

# DHW PRODUCTION AND STORAGE TANKS

## MASTER LARGE CAPACITIES TANK



**STAINLESS STEEL**  
1500 to 5000 litres

**DHW tank made in AISI 316 L STAINLESS STEEL or VITRIFIED STEEL.**

- Austenitic AISI 316 L Stainless Steel provides twice the protection for chloride concentration than AISI 304 L.
- Vitrified according to DIN 4753.

**ENERGY SAVING.** High performance insulation guaranteed with 80mm rigid polyurethane CFC free foam 0.025 w/m °k (example a 2000 litres will lose 0,1°C/H).

**FAST and EASY HANDLING.** Tanks adapted to be transported with hand pallet and factory insulated.

**VITRIFICATION** is the only coating known that guarantees total impermeability, avoiding corrosion or degradation. Its Hardness allows maintenance with no risk of damage.

**DETACHABLE STAINLESS STEEL MODULAR COILS** that reach the bottom of the tank for best antilegionella performance, with specifically designed for best results diameter.

**DN400 SIDE MANHOLE.** (for access an cleaning).

**ELECTRIC BACKUP** immersion elements manufactured in INCOLOY material (as an option).

**SINGLE OR TWIN COIL** available at request.

Technical characteristics		
Max temperature DHW	°C	90
Max pressure DHW	bars	8
Max temperature Primary circuit	°C	120
Max pressure Primary circuit	bars	25



## MAIN ADVANTAGES

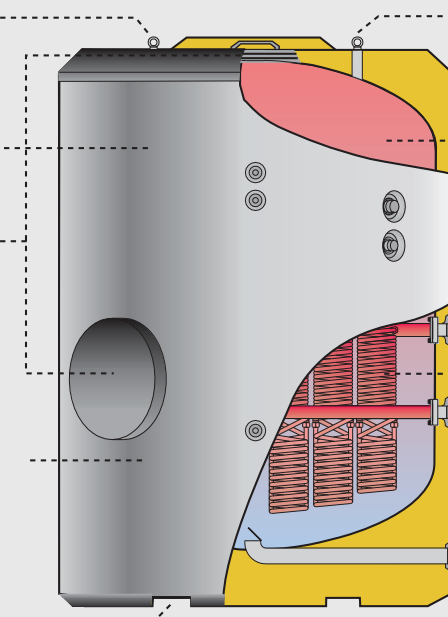
**Crane adapted**  
With rings to fix the load

**Top coil available**  
in 40, 48, 58, 72, 79, 114 KW

**Easy access and cleaning**  
DN400 side manhole (another one on top of the tank for the vitrified version) including thermal insulation

**Electric heating available**  
up to 175 kw with multiple immersion heaters of 6, 9, 12, 15 or 25 KW. Fitted through DN400 stainless steel flange at manhole

**Easy quick to install**  
Easy to transport and install with hand pallet adaptors and factory insulated



**Rigid mould injected insulation**  
Assures the absence of inlayer condensation

**Stainless steel or Vitreous enamel coating (Max temperature 90°C)**  
Long lasting coating. Without any chemical compounds Adapted for cleaning and thermal shock tasks (antilegionella)

**Detachable stainless steel modular coils**  
Reaches the bottom of the tank for best antilegionella performance No "out of service" time needed if technical intervention needed for part of the coil.

DHW storage and production tanks for high performance installations. (individual, collective or commercial/industrial).

**DHW tank capacities: 1500, 2000, 2500, 3000, 3500, 4000, 5000 litres.**

**MASTER VITRO (MVV): Vitrified Steel DHW tank s/DIN 4753-3** (with magnesium cathodic protection including charge meter).

**MASTER INOX (MXV): AISI 316 L DHW tank** (pickled and chemically pasivated).

## RB Models

Tanks designed for DHW from a external source storage functions (for example plate exchangers) or for DHW production through electric immersion heating elements (up to 175 KW).

## SB/SSB/S2B Models

Tanks with coils as thermal exchanger for DHW production. **DETACHABLE STAINLESS STEEL MODULAR COILS** accessible through side DN400 manhole and reaching the bottom of the tank for best antilegionella performance, coil parts can be removed and replaced without having to replace the whole coil.

