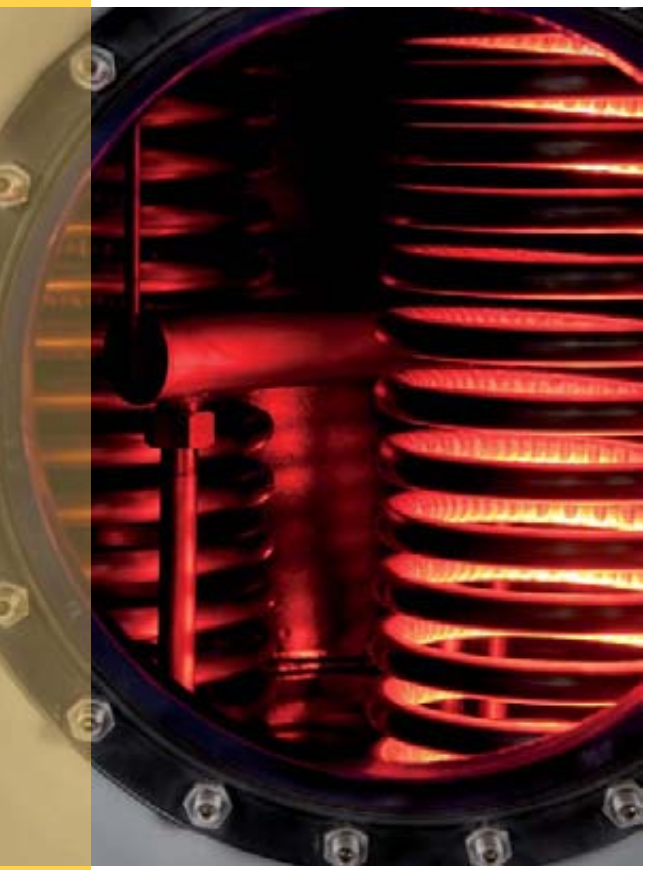
MASTER INOX - STAINLESS STEEL

Models with COILS production and efficiency!

Designed to provide great energy storage capacity with an exclusive, high-efficiency DHW production system. Modular heat exchange unit, comprising a set of detachable collectors and coils for DHW production via an external energy source.



LARGE CAPACITY TANKS FOR DWH PRODUCTION AND STORAGE: Designed for extraordinary energy storage capacity that directly translates into real savings, with an exclusive high-efficiency DHW production system.

- CAPACITIES from 1500 to 5000 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 into less energy consumption.
Storage tanks that incorporate a 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: 50)

LONG-LASTING PRODUCT: Nickel-chromium-molybdenum STAINLESS STEEL DHW storage tank, highly resistant to pitting caused by halogen elements such as chlorine in drinking water. This is the material used to manufacture all of the models in our **"MASTER INOX"** series.

DHW PRODUCTION/STORAGE TANKS
MASTER INOX - **COILS**

ANTI-LEGIONELLA DESIGN: The design of the complete range of "MASTER INOX" 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 mounted inside the storage tank, allowing the heat exchange surface to be dimensioned in accordance with the power required (up to 10 m^2 in the 5000 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.

EASY TO MAINTAIN: With access to tank interior through a ND400 side manhole for inspection and cleaning of the storage tank and/or coil system.

MAXIMUM STORAGE CAPACITY: Extra thick, rigid, PU mould-injected insulation that minimizes heat losses of stored DHW (see HEAT INSULATION chapter, page: 56).

ELECTRIC HEATING: Ready to be fitted with Incoloy 800, low charge density electric immersion elements or with sheathed ceramic heating elements, as backup electric heating (see ELECTRIC HEATING chapter, page: 54).

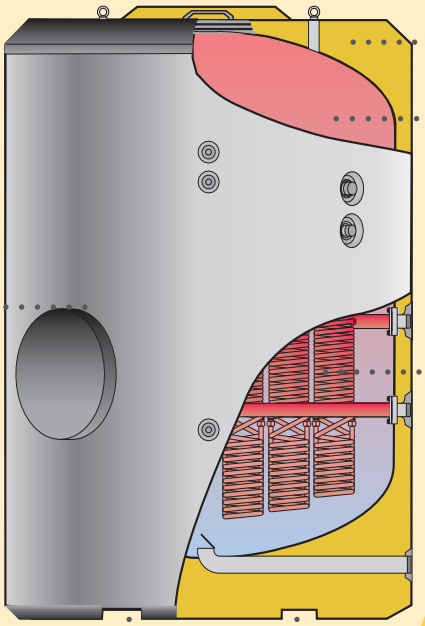
EASY TO HANDLE AND TRANSPORT: Our "MASTER" storage tanks are designed for easy handling and transport to the place of installation.
They have an integrated system for handling and transporting by forklift truck, which facilitates handling operations enormously, as there is no need to palletize the product which, given its weight and size, would make handling difficult.
The tanks are also equipped with lifting eyebolts on the top part so that if they have to be placed in a high area they can be lifted with an overhead hoist.

TRANSPORT SYSTEM: Openings/ducts under the tank for easier handling with pallet trucks (from 1500 litres or more).

