



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

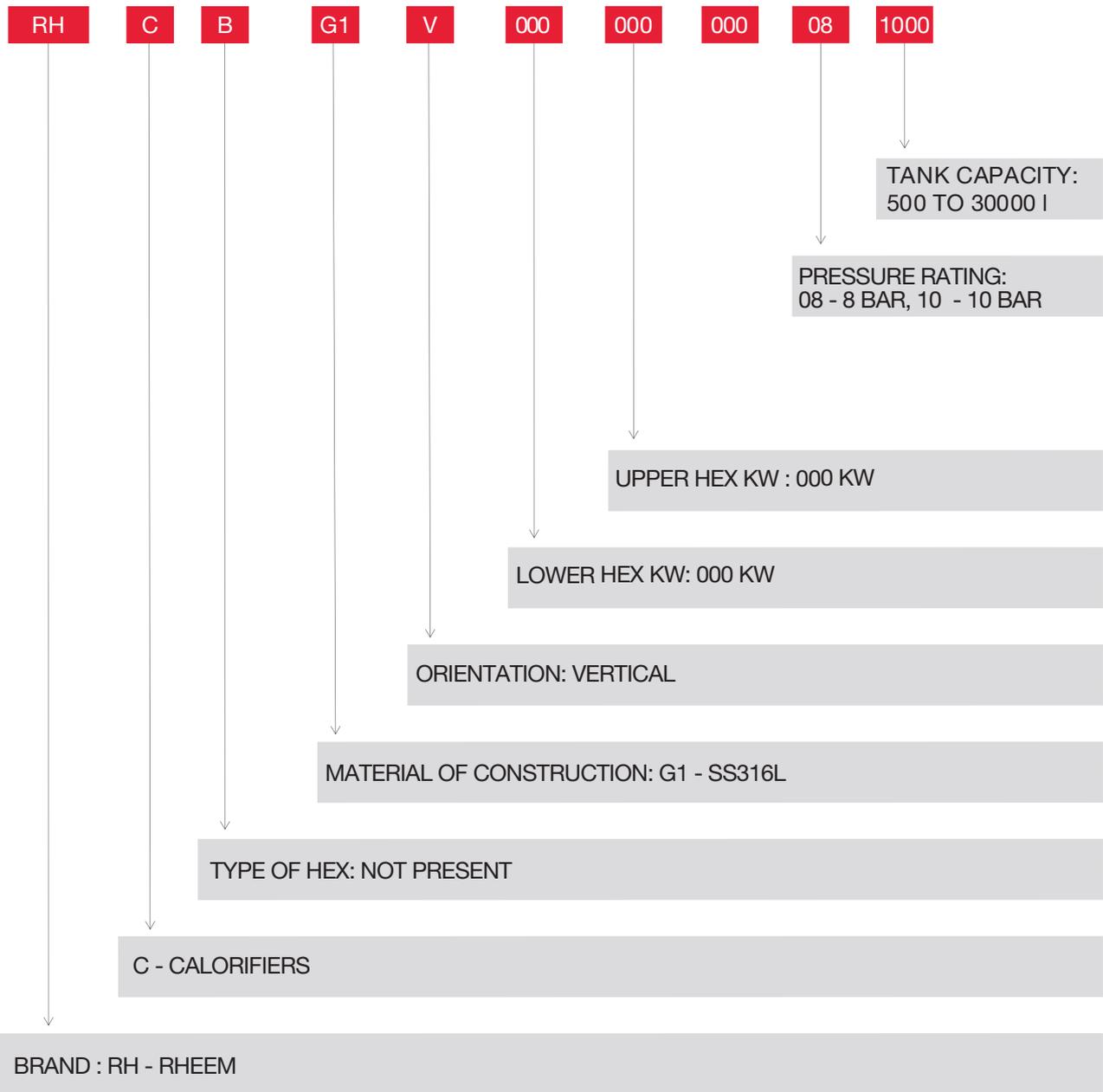
## STANDARD WORKING CONDITIONS

	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

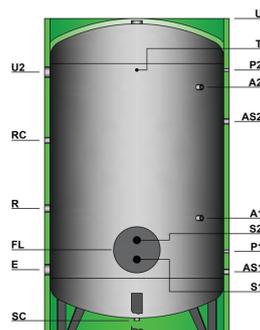
## GENERAL CHARACTERISTICS - VERTICAL STANDARD VERSION

	Capacity-L	500	800	1000	1500
<b>DIMENSIONS</b>					
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
<b>CONNECTIONS</b>					
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"

<b>EMPTY WEIGHTS</b>					
Empty weight	kg	45	50	75	110

	Capacity	2000	2500	3000	4000	5000
<b>DIMENSIONS</b>						
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
<b>CONNECTIONS</b>						
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"

<b>EMPTY WEIGHTS</b>						
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<sub>int</sub> 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 <sup>3</sup>	$\lambda = 0,037 \text{ W/mK}$	Amb. / +99°C	B-s2, d0
PLFH High Density Polyester fibre	✓	100 mm	25 kg/m <sup>3</sup>	$\lambda = 0,034 \text{ W/mK}$	Amb. / +99°C	B-s2, d0
Injected Hard Polyurethane	✗	80 mm	40-42 kg/m <sup>3</sup>	$\lambda = 0,019 \text{ W/mK}$	-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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