IMMERSION ELECTRIC HEATERS 1/3 PHASE SS316L / INCOLOY Screw connection 2" | Aluminium box IP55 | V400/230

TABLE 1: POWER (WATT), TANK CAPACITY (RT) AND LENGTH (MM)

Power Watt	Tank capacity L	Length mm
2000	500-5000	280
3000	500-5000	380
5000	500-5000	500
6000	500-5000	600
9000	500-5000	680
10000	500-5000	680
12000	500-5000	820



ANTI-CORROSION PROTECTION STEEL TREATMENTS

DHW storage tanks made of Stainless Steel 316L are treated with full immersion pickling procedures and subsequent passivation to ensure the highest hygiene standards.

CATHODIC PROTECTION

The corrosion of a metal structure occurs mainly in areas in which there is the passage of current (oxidation-reduction process) from the structure towards the outside (water or gas) causing a dissolution of the structure itself.

Cathodic protection by means of electronic impressed current system.

As an alternative to the galvanic system (coupling of materials with different potentials) there is a protection method which consists in applying an equal and opposite continuous current to the metallic structure to be protected, neutralising the voltages formed inside the tank.

Thanks to the modern techniques there is an innovative electronic system of cathodic protection with continuous impressed current.

The main advantages are:

- Active protection by means of impressed currents from the outside
- Excellent flexibility of operation in order to adhere to the changeable internal coating conditions and the mass of water
- Reduction of maintenance costs due to the permanent protection of the system.



INSULATIONS

Insulating material	Removable	Thickness	Density	Thermal conductivity coefficient at 45°C	Operating temperature	Fire reaction class Euroclass EN13501-1
PLF Polyester fibre	✓	50 mm	20 kg/m ³	$\lambda = 0,037 \text{ W/mK}$	Amb. / +99°C	B-s2, d0
PLFH High Density Polyester fibre	✓	100 mm	25 kg/m ³	$\lambda = 0,034 \text{ W/mK}$	Amb. / +99°C	B-s2, d0
Injected Hard Polyurethane	✗	80 mm	40-42 kg/m ³	$\lambda = 0,019 \text{ W/mK}$	-10°C / +99°C	F

PLFH / PLF – Polyester fibre

- 100% recyclable
- Environmental friendly
- Lightweight
- Self-supporting
- Fire-retardant
- Rot-proof
- Resistant to mould, bacteria or rodents
- Hypoallergenic
- Water repellent



Hard foam Polyurethane

Thermal and anti-condensation insulation made of hard closed cell polyurethane foam (PU), free from CFC and HCFC.

It is available in various thickness and can be injected directly to the shell of the tank to prevent it from condensation and provide the lower thermal dispersion. For some sizes it is pre-formed into half-shells to ease the insulation removal in case the tank has to pass through narrow doors.

CLADDINGS



ALUMINIUM

External cladding made of embossed aluminium sheeting suitable also for outdoor installations. The insulations made with this type of cladding consist of panels joined together by means of rivets and extruded aluminium slats with an exclusive design, specifically designed to facilitate assembly even directly at the installation site.

The coverings and flange covers made of same material securely anchored to the insulation guarantee the same levels of quality in terms of duration and outside appearance and do not risk being damaged by the wind and adverse weather conditions.



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