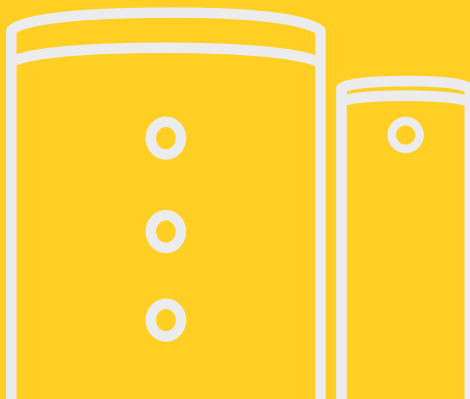




BUFFER TANK FOR
HEAT PUMP

CHILLED WATER
STORAGE



CATALOGUE PRICELIST
RANGE UPDATE

2025

Cordivari company has a proven industrial tradition and is now one of the most important manufacturers in the heating and plumbing industry in Italy.

Founded in 1972 by Ercole Cordivari, the company specializes in the production of Calorifiers, Pressure Vessels, Solar Thermal and Heat Pumps Systems, Storage and Water Treatment Tanks and Decorative Radiators.

Cordivari plants are situated on an area of 370.000 square meters and employs more than 700 employees.

To guarantee the total quality of our products, all of them are designed and Made in Italy, in the Cordivari's plants.

Thanks to development strategies oriented towards technological innovation and continuous staff training, Cordivari is equipped with modern systems and cutting-edge production processes. The technological, ergonomic and ecological choices allow to operate in full respect of people and environment, according to UNI EN ISO 14001 Environmental Management System and UNI EN ISO 45001 Occupational Health and Safety Standard in addition to the UNI EN ISO Quality System 9001, which guarantees the full quality and reliability of our products. Cordivari's highly qualified management, the continuous search for innovative solutions and a strongly customer oriented approach, brought us today to serve more than 2.000 customers in 72 countries around the world, a market leadership position and an exclusive know-how in the production of Integrated Hydrothermal Systems. The testimony of a continuous commitment aimed at achieving Customer Satisfaction.



Cav. **Ercole Cordivari**

ENERGY OPTIMIZATION FOR CONSTANT COMFORT



BUFFER TANK, A KEY COMPONENT FOR AN EFFICIENT, LONG-LASTING, AND COMFORTABLE SYSTEM.

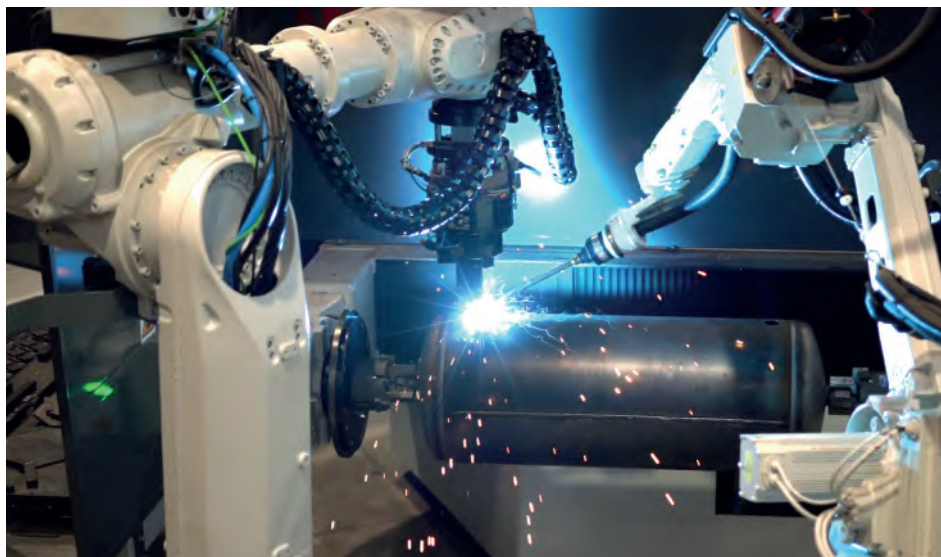
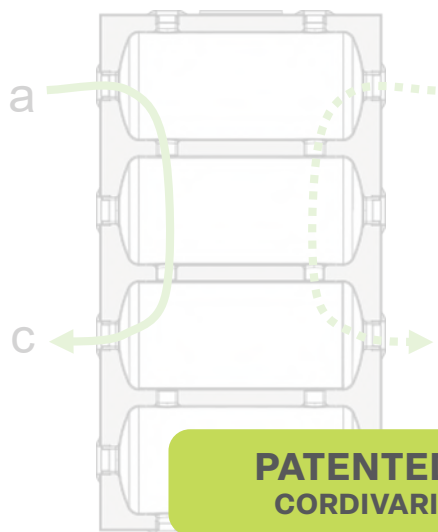
The use of a buffer tank in heat pump systems is a fundamental choice for optimizing energy efficiency, improving system management, and ensuring consistent thermal comfort. The buffer tank, in addition to serving as a hydraulic separator within the system, helps reduce the number of start-ups and shutdowns of the heat pump, optimizing its operation and limiting component wear, which extends the lifespan of the generator.

From an energy standpoint, it allows for better use of the energy produced by storing thermal energy during periods of low demand and releasing it when needed. This results in a more stable and continuous operation of the entire system, improving the overall performance coefficient.

Moreover, the buffer tank helps maintain a more uniform temperature throughout the living spaces, enhancing indoor comfort.



ITALIAN EXCELLENCE FOR YOUR CLIMATE CONTROL SYSTEM



Quality, innovation, and performance thanks to the complete control of the production process of Cordivari buffer tanks, entirely made in Italy, where every solution is designed, manufactured, and laboratory-

tested to ensure maximum efficiency and reliability. The Cordivari buffer tank range meets every need: from small residential systems to large custom civil or industrial installations. The integration of design, production, and testing allows us to offer high-performance products tailored to each specific requirement and aligned with the features of the most modern heat pump systems. Technical know-how, a wide product range, and customization make Cordivari buffer tanks a strategic partner for designers and installers seeking advanced, reliable, and certified solutions.

TRANSFORMING STEEL INTO SMART SOLUTIONS FOR COMFORT AND ENERGY EFFICIENCY.



QUALITY AND SUSTAINABILITY



Choose peace of mind.

Now more than ever, choosing a Cordivari product means choosing peace of mind and security.

Since the initial implementation of the ErP EArt. Nr.sign regulations, we have committed to providing guaranteed performance and reliability.

The establishment of the Cordivari LAB structure is a direct reflection of this commitment.

Since 2015, the company has been equipped with a high-tech laboratory and testing area capable of precisely evaluating and certifying the performance of any product or system.

Through rigorous procedures aligned with EU standards and advanced instrumentation, Cordivari is the only Italian manufacturer capable of conducting in-house, high-precision testing on 100% of its products, in full compliance with European regulations.



ISO 9001
QUALITY SYSTEM



ISO 14001
ENVIRONMENTAL SYSTEM



ISO 45001
SAFETY SYSTEM



COMPLETE SYSTEMS FOR A GREEN HOME



Cordivari, a leading company in the hydro-thermal systems sector, has continuously evolved, updated, and transformed itself—introducing, alongside its historic products, innovative systems and solutions born from dedicated research and development activities. These innovations now represent strategic assets for the company.



































Its production philosophy is focused on high-efficiency systems designed to enhance residential comfort and energy performance in buildings. This is achieved through multiple, seamlessly integrated business units, including radiators and towel warmers, solar thermal systems, water recovery and treatment, storage tanks, and heat pump systems.


































Cordivari's corporate vision is firmly rooted in a commitment to total responsibility and sustainability, supported by an organizational structure and production processes that ensure the creation of efficient and sustainable products throughout their entire life cycle.

In designing and developing its market offerings, Cordivari leverages patented solutions that combine comfort, energy performance, well-being, and cost savings. This is made possible through the use of cutting-edge industrial technologies based on renewable energy sources and the responsible use of environmental and energy resources.



INDEX BUFFER TANK FOR HEAT PUMP & CHILLED WATER STORAGE

							
	PAG. 14	PAG. 16	PAG. 18	PAG. 20	PAG. 22	PAG. 24	PAG. 26
	MILD STEEL	POLYWARM®	STAINLESS STEEL	MILD STEEL / STAINLESS STEEL	MILD STEEL	POLYWARM®	MILD STEEL
	VOLANO UP Mild steel	VOLANO UP (Clean systems)	VOLANO UP Stainless steel	VOLANO CUBE	VOLANO BS	VOLANO BS (Clean systems)	VOLANO BS HOT/COLD
Material and Internal Finish	 Mild steel	 Polywarm® Coating	 Stainless steel	 Mild steel / Stainless steel	 Mild steel	 Polywarm® Coating	 Mild steel
Insulation	Polyurethane Hard Foam	Polyurethane Hard Foam	Polyurethane Hard Foam	Polyurethane Hard Foam	Polyurethane Hard Foam	Polyurethane Hard Foam	Anti-condensation expanded polyethylene + polyester fiber
External Lining	<ul style="list-style-type: none"> • Soft PVC • Rigid Technopolymer • Anti-corrosion metal sheet 	<ul style="list-style-type: none"> • Soft PVC • Rigid Technopolymer • Anti-corrosion metal sheet 	<ul style="list-style-type: none"> • Soft PVC • Rigid Technopolymer • Anti-corrosion metal sheet 	<ul style="list-style-type: none"> • Anti-corrosion metal sheet 	<ul style="list-style-type: none"> • Soft PVC 	<ul style="list-style-type: none"> • Soft PVC 	<ul style="list-style-type: none"> • Soft PVC
Installation	 INDOOR / OUTDOOR	 INDOOR / OUTDOOR	 INDOOR / OUTDOOR	 INDOOR / OUTDOOR	 INDOOR	 INDOOR	 INDOOR
Temperature and pressures	-10 / +95 °C 6 bar	-10 / +90 °C 6 bar	-10 / +95 °C 6 bar	-10 / +95 °C 6 bar	-10 / +95 °C 4 bar	-10 / +95 °C 4 bar	-10 / +90 °C 7 bar
Application	  Hot Cold	  Hot Cold	  Hot Cold	  Hot Cold	  Hot Cold	  Hot Cold	  Hot Cold
Energy Class	A-B	A-B	B	B-C	B-C	B-C	C
Models range available	8 ÷ 100	25 ÷ 100	25 ÷ 100	50 ÷ 80	100 ÷ 1000	100 ÷ 1000	500 ÷ 5000
Type installation	Wall-mounted	Wall-mounted	Wall-mounted	Wall-mounted	Floor-standing	Floor-standing	Floor-standing
Suggested Application	Domestic Heat Pumps Heating/Cooling	Domestic Heat Pumps Heating/Cooling	Domestic Heat Pumps Heating/Cooling	Domestic Heat Pumps Heating/Cooling	Heat pump Heating/Cooling	Heat pump Heating/Cooling	Large-Scale Chiller Systems – VRV / VRF Technologies

													
PAG. 28		PAG. 30-32		PAG. 34		PAG. 36		PAG. 38		PAG. 40		PAG. 42-44	
MILD STEEL		MILD STEEL		MILD STEEL		POLYWARM®		STAINLESS STEEL		GALVANISED		MILD STEEL GALVANISED	
VOLANO BS REVERSO FLANGED		VOLANO BS REVERSO		VOLANO BS COOLING-HEATING		VOLANO BS COOLING-HEATING		VOLANO BS COOLING-HEATING		CHILLED WATER STORAGE TANK		CHILLED WATER STORAGE TANK VT/OR	
 Mild steel		 Mild steel		 Mild steel		 Polywarm® Coating		 Stainless steel		 Mild steel with hot-dip galvanization		 Mild steel or Mild steel with hot-dip galvanization	
• Anti-condensation insulation + polyester fibre		• Anti-condensation insulation + polyester fibre • Polyurethane Hard Foam		Polyurethane Hard Foam		Polyurethane Hard Foam		Polyurethane Hard Foam		Polyurethane Hard Foam		Anti-condensation expanded polyethylene	
• Soft PVC		• Aluminium metal sheet • Painted metal sheet		• Painted metal sheet		• Painted metal sheet		• Painted metal sheet		• Painted metal sheet		• Soft PVC	
 INDOOR		 OUTDOOR		 INDOOR / OUTDOOR		 INDOOR / OUTDOOR		 INDOOR / OUTDOOR		 INDOOR / OUTDOOR		 INDOOR	
-10 / +90 °C 4 bar		-10 / +90 °C 4 bar		-10 / +90 °C 7 bar		-10 / +90 °C 7 bar		-30 / +90 °C 7 bar		-10 / +60 °C 7 bar		-10 / +90 °C 7 bar	
 Hot  Cold		 Hot  Cold		 Hot  Cold		 Hot  Cold		 Hot  Cold		 Cold		 Cold	
C		C		B-C		C		C		N.A.		N.A.	
500 ÷ 5000		500 ÷ 5000		100 ÷ 2000		100 ÷ 1000		100 ÷ 1000		100 ÷ 2000		100 ÷ 5000	
Floor-standing		Floor-standing		Floor-standing		Floor-standing		Floor-standing		Floor-standing		Floor-standing	
Large-Scale Chiller Systems – VRV / VRF Technologies		Heat pump Heating/Cooling - Large-Scale Systems		Heat pump Heating/Cooling		Heat pump Heating/Cooling		Heat pump Heating/Cooling		• Chillers • Industrial Systems		Chiller Systems – VRV / VRF Technologies	

INDEX BUFFER TANK FOR HEAT PUMP & CHILLED WATER STORAGE



	8lt		12lt		25lt			30lt		50lt			
CONNECTIONS	4		4		4			6		4		4	
EXTERNAL LINING	SOFT PVC	SOFT PVC	ANTI-CORROSION METAL SHEET	SOFT PVC	RIGID TECHNO POLYMER	ANTI-CORROSION METAL SHEET	SOFT PVC	RIGID TECHNO POLYMER	SOFT PVC	RIGID TECHNO POLYMER	SOFT PVC	RIGID TECHNO POLYMER	ANTI-CORROSION METAL SHEET
INDOOR INSTALLATION													
OUTDOOR INSTALLATION													
G													
W													
X													
PRESSURE	6 bar												
INSULATION	Polyurethane Hard Foam												
APPLICATION	Hot Cold												

50_{lt}

80_{lt}

100_{lt}



6		8		4		6		8		4		6	
SOFT PVC	RIGID TECHNO POLYMER	ANTI-CORROSION METAL SHEET	SOFT PVC	RIGID TECHNO POLYMER	SOFT PVC	RIGID TECHNO POLYMER	ANTI-CORROSION METAL SHEET	SOFT PVC	RIGID TECHNO POLYMER	ANTI-CORROSION METAL SHEET	SOFT PVC	RIGID TECHNO POLYMER	

MILD STEEL

POLYWARM®

STAINLESS STEEL

6 bar

Polyurethane
Hard Foam



Hot



Cold

FLOOR-STANDING BUFFER TANK FOR HEAT PUMP RANGE GUIDE



BS



**BS
HOT/COLD**



**BS
REVERSO FLANGED**



**BS
REVERSO**

CONNECTIONS	6	4	4	4
CAPACITIES	100 ÷ 1000	500 ÷ 5000	500 ÷ 5000	500 ÷ 2000
PRESSURE	4 BAR	7 BAR	4 BAR	4 BAR
EXTERNAL LINING	SOFT PVC	SOFT PVC	SOFT PVC	PAINTED METAL SHEET
INSULATION	POLYURETHANE HARD FOAM	ANTI-CONDENSATION INSULATION + POLYESTER FIBER	ANTI-CONDENSATION INSULATION + POLYESTER FIBER	POLYURETHANE HARD FOAM
INDOOR INSTALLATION				
OUTDOOR INSTALLATION				
G W X Z				
APPLICATION	 <i>Hot Cold</i>	 <i>Hot Cold</i>	 <i>Hot Cold</i>	 <i>Hot Cold</i>



**BS
REVERSO FLANGED**



**BS
COOLING-HEATING**



**CHILLED
WATER**



**CHILLED WATER
STORAGE TANK VT**



**CHILLED WATER
STORAGE TANK OR**

4	4	4	4	4
2500 ÷ 5000	100 ÷ 2000	100 ÷ 2000	100 ÷ 5000	100 ÷ 5000
4 BAR	7 BAR	7 BAR	7 BAR	7 BAR
ALUMINIUM SHEET	PAINTED METAL SHEET	PAINTED METAL SHEET	SOFT PVC	SOFT PVC
ANTI-CONDENSATION INSULATION + POLYESTER FIBRE	POLYURETHANE HARD FOAM	POLYURETHANE HARD FOAM	ANTI-CONDENSATION EXPANDED POLYETHYLENE	ANTI-CONDENSATION EXPANDED POLYETHYLENE
			MILD STEEL	
			POLYWARM®	
			STAINLESS STEEL	
			GALVANISED	
Hot Cold	Hot Cold	Cold	Cold	Cold

VOLANO UP - MILD STEEL

HANGING SEPARATOR/BUFFER TANK FOR HEAT PUMP IN MILD STEEL



NEW



TECHNICAL INFORMATION

Buffers either for hot or cold water have two main functions: they work both as hydraulic separator and buffer tank. The hydraulic separator makes the heat pump flow rates and terminals flow rates unconnected. The buffer function reduces the heat pump on/off switchings. Hanging energy buffer tanks are designed for wall installation.

MATERIAL

Mild steel.

EXTERNAL LINING

- **VOLANO UP GBF**: Grey soft PVC cover.
- **VOLANO UP GBP**: Technopolymer cover suitable for outdoor installation.
- **VOLANO UP GBL**: Metal sheet cover protected by a special anticorrosive treatment suitable for outdoor installation (for A CLASS).

INSULATION











Polyurethane hard foam with high thermal insulation.

WARRANTY

5 years - See general terms and conditions.

**MILD
STEEL**



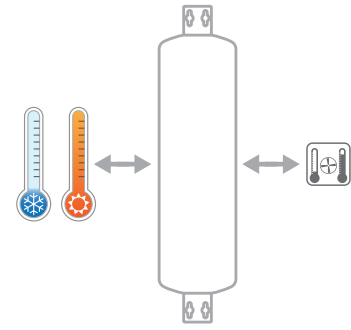
		TYPE OF INSTALLATION	MODEL	ART. NR.	PRICE €	ENERGY EFFICIENCY CLASS	
4 CONNECTIONS	 <p>VOLANO UP GBF MILD STEEL EXTERNAL LINING IN SOFT PVC</p>	 INDOOR	8	3070160920006	219,00	B	
			12	3070160920004	245,00	B	
			25	3070160920001	294,00	B	
			30 Low	3070160920045	313,00	B	
			50	3070160920003	332,00	B	
			50 Low	3070160920043	346,00	B	
			80	3070160920018	392,00	B	
			100	3070160920019	431,00	B	
			Price per quantity (≥12pz)	8	3070160920006	208,00	B
			Price per quantity (≥12pz)	12	3070160920004	233,00	B
	Price per quantity (≥20pz)	25	3070160920001	281,00	B		
	Price per quantity (≥10pz)	50	3070160920003	318,00	B		
	 <p>VOLANO UP GBP MILD STEEL EXTERNAL LINING IN TECHNOPOLYMER</p>	 OUTDOOR	25	3070160920035	330,00	B	
			30 Low	3070160920046	350,00	B	
			50	3070160920036	371,00	B	
50 Low			3070160920044	381,00	B		
80			3070160920037	432,00	B		
100			3070160920038	473,00	B		
Price per quantity (≥10pz)			50	3070160920036	357,00	B	
 <p>VOLANO UP GBL (A CLASS) MILD STEEL EXTERNAL LINING IN METAL SHEET</p>	 OUTDOOR	12	3070160920020	372,00	A		
		25	3070160920021	413,00	A		
		50	3070160920022	518,00	A		
		100	3070160920024	650,00	A		
6 CONNECTIONS	 <p>VOLANO UP GBF MILD STEEL EXTERNAL LINING IN SOFT PVC</p>	 INDOOR	25	3070160920031	319,00	B	
			50	3070160920032	357,00	B	
			80	3070160920033	417,00	B	
			100	3070160920034	456,00	B	
			Price per quantity (≥20pz)	25	3070160920031	306,00	B
	Price per quantity (≥10pz)	50	3070160920032	343,00	B		
	 <p>VOLANO UP GBP MILD STEEL EXTERNAL LINING IN TECHNOPOLYMER</p>	 OUTDOOR	25	3070160920039	355,00	B	
			50	3070160920040	396,00	B	
			80	3070160920041	457,00	B	
			100	3070160920042	498,00	B	

Products designed and manufactured for use within the TEMPERATURE and PRESSURE limits of Art. 4.3 of Directive 2014/68/EU (PED)

VOLANO UP - MILD STEEL

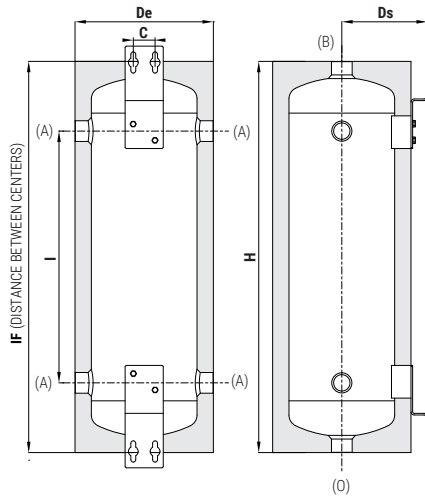
HANGING SEPARATOR/BUFFER TANK FOR HEAT PUMP IN MILD STEEL

