



MASTER VITRO - VITREOUS ENAMELLED STEEL

Models with COILS, production and efficiency!

Storage tanks that incorporate an exclusive heat exchange system comprising a set of collectors and coils in stainless steel that are detachable from the inside of the storage tank, for DHW production via an external energy source.

LARGE CAPACITY TANKS FOR DHW PRODUCTION AND STORAGE: Storage tanks with the exclusive, high-efficiency "lapesa" DHW production system.

- CAPACITIES from 1500 to 6000 litres -

The overdimensioned, rigid, mould-injected PU thermal insulation maintains the DHW storage temperature over long periods of time without requiring additional energy input. This means less start-ups and adjustments of external energy sources, which in turn translates to less energy consumption.

Storage tanks that incorporate an exclusive heat exchange system comprising a set of collectors and coils that are detachable from the inside of the storage tank, for DHW production via an external energy source (see DHW PRODUCTION chapter, page: 104).

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.

FOOD GRADE LINING: Food grade lining according to Royal Decree 891/2006 and EC regulation 1935/2004. Lapesa has additional certification of the food grade of the lining at 120°C.

MAXIMUM WORKING TEMPERATURE: It withstands maximum continuous working temperatures handled by this type of installation (95°C), without any deterioration or alteration to the lining.

ANTI-LEGIONELLA DESIGN: The design of the complete range of "MASTER VITRO" tanks adheres to all of the "Treatment and Prevention of Legionellosis" criteria specified in current UNE standards and EC Directives and, in particular, in the R.D. 865/2003 and the RITE (Regulations on Thermal Installations in Buildings).

The anti-legionella design applies to the storage tank unit and its internal DHW production system.

LARGE DHW PRODUCTION CAPACITY: A set of separate collectors and coils, made of STAINLESS STEEL, are fitted inside the storage tank, allowing the heat exchange surface to be dimensioned in accordance with the power required (up to 10 m² in the 6000 litre model), adapted to traditional energy sources or to the use of renewable energies.

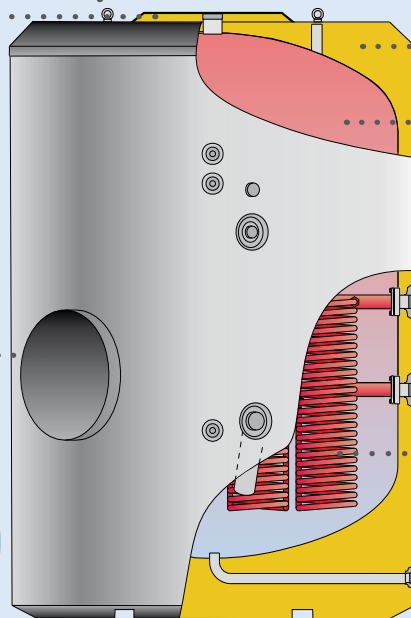
This exclusive lapesa DHW production system for large capacity tanks, saves on installation space and allows total or partial maintenance of the unit, guaranteeing the continuous service of the installation.

MAIN ADVANTAGES - MASTER VITRO - COIL

Specially adapted for handling with a crane.
With lifting eyebolts on top part.

Easy access and maintenance.
ND400 side and top manholes for cleaning and maintenance tasks, with rigid PU thermal insulation.

Self-transportable.
With an integrated system for handling and transport by forklift truck, facilitating handling without requiring palletization.



Rigid PU insulation directly mould-injected.
Guarantees minimal heat loss and no condensation between the insulating material and the metal surface.

Storage tank body in VITREOUS ENAMELLED STEEL according to DIN 4753-3.
Food grade lining for continuous working temperatures of up to 95°C.

Modular, detachable stainless steel coils.
Designed to heat from the lowest zone in the tank, they guarantee the greatest DHW production capacity, taking maximum advantage of the tank capacity and acting as a perfect anti-legionella system.

lapesa's exclusive modular stainless steel coils system for LARGE CAPACITY tanks allows the unit to be adapted to the thermal output required, also enabling interventions separate from the storage tank.