FEATURES COMMON TO ALL "MASTER INOX" COILS MODELS:

- DHW storage tanks in **AISI 316 L stainless steel**
- Capacities: **1500, 2000, 2500, 3000, 3500, 4000 and 5000 litres**
- Maximum working pressure of DHW storage tank: **8 bar** (optional: 10 and 12 bar)
- 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/m°K)
- Tanks for VERTICAL installation on floor. (OPTIONAL, HORIZONTAL position - please consult us-)

MAIN ADVANTAGES - MASTER INOX - **COILS**



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

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

Easy access and maintenance
ND400 side manhole to access interior of storage tank for cleaning and maintenance tasks. The side hole includes rigid PU thermal insulation.

Storage tank body in AISI 316 L STAINLESS STEEL,
hygienic, long-lasting and robust, for DHW storage temperatures of up to 90ºC

Self-transportable
With an integrated system for handling and transporting by forklift truck, which facilitates handling without requiring palletization.

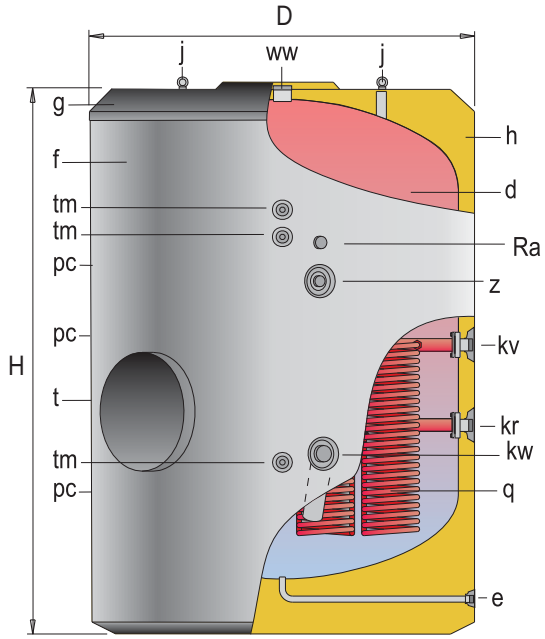
Modular, detachable stainless steel coils
Designed to heat from the lowest zone in the tank, they guarantee the greatest DHW production capacity, taking maximum advantage of the tank capacity and acting as a perfect anti-legionella system.

***lapesa**'s exclusive modular coils system for LARGE CAPACITY tanks allows the unit to be adapted to the thermal power required, also enabling separate intervention from the storage tank.*

lapesa Solutions

MASTER INOX "SB"

DWH PRODUCTION/STORAGE tanks, from **1500** to **5000** 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 ND400 side manhole for access to interior of tank for inspection, cleaning treatments 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
As an option PVC padded external lining and set of trims, special outdoor lining or ALUNOX aluminium sheet lining can be supplied. (page: 57)

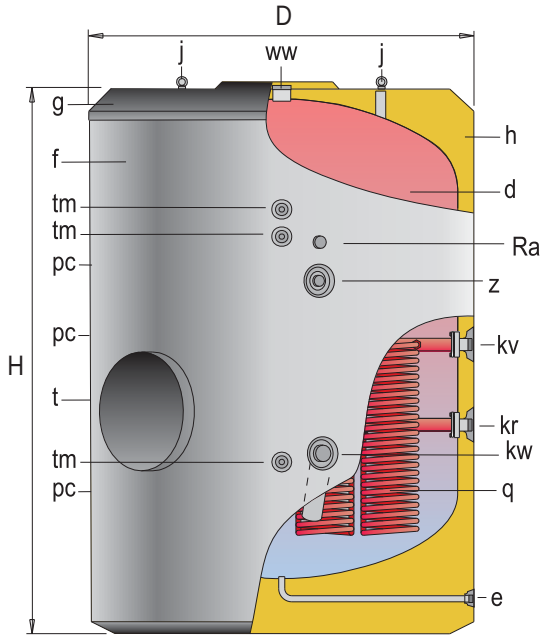


t - Manhole ND400
d - DHW tank
f - External lining
g - Top cover
h - Thermal insulation
j - Lifting eyes
q - Detachable coils system

GENERAL CHARACTERISTICS		MXV-1500-SB	MXV-2000-SB	MXV-2500-SB	MXV-3000-SB	MXV-3500-SB	MXV-4000-SB	MXV-5000-SB
DHW capacity	l.	1500	2000	2500	3000	3500	4000	5000
D: external diameter	mm.	1360	1360	1660	1660	1660	1910	1910
H: overall height	mm.	1830	2280	2015	2305	2580	2310	2710
Diagonal	mm.	2281	2655	2611	2841	3068	2998	3316
kw: cold water inlet	" GAS/M	2	2	2	2	3	3	3
ww: DHW outlet	" GAS/M	2	2	3	3	3	3	3
z: recirculation	" GAS/M	1 1/2	1 1/2	2	2	2	2	2
e: drain	" GAS/M	1	1	1	1	1	1	1
R: side connection	" GAS/F	2	2	2	2	2	2	2
pc: "lapesa correx up" connection	" GAS/F	3/4	3/4	3/4	3/4	3/4	3/4	3/4
tm: probe tube connection for sensors	" GAS/F	1/2	1/2	1/2	1/2	1/2	1/2	1/2
kv: primary input	" GAS/M	2	2	2	2	2	2	2
kr: primary return	" GAS/M	2	2	2	2	2	2	2
Coils set heating surface	m^2	2,8	3,4	4,8	5	6,7	6,7	8,4
Empty weight (approx.)	Kg	305	345	485	535	575	650	720