PRESSURE	TEMPERATURE
Pmax	Tmin/Tmax
6 bar	-10 / +95 °C

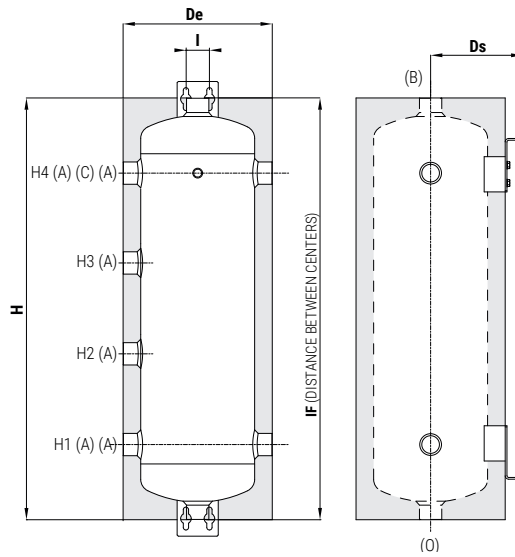


For installation examples see page 46

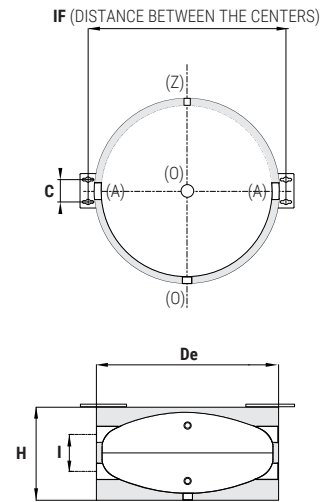
4 CONNECTIONS



6 CONNECTIONS



30 LOW



- A** System connection
- B** Safety valve
- C** Instrumentation 1/2"
- O** Drain
- Z** Air purge 3/8"

VOLANO UP (4 CONNECTIONS) - GBF GBP

Model	Volume [liters]	Weight [Kg]	De	Ds	H	I	IF	C	B-O	A
					[mm]			Connections F		
8	8,3	6,5	255	149	382	126	378	40	1"	1"
12	12,4	7,5	255	149	526	270	522	40	1"	1"
25	25	11	290	166	790	450	776	40	1"	1 1/4
30 Low	30	17,5	550	-	265	96	620	70	1/2"	1 1/4
50	51	16	343	192	1000	600	996	40	1"	1 1/4
50 Low	50	16	450	252	495	150	450	70	1 1/4	1 1/4
80	81	18	450	252	745	395	695	70	1 1/4	1 1/4
100	95	24	450	252	870	525	825	70	1 1/4	1 1/4

VOLANO UP (4 CONNECTIONS) - GBL (A CLASS)

Model	Volume [liters]	Weight [Kg]	De	Ds	H	I	IF	C	B-O	A
					[mm]			Connections F		
12	12,4	13,5	344	193	566	270	562	40	1"	1"
25	25	19,0	340	194	830	450	816	40	1"	1 1/4
50	51	29,0	423	231	1040	600	1038	40	1"	1 1/4
100	95	40,0	550	302	930	525	885	70	1 1/4	1 1/4

VOLANO UP (6 CONNECTIONS) - GBF GBP

Model	Volume [liters]	Weight [Kg]	De	H	H1	H2	H3	H4	IF	I	DS	B-O	A
					[mm]				Connections F				
25	25	14	290	790	170	320	470	620	776	40	166	1"	1 1/4
50	51	19	343	1000	200	400	600	800	996	40	192	1"	1 1/4
80	80	22	450	745	175	310	440	570	695	70	252	1 1/4	1 1/4
100	95	26	450	875	175	350	525	700	825	70	252	1 1/4	1 1/4

VOLANO UP - POLYWARM®

HANGING SEPARATOR/BUFFER TANK HYDRAULIC SEPARATOR FOR HEAT PUMP WITH INTERNAL POLYWARM® FINISHING



NEW



TECHNICAL INFORMATION

Buffers either for hot or cold water have two main functions: they work both as hydraulic separator and buffer tank. The hydraulic separator makes the heat pump flow rates and terminals flow rates unconnected. The buffer function reduces the heat pump on/off switchings. Hanging energy buffer tanks are designed for wall installation.

MATERIAL

Internal Polywarm® finishing.

EXTERNAL LINING

- **VOLANO UP WBF**: Grey soft PVC cover.
- **VOLANO UP WBP**: Technopolymer cover suitable for outdoor installation.

- **VOLANO UP WBL**: Metal sheet cover protected by a special anticorrosive treatment suitable for outdoor installation (for A CLASS).











INSULATION

Polyurethane hard foam with high thermal insulation.

WARRANTY

5 years - See general terms and conditions.

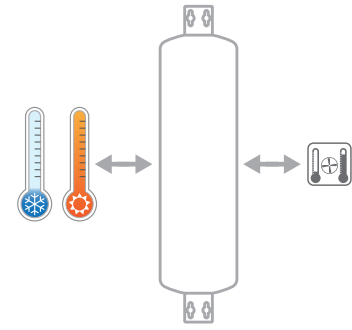


		TYPE OF INSTALLATION	MODEL	ART. Nr.	PRICE €	ENERGY EFFICIENCY CLASS		
4 CONNECTIONS	 <p>VOLANO UP WBF INTERNAL POLYWARM® FINISHING EXTERNAL LINING IN SOFT PVC</p>	 INDOOR	25	3070160310001	373,00	B		
			50	3070160310002	406,00	B		
			50 Low	3070160310005	433,00	B		
			80	3070160310003	493,00	B		
			100	3070160310004	586,00	B		
			Price per quantity (≥24pz)		25	3070160310001	360,00	B
	Price per quantity (≥10pz)		50	3070160310002	392,00	B		
	 <p>VOLANO UP WBP INTERNAL POLYWARM® FINISHING EXTERNAL LINING IN TECHNOPOLYMER</p>	 OUTDOOR	25	3070160310020	409,00	B		
			50	3070160310021	445,00	B		
			50 Low	3070160310019	469,00	B		
			80	3070160310022	533,00	B		
			100	3070160310023	628,00	B		
Price per quantity (≥20pz)			25	3070160310020	399,00	B		
 <p>VOLANO UP WBL (A CLASS) INTERNAL POLYWARM® FINISHING EXTERNAL LINING IN METAL SHEET</p>	 OUTDOOR	25	3070160310028	492,00	A			
		50	3070160310029	593,00	A			
		100	3070160310030	808,00	A			
		Price per quantity (≥20pz)		25	3070160310028	482,00	A	
		Price per quantity (≥10pz)		50	3070160310029	573,00	A	
		Price per quantity (≥10pz)		100	3070160310030	798,00	A	
6 CONNECTIONS	 <p>VOLANO UP WBF INTERNAL POLYWARM® FINISHING EXTERNAL LINING IN SOFT PVC</p>	 INDOOR	25	3070160310006	403,00	B		
			50	3070160310007	436,00	B		
			80	3070160310008	523,00	B		
			100	3070160310009	616,00	B		
			Price per quantity (≥20pz)		25	3070160310006	390,00	B
			Price per quantity (≥10pz)		50	3070160310007	422,00	B
	 <p>VOLANO UP WBP INTERNAL POLYWARM® FINISHING EXTERNAL LINING IN TECHNOPOLYMER</p>	 OUTDOOR	25	3070160310024	441,00	B		
			50	3070160310025	475,00	B		
			80	3070160310026	563,00	B		
			100	3070160310027	658,00	B		
			Price per quantity (≥20pz)		25	3070160310024	431,00	B
			Price per quantity (≥10pz)		50	3070160310025	463,00	B

VOLANO UP - POLYWARM®

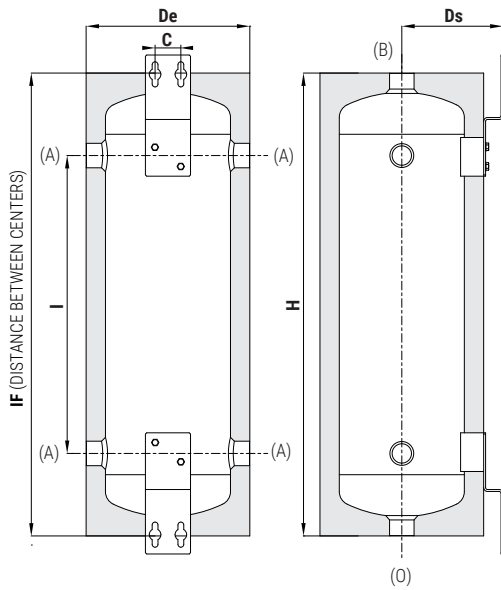
HANGING SEPARATOR/BUFFER TANK HYDRAULIC SEPARATOR FOR HEAT PUMP WITH INTERNAL POLYWARM® FINISHING

PRESSURE	TEMPERATURE
Pmax	Tmin/Tmax
6 bar	-10 / +90 °C

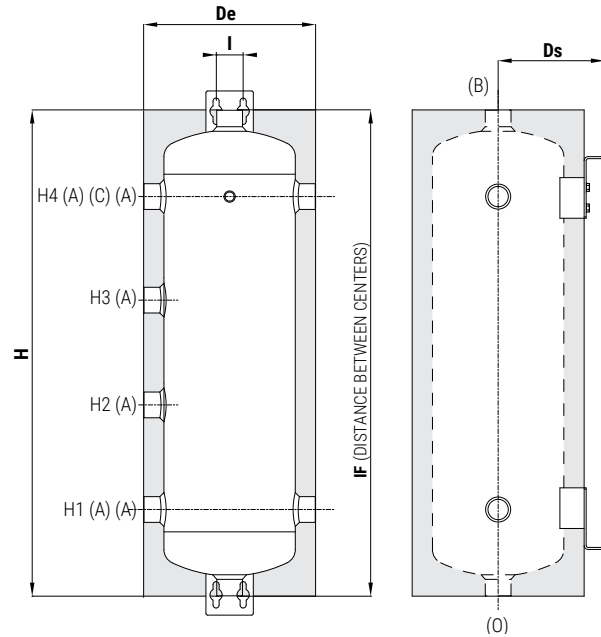


For installation examples see page 46

4 CONNECTIONS



6 CONNECTIONS



- A** System connection
- B** Safety valve
- C** Instrumentation 1/2"
- O** Drain

VOLANO UP (4 CONNECTIONS) - WBF WBP

Model	Volume [liters]	Weight [Kg]	De	Ds	H	I	IF	C	Connections F	
									B-O	A
25	25	11	290	166	790	450	776	40	1"1/4	1"1/4
50	51	16	343	192	1000	600	996	40	1"1/4	1"1/4
50 Low	50	16	450	252	495	150	450	70	1"1/4	1"1/4
80	81	18	450	252	745	395	695	70	1"1/4	1"1/4
100	95	24	450	252	870	525	825	70	1"1/4	1"1/4

VOLANO UP (4 CONNECTIONS) - WBL (A CLASS)

Model	Volume [liters]	Weight [Kg]	De	Ds	H	I	IF	C	Connections F	
									B-O	A
25	25	19,0	340	194	830	450	816	40	1"1/4	1"1/4
50	51	29,0	423	231	1040	600	1038	40	1"1/4	1"1/4
100	95	40,0	550	302	930	525	885	70	1"1/4	1"1/4

VOLANO UP (6 CONNECTIONS) - WBF WBP

Model	Volume [liters]	Weight [Kg]	De	H	H1	H2	H3	H4	IF	I	DS	Connections F	
												B-O	A
25	25	14	290	790	170	320	470	620	776	40	166	1"1/4	1"1/4
50	51	19	343	1000	200	400	600	800	996	40	192	1"1/4	1"1/4
80	80	22	450	745	175	310	440	570	695	70	252	1"1/4	1"1/4
100	95	26	450	875	175	350	525	700	825	70	252	1"1/4	1"1/4

Products designed and manufactured for use within the TEMPERATURE and PRESSURE limits of Art. 4.3 of Directive 2014/68/EU (PED)

VOLANO UP - STAINLESS STEEL

HANGING SEPARATOR/BUFFER TANK HYDRAULIC SEPARATOR FOR HEAT PUMP IN STAINLESS STEEL



NEW



TECHNICAL INFORMATION

Buffers either for hot or cold water have two main functions: they work both as hydraulic separator and buffer tank. The hydraulic separator makes the heat pump flow rates and terminals flow rates unconnected. The buffer function reduces the heat pump on/off switchings. Hanging energy buffer tanks are designed for wall installation.

MATERIAL

Stainless steel.

EXTERNAL LINING

- **VOLANO UP XBF**: Grey soft PVC cover.
- **VOLANO UP XBP**: Technopolymer cover suitable for outdoor installation.









INSULATION

Polyurethane hard foam with high thermal insulation.

WARRANTY

5 years - See general terms and conditions.

STAINLESS STEEL

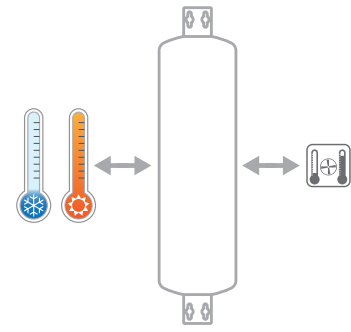
		TYPE OF INSTALLATION	MODEL	ART. Nr.	PRICE €	ENERGY EFFICIENCY CLASS
4 CONNECTIONS	 <p>VOLANO UP XBF STAINLESS STEEL EXTERNAL LINING IN SOFT PVC</p>	 INDOOR	25	3001012310021	444,00	B
			30 Low	3001012310039	464,00	B
			50	3001012310022	486,00	B
			50 Low	3001012310037	515,00	B
			80	3001012310023	596,00	B
			100	3001012310024	756,00	B
	 <p>VOLANO UP XBP STAINLESS STEEL EXTERNAL LINING IN TECHNOPOLYMER</p>	 OUTDOOR	25	3001012310029	480,00	B
			30 Low	3001012310040	503,00	B
			50	3001012310030	524,00	B
			50 Low	3001012310038	554,00	B
6 CONNECTIONS	 <p>VOLANO UP XBF STAINLESS STEEL EXTERNAL LINING IN SOFT PVC</p>	 INDOOR	25	3001012310025	484,00	B
			50	3001012310026	526,00	B
			80	3001012310027	636,00	B
			100	3001012310028	796,00	B
	 <p>VOLANO UP XBP STAINLESS STEEL EXTERNAL LINING IN TECHNOPOLYMER</p>	 OUTDOOR	25	3001012310033	516,00	B
			50	3001012310034	563,00	B
			80	3001012310035	676,00	B
			100	3001012310036	840,00	B

Products designed and manufactured for use within the TEMPERATURE and PRESSURE limits of Art. 4.3 of Directive 2014/68/EU (PED)

VOLANO UP - STAINLESS STEEL

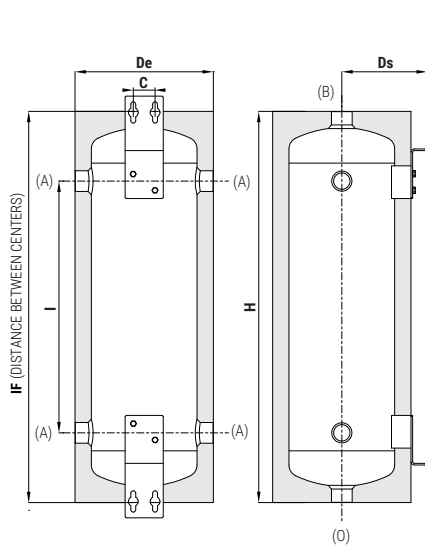
HANGING SEPARATOR/BUFFER TANK HYDRAULIC SEPARATOR FOR HEAT PUMP IN STAINLESS STEEL

PRESSURE	TEMPERATURE
Pmax 6 bar	Tmin/Tmax -10 / +95 °C

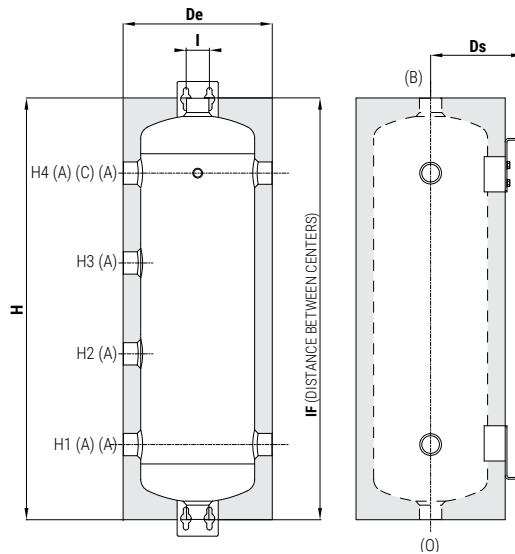


For installation examples see page 46

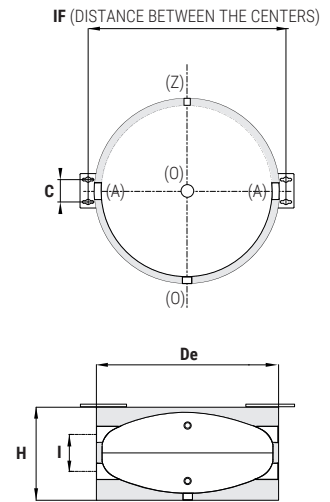
4 CONNECTIONS



6 CONNECTIONS



30 LOW



- A** System connection
- B** Safety valve
- C** Instrumentation 1/2"
- O** Drain
- Z** Air purge 3/8"

VOLANO UP (4 CONNECTIONS) - XBF XBP

Model	Volume	Weight	De	Ds	H	I	IF	C	B-O	A
	[liters]	[Kg]								
8	8,3	6,5	255	149	382	126	378	40	1"	1"
12	12,4	7,5	255	149	526	270	522	40	1"	1"
25	25	11	290	166	790	450	776	40	1"	1 1/4
30 Low	30	17,5	550	-	265	96	620	70	1/2"	1 1/4
50	51	16	343	192	1000	600	996	40	1"	1 1/4
50 Low	50	16	450	252	495	150	450	70	1 1/4	1 1/4
80	81	18	450	252	745	395	695	70	1 1/4	1 1/4
100	95	24	450	252	870	525	825	70	1 1/4	1 1/4

VOLANO UP (6 CONNECTIONS) - XBF XBP

Model	Volume	Weight	De	H	H1	H2	H3	H4	IF	I	DS	B-O	A
	[liters]	[Kg]											
25	25	14	290	790	170	320	470	620	776	40	166	1"	1 1/4
50	51	19	343	1000	200	400	600	800	996	40	192	1"	1 1/4
80	80	22	450	745	175	310	440	570	695	70	252	1 1/4	1 1/4
100	95	26	450	875	175	350	525	700	825	70	252	1 1/4	1 1/4

Products designed and manufactured for use within the TEMPERATURE and PRESSURE limits of Art. 4.3 of Directive 2014/68/EU (PED)

VOLANO CUBE

HANGING SEPARATOR/BUFFER SPACE SAVING TANK FOR HEAT PUMP



TECHNICAL INFORMATION

Buffers either for hot or cold water have two main functions: they work both as hydraulic separator and buffer tank. The hydraulic separator makes the heat pump flow rates and terminals flow rates unconnected. The buffer function reduces the heat pump on/off switchings. VOLANO CUBE hanging energy buffer tanks are designed for wall installation.

MATERIAL

Mild steel or Stainless steel.

EXTERNAL LINING

Metal sheet external lining protected by a particular anticorrosive treatment. Suitable for outdoor installation.

INSULATION

High thermal insulation with ecological polyurethane hard foam.





WARRANTY

5 years - See general terms and conditions.

