



CORAL VITRO - VITREOUS ENAMELLED STEEL

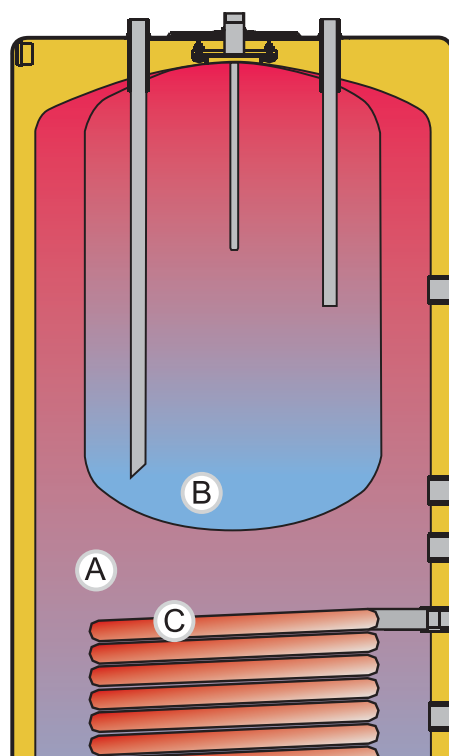
DOUBLE-WALL models, multifunctional storage tanks!

The water contained in the surrounding or primary tank is heated by an external energy source (boiler, heat pump, solar collectors, etc.) that passes through this vessel and transmits its thermal energy to the water contained in the inner tank or DHW storage tank.

DOUBLE-WALL TANKS: The DOUBLE-WALL system basically consists of a combination of two tanks, one inside the other. DHW production takes place by the exchange of heat from the external or primary tank to the internal or secondary tank (DHW), through the tank's entire surface.

The water contained in the surrounding or primary tank is heated by an external energy source (boiler, heat pump, solar collectors, etc.) that passes through this vessel or through the solar coil and transmits its thermal energy to the water contained in the inner tank or DHW storage tank.

LONG-LASTING PRODUCT: VITREOUS ENAMELLED STEEL storage tank according to **DIN 4753 T3**. Food grade impermeable lining with a porcelain look that protects the metal surface of the storage tank in contact with water.



(A) BUFFER TANK. (B) DHW TANK. (C) SOLAR COIL.

DHW PRODUCTION/STORAGE TANKS CORAL VITRO - **DOUBLE WALL**

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MULTIFUNCTIONAL: Multifunctional design allowing several energy sources to be combined at the same time. Large thermal energy storage capacity in primary heating circuit as an inertia buffer. An electric heating element can be incorporated in the primary circuit (surrounding tank), which is free of limescale or corrosion.

INERTIA BUFFER + DHW STORAGE TANK: The combination of an inertia buffer and DHW double wall production/storage tank in one single product. Ideal for installations with HEAT PUMPS, BIOMASS BOILERS OR SOLAR COLLECTORS, or the combination of several energy sources.

ANTI-LEGIONELLA DESIGN: Totally uniform DHW storage temperature, with no cold zones inside the

storage tank. The surround heating of the DHW produces a uniform water storage temperature throughout the whole of the tank, which in turn allows it to be used to its full capacity.

EASY TO INSTALL: Their dimensions facilitate access to enclosed spaces (even the models with capacities greater than 800 litres), with a detachable system for the insulation on the two opposite sides of the tank, allowing them access through 800 mm wide entrances.

MAXIMUM STORAGE CAPACITY: Extra thick, rigid, PU mould-injected insulation that minimizes heat losses of stored DHW (see HEAT INSULATION chapter, page: 89)



FEATURES COMMON TO ALL "CORAL VITRO" DOUBLE WALL MODELS:

- **VITREOUS ENAMELLED STEEL** DHW storage tank according to **DIN 4753 T3**
- Capacities: **600/150, 800/150 and 1000/200 litres**
- Maximum working pressure of DHW storage tank: **8 bar** (10 bar optional)
- Maximum working temperature of DHW storage tank: **90 °C**
- Maximum working pressure of surrounding tank (primary circuit): **3 bar**
- Maximum working temperature of surrounding tank (primary circuit): **110 °C**
- Thermal insulation: **Rigid, mould-injected PU** (CFC/HCFC-free, 0.025 W/m²K)
- External lining: RAL 9016 WHITE padded PVC external lining with zip fastener, RAL 7045 GREY cover
- Cathodic protection: **Magnesium anodes** with anode charge meter on cover
- Tanks for VERTICAL installation on floor.

