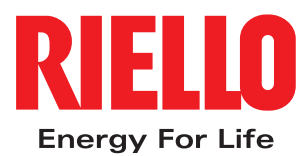
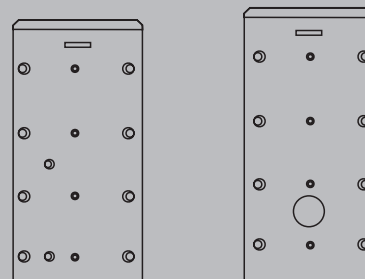




Riello 7000 Puffer

Single-coil and flanged tanks

Storage tank





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Riello 7000 Puffer

PRODUCT DESCRIPTION

The RIELLO 7000 solar tanks can be easily integrated into solar systems for heating integration (not for domestic use). The accurate study of tank (also equipped with internal diaphragm) and coil (only for /S models) geometries allows to obtain excellent performance in terms of stratification, heat exchange and recovery times. The arrangement of the connections at different heights allows the simultaneous use of different types of heat generators, without affecting the stratification. CFC-free polyurethane insulation (100 mm thick) to limit heat dissipation and consequently increase efficiency; cupel structure for easy installation. The use of the flange (only for models /F) facilitates maintenance and allows the insertion of an additional heat exchanger. Possibility of matching with integrative heating elements. All models with capacity up to 2000 litres comply with energy class C.

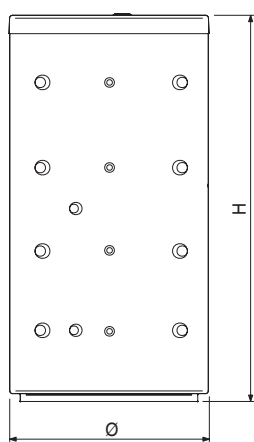
TECHNICAL DATA

MODELS RIELLO PUFFER 7000		7000. 300/S	7000. 500/S	7000. 1000/S	7000. 1500/S	7000. 2000/F	7000. 3000/F
Type of storage		non-ventrifed					
Storage layout		vertical					
Exchanger layout		vertical	vertical	vertical	vertical	-	-
Usable volume	l	270	476	920	1410	2010	2959
Diameter without insulation	mm	-	-	790	1000	1100	1250
Height without insulation	mm	-	-	2155	2090	2405	2645
Insulation thickness	mm	100					
Insulation type		Soft PU					
Flange diameter (outer/inner)	mm	-	-	-	-	290/220	290/220
Diameter of sensor-holder pockets	mm	8					
Coil water content	l	10,4	10,4	14,6	21,6	-	-
Lower primary coil water content	l	-	-	11,0	12,8	17,4	19,8
Coil exchange surface	m ²	1,8	1,8	2,6	3,8	-	-
Coil absorbed power (*)	kW	43	45	68	99	-	-
Required flow rate of the coil (*)	m ³ /h	1,1	1,1	2,9	4,2	-	-
Maximum operating pressure for storage tank	bar	3					
Maximum operating temperature for storage tank	°C	99					
Maximum coil operating pressure	bar	6	6	6	6	-	-
Maximum operating temperature for coil	°C	99	99	110		-	-
Dissipation according to EN 12897:2006 (ΔT45°C, ambient temperature 20°C and storage at 65°C)	W	93	110	143	167	190	344
	kWh/24h	2,23	2,64	3,43	4,01	4,56	8,256
Heat dissipation UNI TS 11300	W/K	2,1	2,8	3,2	3,7	4,2	7,6
Energy class		C					
∅ - Outer diameter complete with insulation	mm	700	850	990	1200	1300	1450
H - Full height of insulation	mm	1635	1775	2190	2165	2480	2720
Net weight with insulation	Kg	115	140	180	245	290	415

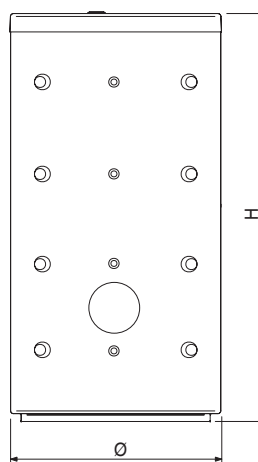
(*)According to DIN 4708, in order to obtain heating hot water production with ΔT 20°C (80%/60°C) on the coil, it is necessary to comply with the values of absorbed power and flow rate necessary for the coil shown in the table.