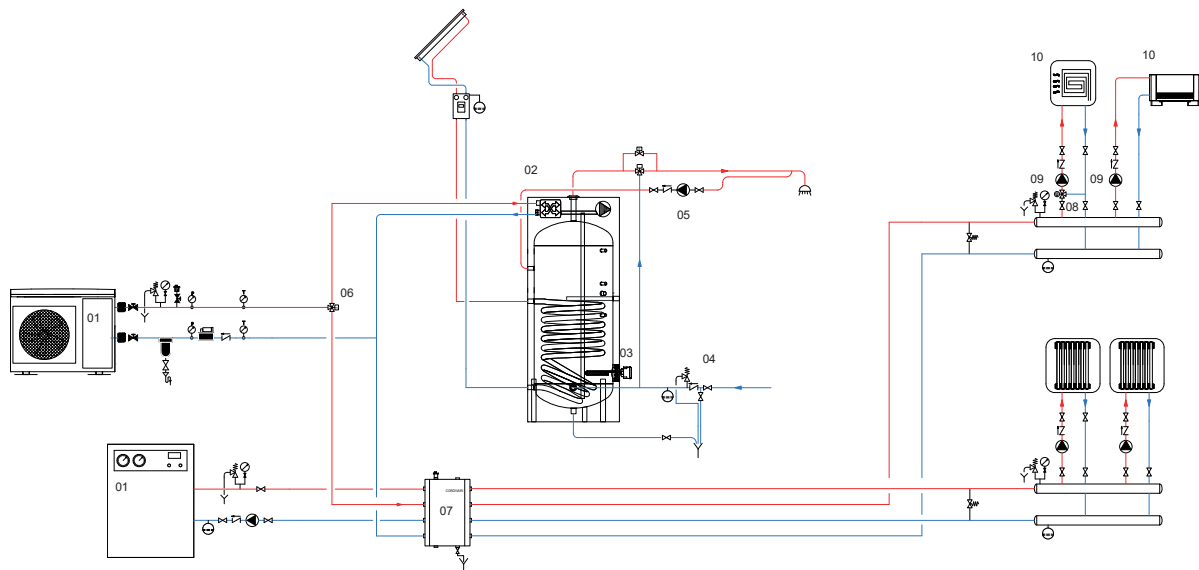
**MILD
STEEL**

**STAINLESS
STEEL**



	TYPE OF INSTALLATION	MODEL	ART. NR.	PRICE €	ENERGY EFFICIENCY CLASS	
 <p>VOLANO CUBE GBL MILD STEEL ANTI-CORROSION METAL SHEET EXTERNAL LINING</p>	 OUTDOOR	50	3070160920025	670,00	B	
		80	3070160920026	757,00	C	
	Price per 4-pack		50	3070160920027	2.560,00	B
	Price per 4-pack		80	3070160920028	2.892,00	C
 <p>NEW VOLANO CUBE XBL STAINLESS STEEL ANTI-CORROSION METAL SHEET EXTERNAL LINING</p>	 OUTDOOR	50	3070012310001	1.079,00	B	
		80	3070012310002	1.219,00	C	

EXAMPLE OF INSTALLATION WITH VOLANO CUBE



01	Generator / Heat pump	04	Hydraulic safety group	07	Volano CUBE	10	Heating/cooling units
02	Calorifier tank Bolly® 2 PDC	05	D.H.W. circulation group	08	Thermostatic mixing valve		
03	Electric immersion heater	06	Motorized 3-way valve	09	Circulation group for heating/cooling system		

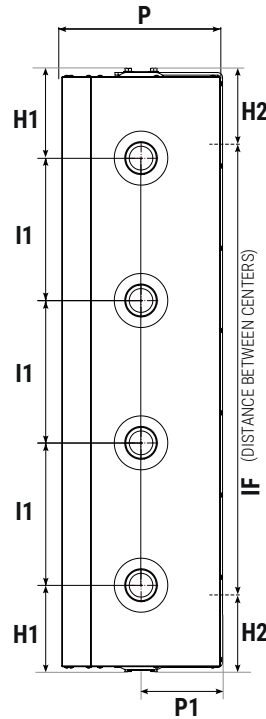
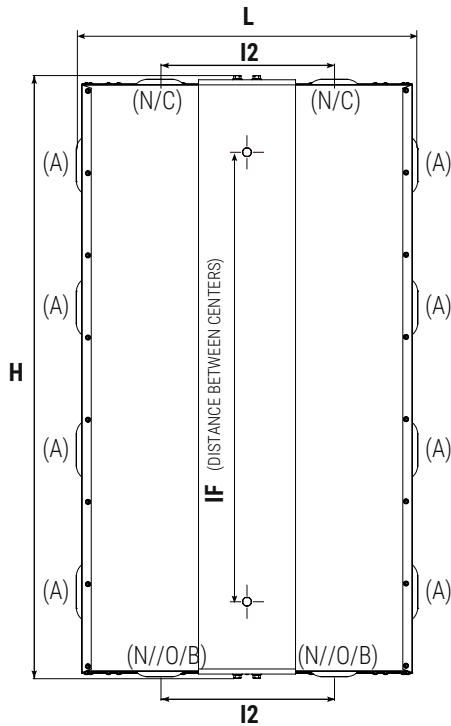
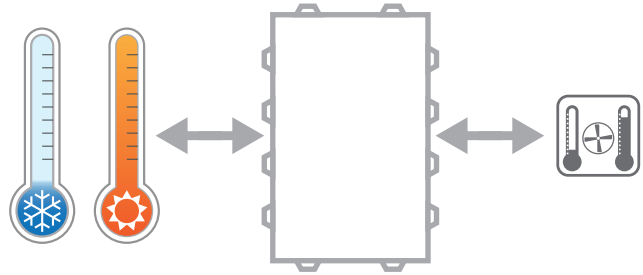
The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

VOLANO CUBE

HANGING SEPARATOR/BUFFER SPACE SAVING TANK FOR HEAT PUMP

PRESSURE	TEMPERATURE
Pmax 6 bar	Tmin/Tmax -10 / +95 °C

For installation examples see page 48



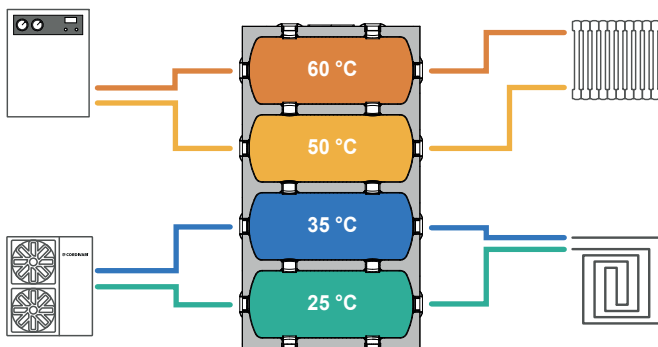
A	System connection
N	Instrumentation
O	Drain
B	Safety vale
C	Vent valve

Model	Volume [liters]	Weight [Kg]	H	L	P	H1	H2	I1	I2	P1	IF	A	N/O/B/C
50	52	39	940	528	252	140	120	222	270	128	700	1"1/4	1"
80	80	50	1070	593	278	154	185	253	270	141	700	1"1/4	1"1/4

PERFECT THERMAL STRATIFICATION

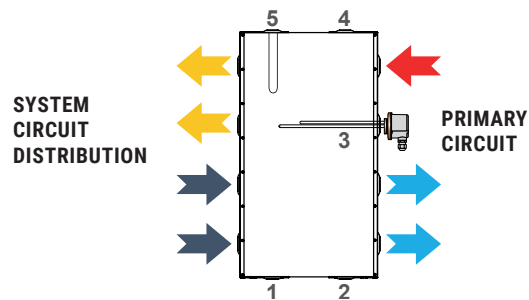
The patented design of the Volano Cube ensures perfect thermal stratification of the fluid inside, with great advantages in terms of system efficiency and versatility of configuration and use. The 8 lateral hydraulic connections allow the simultaneous use of two generators (e.g. heat pump and boiler) and two types of system Terminals (high and low TEMPERATURE).

The 4 service connections allow maximum flexibility in the installation of the instrumentation required for safety and control.



INTEGRATION WITH BOOST HEATER

Thanks to the patented design of the Volano Cube, it is possible to effectively utilise an electric boost heater that facilitates the start-up or resetting of the system's primary circuit, should this be necessary under particular operating conditions.



1	Drain
2	Defangator/Safety valve
3	Optional electric heater
4	Vent
5	Electrical resistance control probe

VOLANO BS - MILD STEEL

FLOOR STANDING BUFFER TANK FOR HEAT PUMP IN MILD STEEL



TECHNICAL INFORMATION

Buffer either for hot or cold water provided by heat pump, in order to limit the generator on/off switchings.

MATERIAL

Mild steel.

EXTERNAL LINING

Grey soft PVC cover.

INSULATION





High thermal insulation with ecological polyurethane hard foam.

WARRANTY

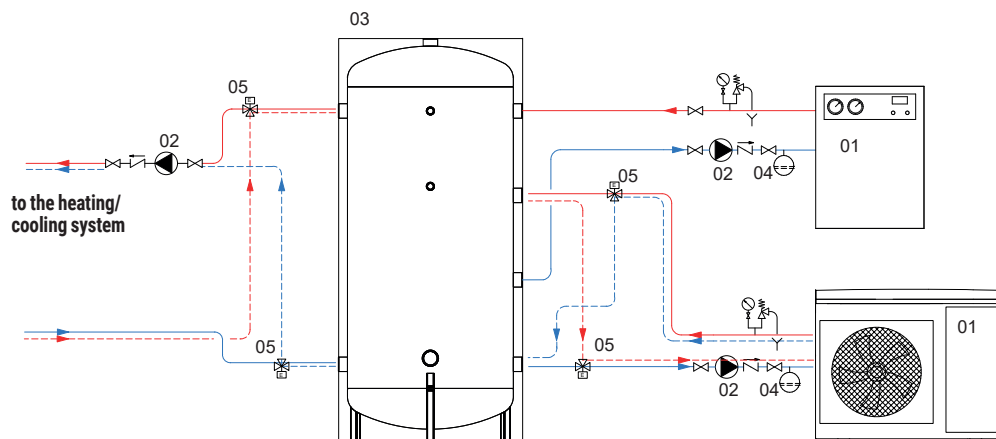
5 years - See general terms and conditions.

MILD STEEL



	TYPE OF INSTALLATION	MODEL	ART. NR.	PRICE €	ENERGY EFFICIENCY CLASS
 <p>VOLANO BS GBF - conn. 1" MILD STEEL EXTERNAL LINING IN SOFT PVC</p>	 <p>INDOOR</p>	100	3001162311001	422,00	B
		200	3001162311002	579,00	C
		Price per quantity (≥12pz)		100	3001162311001
 <p>VOLANO BS GBF MILD STEEL EXTERNAL LINING IN SOFT PVC</p>	 <p>INDOOR</p>	100	3001162311008	426,00	B
		200	3001162311009	583,00	C
		300	3001162311003	713,00	C
		500	3001162311004	1.001,00	C
		500 (B)	3001162311014	1.131,00	B
		800	3001162311005	1.493,00	C
		1000	3001162311006	1.838,00	C
		Price per quantity (≥12pz)		100	3001162311008

EXAMPLE OF INSTALLATION WITH VOLANO BS



- 01 Generator / Heat pump
- 02 Circulation group
- 03 VOLANO BS
- 04 Expansion vessel
- 05 Motorized 3-way valve

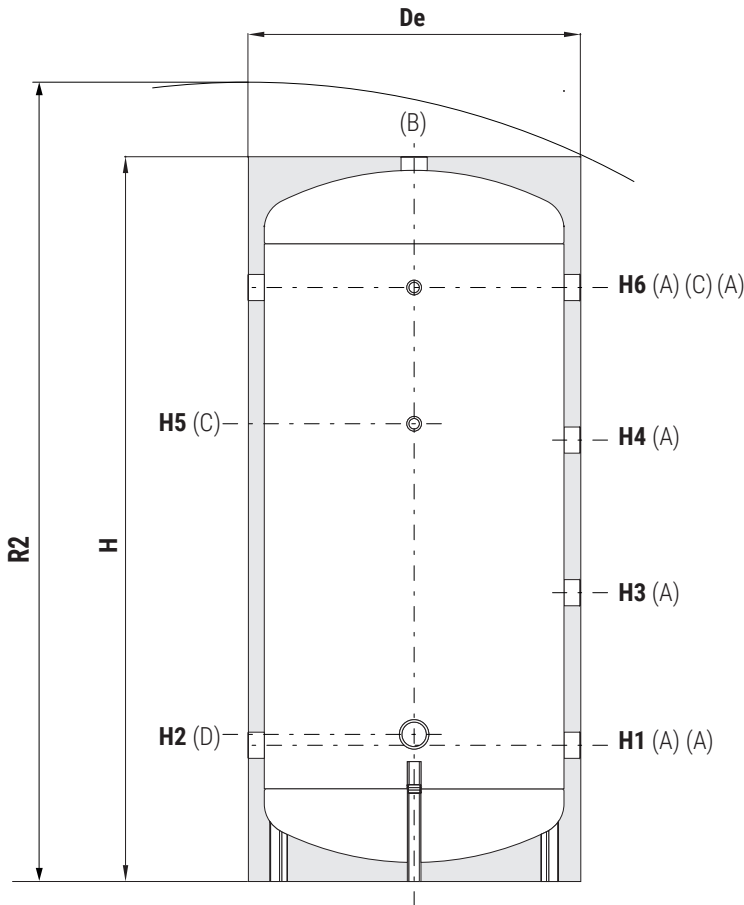
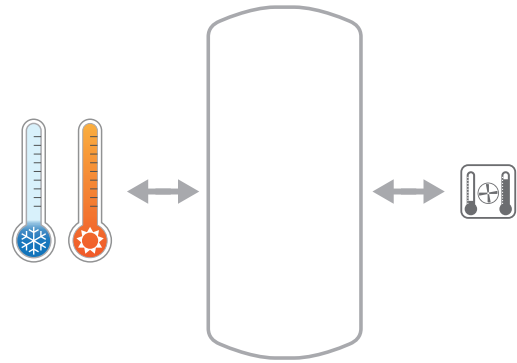
The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

VOLANO BS - MILD STEEL

FLOOR STANDING BUFFER TANK FOR HEAT PUMP IN MILD STEEL

PRESSURE	TEMPERATURE
Pmax 4 bar	Tmin/Tmax -10 / +95 °C

For installation examples see page 48



- A** System connection
- B** Safety valve/System connection G 1" 1/4 F
- C** Connection for instrumentation G 1/2" F
- D** Connection for electrical integration G 1" 1/2 F

VOLANO BS GBF - CONN. 1"

Model	Volume [liters]	Weight [Kg]	De	H	R2	H1	H2 [mm]	H3	H4	H5	H6	A Connections F
100	95	23	461	990	1100	210	250	375	545	515	711	1"
200	180	41	517	1290	1395	210	250	490	795	840	1086	1"

VOLANO BS GBF

Model	Volume [liters]	Weight [Kg]	De	H	R2	H1	H2 [mm]	H3	H4	H5	H6	A Connections F
100	95	23	461	990	1100	210	250	375	545	515	715	1"1/4
200	180	41	517	1290	1395	210	250	490	795	840	1090	1"1/4
300	280	51	624	1350	1490	260	280	540	820	850	1096	1"1/4
500	478	76	725	1645	1800	275	295	635	1000	1095	1361	1"1/4
800	788	110	900	2040	2235	369	369	804	1234	1369	1669	1"1/4
1000	987	142	1000	1985	2230	341	341	776	1206	1341	1641	1"1/2

VOLANO BS GBF (B CLASS)

Model	Volume [liters]	Weight [Kg]	De	H	R2	H1	H2 [mm]	H3	H4	H5	H6	A Connections F
500 (B)	478	76	750	1645	1810	275	295	635	1000	1095	1361	1"1/4

Products designed and manufactured for use within the TEMPERATURE and PRESSURE limits of Art. 4.3 of Directive 2014/68/EU (PED)

VOLANO BS - POLYWARM®

FLOOR STANDING BUFFER TANK FOR HEAT PUMP WITH INTERNAL POLYWARM® FINISHING



NEW



TECHNICAL INFORMATION

Buffer either for hot or cold water provided by heat pump, in order to limit the generator on/off switchings.

MATERIAL

Internal Polywarm® finishing.

INTERNAL LINING

Grey soft PVC cover.





INSULATION

High thermal insulation Polyurethane hard foam.

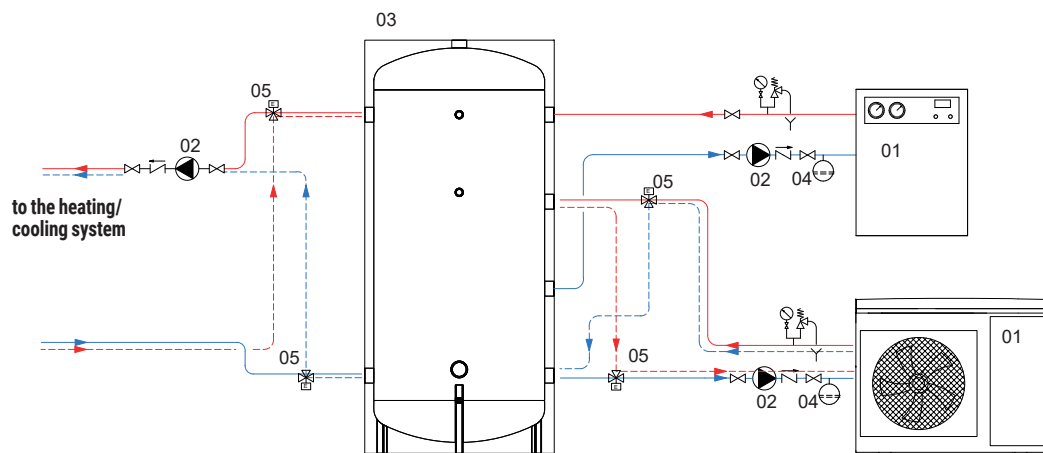
WARRANTY

5 years – See general terms and conditions of sale.



	TYPE OF INSTALLATION	MODEL	ART. NR.	PRICE €	ENERGY EFFICIENCY CLASS
 <p>VOLANO BS WBF - conn. 1" INTERNAL POLYWARM® FINISHING EXTERNAL LINING IN SOFT PVC</p>	 INDOOR	100	3070160310010	583,00	C
		200	3070160310011	765,00	C
		Price per quantity (≥12pz)		100	3070160310010
 <p>VOLANO BS WBF INTERNAL POLYWARM® FINISHING EXTERNAL LINING IN SOFT PVC</p>	 INDOOR	100	3070160310012	588,00	C
		200	3070160310013	770,00	C
		300	3070160310014	910,00	C
		500	3070160310015	1.202,00	C
		500 (B)	3070160310016	1.332,00	B
		800	3070160310017	1.792,00	C
		1000	3070160310018	2.142,00	C
		Price per quantity (≥12pz)		100	3070160310012

EXAMPLE OF INSTALLATION WITH VOLANO BS POLYWARM®



- 01 Thermal generator
- 02 Circulator
- 03 Volano BS Polywarm®
- 04 Expansion vessel
- 05 3-Way valve

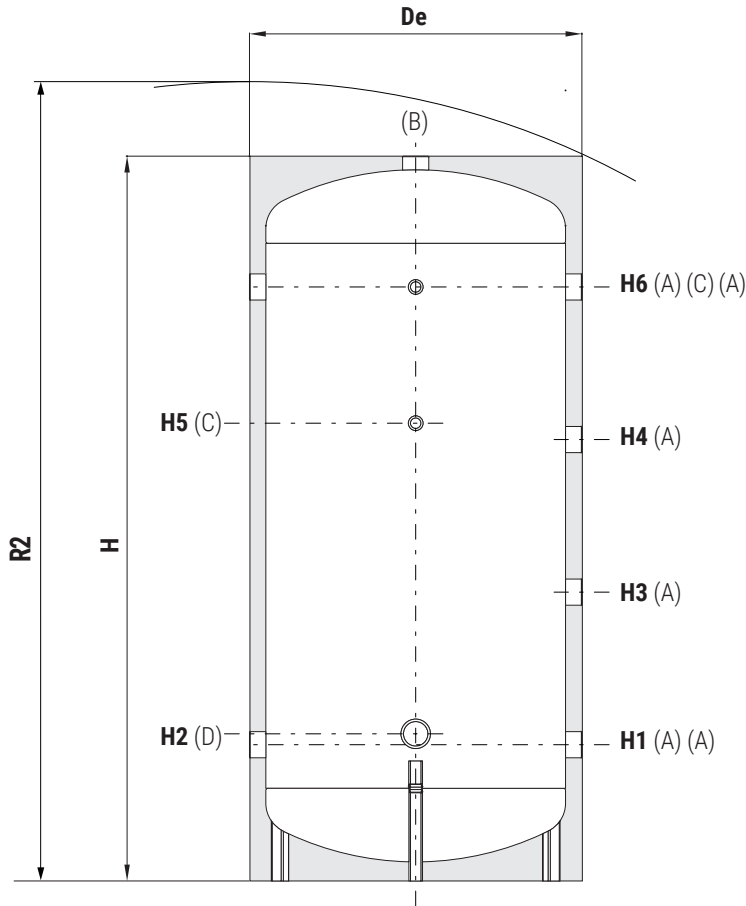
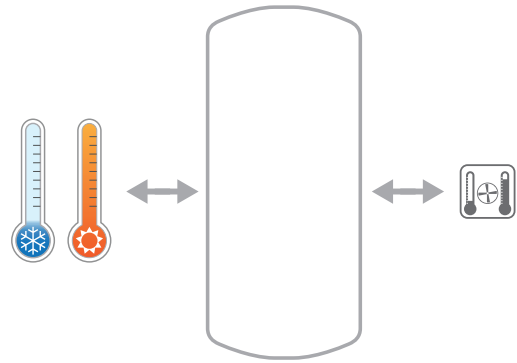
The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

VOLANO BS - POLYWARM®

FLOOR STANDING BUFFER TANK FOR HEAT PUMP WITH INTERNAL POLYWARM® FINISHING

PRESSURE	TEMPERATURE
Pmax 4 bar	Tmin/Tmax -10 / +95 °C

For installation examples see page 48



- A** System connection
- B** Safety valve/System connection G 1" 1/4 F
- C** Connection for instrumentation G 1/2" F
- D** Connection for electrical integration G 1" 1/2 F

VOLANO BS WBF - CONN. 1"

Model	Volume [liters]	Weight [Kg]	De	H	R2	H1	H2 [mm]	H3	H4	H5	H6	A Connections F
100	95	23	461	990	1100	210	250	375	545	515	711	1"
200	180	41	517	1290	1395	210	250	490	795	840	1086	1"

VOLANO BS WBF

Model	Volume [liters]	Weight [Kg]	De	H	R2	H1	H2 [mm]	H3	H4	H5	H6	A Connections F
100	95	23	461	990	1100	210	250	375	545	515	715	1"1/4
200	180	41	517	1290	1395	210	250	490	795	840	1090	1"1/4
300	280	51	624	1350	1490	260	280	540	820	850	1096	1"1/4
500	478	76	725	1645	1800	275	295	635	1000	1095	1361	1"1/4
800	788	110	900	2040	2235	369	369	804	1234	1369	1669	1"1/4
1000	987	142	1000	1985	2230	341	341	776	1206	1341	1641	1"1/2

VOLANO BS WBF (B CLASS)

Model	Volume [liters]	Weight [Kg]	De	H	R2	H1	H2 [mm]	H3	H4	H5	H6	A Connections F
500 (B)	478	76	750	1645	1810	275	295	635	1000	1095	1361	1"1/4

Products designed and manufactured for use within the TEMPERATURE and PRESSURE limits of Art. 4.3 of Directive 2014/68/EU (PED)

VOLANO BS HOT/COLD - MILD STEEL

FLOOR STANDING BUFFER TANK FOR HEATING AND COOLING SYSTEMS WITH DOUBLE INSULATION



APPLICATION AND TECHNICAL DESCRIPTION

The buffer tanks VOLANO BS HOT/COLD with increased insulation for reversible heating/cooling systems are intended for systems that work for the whole year, in which in summer there is the need to accumulate chilled water and in winter hot heating water.