CORAL VITRO "P"

"DOUBLE-WALL" tanks termed **"MULTIFUNCTIONAL"** are known as such because several different energy sources can be installed for one single tank.

The production of DHW is carried out by heat exchange between the primary (external) circuit and the DHW (internal) tank via several external energy sources (boiler, solar panels, heat pump, electric heating element, etc.) simultaneously coupled to the tank.

These tanks have a large capacity primary circuit acting as a thermal inertia buffer (for solid fuel or biomass boilers and/or heat pump), which houses a coil with a large heat exchange surface, specially designed for solar energy.

The DHW tank is equipped with cathodic protection with magnesium anodes.

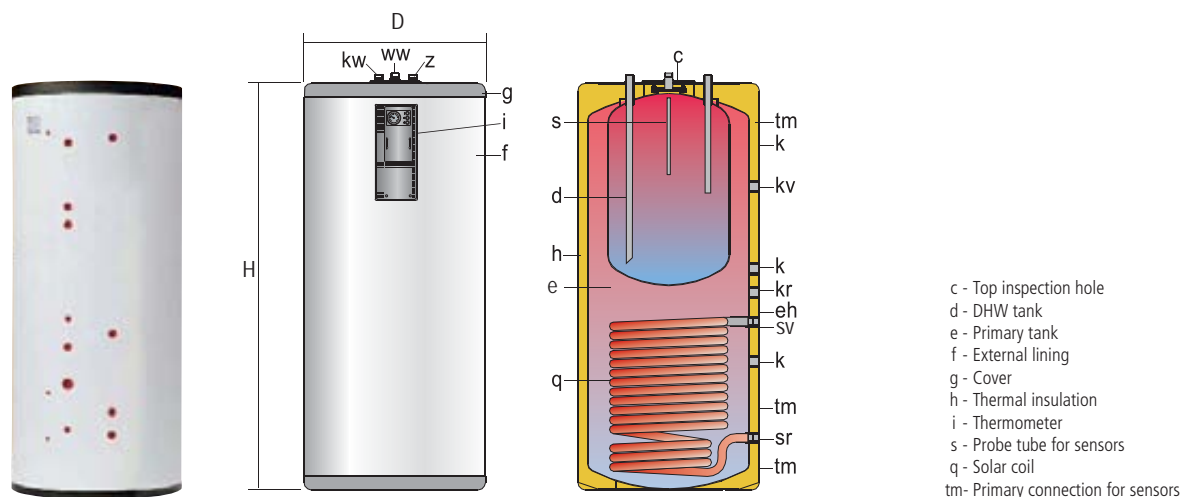
Prepared for the installation of an electric heating element in the primary circuit.

Finish: RAL 9016 padded external lining and RAL 7035 grey covers.

EQUIPMENT:

"TS" panel with DHW thermometer.

OPTIONAL: "TD", "TPA", "BC", "E" control panels (see REGULATION AND CONTROL chapter, page: 88).



- c - Top inspection hole
- d - DHW tank
- e - Primary tank
- f - External lining
- g - Cover
- h - Thermal insulation
- i - Thermometer
- s - Probe tube for sensors
- q - Solar coil
- tm - Primary connection for sensors

