



GEISER INERTIA / MASTER INERTIA energy storage!

*The **GEISER INERTIA** and **MASTER INERTIA** series of buffer tanks are designed for use exclusively in closed heating or cooling circuits. These storage tanks in carbon steel include all of the hydraulic connections required for energy storage or heat inertia installations and, especially for the application of **RENEWABLE ENERGIES** where energy storage is a key factor in the efficient operation of the system.*

APPLICATIONS

GEISER INERTIA (50 to 1500 litres):

(Individual or battery installation)

- Installations with solar energy
- Installations with biomass boilers
- Installations with heat pumps
- Combined energy storage installations
- Cooling installations

MASTER INERTIA (1.500 to 6000 litres):

(Individual or battery installation)

- Energy storage and distribution facilities
- Centralized thermal solar energy systems
- Centralized systems with heat pump
- Centralized systems with biomass boiler
- Centralized instant DHW production systems
- Centralized combined energy storage systems
- Cooling installations



ENERGY BUFFER TANKS

for installations that
require correct energy
management, especially for
systems that use
renewable energy
sources such as:

BIOMASS, HEAT PUMP or SOLAR ENERGY





GEISER / MASTER INERTIA

Inertia buffer tanks, energy storage!

Inertia buffer tanks for closed heating or cooling circuits that act as the installation energy regulator.

*Models with or without internal exchanger and models with own heat stratification system complete our range of **GEISER/MASTER INERTIA**, from 80 to 6000 litres storage capacity.*

PRIMARY BUFFER TANKS Energy buffer tanks from **50** to **6000** litres capacity, for closed heating or cooling circuits.

For installations that require correct energy management, especially for systems that use renewable energy sources such as: **BIOMASS, HEAT PUMP or SOLAR ENERGY.**

Designed to provide an extraordinary storage capacity that translates directly into real savings. The overdimensioned, rigid, mould-injected PU thermal insulation maintains the DHW storage temperature over long periods of time without requiring any additional energy input. This means less start-ups and adjustments of external energy sources, with less energy consumption and a more economical cost.

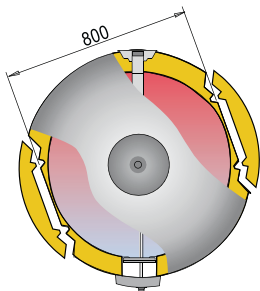
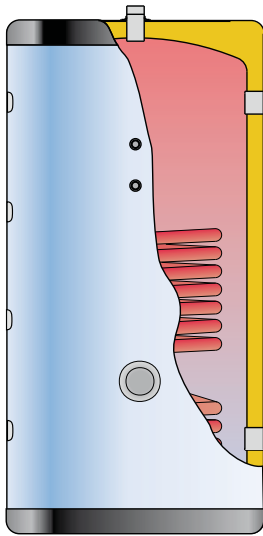
MODELS WITH COILS: Versions with heating coils as the intermediate thermal exchange system, for systems without their own heat exchanger.

Ready for installation with electric heating elements to provide back-up electric heating.



BUFFER TANKS FOR PRIMARY CIRCUITS GEISER / MASTER INERTIA - **STORAGE**

lapesa



Detail of pre-cut insulation on 800 and 1000 litre tanks to pass through 800 mm wide doors.

MODELS WITH THERMAL STRATIFICATION SYSTEM: Versions that incorporate thermal stratification for perfect energy management of the installation.

MAXIMUM STORAGE CAPACITY: Extra thick, rigid, PU mould-injected insulation that minimizes heat losses of stored DHW (see HEAT INSULATION chapter, page: 126).

Lapesa buffer tanks have minimal heat losses and for this reason are considered to be one of the products with the greatest storage capacity on the market.

EASY TO INSTALL AND MAINTAIN: GEISER INERTIA 800 and 1000 litre models are designed with a detachable insulation system on the two opposite sides of the tank to allow them to pass through 800 mm wide accesses.

The MASTER INERTIA "IB" and "ISB" models include a ND400 side manhole to access the interior of the tank to carry out inspection, cleaning and maintenance tasks.

EASY TO HANDLE AND TRANSPORT: Our "MASTER INERTIA" buffer 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.