These accumulators improve the efficiency of the system by limiting the number of hourly ignitions of the generator (whether chiller, heat pump or conventional generator) and, increasing the thermal inertia of the circuit, allowing to obtain more stable operating temperatures.

MATERIAL

Mild steel.

EXTERNAL LINING

Grey soft PVC external lining with plastic black caps for connections.

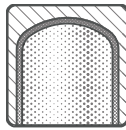
INSULATION

Increased insulation: First insulation layer with closed cell polyethylene of 20 mm not self-extinguishing fixed to the tank body (not removable) coupled with an external layer of insulation of polyester fiber with high thermal insulation, material with fire resistance class B s2d0 in accordance with EN13501.

WARRANTY

5 years - See general terms and conditions.

**MILD
STEEL**



**DOUBLE
INSULATION**



VOLANO BS HOT/COLD GCF

MILD STEEL
EXTERNAL LINING IN SOFT PVC



TYPE OF INSTALLATION

MODEL

ART. NR.

PRICE €

ENERGY
EFFICIENCY
CLASS

500

3001162150004

1.218,00

C

800

3001162150005

1.766,00

C

1000

3001162150006

2.184,00

C

1500

3001162150007

2.828,00

C

2000

3001162150008

3.497,00

C

2500

3001162150009

3.983,00

3000

3001162310510

4.773,00

4000

3001162310511

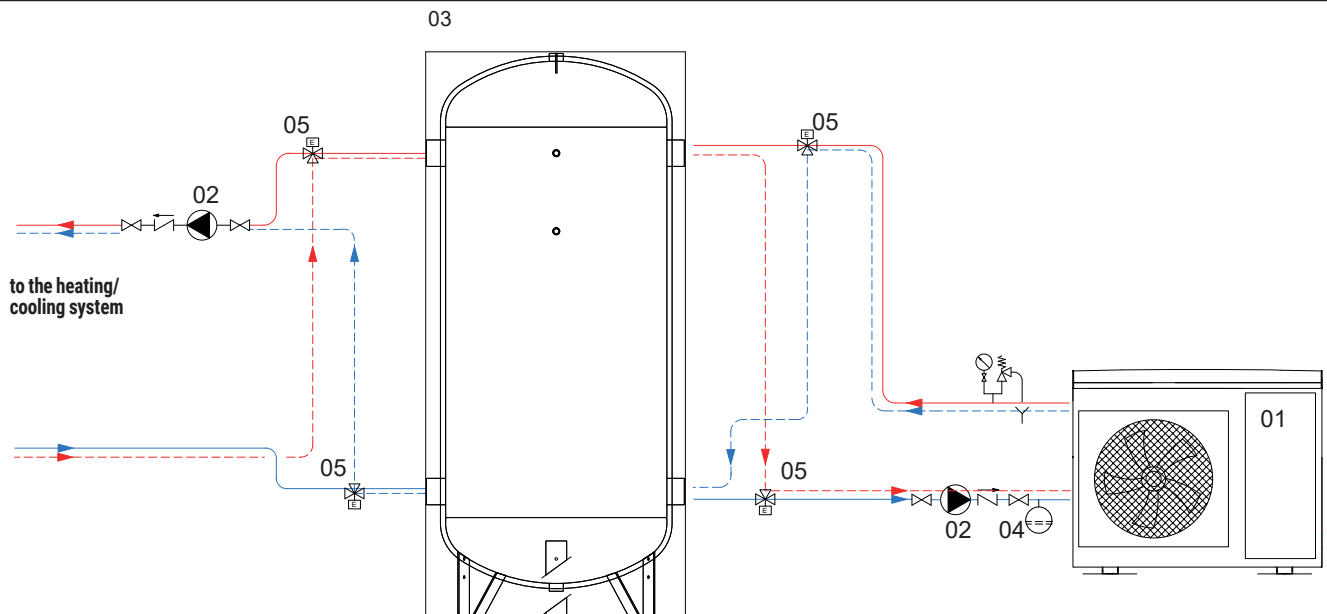
6.399,00

5000

3001162310512

7.993,00

EXAMPLE OF INSTALLATION WITH VOLANO BS HOT/COLD



01 Generator

03 VOLANO BS HOT/COLD

05 Motorized 3-way valve

02 Circulation group

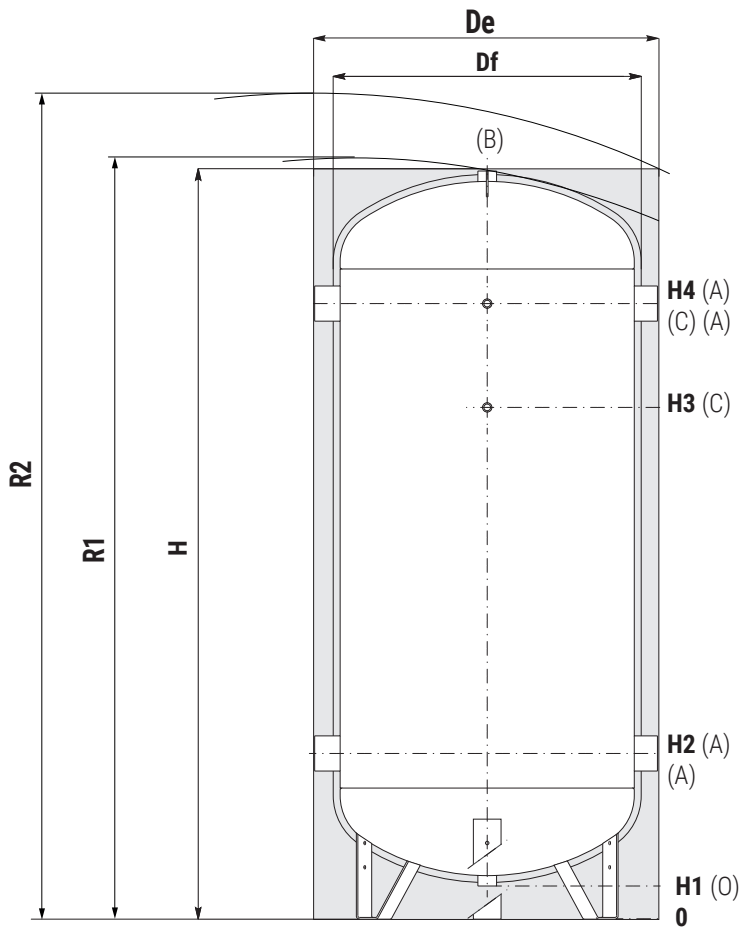
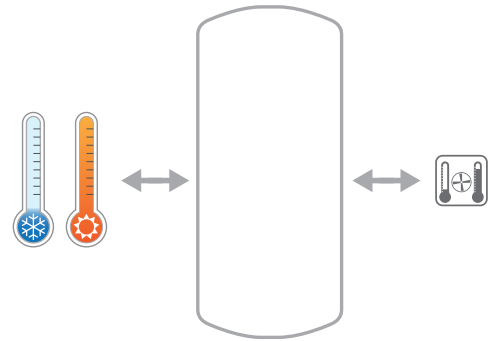
04 Expansion vessel

The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

VOLANO BS HOT/COLD - MILD STEEL

FLOOR STANDING BUFFER TANK FOR HEATING AND COOLING SYSTEMS WITH DOUBLE INSULATION

PRESSURE	TEMPERATURE
Pmax 7 bar	Tmin/Tmax -10 / +90 °C



- A** System connections
- B** Safety valve
- C** Connection for instrumentation G 1/2" F
- O** Drain

VOLANO BS HOT/COLD

Model	Weight [Kg]	Volume [liters]	Df	De	H	R1	R2	H1	H2	H3	H4	Connections F	
												B-O	A
500	101	501	690	910	1900	1970	2110	120	440	1240	1490	1"1/4	3"
800	147	788	790	1010	2200	2280	2430	115	460	1460	1760	1"1/4	3"
1000	170	1034	890	1110	2255	2360	2520	95	480	1480	1780	1"1/2	3"
1500	183	1432	990	1250	2455	2570	2760	120	490	1700	2000	2"	3"
2000	219	1970	1140	1400	2510	2660	2880	105	510	1720	2020	2"	3"
2500	274	2300	1290	1390	2325	2520	2710	150	620	1520	1820	2"	4"
3000	321	2908	1290	1390	2825	2990	3150	150	620	1920	2320	2"	4"
4000	442	3749	1440	1540	2900	3100	3290	135	650	1950	2350	2"	4"
5000	565	4964	1640	1740	2940	3190	3420	110	655	1955	2355	2"	4"

Products designed and manufactured for use within the TEMPERATURE and PRESSURE limits of Art. 4.3 of Directive 2014/68/EU (PED)

VOLANO BS REVERSO FLANGED INDOOR

FLOOR STANDING BUFFER TANK IN MILD STEEL WITH DOUBLE INSULATION FOR HEAT PUMP



TECHNICAL INFORMATION

The VOLANO BS REVERSO FLANGED INDOOR is used in air conditioning systems for chilled water storage, as well as in heating systems requiring high-flow hot water storage.

MATERIAL

Mild steel

APPLICATION

Storage of chilled or hot water

ANTI-CORROSION TREATMENT

No anti-corrosion treatment is required, as it is connected to closed-loop systems.

INSULATION

DOUBLE INSULATION:

First insulating layer made of closed-cell expanded polyethylene (non self-extinguishing), 20 mm thick, bonded to the tank body (non-removable). Outer insulating layer (removable) made of polyester fiber with high thermal insulation, fire resistance class B-s2d0 in accordance with EN13501 standard.

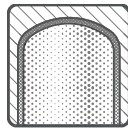
CONNECTION FOR ELECTRIC HEATER

1"1/2 connection for electric heater



WARRANTY

5 years - See general terms and conditions of sale.

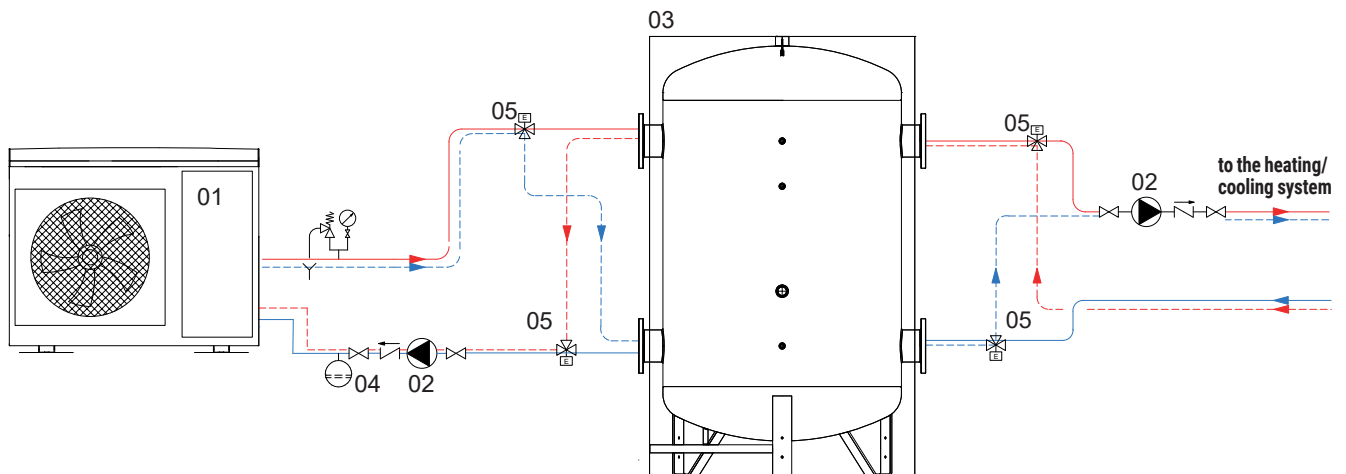
MILD STEEL



DOUBLE INSULATION

	TYPE OF INSTALLATION	MODEL	ART. NR.	PRICE €	ENERGY EFFICIENCY CLASS
 <p>VOLANO BS REVERSO FLANGED INDOOR MILD STEEL EXTERNAL LINING IN SOFT PVC</p>	 <p>INDOOR</p>	500	3001162150010	1.500,00	C
		800	3001162150011	1.999,00	C
		1000	3001162150012	2.500,00	C
		1500	3001162150013	3.214,00	C
		2000	3001162150014	3.815,00	C
		2500	3001162150015	4.595,00	
		3000	3001162150016	5.740,00	
		4000	3001162150017	6.698,00	
		5000	3001162150018	7.690,00	

EXAMPLE OF INSTALLATION WITH VOLANO BS REVERSO FLANGED INDOOR



01 Heat pump	03 VOLANO BS REVERSO FLANGED INDOOR	05 3-way valve
02 Circulation group	04 Expansion vessel	

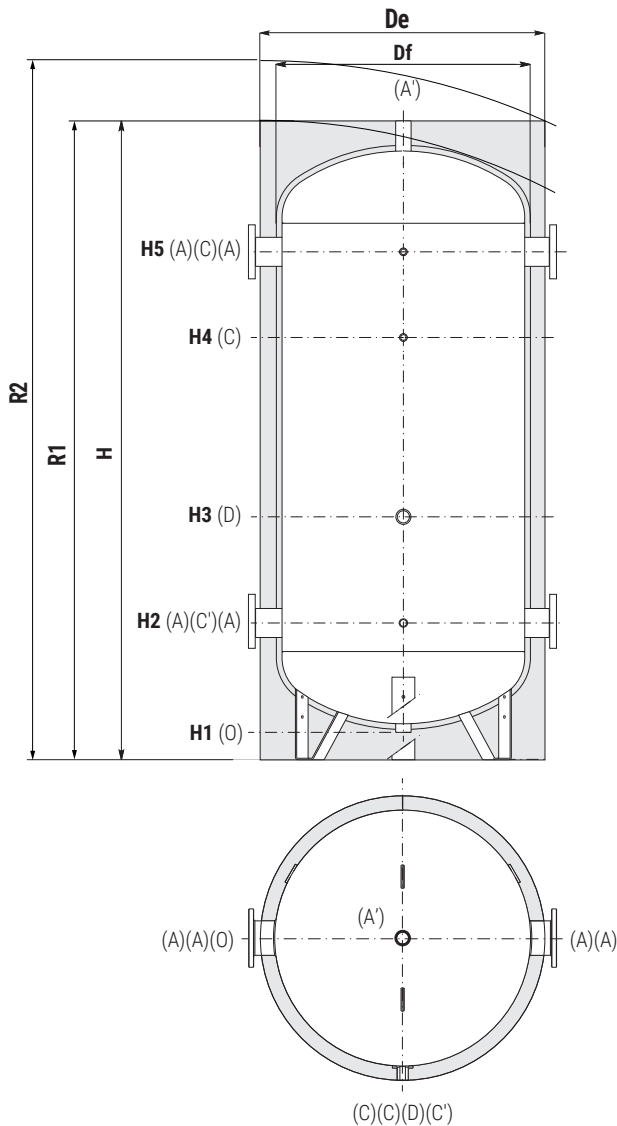
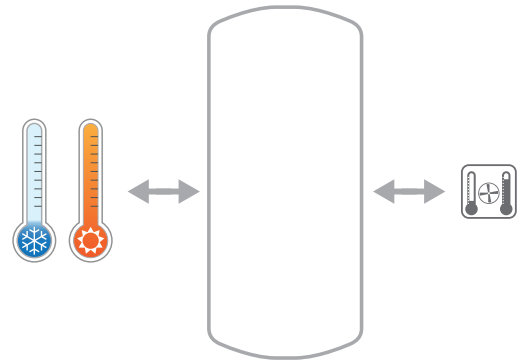
The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

VOLANO BS REVERSO FLANGED INDOOR

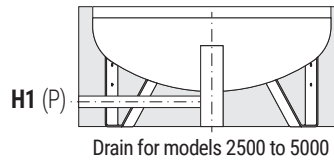
FLOOR STANDING BUFFER TANK IN MILD STEEL WITH DOUBLE INSULATION FOR HEAT PUMP

PRESSURE	TEMPERATURE
Pmax 4 bar	Tmin/Tmax -10 / +90 °C

For installation examples see page 48



- A** System connection
- A'** System connection
- C** Connection for instrumentation G 1/2" F
- D** Connection for electrical integration G 1" 1/2 F
- O** Drain
- P** Drain for models > 2000
- C'** Only for models < 2500



VOLANO BS REVERSO FLANGED INDOOR

Model	Weight [Kg]	Volume [liters]	DF	DE	H	R1	R2	H1	H2	H3	H4	H5	O/P	A'	A
500	77	478	690	910	1805	1940	2030	130	405	705	1205	1455	1" 1/4	1" 1/4	DN80 PN16
800	105	758	790	1010	2085	2240	2330	120	415	815	1415	1715	1" 1/4	1" 1/4	DN80 PN16
1000	141	987	890	1110	2115	2300	2400	105	425	825	1425	1725	1" 1/2	1" 1/2	DN100 PN16
1500	200	1435	990	1250	2445	2650	2760	130	500	930	1710	2010	2"	2"	DN150 PN16
2000	233	1973	1140	1400	2490	2750	2870	105	510	940	1720	2020	2"	2"	DN150 PN16
2500	397	2294	1290	1390	2304	2650	2700	143	682	969	1519	1756	1"	2"	DN150 PN16
3000	432	2988	1440	1540	2378	2790	2840	127	711	998	1448	1785	1"	2"	DN150 PN16
4000	494	3914	1640	1740	2386	2900	2960	105	719	996	1426	1763	1"	2"	DN150 PN16
5000	714	4970	1640	1740	2950	3380	3430	105	719	1166	1991	2293	1"	2"	DN150 PN16

Products designed and manufactured for use within the TEMPERATURE and PRESSURE limits of Art. 4.3 of Directive 2014/68/EU (PED)

VOLANO BS REVERSO FLANGED

FLOOR STANDING BUFFER TANK FOR HEAT PUMP WITH FLANGED CONNECTIONS FOR LARGE INSTALLATIONS



TECHNICAL DESCRIPTION

VOLANO BS REVERSO FLANGED is used in cooling systems to store cold water and also in heating systems to store hot water at high flow rate.

MATERIAL

Mild steel.

APPLICATION

Buffer either for hot or cold water.

ANTI-CORROSION TREATMENT

The anti-corrosion treatment is not necessary being installed in closed systems.

INSULATION

One layer of anti-condensation insulation plus a second layer of polyester fiber, all covered by an aluminium external cover (which can be dissembled to facilitate passage)

EXTERNAL LINING

Aluminium external cover.

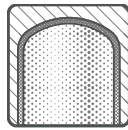
CONNECTION FOR ELECTRIC IMMERSION HEATERS

1"1/2 connection for electric immersion heater.



WARRANTY

5 years - See general terms and conditions.