Modular coils "MASTER VITRO"



FEATURES COMMON TO ALL "MASTER VITRO" MODELS WITH COILS:

- **Vitreous enamelled steel** DHW storage tanks according to **DIN 4753/3**
- Capacities: **1500, 2000, 2500, 3000, 3500, 4000, 5000 and 6000 litres**
- Maximum working pressure of DHW storage tank: **8 bar** (10 bar optional)
- Maximum working temperature of DHW storage tank: **90 °C**
- Maximum pressure of set of coils: **25 bar**
- Maximum temperature of set of coils: **110 °C** (up to 200 °C with special high temperature seals)
- Thermal insulation: **Rigid, mould-injected PU** (CFC/HCFC-free, 0.025 W/m²K)
- Tanks for **VERTICAL** installation on floor (option of **HORIZONTAL** position - please consult us)

MASTER VITRO "SB"

DWH **PRODUCTION/STORAGE** tanks, from **1500** to **6000** litre capacity.

With **detachable coils system** for DHW production via an external energy source.

They can be fitted with immersion electric elements or ceramic electric elements on the top part of the tank, as backup heating.

With side and top ND400 manholes to access the interior of the storage tank for inspection, cleaning and maintenance tasks.

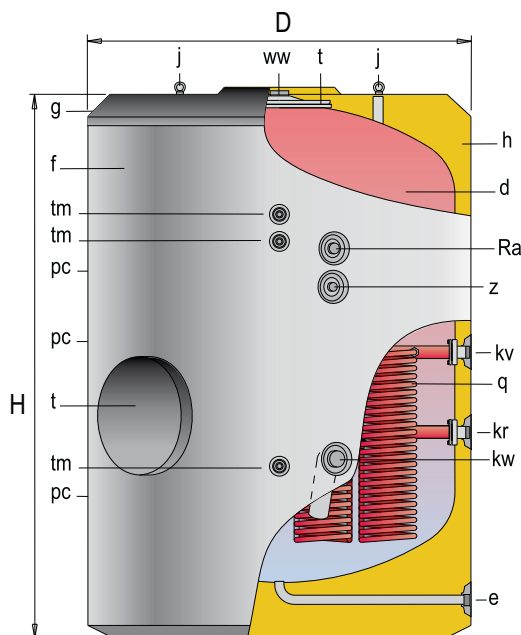
Thermally insulated with rigid, mould-injected, 80 mm-thick, PU polyurethane foam, with insulating piece in same material on the ND400 side manhole.

EQUIPMENT:

"lapesa correx-up" permanent cathodic protection unit.

Optional: cathodic protection unit with magnesium anodes and anode charge meter.

Optional supply of PVC padded external lining and set of trims or ALUNOX aluminium sheet lining (page: 109).



- t - Manhole ND400
- d - DHW tank
- f - Outer lining
- g - Top cover
- h - Thermal insulation
- j - Lifting eyes
- q - Detachable coils system

GENERAL CHARACTERISTICS		MVV-1500-SB	MVV-2000-SB	MVV-2500-SB	MVV-3000-SB	MVV-3500-SB	MVV-4000-SB	MVV-5000-SB	MVV-6000-SB
DHW capacity	l.	1500	2000	2500	3000	3500	4000	5000	6000
D: external diameter	mm.	1360	1360	1660	1660	1660	1910	1910	1910
H: overall height	mm.	1830	2280	2015	2305	2580	2310	2710	3210
Diagonal	mm.	2281	2655	2611	2841	3068	2998	3316	3735
kw: cold water inlet	" GAS/M	2	2	3	3	3	3	3	3
ww: DHW outlet	" GAS/M	2	2	3	3	3	3	3	3
z: recirculation	" GAS/M	1 1/2	1 1/2	2	2	2	2	2	2
e: drain	" GAS/M	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2
Ra: backup heating element	" GAS/M	2	2	2	2	2	2	2	2
pc: "lapesa correx up" connection	" GAS/M	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
tm: probe tube connection for sensors	" GAS/M	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
kv: primary input	" GAS/M	2	2	2	2	2	2	2	2
kr: primary return	" GAS/M	2	2	2	2	2	2	2	2
Coils set heating surface	m2	2,8	3,4	4,8	5	6,7	6,7	8,4	8,4
Empty weight (approx.)	Kg	430	495	675	740	810	980	1110	1216

Note: The 6000 litre model includes support legs

DHW PRODUCTION/STORAGE TANKS

MASTER VITRO - COILS

lapesa

MASTER VITRO "SSB"

DHW **PRODUCTION/STORAGE** tanks, from **1500** to **6000** litre capacity.