FEATURES COMMON TO ALL "GEISER INERTIA/MASTER INERTIA" MODELS:

- **Carbon steel** inertia buffer tank.
- GEISER INERTIA capacities: **50, 80, 140, 200, 240, 370, 600, 800, 1000 and 1500 litres.**
- MASTER INERTIA capacities: **1500, 2000, 2500, 3000, 3500, 4000, 5000 and 6000 litres.**
- Maximum working pressure of buffer tank: **6 bar**
- Maximum working pressure, coil (models "IS" and "IFS"): **25 bar**
- Maximum working temperature of buffer tank: **110 °C**
- Maximum working temperature, coil (models "IS" and "IFS"): **200 °C**
- 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)

GEISER INERTIA "I / IF"

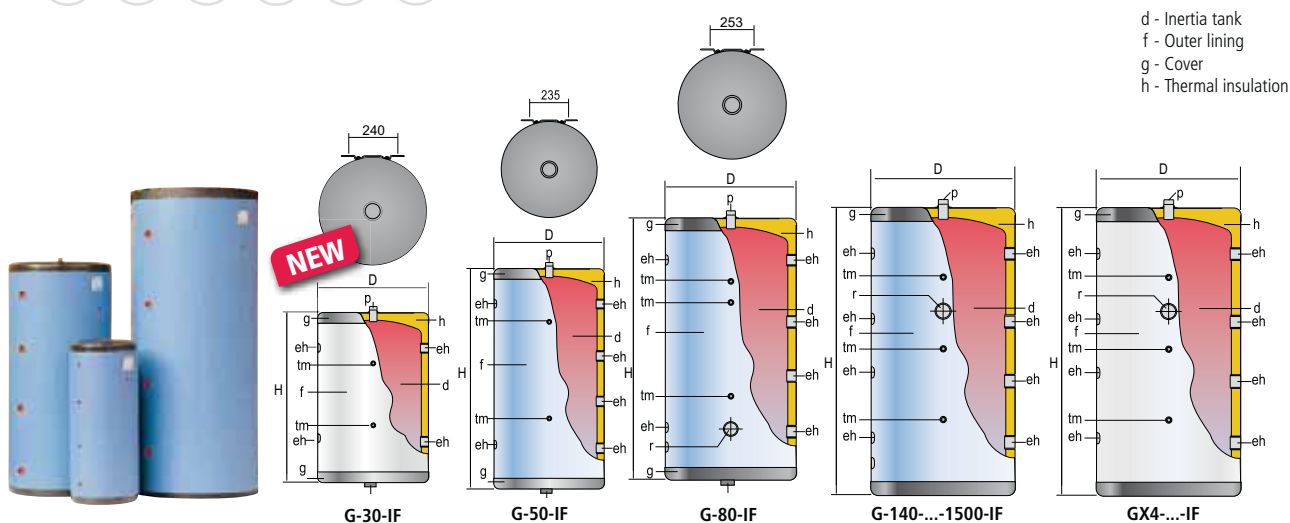
INERTIA buffer tanks from **30** to **1500** litres capacity, for closed heating or cooling circuits.

30, 50 and 80 litre models - for wall-mounting.

From 140 litre model onwards - for vertical installation on floor.

Ready for a backup electric immersion element to be fitted (up to 1000 litre model).

The 800 and 1000 litre capacity tanks include an insulation system that allows them to pass through 800 mm wide doors. Standard finish with RAL 5015 padded external lining and RAL 7021 grey cover (for model G-30-IF with white lining). For models of 1500 litre of capacity, set grey padded external lining RAL 7042 and black cover, supplied separately.