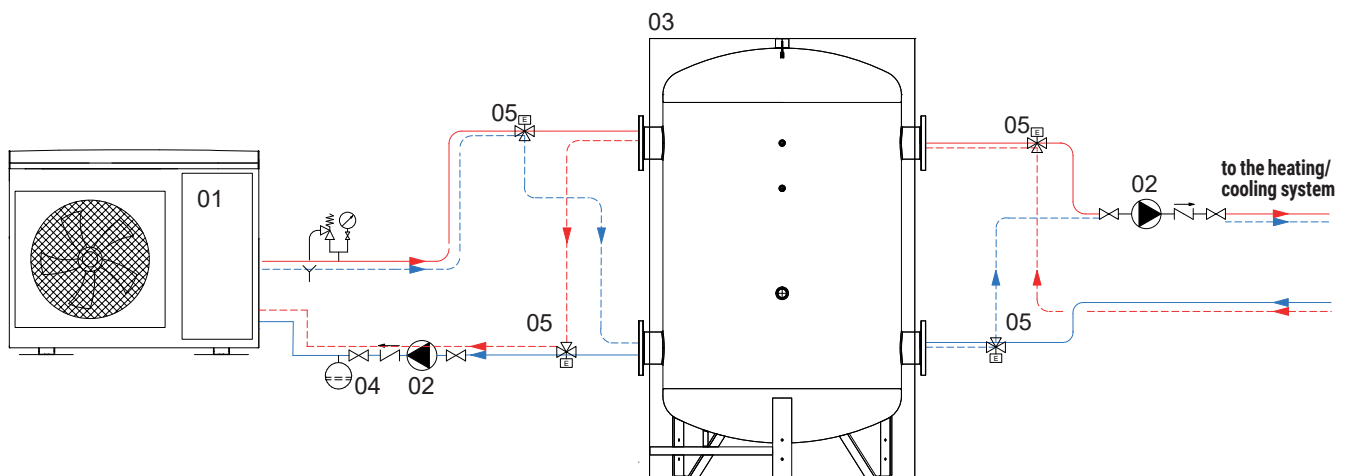
**MILD
STEEL**



**DOUBLE
INSULATION**

	TYPE OF INSTALLATION	MODEL	ART. NR.	PRICE €
 <p>VOLANO BS REVERSO FLANGED GCA MILD STEEL EXTERNAL LINING IN METAL SHEET</p>	 OUTDOOR	2500	3001162310559	6.088,00
		3000	3001162310560	8.332,00
		4000	3001162310561	10.032,00
		5000	3001162310562	11.390,00

EXAMPLE OF INSTALLATION WITH VOLANO BS REVERSO FLANGED



01 Heat pump	03 VOLANO BS REVERSO FLANGED	05 Motorized 3-way valve
02 Circulation group	04 Expansion vessel	

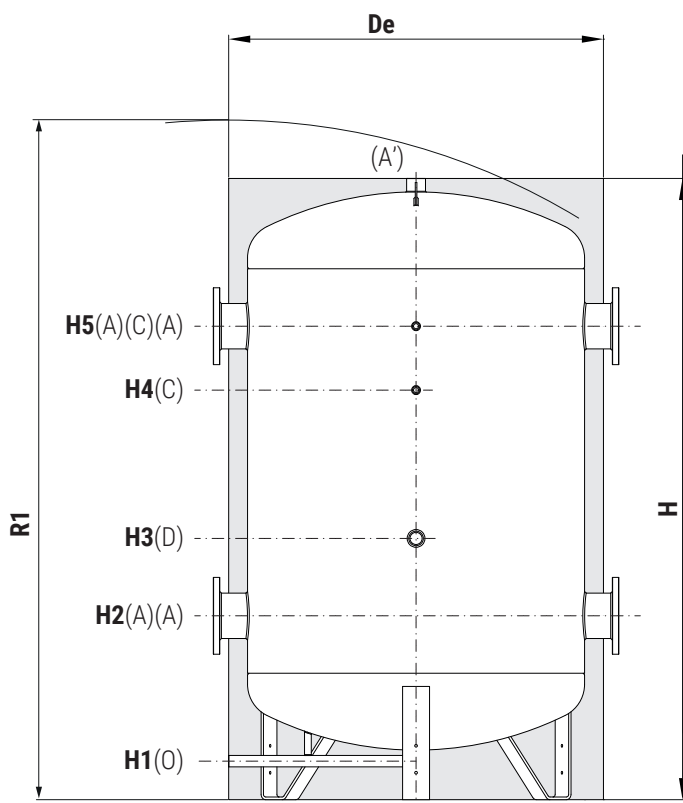
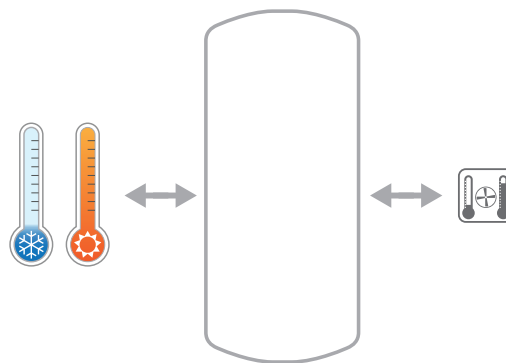
The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

VOLANO BS REVERSO FLANGED

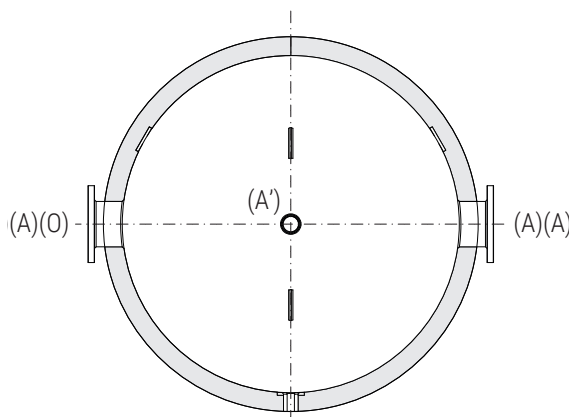
FLOOR STANDING BUFFER TANK FOR HEAT PUMP WITH FLANGED CONNECTIONS FOR LARGE INSTALLATIONS

PRESSURE	TEMPERATURE
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Pmax	Tmin/Tmax
4 bar	-10 / +90 °C



- A** System connection
- A'** System connection
- C** Connection for instrumentation G 1/2" F
- D** Connection for electrical integration G 1" 1/2 F
- O** Drain



VOLANO BS REVERSO FLANGED - GCA

Model	Weight [Kg]	Volume [liters]	De	H	R1	[mm]					A'	A	D
						H1	H2	H3	H4	H5			
2500	397	2294	1390	2304	2630	143	682	969	1519	1756	1"	DN150 PN16	1" 1/2
3000	432	2988	1540	2378	2770	127	711	998	1448	1785	1"	DN150 PN16	1" 1/2
4000	494	3914	1740	2386	2880	105	719	996	1426	1763	1"	DN150 PN16	1" 1/2
5000	714	4970	1740	2950	3360	105	719	1166	1991	2293	1"	DN150 PN16	1" 1/2

Products designed and manufactured for use within the TEMPERATURE and PRESSURE limits of Art. 4.3 of Directive 2014/68/EU (PED)

VOLANO BS REVERSO

FLOOR STANDING BUFFER TANK FOR HEAT PUMP AND OUTDOOR INSTALLATION



TECHNICAL DESCRIPTION

The BS REVERSO thermal buffer tank is used in air conditioning systems for chilled water storage, as well as in heating systems requiring high-flow hot water storage.

MATERIAL

Mild steel with external Painted metal sheet

APPLICATION

Buffer either for hot or cold water.

ANTI-CORROSION TREATMENT

No anti-corrosion treatment is required, as it is connected to closed-loop systems

INSULATION

Polyurethane hard foam with high thermal insulation performance.

EXTERNAL LINING

Pre-painted galvanized Metal sheet, grey color.

CONNECTION FOR ELECTRIC HEATER

1"1/2 connection for electric heater

WARRANTY

5 years - See general terms and conditions.

**MILD
STEEL**



VOLANO BS REVERSO GBL

MILD STEEL

EXTERNAL LINING IN PAINTED METAL SHEET



TYPE OF INSTALLATION

MODEL

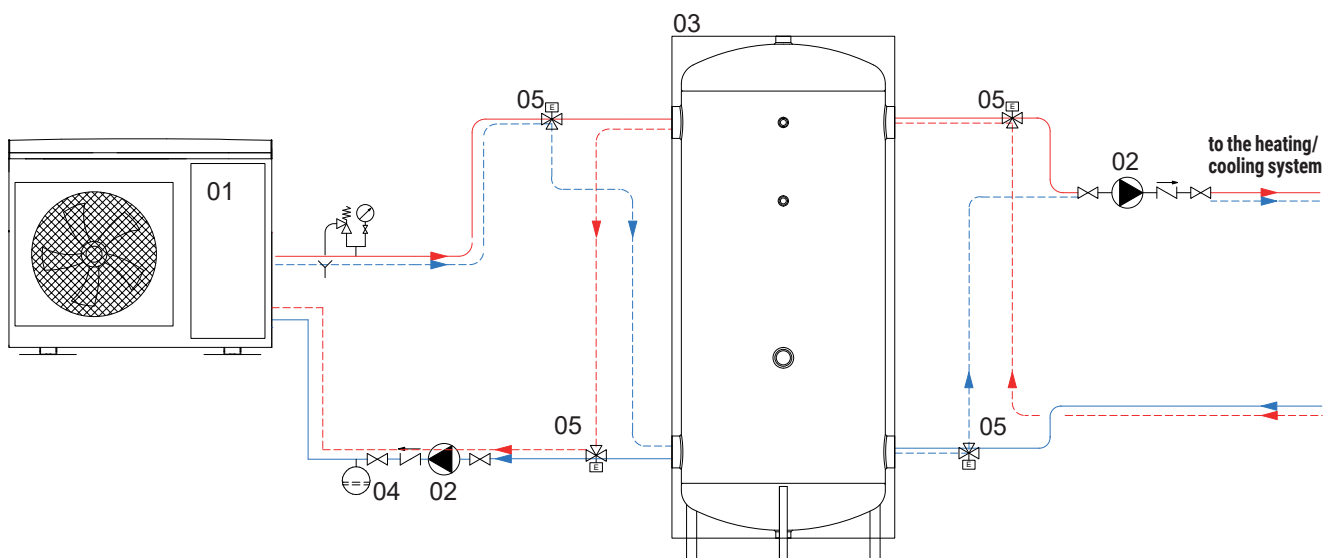
ART. NR.

PRICE €

ENERGY
EFFICIENCY
CLASS

100	3001162310551	466,00	C
200	3001162310552	655,00	C
300	3001162310553	860,00	C
500	3001162310564	1.278,00	C
800	3001162310565	1.820,00	C
1000	3001162310566	2.151,00	C
1500	3001162310567	3.280,00	C
2000	3001162310568	3.943,00	C

EXAMPLE OF INSTALLATION WITH VOLANO BS REVERSO



01 Heat pump

03 VOLANO BS REVERSO

05 Motorized 3-way valve

02 Circulation group

04 Expansion vessel

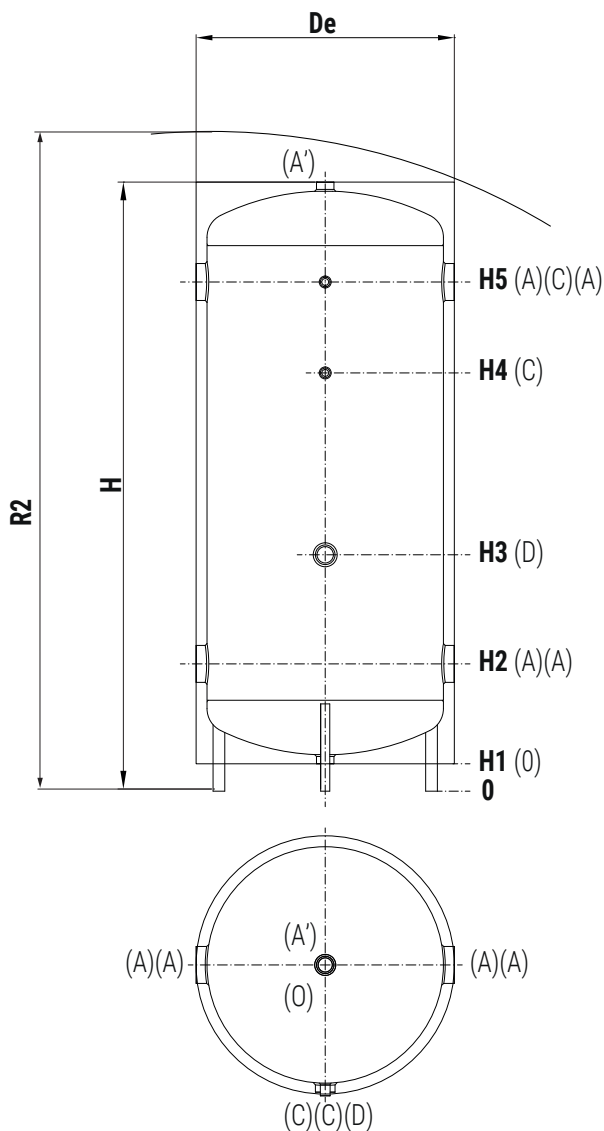
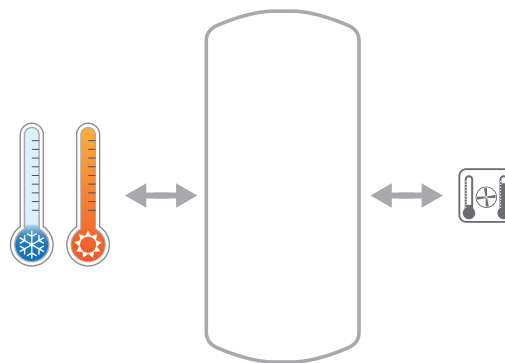
The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

VOLANO BS REVERSO

FLOOR STANDING BUFFER TANK FOR HEAT PUMP AND OUTDOOR INSTALLATION

PRESSURE	TEMPERATURE
----------	-------------

Pmax	Tmin/Tmax
4 bar	-10 / +90 °C



A	System connection
A'	System connection
C	Connection for instrumentation G 1/2" F
D	Connection for electrical integration G 1" 1/2 F
O	Drain

VOLANO BS REVERSO - GBL

Model	Volume [liters]	De	H	R2	[mm]					Connections F	
					H1	H2	H3	H4	H5	A'	A
100	95	460	948	1060	79	258	398	563	763	1"1/4	1"1/2
200	180	510	1336	1440	76	263	503	893	1143	1"1/4	1"1/2
300	279	610	1395	1530	81	315	535	905	1155	1"1/4	2"
500	478	750	1675	1840	81	350	650	1150	1400	1"1/4	3"
800	758	900	1996	2200	87	376	776	1376	1676	1"1/4	3"
1000	987	1000	2035	2280	81	395	795	1395	1695	1"1/2	3"
1500	1435	1100	2366	2620	102	377	807	1587	1887	2"	3"
2000	1973	1300	2436	2770	102	412	842	1622	1922	2"	3"

Products designed and manufactured for use within the TEMPERATURE and PRESSURE limits of Art. 4.3 of Directive 2014/68/EU (PED)

VOLANO BS COOLING-HEATING

HARD-FOAM INSULATED BUFFER TANK IN MILD STEEL FOR COOLING-HEATING SYSTEMS



APPLICATION AND TECHNICAL DESCRIPTION

Storage of chilled or hot water for inverter installations. These buffers have a high thermal insulation and external lining with galvanized and painted metallic cover. The anti-corrosion treatment is not necessary being installed in closed systems. They are suitable for installations that works with cold water during summer and hot water during winter. They also allow to limit the number of on/off switch of the generator (either heat pump, chilled system or standard generator) increasing the thermic inertia of the system and to have more stable temperatures.

MATERIAL

Mild steel

EXTERNAL LINING

Galvanized and painted metallic cover.

INSULATION

High thermal insulation with ecological polyurethane hard foam.

WARRANTY

5 years-See general sales conditions and warranty.

**MILD
STEEL**



VOLANO BS COOLING-HEATING GBL

MILD STEEL
EXTERNAL LINING IN PAINTED METAL SHEET

TYPE OF INSTALLATION

MODEL

ART. NR.

PRICE €

ENERGY
EFFICIENCY
CLASS

100	3001162310501	480,00	C
200	3001162310502	672,00	C
300	3001162310503	880,00	C
500	3001162310524	1.303,00	C
800	3001162310529	1.732,00	C
1000	3001162310530	2.002,00	C
1500	3001162310527	3.328,00	C
2000	3001162310528	4.216,00	C

OUTDOOR



VOLANO BS COOLING-HEATING GBL (B CLASS)

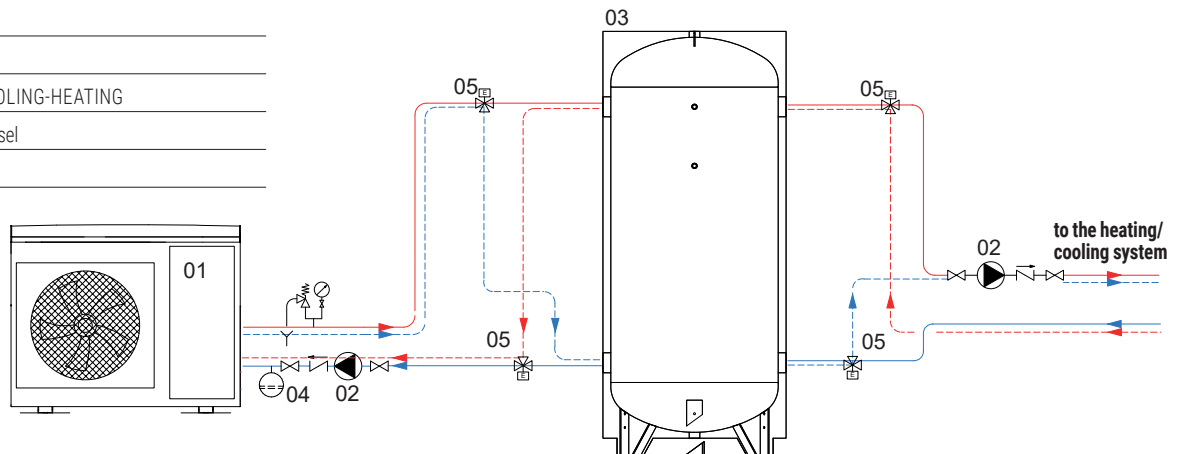
MILD STEEL
EXTERNAL LINING IN PAINTED METAL SHEET

OUTDOOR

800	3001162310525	1.961,00	B
1000	3001162310526	2.450,00	B

EXAMPLE OF INSTALLATION WITH VOLANO BS COOLING-HEATING

- 01 Heat pump
- 02 Circulator
- 03 Volano BS COOLING-HEATING
- 04 Expansion vessel
- 05 3-Way valve

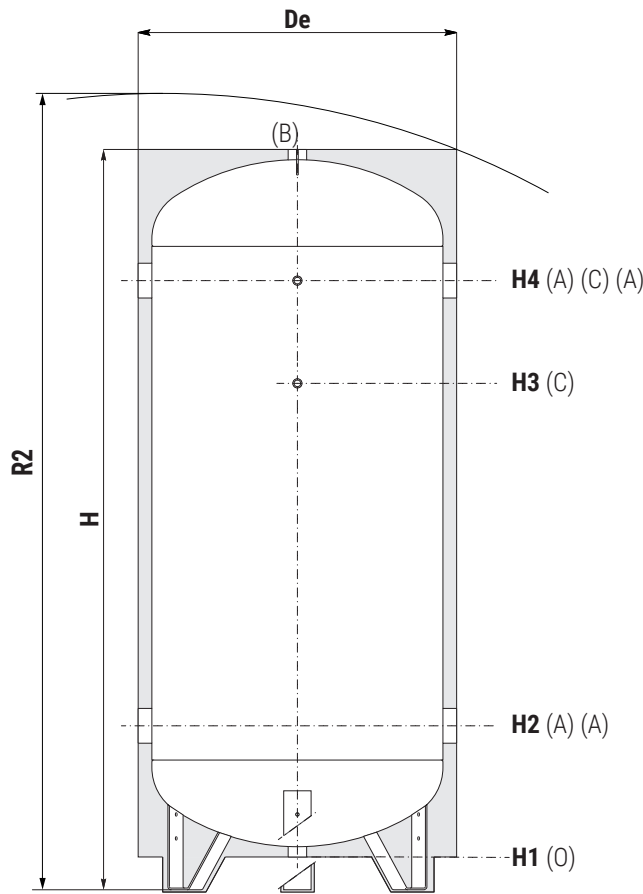
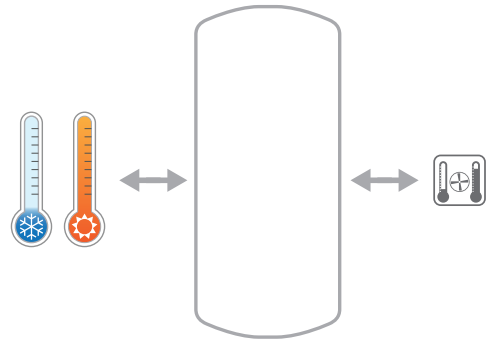


The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

VOLANO BS COOLING-HEATING

HARD-FOAM INSULATED BUFFER TANK IN MILD STEEL FOR COOLING-HEATING SYSTEMS

PRESSURE	TEMPERATURE
Pmax 7 bar	Tmin/Tmax -10 / +90 °C



- A** System connection
- B** Safety valve
- C** Connection for instrumentation G 1/2" F
- O** Drain

VOLANO BS COOLING-HEATING GBL

Model	Weight [Kg]	Volume [liters]	De	H	R2	H1 [mm]	H2	H3	H4	Connections F		
										B-O	A	C
100	32	101	450	1006	1115	73	287	592	792	1"1/4	1"1/2	1/2"
200	53	190	510	1407	1505	68	297	927	1177	1"1/4	1"1/2	1/2"
300	67	292	620	1518	1640	129	404	994	1244	1"1/4	2"	1/2"
500	101	501	750	1790	1945	80	400	1200	1450	1"1/4	3"	1/2"
800	147	788	850	2100	2270	80	430	1437	1730	1"1/4	3"	1/2"
1000	170	1034	950	2166	2370	80	463	1463	1763	1"1/2	3"	1/2"
1500	183	1432	1100	2366	2615	100	471	1681	1981	2"	3"	1/2"
2000	219	1970	1300	2436	2770	100	506	1716	2016	2"	3"	1/2"

VOLANO BS COOLING-HEATING GBL (B CLASS)

800 (B)	147	788	900	2100	2290	80	430	1437	1730	1"1/4	3"	1/2"
1000 (B)	170	1034	1000	2166	2390	80	463	1463	1763	1"1/2	3"	1/2"

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VOLANO BS COOLING-HEATING

HARD-FOAM INSULATED BUFFER TANK WITH INTERNAL POLYWARM® COATING FOR COOLING-HEATING SYSTEMS



APPLICATION AND TECHNICAL DESCRIPTION

Storage of chilled or hot water for inverter installations. These buffers have a high thermal insulation and external lining with galvanized and painted metallic cover. They are suited for installations that works with cold water during summer and hot water during winter. They also allow to limit the number of switch on/off of the generator (either heat pump, chilled system or standard generator) increasing the thermic inertia of the system and to have more stable temperatures.

MATERIAL

Internal Polywarm® finishing.