GENERAL CHARACTERISTICS		CV-600-P	CV-800-P	CV-1000-P
Total capacity	l.	580	773	970
DHW capacity	l.	150	150	200
Primary HW capacity	l.	430	623	770
D: external diameter	mm.	770	950	950
H: overall height	mm.	1730	1840	2250
kw: cold water inlet	" GAS/M	1	1	1
ww: DHW outlet	" GAS/M	1	1	1
z: recirculation	" GAS/M	1	1	1
kv: primary input	" GAS/F	1 1/4	1 1/4	1 1/4
kr: primary return	" GAS/F	1 1/4	1 1/4	1 1/4
sv: coil inlet	" GAS/F	1	1	1
sv: coil return	" GAS/F	1	1	1
eh: side connection	" GAS/F	2	2	2
k: side connection	" GAS/F	1 1/4	1 1/4	1 1/4
tm: probe tube connection for sensors	" GAS/F	1/2	1/2	1/2
Coil surface	m ²	2,4	2,7	2,7
Control panel	model	TS	TS	TS
Empty weight (approx.)	Kg	170	260	290

CORAL VITRO "C"

"DOUBLE-WALL" TANKS specifically designed for installation with heat pumps, solid fuel or biomass boilers, or solar collector systems with plate heat exchanger.

Their large capacity primary circuit acts as a thermal inertia buffer, so that both functions -inertia buffer and DHW tank- are combined.

The production of DHW is carried out by heat exchange between the primary circuit (external) tank and the DHW (internal) tank.

The DHW tank is equipped with cathodic protection with magnesium anodes.

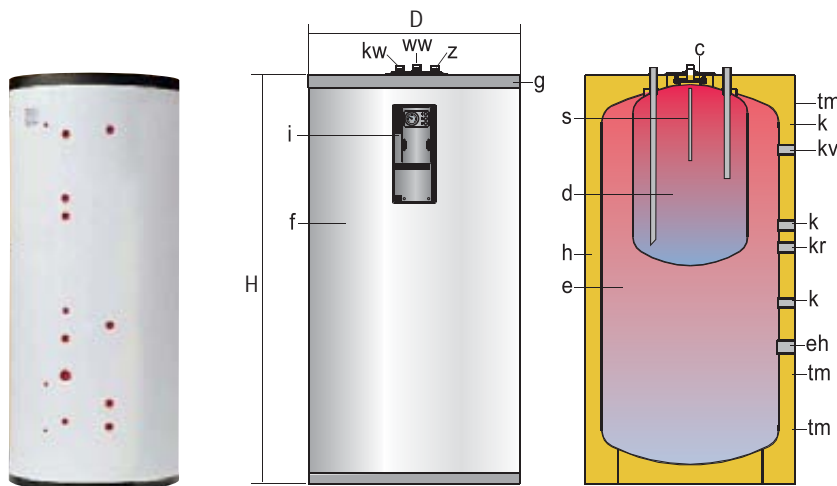
Prepared for the installation of an electric heating element in the primary circuit.

Finish: RAL 9016 padded external lining and RAL 7035 grey covers.

EQUIPMENT:

"TS" panel with DHW thermometer.

OPTIONAL: "TD", "TPA", "BC" "E" control panels (see REGULATION AND CONTROL chapter, page: 88).



- c - Top inspection hole
- d - DHW tank
- e - Primary tank
- f - External lining
- g - Cover
- h - Thermal insulation
- i - Thermometer
- s - Probe tube for sensors
- tm- Primary connection for sensors

GENERAL CHARACTERISTICS		CV-600-C	CV-800-C	CV-1000-C
Total capacity	l.	580	773	970
DHW capacity	l.	150	150	200
Primary HW capacity	l.	430	623	770
D: external diameter	mm.	770	950	950
H: overall height	mm.	1730	1840	2250
kw: cold water inlet / drain	" GAS/M	1	1	1
ww: DHW outlet	" GAS/M	1	1	1
z: recirculation	" GAS/M	1	1	1
kv: primary input	" GAS/F	1 1/4	1 1/4	1 1/4
kr: primary return	" GAS/F	1 1/4	1 1/4	1 1/4
eh: side connection	" GAS/F	2	2	2
k: side connection	" GAS/F	1 1/4	1 1/4	1 1/4
tm: probe tube connection for sensors	" GAS/F	1/2	1/2	1/2
Control panel	model	TS	TS	TS
Empty weight (approx.)	Kg	150	193	229