## OPTIONS

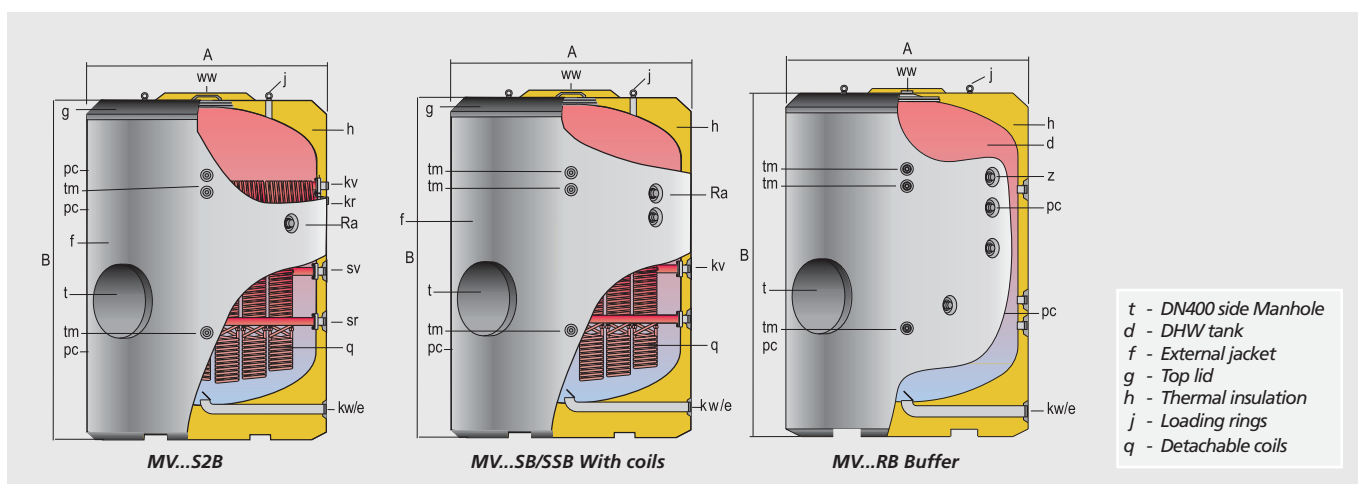
**Electric immersion heaters** in Incoloy material of 6, 9, 12, 15 or 25 KW through DN400 manhole with multiple 2" threaded connections.

External finish: Padded lining **M1, M0** equivalent or **outdoor** option.

Cathodic **Lapesa Correx-Up** permanent maintenance free protection (Titanium).

**Top Coil:** Detachable corrugated coil for 2 energy sources connected at the same time or as backup.

**Electric immersion heater** fitted through standard R threaded connection: 6, 9 or 12 KW available.



		MASTER			1500	2000	2500	3000	3500	4000	5000
		RB	SB	SSB							
DHW capacities	l.	x	x	x	1500	2000	2500	3000	3500	4000	5000
Exchange surface	m <sup>2</sup>		x		2.8	3.4	4.2	5.0	5.9	6.7	8.3
Exchange surface	m <sup>2</sup>			x	4.2	5.0	6.7	8.4	8.4	8.4	12.0
Side manhole	DN, mm	x	x	x	400	400	400	400	400	400	400
Empty weight MVV...RB (Vitrified)	Kg.	x			390	450	630	690	755	890	1040
Empty weight MXV...RB (Stainless Steel)	Kg.	x			275	315	450	485	530	595	665
Empty weight MVV...SB (Vitrified)	Kg.		x		400	460	660	735	820	1040	1185
Empty weight MXV...SB (Stainless Steel)	Kg.		x		300	345	485	525	570	655	735
Empty weight MVV...SSB (Vitrified)	Kg.			x	415	475	690	760	840	1055	1200
Empty weight MXV...SSB (Stainless Steel)	Kg.			x	315	360	515	550	585	670	750
Diameter A	mm.	x	x	x	1360	1360	1660	1660	1660	1910	1910
Height B	mm.	x	x	x	1850	2300	2035	2325	2610	2345	2750
Diagonal	mm.	x	x	x	2280	2655	2611	2841	3068	2997	3315
kw: DHW inlet / drainage	"GAS/M	x	x	x	2	2	3	3	3	3	3
e: Drainage "MXV models"	"GAS/M	x	x	x	1	1	1	1	1	1	1
ww: DHW outlet	"GAS/M	x	x	x	2	2	3	3	3	3	3
z: Recirculation	"GAS/M	x	x	x	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
kv: Primary circuit inlet	"GAS/M		x	x	2	2	2	2	2	2	2
kr: Primary circuit return	"GAS/M		x	x	2	2	2	2	2	2	2
Ra: Side connection	"GAS/M	x	x	x	2	2	2	2	2	2	2
tm: Sensor connection (Vitrified)	"GAS/F	x	x	x	3/4	3/4	3/4	3/4	3/4	3/4	3/4
tm: Sensor connection (MXV)	"GAS/F	x	x	x	1/2	1/2	1/2	1/2	1/2	1/2	1/2
pc: Anode (Vitrified)	"GAS/M	x	x	x	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
pc: Anode (MXV)	"GAS/F	x	x	x	3/4	3/4	3/4	3/4	3/4	3/4	3/4
<b>Electric immersion heaters</b>	KW/V										
RA 4/2-60 (IP-40 connection 2")	12/230-400				x	x	x	x	x	x	x
RA 4/2-90 (IP-40 connection 2")	12/230-400				x	x	x	x	x	x	x
RA 4/2-120 (IP-40 connection 2")	12/230-400				x(*)	x(*)	x	x	x	x	x

\*RA4/2-120D (IP-40 connection 2")