EXTERNAL LINING

Galvanized and painted metallic cover.

INSULATION

High thermal insulation with ecological polyurethane hard foam.

WARRANTY

5 years-See general sales conditions and warranty.



VOLANO BS COOLING-HEATING WBL

INTERNAL POLYWARM® FINISHING
EXTERNAL LINING IN PAINTED METAL SHEET

TYPE OF INSTALLATION



MODEL

ART. NR.

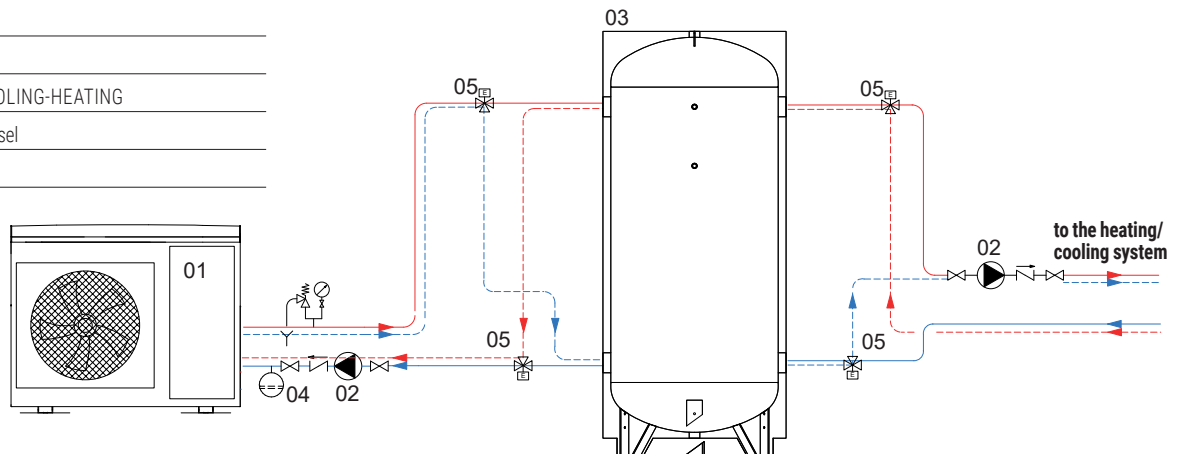
PRICE €

ENERGY EFFICIENCY CLASS

100	3001162330001	684,00	C
200	3001162330002	886,00	C
300	3001162330003	1.125,00	C
500	3001162330004	1.549,00	C
800	3001162330005	2.070,00	C
1000	3001162330006	2.499,00	C

EXAMPLE OF INSTALLATION WITH VOLANO BS COOLING-HEATING

- 01 Heat pump
- 02 Circulator
- 03 Volano BS COOLING-HEATING
- 04 Expansion vessel
- 05 3-Way valve

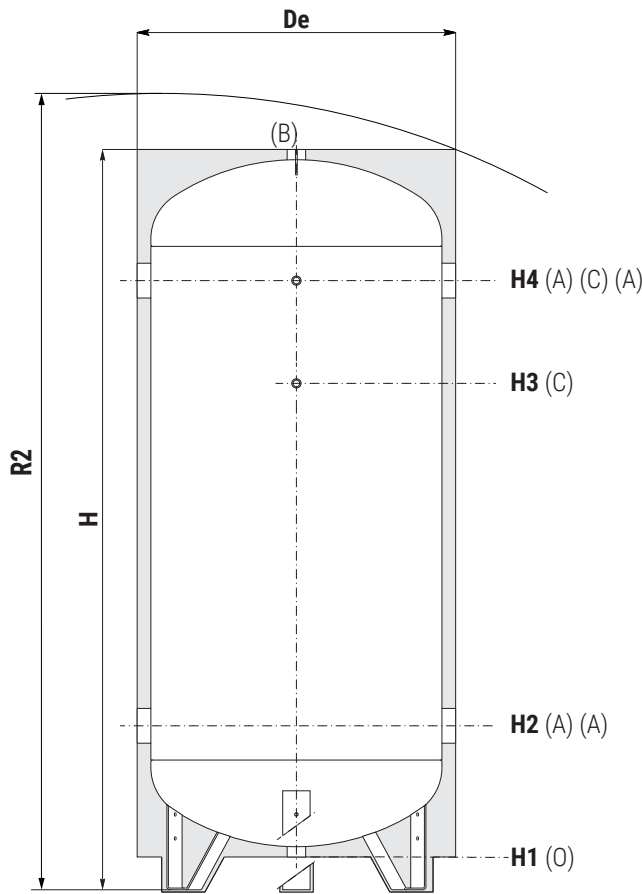
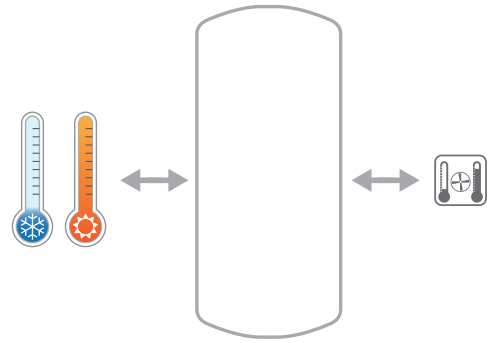


The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

VOLANO BS COOLING-HEATING

HARD-FOAM INSULATED BUFFER TANK WITH INTERNAL POLYWARM® COATING FOR COOLING-HEATING SYSTEMS

PRESSURE	TEMPERATURE
Pmax 7 bar	Tmin/Tmax -10 / +90 °C



- A** System connection
- B** Safety valve
- C** Connection for instrumentation G 1/2" F
- O** Drain

VOLANO BS COOLING-HEATING WBL

Model	Weight [Kg]	Volume [liters]	De	H	R2	H1	H2	H3	H4	B-O	A	C
						[mm]				Connections F		
100	32	99	450	1010	1110	78	292	597	792	1"1/4	1"1/2	1/2"
200	53	187	510	1410	1505	73	302	932	1177	1"1/4	1"1/2	1/2"
300	67	288	620	1520	1650	134	409	999	1244	1"1/4	2"	1/2"
500	101	496	750	1795	1985	85	404	1204	1454	1"1/4	3"	1/2"
800	147	788	850	2100	2305	85	371	1371	1671	1"1/4	3"	1/2"
1000	170	1034	950	2190	2435	105	483	1483	1783	1"1/2	3"	1/2"

Products designed and manufactured for use within the TEMPERATURE and PRESSURE limits of Art. 4.3 of Directive 2014/68/EU (PED)

VOLANO BS COOLING-HEATING

HARD-FOAM INSULATED STAINLESS STEEL BUFFER TANK FOR COOLING-HEATING SYSTEMS



APPLICATION AND TECHNICAL DESCRIPTION

Storage of chilled water for cooling systems. These buffers have rigid insulation and external galvanized and painted metallic cover. They are used to increase the thermal inertia and, for those installations with low water-capacity, avoiding that the chilling generator is continuously working.

EXTERNAL LINING

Galvanized and painted metallic cover.

MATERIAL

Stainless steel

INSULATION

High thermal insulation with ecological polyurethane hard foam.

WARRANTY

5 years-See general sales conditions and warranty.

**STAINLESS
STEEL**



VOLANO BS COOLING-HEATING XBL

STAINLESS STEEL
EXTERNAL LINING IN PAINTED METAL SHEET

TYPE OF INSTALLATION



MODEL

ART. NR.

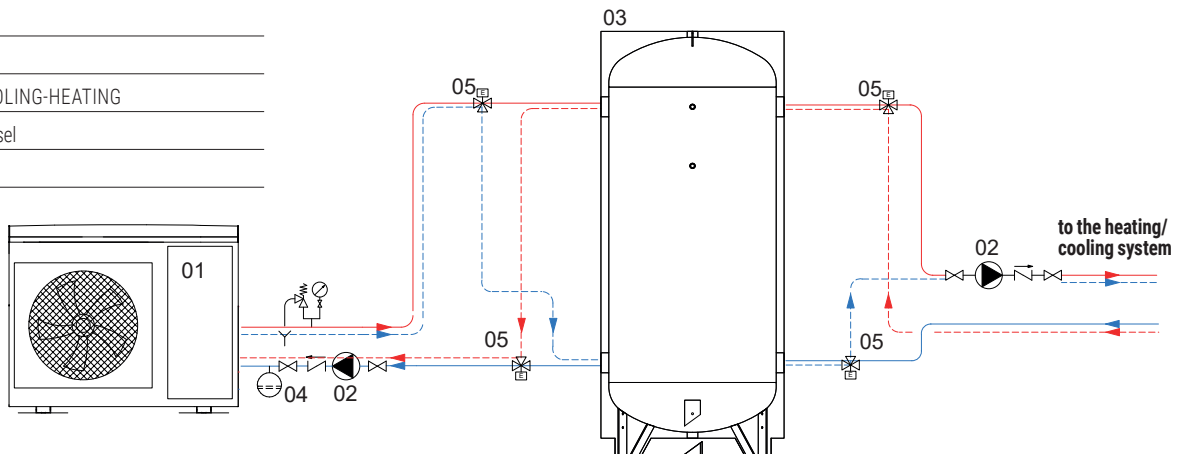
PRICE €

ENERGY
EFFICIENCY
CLASS

100	3001012310001	1.192,00	C
200	3001012310002	1.455,00	C
300	3001012310003	1.845,00	C
500	3001012310004	2.851,00	C
800	3001012310005	3.986,00	C
1000	3001012310006	5.032,00	C

EXAMPLE OF INSTALLATION WITH VOLANO BS COOLING-HEATING

- 01 Heat pump
- 02 Circulator
- 03 Volano BS COOLING-HEATING
- 04 Expansion vessel
- 05 3-Way valve

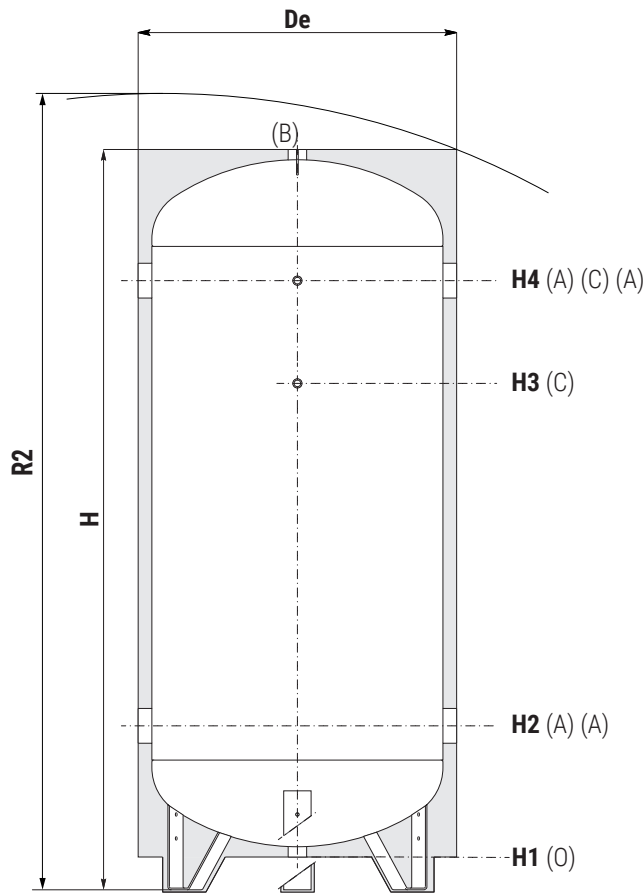
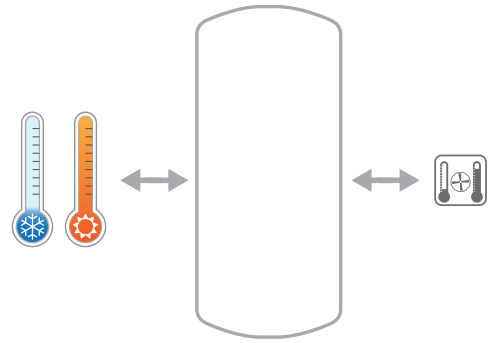


The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

VOLANO BS COOLING-HEATING

HARD-FOAM INSULATED STAINLESS STEEL BUFFER TANK FOR COOLING-HEATING SYSTEMS

PRESSURE	TEMPERATURE
Pmax 7 bar	Tmin/Tmax -30 / +90 °C



- A** System connection
- B** Safety valve
- C** Connection for instrumentation G 1/2" F
- O** Drain

VOLANO BS COOLING-HEATING XBL

Model	Weight [Kg]	Volume [liters]	De	H	R2	H1	H2	H3	H4	B-O	A	C
						[mm]				Connections F		
100	32	99	450	1010	1110	78	292	597	792	1"1/4	1"1/2	1/2"
200	53	187	510	1410	1505	73	302	932	1177	1"1/4	1"1/2	1/2"
300	67	288	620	1520	1650	134	409	999	1244	1"1/4	2"	1/2"
500	101	496	750	1795	1985	85	404	1204	1454	1"1/4	3"	1/2"
800	147	788	850	2100	2305	85	371	1371	1671	1"1/4	3"	1/2"
1000	170	1034	950	2190	2435	105	483	1483	1783	1"1/2	3"	1/2"

Products designed and manufactured for use within the TEMPERATURE and PRESSURE limits of Art. 4.3 of Directive 2014/68/EU (PED)

CHILLED WATER STORAGE TANK ZBL

VERTICAL GALVANIZED CHILLED WATER TANK



APPLICATION AND TECHNICAL DESCRIPTION

Storage of chilled water for cooling systems. These buffers have rigid insulation and external galvanized and painted metallic cover. They are used to increase the thermal inertia and, for those installations with low water-capacity, avoiding that the chilling generator is continuously working.

EXTERNAL LINING

Galvanized and painted metallic cover.

MATERIAL

Galvanized mild steel

INSULATION

High thermal insulation with ecological polyurethane hard foam.

WARRANTY

5 years- See general sales conditions and warranty.

GALVANISED



CHILLED WATER STORAGE TANK ZBL

GALVANIZED MILD STEEL

EXTERNAL LINING IN PAINTED METAL SHEET

TYPE OF INSTALLATION



OUTDOOR

MODEL ART. NR. PRICE €

100 3001162310001 574,00

200 3001162310002 772,00

300 3001162310003 1.050,00

500 3001162310004 1.430,00

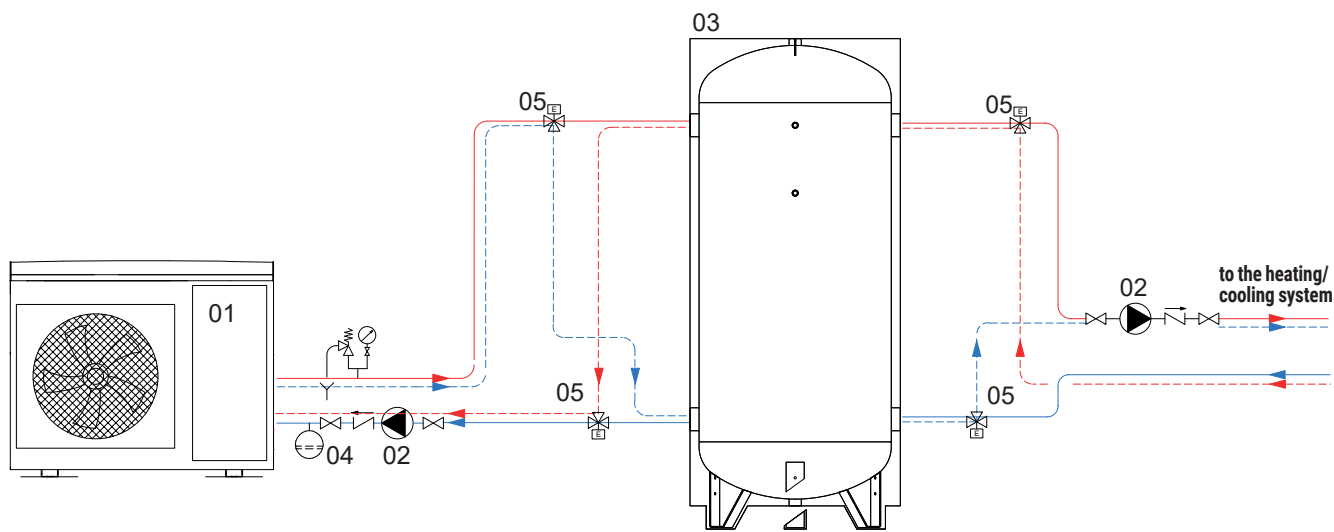
800 3001162310005 2.038,00

1000 3001162310006 2.460,00

1500 3001162310007 4.025,00

2000 3001162310008 4.900,00

EXAMPLE OF INSTALLATION WITH CHILLED WATER STORAGE TANK ZBL



- 01 Heat pump
- 02 Circulator
- 03 CHILLED WATER STORAGE TANK
- 04 Expansion vessel
- 05 3-Way valve

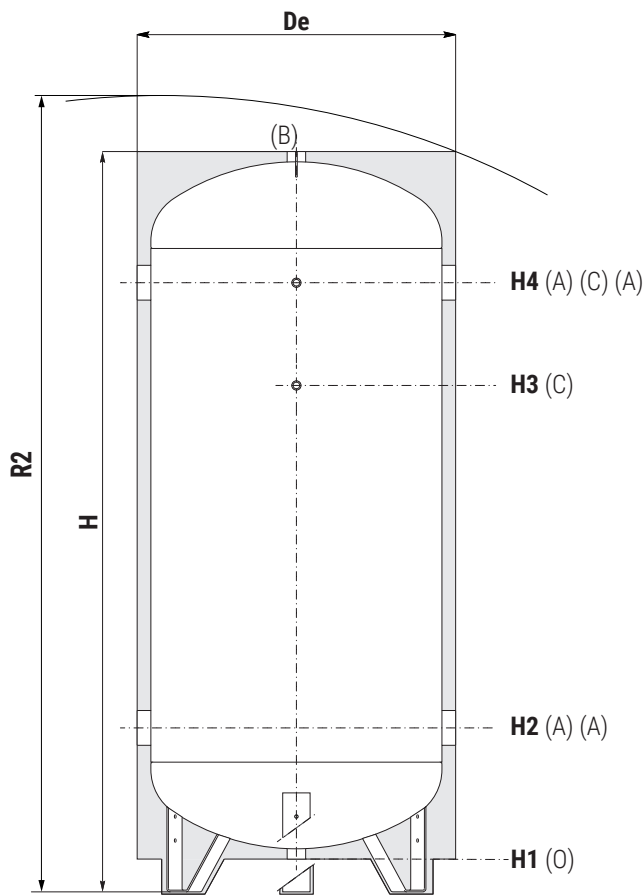
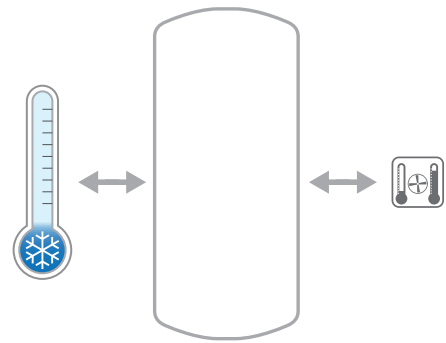
The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

CHILLED WATER STORAGE TANK ZBL

VERTICAL GALVANIZED CHILLED WATER TANK

PRESSURE	TEMPERATURE
Pmax	Tmin/Tmax
7 bar	-10 / +60 °C

For installation examples see page 48



- A** System connection
- B** Safety valve
- C** Connection for instrumentation G 1/2" F
- O** Drain

CHILLED WATER STORAGE TANK ZBL

Model	Weight	Volume	De	H	R2	H1	H2	H3	H4	B-O	A	C
	[Kg]	[liters]										
100	32	99	450	1010	1110	73	287	592	792	1"1/4	1"1/2	1/2"
200	53	187	510	1410	1505	68	297	927	1177	1"1/4	1"1/2	1/2"
300	67	288	620	1520	1650	129	404	994	1244	1"1/4	2"	1/2"
500	101	496	730	1810	1960	121	441	1241	1491	1"1/4	3"	1/2"
800	147	788	830	2105	2270	113	458	1458	1758	1"1/4	3"	1/2"
1000	170	1034	940	2165	2365	96	479	1479	1779	1"1/2	3"	1/2"
1500	183	1432	1130	2355	2620	102	471	1681	1981	2"	3"	1/2"
2000	219	1970	1280	2425	2750	102	506	1716	2016	2"	3"	1/2"

Products designed and manufactured for use within the TEMPERATURE and PRESSURE limits of Art. 4.3 of Directive 2014/68/EU (PED)

CHILLED WATER STORAGE TANK GC/ZC VT

VERTICAL NOT TREATED CHILLED WATER TANK



APPLICATION AND TECHNICAL INFORMATION

The CHILLED WATER STORAGE TANK GC/ZC 20 VT are designed to be installed in air conditioning systems in order to increase inertia and, in those with a low water content, to minimise the number of starts per hour of the refrigeration unit in order to safeguard its life. Finishing and materials

- Mild steel painted on the outside, internally untreated.
- Mild steel with hot-dip galvanising treatment to protect all surfaces.

EXTERNAL LINING

Blue PVC with plastic black caps for connections.

INSULATION

20 mm fixed polyethylene anti-condensation.

Not self-extinguishing version. Not removable from the tank.



WARRANTY



5 years - See general terms and conditions.