MASTER INOX "SSB"

DWH PRODUCTION/STORAGE tanks, from **1500** to **5000** litre capacity.
Set of OVERDIMENSIONED coils 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 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.
Optional supply of PVC padded external lining and set of trims, special lining for exterior or ALUNOX aluminium sheet lining (page: 57)

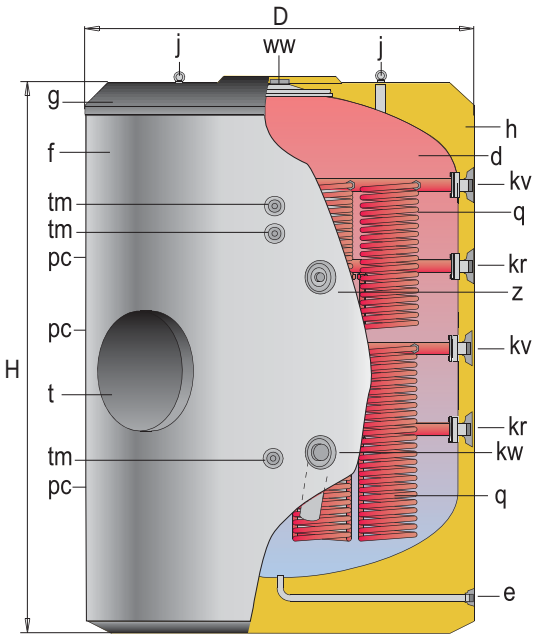


t - Manhole ND400
d - DHW tank
f - External lining
g - Top cover
h - Thermal insulation
j - Lifting eyes
q - Detachable coils system

GENERAL CHARACTERISTICS		MXV-1500-SSB	MXV-2000-SSB	MXV-2500-SSB	MXV-3000-SSB	MXV-3500-SSB	MXV-4000-SSB	MXV-5000-SSB
DHW capacity	l.	1500	2000	2500	3000	3500	4000	5000
D: external diameter	mm.	1360	1360	1660	1660	1660	1910	1910
H: overall height	mm.	1830	2280	2015	2305	2580	2310	2710
Diagonal	mm.	2281	2655	2611	2841	3068	2998	3316
kw: cold water inlet	" GAS/M	2	2	2	2	3	3	3
ww: DHW outlet	" GAS/M	2	2	3	3	3	3	3
z: recirculation	" GAS/M	1 1/2	1 1/2	2	2	2	2	2
e: drain	" GAS/M	1	1	1	1	1	1	1
R: side connection	" GAS/F	2	2	2	2	2	2	2
pc: "lapesa correx up" connection	" GAS/F	3/4	3/4	3/4	3/4	3/4	3/4	3/4
tm: probe tube connection for sensors	" GAS/F	1/2	1/2	1/2	1/2	1/2	1/2	1/2
kv: primary input	" GAS/M	2	2	2	2	2	2	2
kr: primary return	" GAS/M	2	2	2	2	2	2	2
Coils set heating surface	m^2	4,2	5,0	6,1	8,4	8,4	8,4	10,0
Empty weight (approx.)	Kg	315	365	500	565	590	665	745

MASTER INOX "S2B / SS2B"

DWH PRODUCTION/STORAGE tanks, **2000**, **3500** and **5000** litre capacity.
"SB" and SSB" base models with **TWO detachable coil 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.
Optional supply of PVC padded external lining and set of trims or ALUNOX aluminium sheet lining (page: 57)



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

GENERAL CHARACTERISTICS		MXV-2000 S2B / SS2B	MXV-3500 S2B / SS2B	MXV-5000 S2B / SS2B
DHW capacity	l.	2000	3500	5000
D: external diameter	mm.	1360	1660	1910
H: overall height	mm.	2280	2580	2710
Diagonal	mm.	2655	3068	3316
kw: cold water inlet	" GAS/M	2	3	3
ww: DHW outlet	" GAS/M	2	3	3
z: recirculation	" GAS/M	1 1/2	2	2
e: drain	" GAS/M	1	1	1
pc: "lapesa correx up" connection	" GAS/F	3/4	3/4	3/4
tm: probe tube connection for sensors	" GAS/F	1/2	1/2	1/2
kv: primary input	" GAS/M	2	2	2
kr: primary return	" GAS/M	2	2	2
Lower coils set heating surface "S2B"	m^2	4,2	6,7	8,4
Lower coils set heating surface "SS2B"	m^2	5,6	8,4	10,0
Upper coils set heating surface "S2B" / "SS2B"	m^2	3,0	4,0	5,0
Empty weight (approx.) "S2B" / "SS2B"	Kg	374 / 394	615 / 630	765 / 790