

Combination tanks
HELIX - HELIXTHERM
with integrated Helixthermboiler

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Environmental protection is achieved through high-quality and efficiency

All products can be manufactured according to your requirements and needs

Working process

The buffer accumulator with HelixTherm-Hygieneboiler, in stainless steel corrugated pipe is undoubtedly synonymous of top quality as a stratified storage tank.

Due to the low capacity of the Helix-Therm boiler, it is possible to sanitize hot water for sanitary use, thus allowing a drastic reduction of presence of Legionella bacteria within the boiler. The high efficiency of dispensing is due to the

high surface of the coiled tube that in this way allowing more simultaneous users the usage of hot water. The special system allows the Helix-Therm to achieve a better stratification, as coiled up from the base to the lid of the accumulator itself.

Due to the boiler placed in this way, the cooling of the lower part and the heating of the same water for sanitary use is ensured.

The accumulator is discharged without mixing temperatures, maintaining a high temperature in the upper part as long as possible. In this way the reloading can be reduced by means of various committed heat generators. By means of the cooling process of the tank, in the lower part there is an increase of energy and efficiency of the solar system, with a consequent saving and reduction throughout time.

Specifications

With the changing seasons there is a consequent variation of the temperature in the heating system, so that the driving integrated load flow let the regulation in the various levels. The profile laminated return

connectors front or rear, reduce the turbulence and with it the mixing of thermal tank. During the construction of the tank, there is an optimization of the heat. In needs the energy of the Helixtherm Hygieneboiler is

extracted from the bottom upwards; it consequently cools the solar zone letting the electrical system to be more efficient. In case of emergencies a good precaution is the inclusion of the optional electric heater.

Dimensions



HELIX **HTO** without heat exchanger

Capacity L	ø mm	H mm	Measure tip mm	Helix	
				Mod.	Capacity
650	700	1870	1930	5,5	50
750	750	1890	1960	6	55
950	790	2040	2110	7	65
1200	900	2040	2150	7	65
1450	1000	2020	2150	8	75

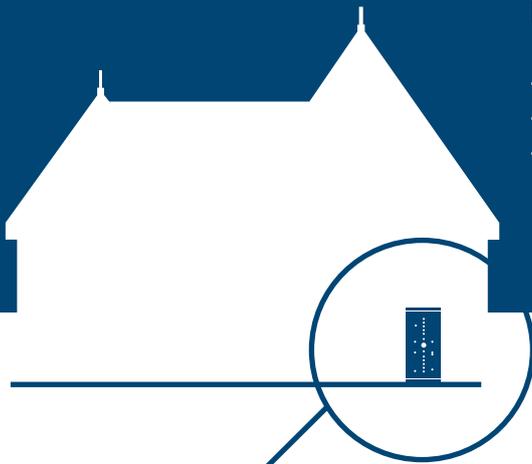


HELIXTHERM **HT1** with heat exchanger

Capacity L	ø mm	H mm	Measure tip mm	Exchanger m ²	Helix	
					Mod.	Capacity
650	700	1870	1930	1,0	5,5	50
750	750	1890	1960	2,2	6	55
950	790	2040	2110	2,4	7	65
1200	900	2040	2150	2,4	7	65
1450	1000	2020	2150	3,6	8	75

Note: specified size, diameter, height and measured tip are without isolation

Hygienic boiler



Designed for:

- Large spaces
- Reduced volumes
- High power PTO

Ideal for:

- Efficiency solar integration
- Heating pumps (only)
- Solid fuels
- Fuel/ Gas

Energy accumulator:
The heart of the
energy management

Helix

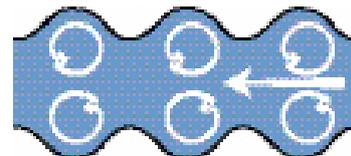


the corrugated tube made of revolutionary stainless steel 1.4404

Advantages of thin-walled tubes:

- More than than 50% surface compared with smooth tube
- Better heat transfer through the lower vortex
- Drainage throughout the volume

- Enlarged drainage lengths
- Profiling of the heat pipe and drainage optimized
- Smooth surface anti debris



Improved overall performance and hygienic thanks to corrugated tubes arranged in parallel in helical form.
No dead zone, vortex flow constant.

Innovative water tanks: an active contribution to your well-being

Tank insulation

Polyester fleece: innovative, easy to install and up to **35 % less standing losses** than foam insulation

- Cover: polystyrene
- various sizes possible
- fire retardant (DIN 4102):
fleece: Class B1
coating and fleece: Class B2
- Easy to assembly

- Dermatologically tested
- Specifics of the material:
thermo-agglomerating
fleece, without combining
chemicals, 50 % recycled
material

- Increased stability because
of fleece structure
- Density 10 / 12 / 17 / 21 kg/m³
- Thermal-conductivity 0,035 –
0,041 W/mK, DIN EN 12667
- Thermal Resistance: 130 °C



Further reduction of standing losses: The unitec insulation nozzles for unused connections



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