MILD STEEL

GALVANISED

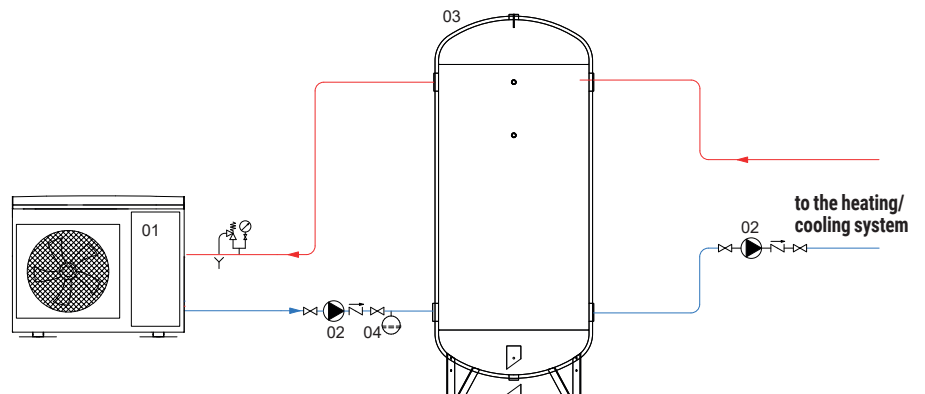


	TYPE OF INSTALLATION	MODEL	ART. NR.	PRICE €
 <p>CHILLED WATER STORAGE TANK GC VT MILD STEEL EXTERNAL LINING IN BLUE PVC</p>  <p>INDOOR</p>		100	3001162131101	422,00
		200	3001162131102	547,00
		300	3001162131103	686,00
		500	3001162131104	1.018,00
		800	3001162131105	1.520,00
		1000	3001162131106	1.866,00
		1500	3001162131107	2.457,00
		2000	3001162131108	3.115,00
		2500	3001162131113	3.610,00
		3000	3001162131109	4.275,00
	4000	3001162131110	5.814,00	
	5000	3001162131112	7.201,00	

 <p>CHILLED WATER STORAGE TANK ZC VT MILD STEEL GALVANIZED EXTERNAL LINING IN BLUE PVC</p>  <p>INDOOR</p>		100	3001162130001	487,00
		200	3001162130002	658,00
		300	3001162130003	868,00
		500	3001162130004	1.229,00
		800	3001162130005	1.888,00
		1000	3001162130006	2.147,00
		1500	3001162130107	3.085,00
		2000	3001162130108	3.870,00
		2500	3001162130113	5.205,00
		3000	3001162130109	5.468,00
	4000	3001162130110	9.090,00	
	5000	3001162130112	10.987,00	

EXAMPLE OF INSTALLATION WITH CHILLED WATER STORAGE TANK GC/ZC VT

- 01 Thermal generator
- 02 Circulator
- 03 CHILLED WATER STORAGE TANK GC/ZC VT
- 04 Expansion vessel

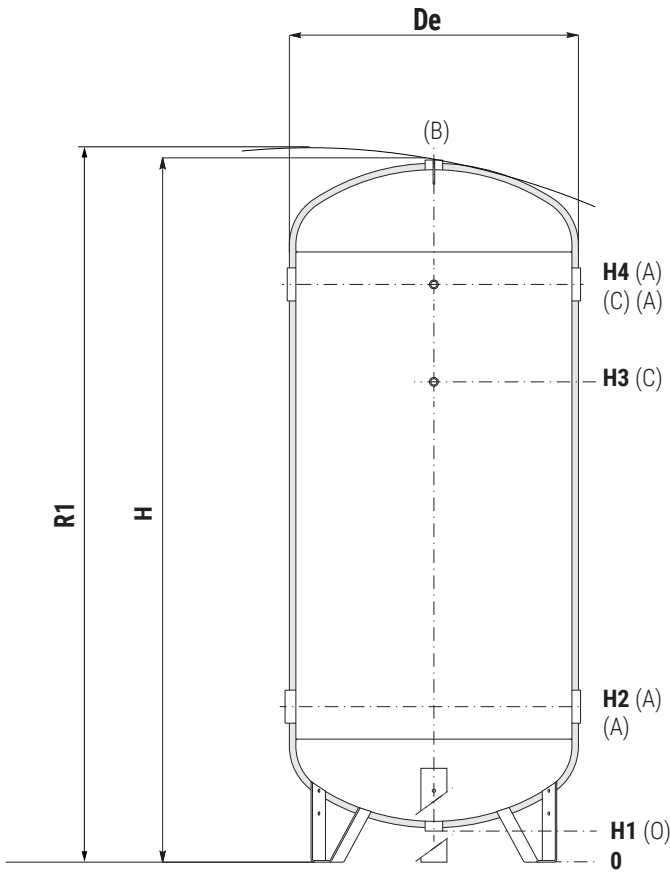
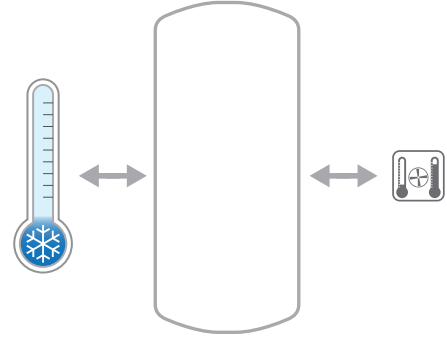


The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

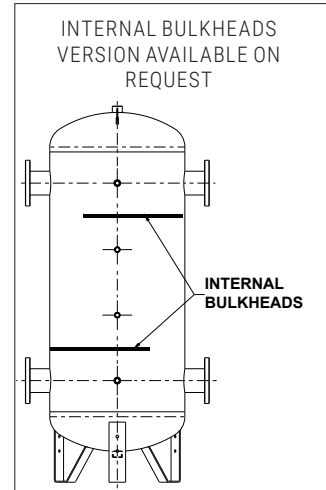
CHILLED WATER STORAGE TANK GC/ZC VT

VERTICAL NOT TREATED CHILLED WATER TANK

	PRESSURE	TEMPERATURE
	Pmax	Tmin/Tmax
GALVANIZED	7 bar	-10 / +60 °C
MILD STEEL	7 bar	-10 / +90 °C



- A** To the System
- B** Safety Valve
- C** Connection for instrumentation 1/2" G F
- O** Drain



Products designed and manufactured for use within the TEMPERATURE and PRESSURE limits of Art. 4.3 of Directive 2014/68/EU (PED)

CHILLED WATER STORAGE TANK GC/ZC VT

Model	Weight [Kg]	Volume [liters]	DE	H	R1	H1 [mm]	H2	H3	H4	B-O	A	C
100	32	101	440	1006	1017	73	287	592	792	1"1/4	1"1/2	1/2"
200	53	190	490	1407	1415	68	297	927	1177	1"1/4	1"1/2	1/2"
300	67	292	590	1518	1529	129	404	994	1244	1"1/4	2"	1/2"
500	101	501	690	1810	1821	121	441	1241	1491	1"1/4	3"	1/2"
800	147	788	790	2108	2119	108	458	1458	1758	1"1/4	3"	1/2"
1000	170	1034	890	2162	2178	96	479	1479	1779	1"1/2	3"	1/2"
1500	183	1432	990	2351	2386	121	490	1700	2000	2"	3"	1/2"
2000	219	1970	1140	2421	2437	105	509	1719	2019	2"	3"	1/2"
2500	274	2300	1290	2289	2304	149	619	1519	1819	2"	4"	1/2"
3000	321	2908	1290	2804	2826	149	619	1919	2319	2"	4"	1/2"
4000	442	3749	1440	2878	2904	133	648	1948	2348	2"	4"	1/2"
5000	565	4964	1640	2916	2948	111	656	1956	2356	2"	4"	1/2"

CHILLED WATER STORAGE TANK GC/ZC OR

HORIZONTAL NOT TREATED CHILLED WATER TANK



APPLICATION AND TECHNICAL INFORMATION

The CHILLED WATER STORAGE TANK GC/ZC OR are designed to be installed in air conditioning systems in order to increase inertia and, in those with a low water content, to minimise the number of starts per hour of the refrigeration unit in order to safeguard its life.

FINISHING AND MATERIALS

- Mild steel painted on the outside, internally untreated.
- Mild steel with hot-dip galvanising treatment to protect all surfaces.

EXTERNAL LINING

Blue PVC with plastic black caps for connections.

INSULATION

20 mm fixed polyethylene anti-condensation.

Not self-extinguishing version. Not removable from the tank.

WARRANTY

5 years - See general terms and conditions.

**MILD
STEEL**

GALVANISED



CHILLED WATER STORAGE TANK GC OR

MILD STEEL
EXTERNAL LINING IN BLUE PVC



TYPE OF INSTALLATION

MODEL

ART. Nr.

PRICE €

100	3001161031001	480,00
200	3001161031002	644,00
300	3001161031003	805,00
500	3001161031004	1.095,00
800	3001161031005	1.636,00
1000	3001161031006	2.020,00
1500	3001161031007	2.660,00
2000	3001161031008	3.375,00
2500	3001161031013	4.034,00
3000	3001161031009	4.625,00
4000	3001161031010	6.426,00
5000	3001161031012	8.065,00



CHILLED WATER STORAGE TANK ZC OR

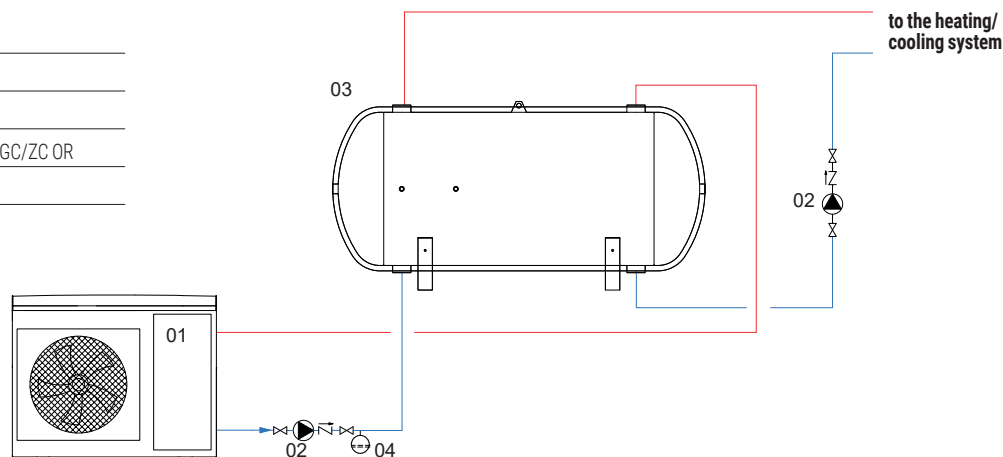
GALVANISED MILD STEEL
EXTERNAL LINING IN BLUE PVC



100	3001161030001	557,00
200	3001161030002	779,00
300	3001161030003	947,00
500	3001161030004	1.330,00
800	3001161030005	2.041,00
1000	3001161030006	2.318,00
1500	3001161030107	3.334,00
2000	3001161030108	4.194,00
2500	3001161030113	5.622,00
3000	3001161030109	5.890,00
4000	3001161030110	9.844,00
5000	3001161030112	11.898,00

EXAMPLE OF INSTALLATION WITH CHILLED WATER STORAGE TANK GC/ZC OR

01	Heat pump
02	Circulator
03	CHILLED WATER STORAGE TANK GC/ZC OR
04	Expansion vessel



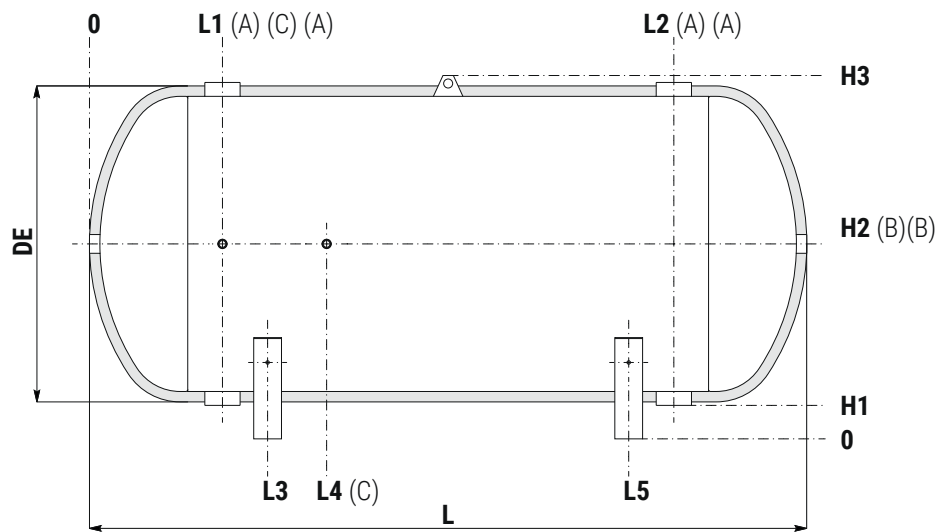
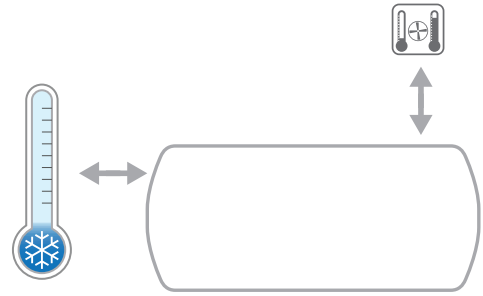
The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

CHILLED WATER STORAGE TANK GC/ZC OR

HORIZONTAL NOT TREATED CHILLED WATER TANK

	PRESSURE	TEMPERATURE
	Pmax	Tmin/Tmax

GALVANIZED	7 bar	-10 / +60 °C
MILD STEEL	7 bar	-10 / +90 °C



- A** System connections
- B** Safety valve/Auxiliary connection
- C** Connection for instrumentation G 1/2" F

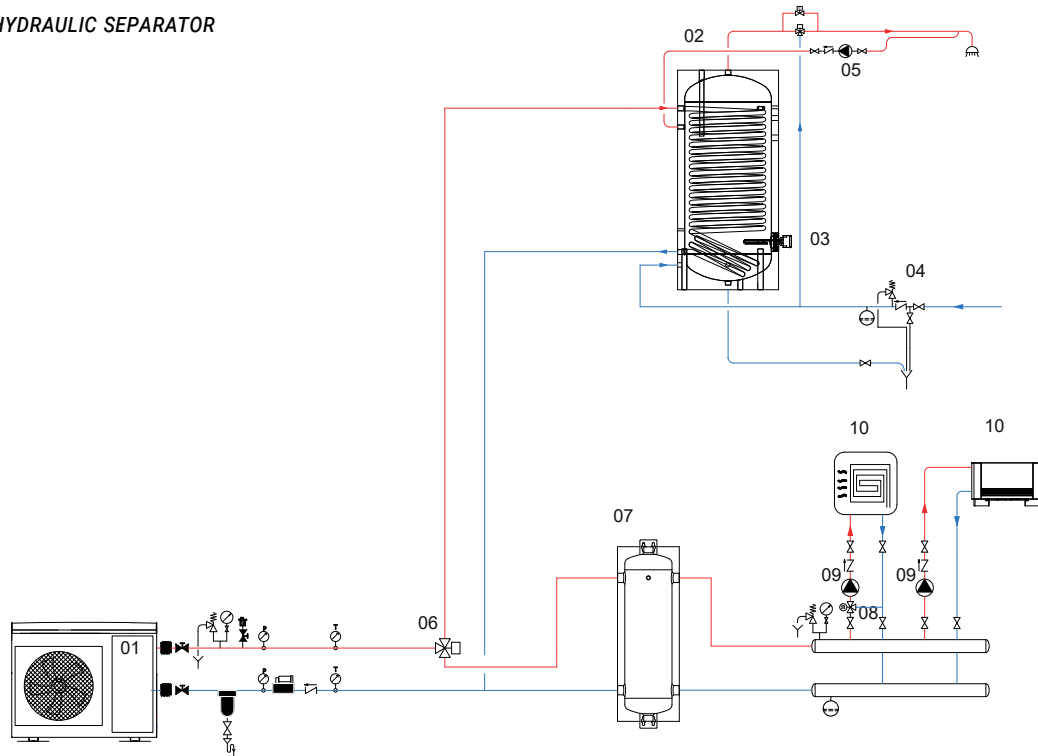
CHILLED WATER STORAGE TANK GC/ZC OR

Art. Nr.	Weight [Kg]	Volume [liters]	DE	L	L1	L2	L3	L4	L5	H1	H2	H3	Connections F		
													B	A	C
100	32	99	440	934	215	720	290	415	645	63	293	523	1"1/4	1"1/2	1/2"
200	53	187	490	1339	230	1110	335	480	1005	61	316	571	1"1/4	1"1/2	1/2"
300	68	288	590	1389	275	1115	365	525	1025	115	425	760	1"1/4	2"	1/2"
500	102	496	690	1689	320	1370	415	570	1275	107	472	857	1"1/4	3"	1/2"
800	148	788	790	2000	350	1650	480	650	1520	101	516	951	1"1/4	3"	1/2"
1000	170	1034	890	2066	383	1683	513	683	1553	96	561	1046	1"1/2	3"	1/2"
1500	184	1432	990	2250	370	1880	505	670	1745	82	597	1142	2"	3"	1/2"
2000	220	1970	1140	2320	405	1915	525	705	1795	73	663	1283	2"	3"	1/2"
2500	284	2300	1290	2140	470	1670	620	770	1520	154	829	1524	2"	4"	1/2"
3000	330	2908	1290	2640	470	2170	620	870	2020	154	829	1524	2"	4"	1/2"
4000	452	3749	1440	2730	515	2215	665	915	2065	142	892	1662	2"	4"	1/2"
5000	574	4964	1640	2790	545	2245	695	945	2095	125	975	1845	2"	4"	1/2"

VOLANO UP - EXAMPLES OF INSTALLATION

EXAMPLE OF INSTALLATION WITH VOLANO UP 4 CONNECTIONS

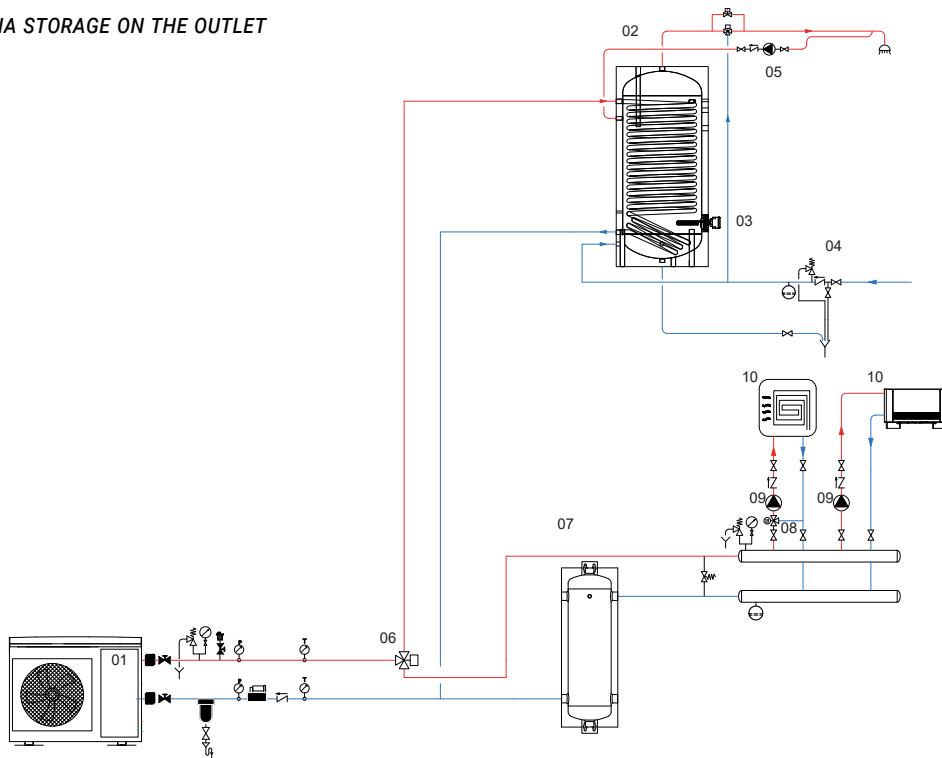
INSTALLED AS HYDRAULIC SEPARATOR



01 Heat pump	04 Hydraulic safety group	07 Volano UP 4 connections	10 Terminals
02 Buffer tank	05 DHW recirculation circulator	08 Thermostatic mixing valve	
03 Electric heater	06 Motorized 3-Way valve	09 Air-conditioning system circulator	