Set of **OVERDIMENSIONED detachable coils system** for DHW production, specifically designed for the application of RENEWABLE ENERGIES, in particular, **SOLAR ENERGY**.

Heat exchange surfaces in the whole range comply with RITE requirements for SOLAR installations.

They can be fitted with immersion electric elements or ceramic electric elements on the top part of the tank, as backup heating.

With side and top ND400 manholes to access the interior of the storage tank for inspection, cleaning and maintenance tasks.

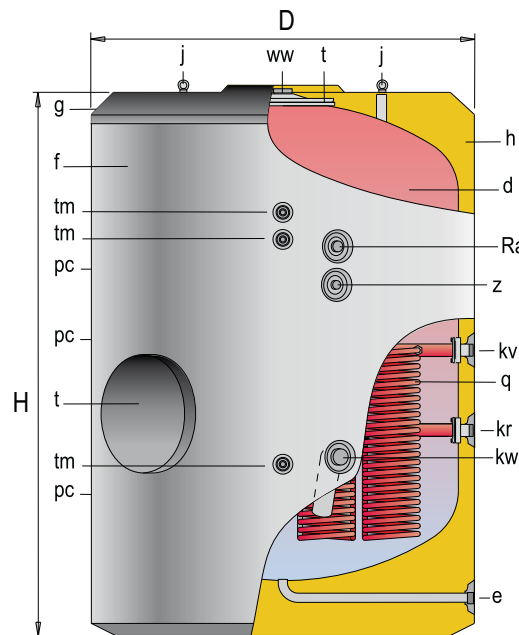
Thermally insulated with rigid, mould-injected, 80 mm-thick, PU polyurethane foam, with insulating piece in same material on the ND400 side manhole.

EQUIPMENT:

"lapesa correx-up" permanent cathodic protection unit.

Optional: cathodic protection unit with magnesium anodes and anode charge meter.

Optional supply of PVC padded external lining and set of trims or ALUNOX aluminium sheet lining (page: 109).



t - Manhole ND400
d - DHW tank
f - Outer lining
g - Top cover
h - Thermal insulation
j - Lifting eyes
q - Detachable coils system



GENERAL CHARACTERISTICS		MVV-1500-SSB	MVV-2000-SSB	MVV-2500-SSB	MVV-3000-SSB	MVV-3500-SSB	MVV-4000-SSB	MVV-5000-SSB	MVV-6000-SSB
DHW capacity	l.	1500	2000	2500	3000	3500	4000	5000	6000
D: external diameter	mm.	1360	1360	1660	1660	1660	1910	1910	1910
H: overall height	mm.	1830	2280	2015	2305	2580	2310	2710	3210
Diagonal	mm.	2281	2655	2611	2841	3068	2998	3316	3735
kw: cold water inlet	" GAS/M	2	2	3	3	3	3	3	3
ww: DHW outlet	" GAS/M	2	2	3	3	3	3	3	3
z: recirculation	" GAS/M	1 1/2	1 1/2	2	2	2	2	2	2
e: drain	" GAS/M	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2
Ra: backup heating element	" GAS/M	2	2	2	2	2	2	2	2
pc: "lapesa correx up" connection	" GAS/M	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
tm: probe tube connection for sensors	" GAS/M	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
kv: primary input	" GAS/M	2	2	2	2	2	2	2	2
kr: primary return	" GAS/M	2	2	2	2	2	2	2	2
Coils set heating surface	m2	4,2	5,0	6,1	8,4	8,4	8,4	10,0	10,0
Empty weight (approx.)	Kg	445	510	685	765	825	995	1120	1228

Note: The 6000 litre model includes support legs

MASTER VITRO "S2B / SS2B"

DWH **PRODUCTION/STORAGE** tanks, **2000, 3500, 5000** and **6000** litre capacity.

"SB" and "SSB" base models with **TWO detachable coils systems** for DHW production via two combined external energy sources.