GENERAL CHARACTERISTICS								G-370-I	G-600-I	G-800-I	G-1000-I	G-1500-I
CARBON STEEL	Capacity	l.						370	600	800	1000	1500
	D: external diameter	mm.						620	770	950	950	1160
	H: overall height	mm.						1725	1730	1840	2250	2320
	eh: side connection	" GAS/F						2	3	3	3	3
	p: upper connection	" GAS						1	1	1	1	1
	tm: probe tube connection for sensors	" GAS/F						1/2	1/2	1/2	1/2	1/2
Empty weight (approx.)			Kg					68	95	174	205	300
GENERAL CHARACTERISTICS			G-30-IF	G-50-IF	G-80-IF	G-140-IF	G-200-IF	G-260-IF	G-370-IF	G-600-IF	G-800-IF	G-1000-IF
CARBON STEEL	Capacity	l.	30	50	80	140	200	260	370	600	800	1000
	D: external diameter	mm.	380	380	480	480	620	620	620	770	950	950
	H: overall height	mm.	545	835	749	1155	985	1240	1725	1730	1840	2250
	eh: side connection	" GAS/F	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
	p: upper connection	" GAS	1/2 H	1/2 H	1 H	1M	1M	1M	1M	1M	1M	1M
	tm: probe tube connection for sensors	" GAS/F	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Empty weight (approx.)			Kg	13	20	30	44	52	68	95	174	205
GENERAL CHARACTERISTICS STAINLESS STEEL AISI 304			GX4-80-IF	GX4-140-IF	GX4-200-IF	GX4-260-IF	GX4-370-IF	GX4-500-IF	GX4-800-IF	GX4-1000-IF		
STAINLESS STEEL	Capacity	l.	80	140	200	260	370	500	800	1000		
	D: external diameter	mm.	480	480	620	620	620	770	950	950		
	H: overall height	mm.	749	1155	985	1240	1725	1730	1840	2250		
	eh: side connection	" GAS/F	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2		
	p: upper connection	" GAS	1 H	1M	1M	1M	1M	1M	1M	1M		
	tm: probe tube connection for sensors	" GAS/F	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2		
Empty weight (approx.)			Kg	22	25	32	38	50	70	128		

GEISER INERTIA "IS / IFS"

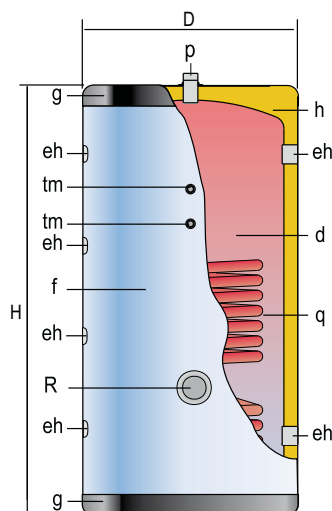
INERTIA buffer tanks, **260** to **1500** litre capacity, for closed heating or cooling circuits, with integrated intermediate heating **COIL**.

From 260 litre model onwards - for vertical installation on floor.

Ready to be fitted with a backup electric immersion element.

Up to 1000 litre model, standard finish with RAL 5015 blue padded external lining and RAL 7021 grey cover.

The 800 and 1000 litre capacity tanks include an insulation system that allows them to pass through 800 mm wide doors. External lining is optional for the 1500 litre model and is supplied separately (RAL 7042 grey external lining and black cover).



d - Buffer tank
f - Outer lining
g - Cover
h - Thermal insulation
q - Heating coil

GENERAL CHARACTERISTICS		G-370-IS	G-600-IS	G-800-IS	G-1000-IS	G-1500-IS
DHW capacity	l.	370	600	800	1000	1500
D: external diameter	mm.	620	770	950	950	1160
H: overall height	mm.	1725	1730	1840	2250	2320
eh: side connection	" GAS/F	2	3	3	3	3
p: upper connection	" GAS	1M	1M	1M	1M	1M
tm: probe tube connection for sensors	" GAS/F	1/2	1/2	1/2	1/2	1/2
R: electric element connection	" GAS/F	2	2	2	2	2
Heating coil surface	m ²	1,32	1,83	2,70	2,70	3,00
Empty weight (approx.)	Kg	86	123	199	231	339

GENERAL CHARACTERISTICS		G-260-IFS	G-370-IFS	G-600-IFS	G-800-IFS	G-1000-IFS	G-1500-IFS
DHW capacity	l.	260	370	600	800	1000	1500
D: external diameter	mm.	620	620	770	950	950	1160
H: overall height	mm.	1240	1725	1730	1840	2250	2320
eh: side connection	" GAS/F	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
p: upper connection	" GAS	1M	1M	1M	1M	1M	1M
tm: probe tube connection for sensors	" GAS/F	1/2	1/2	1/2	1/2	1/2	1/2
R: electric element connection	" GAS/F	2	2	2	2	2	2
Heating coil surface	m ²	1,32	1,32	1,83	2,70	2,70	3,00
Empty weight (approx.)	Kg	70	86	123	199	231	339