EXAMPLE OF INSTALLATION WITH VOLANO UP 4 CONNECTIONS

INSTALLED AS INERTIA STORAGE ON THE OUTLET



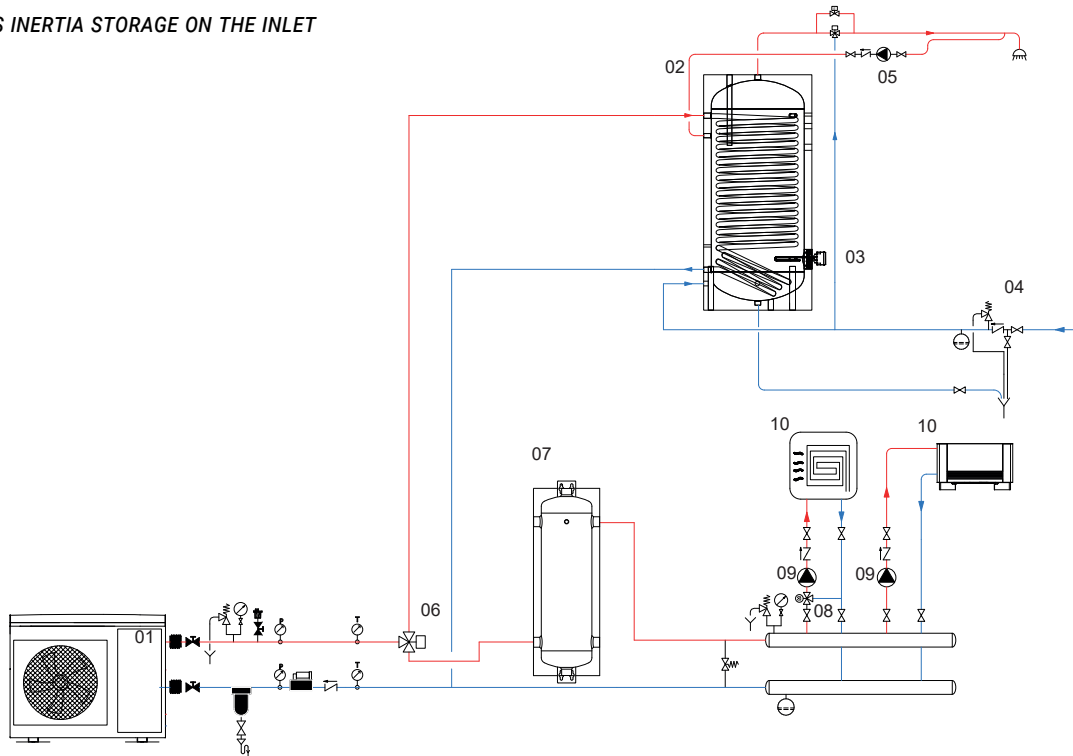
01 Heat pump	04 Hydraulic safety group	07 Volano UP 4 connections	10 Terminals
02 Buffer tank	05 DHW recirculation circulator	08 Thermostatic mixing valve	
03 Electric heater	06 Motorized 3-Way valve	09 Air-conditioning system circulator	

The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

VOLANO UP - EXAMPLES OF INSTALLATION

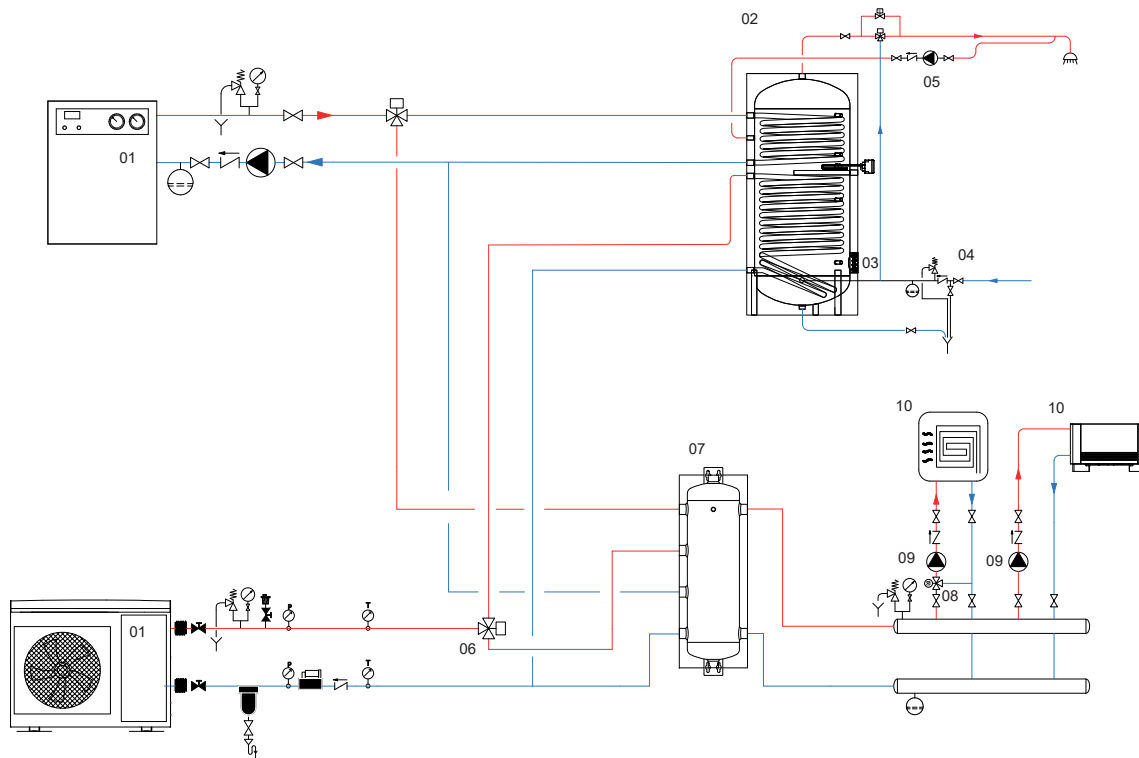
EXAMPLE OF INSTALLATION WITH VOLANO UP 4 CONNECTIONS

INSTALLED AS INERTIA STORAGE ON THE INLET



01 Heat pump	04 Hydraulic safety group	07 Volano termico UP 4 connessioni	10 Terminals
02 Buffer tank	05 DHW recirculation circulator	08 Thermostatic mixing valve	
03 Electric heater	06 Motorized 3-Way valve	09 Air-conditioning system circulator	

EXAMPLE OF INSTALLATION WITH VOLANO UP 6 CONNECTIONS

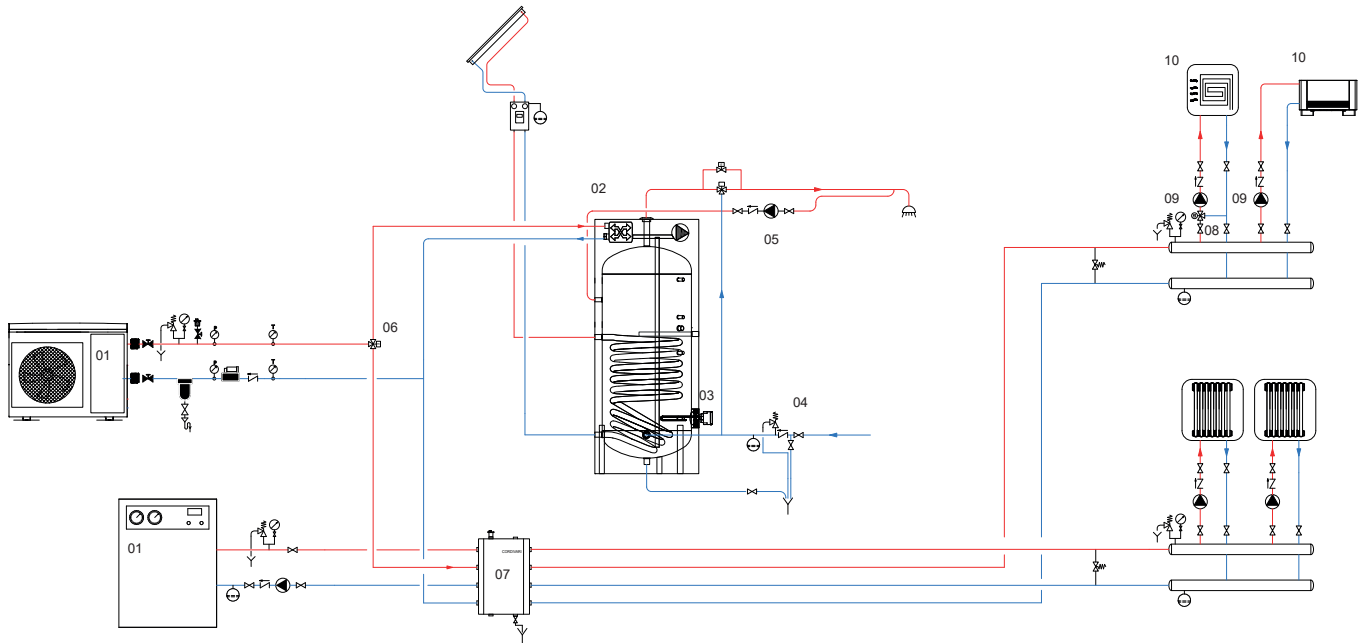


01 Heat pump	04 Hydraulic safety group	07 Volano termico UP 6 connessioni	10 Terminals
02 Buffer tank	05 DHW recirculation circulator	08 Thermostatic mixing valve	
03 Electric heater	06 Motorized 3-Way valve	09 Air-conditioning system circulator	

The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

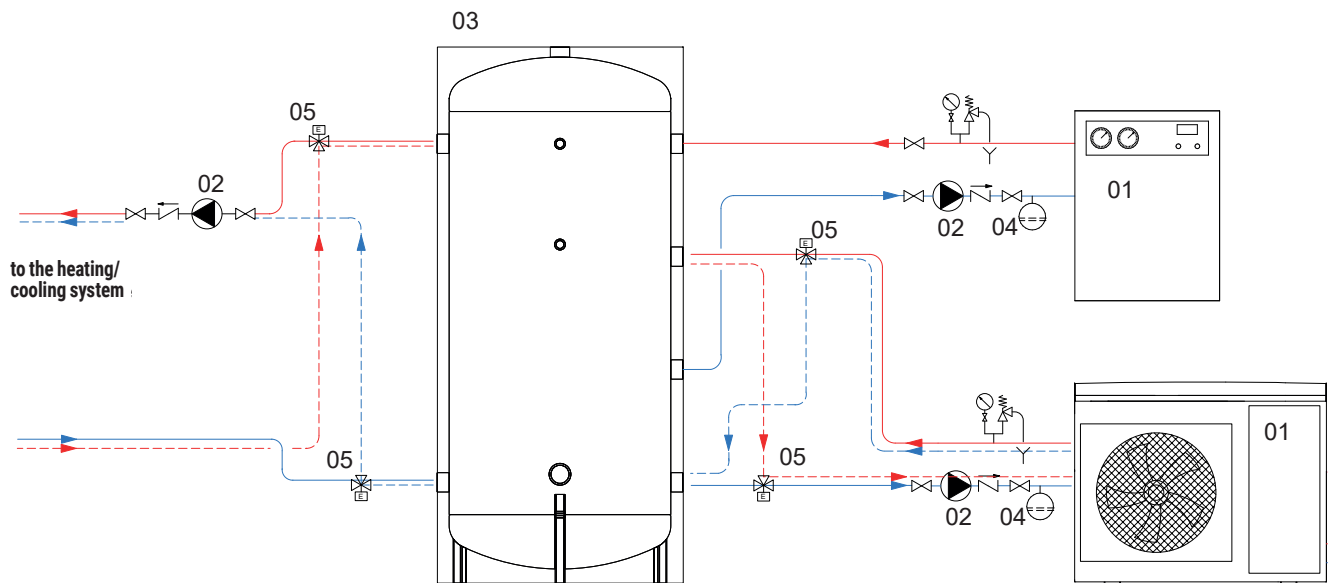
VOLANO BS - EXAMPLES OF INSTALLATION

EXAMPLE OF INSTALLATION WITH VOLANO CUBE



01 Heat pump/Generator	04 Hydraulic safety group	07 Volano CUBE	10 Terminals
02 Bolly® 2 PDC	05 DHW recirculation circulator	08 Thermostatic mixing valve	
03 Electric heater	06 Motorized 3-Way valve	09 Air-conditioning system circulator	

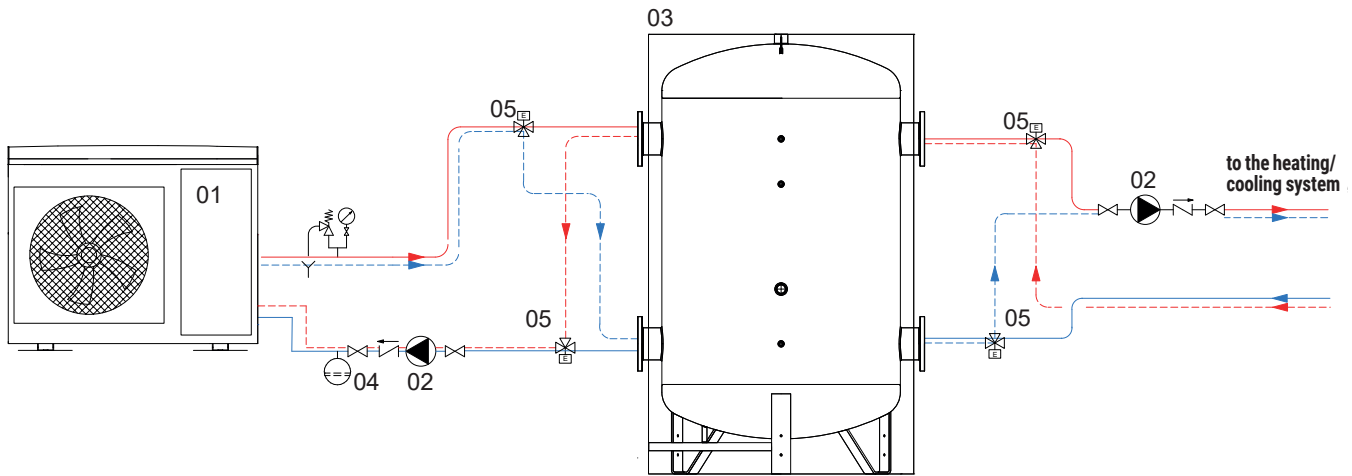
EXAMPLE OF INSTALLATION WITH VOLANO BS



01 Heat pump/Generator	03 Volano BS	05 3-Way valve
02 Circulator	04 Expansion vessel	

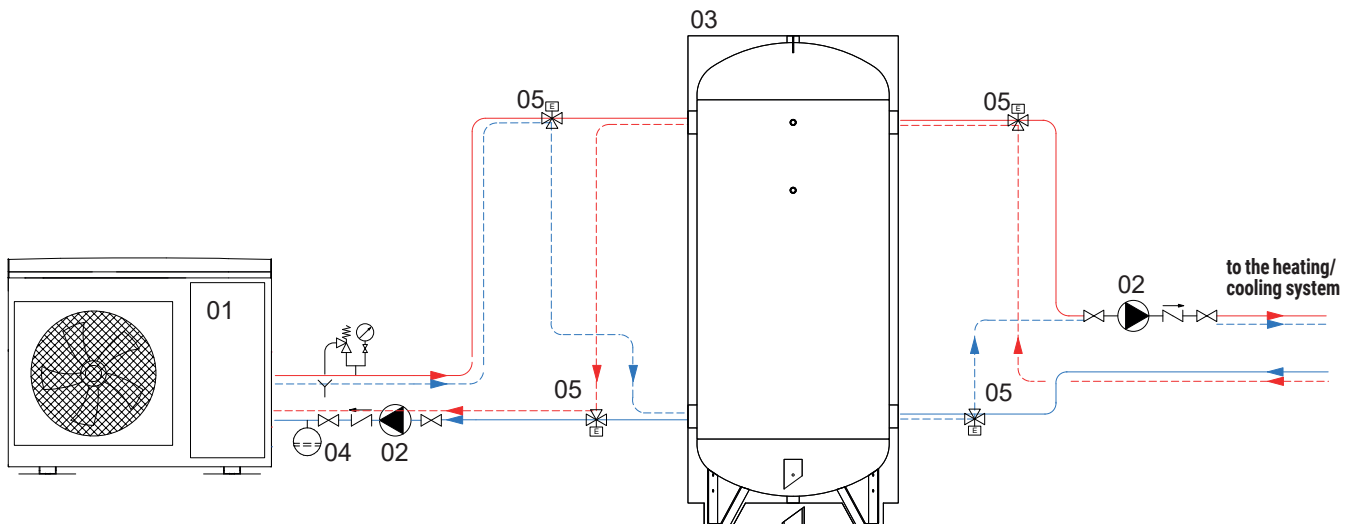
The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

EXAMPLE OF INSTALLATION WITH VOLANO BS REVERSO FLANGED INDOOR



01 Heat pump/Generator	03 Volano BS REVERSO flanged	05 3-Way valve
02 Circulator	04 Expansion vessel	

EXAMPLE OF INSTALLATION WITH CHILLED WATER STORAGE TANK VT



01 Heat pump	03 CHILLED WATER STORAGE TANK	05 3-Way valve
02 Circulator	04 Expansion vessel	

The diagrams shown are purely illustrative. Always refer to a qualified design engineer for installations.

GENERAL SALES CONDITIONS AND WARRANTY

Sales of Cordivari's products are made according to the conditions listed below. Exceptions should be accorded in written by Cordivari Srl.

1. SHIPMENT

Goods are transported at buyer's risk and peril, even if they are shipped free of carriage. Goods have to be checked at the delivery about unaltered packaging, missing or confused products in the presence of the forwarder. Any claim has to be immediately communicated to the forwarder by appointing the shipment's document and by registered mail within 8 days from receipt of the goods (otherwise Cordivari Srl is cleared of his responsibilities).

2. DELIVERY TERMS

Delivery terms are indicative. Failure to comply with the agreed delivery terms for any reasons will not entitle the buyer to any compensation, cancellation or modification of the order without our prior consent. In case of strikes, lack in raw materials, or any other Act of God, Cordivari Srl reserves the right to decide proper countermeasures; in this case Cordivari Srl should be considered exempted from any responsibility. Shall ordered goods not be collected within agreed date, the same will be invoiced and stored with risks and costs charged to the customer.

3. DRY WEIGHT, MEASURES, SURFACES

Dry Weights, measures, surfaces, shapes, sizes, images and other figures related to the products are merely indicative and Cordivari Srl may at any time modify them.

4. ORDER CANCELLATION OR MODIFICATION

All orders are valid only if accepted in written form by Cordivari Srl .
No orders shall be cancelled even partially without the consent of Cordivari Srl. It will not be possible to modify the order when the production has already started. Some cost due to the modifications or cancellation will be charge to the buyer.

5. WARRANTY

Cordivari Srl offers a 5-year warranty for buffer tanks and all other thermal storage units included in this catalog.

For all non-standard items and special products made to customer specifications, Cordivari Srl offers a 2-year warranty.

- The products and systems in this catalog are designed and manufactured in compliance with the reference directives CE-EN-UNI-and PED.
- The warranty and conformity of said products and systems are valid only in those countries where such standards are recognized and implemented. In non-European countries or in any case in countries that do not implement these regulations, Cordivari assumes no responsibility for warranty and compliance.
- The warranty covers manufacturing defects, if all the points of Article 5 are respected. It must be proven that the installation of the products has complied with the criteria of protection from overpressure, corrosion, legionella and installation and use rules and requirements described in this catalog and any applicable plant engineering standards. In domestic hot water production systems, as well as in heating ones, for the purposes of the warranty, comply with the provisions of the UNI CTI 8065 standard which provides for various types of water treatments according to its characteristics. The warranty does not cover damage deriving from non-compliance with the requirements of the UNI CTI 8065 standard.

The commitment to lend the warranty exists provided that:

- The product has been stored in good condition and protected from bad weather before installation;
- The product has not been damaged during transport, handling or installation;
- No tampering or repairs have been carried out by persons not authorized by Cordivari Srl;
- The installation has been carried out by authorized personnel, in compliance with the instructions and standards indicated on the technical documentation provided by Cordivari Srl, and in compliance with all provisions of laws and prescriptions contained in this catalog;
- The accessories used are those regularly supplied by Cordivari Srl;
- The buyer has settled the balance of the payments within the established terms;
- No aggressive chemicals have been added to the water;
- The operating pressure and temperature indicated in the catalog correspond

to the operating pressure and temperature limit of use.

Those parts subject to natural wear and tear are always excluded from any warranty (eg anodes, gaskets, bolts, etc.).

The warranty starts from the date of the sales invoice of Cordivari Srl and is not renewed in any case in the event of a replacement of the product.

The warranty does not cover costs due to demolitions, works for the passage of products both inbound and outbound, and labor for any product replacements.

Cordivari Srl undertakes during the warranty period to replace the returned product recognized as defective due to ascertained production defects, in addition to this, the Customer cannot claim any other compensation - deriving from said defects - for direct or indirect damage costs of any kind to people and / or things.

6. PAYMENTS

All invoices have to be paid according to the agreed deadline. Any delay, even partial may suspend the planned deliveries. Overdue interest could be charged at current rates.

7. GOODS' PROPERTY

Cordivari Srl remains owner of the delivered goods until they are not completely paid. In case of failure to proceed to the payment, Cordivari Srl could ask for immediate restitution of goods and keep the paid partial amount as indemnity. Cordivari Srl can reserve the right to evaluate bigger damages caused by the outstanding amount.

8. PRICES

Prices are not binding and can be modified without communication and can be modified on basis of the modifications which could appear before and during delivery. Prices are intended on FCA-MORRO D'ORO (Incoterm 2010 basis), except in case of written agreements. For some voluminous delivery Cordivari may charge some extra-costs. All prices indicated are V.A.T. excluded.

9. ORDERS/DELIVERY

The general minimum order value is Euro 2.000,00, for all delivery terms based on previous agreements made.

Given orders are binding to the buyer, who acknowledges of all our sales conditions.

Delivery is considered to customer main place/warehouse; for any different destination please get in touch with our sales dept.

10. COURT AUTHORITY

For the following Catalogue and conditions only the provisions of Italian law will be used. For controversy, the Court of Teramo (Italy) shall have exclusive competence. Essential and trial law shall be exclusively Italian.

11. ORIGINAL VERSION

Being a translation, the Italian language is the only valid language for interpretation and conditions of this catalogue version.



FOLLOW US



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CORDIVARI SRL

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