With ND400 side manhole for access to interior of tank for inspection, cleaning treatments and maintenance.

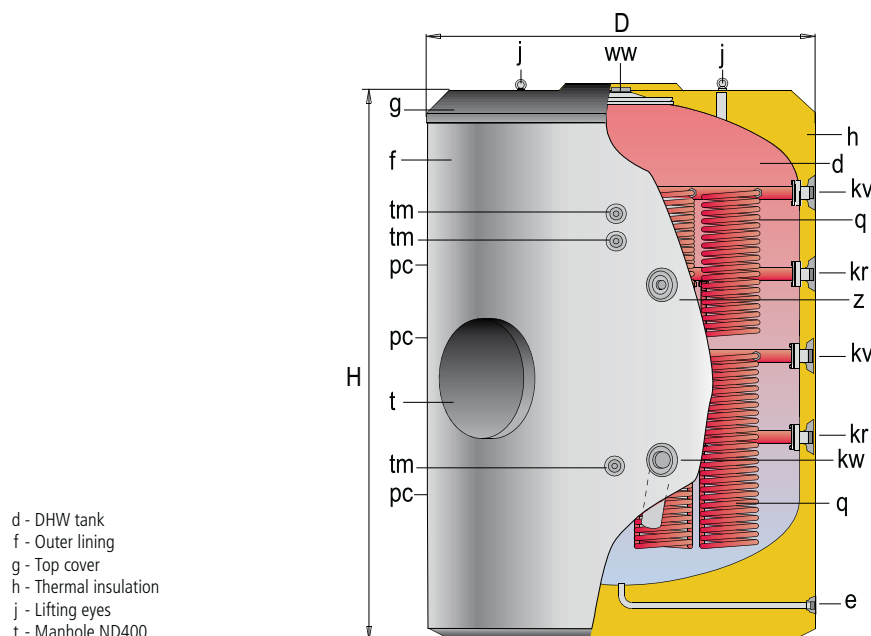
Thermally insulated with rigid, mould-injected, 80 mm-thick, PU polyurethane foam, with insulating piece in same material on the ND400 side manhole.

EQUIPMENT:

"lapesa correx-up" permanent cathodic protection unit.

Optional: cathodic protection unit with magnesium anodes and anode charge meter.

Optional supply of PVC padded external lining and set of trims or ALUNOX aluminium sheet lining (page: 109).



d - DHW tank
f - Outer lining
g - Top cover
h - Thermal insulation
j - Lifting eyes
t - Manhole ND400

GENERAL CHARACTERISTICS		MVV-2000 S2B / SS2B	MVV-3500 S2B / SS2B	MVV-5000 S2B / SS2B	MVV-6000 S2B / SS2B
DHW capacity	l.	2000	3500	5000	6000
D: external diameter	mm.	1360	1660	1910	1910
H: overall height	mm.	2280	2580	2710	3210
Diagonal	mm.	2655	3068	3316	3735
kw: cold water inlet	" GAS/M	2	3	3	3
ww: DHW outlet	" GAS/M	2	3	3	3
z: recirculation	" GAS/M	1 1/2	2	2	2
e: drain	" GAS/M	1 1/2	1 1/2	1 1/2	2
pc: "lapesa correx up" connection	" GAS/M	1 1/2	1 1/2	1 1/2	1 1/2
tm: probe tube connection for sensors	" GAS/M	3/4	3/4	3/4	3/4
kv: primary input	" GAS/M	2	2	2	2
kr: primary return	" GAS/M	2	2	2	2
Lower coils set heating surface "S2B"	m ²	3,4	6,7	8,4	8,4
Lower coils set heating surface "SS2B"	m ²	5,0	8,4	10,0	10,0
Upper coils set heating surface "S2B" / "SS2B"	m ²	1,7/3,1	3,2/4,0	4,0/4,8	4,0/4,8
Empty weight (approx.) "S2B" / "SS2B"	Kg	524 / 544	855 / 870	1140 / 1160	1273/ 1285

Note: The 6000 litre model includes support legs

MASTER VITRO

*The best investment
for your installation!*

- unbeatable storage capacity
- high-performance service
- guarantee of quality

The large capacity tank
that pays for itself!

lapesa
Solutions