OVERALL DIMENSIONS

Riello 7000. 300/S - 7000. 500/S - 7000. 1000/S - 7000. 1500/S



Riello 7000.2000/F - 7000.3000/F

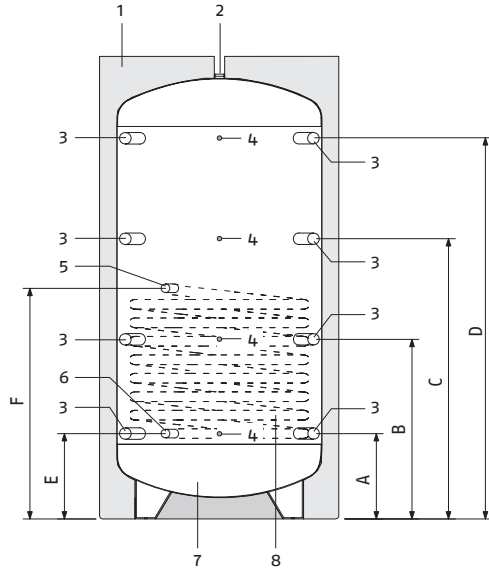


THERMAL SOLAR AND CYLINDERS

Single-coil and flanged tanks

STRUCTURE

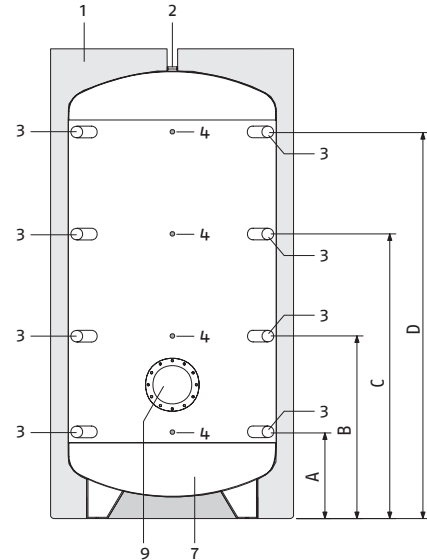
Riello 7000. 300/S – 7000. 500/S – 7000. 1000/S – 7000. 1500/S



1. Soft polyurethane insulation (100 mm)
2. Vent/delivery connection ($\varnothing 1''/4F$)
3. Delivery/return connections ($\varnothing 1''/2F$)
4. Sensor pockets (8 mm)
5. Collector delivery connection ($\varnothing 1''F$)
6. Collector return connection ($\varnothing 1''F$)
7. Tank
8. Coil

		Riello 7000.300/S	Riello 7000.500/S	Riello 7000.1000/S	Riello 7000.1500/S
A	mm	215	330	280	390
C	mm	595	710	805	850
C	mm	975	1090	1335	1310
D	mm	1355	1470	1860	1770
E	mm	215	330	280	390
F	mm	815	930	990	1290

Models Riello 7000.2000/F – 3000/F

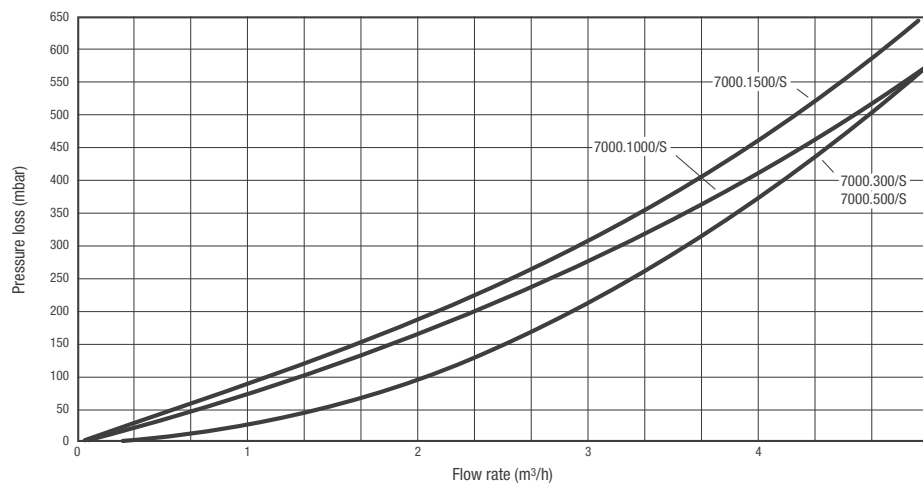


1. Soft polyurethane insulation (100 mm)
2. Vent/delivery connection ($\varnothing 1''/4F$)
3. Delivery/return connections ($\varnothing 1''/2F$)
4. Sensor pockets (8 mm)
5. Tank
6. Inspection flange

		Riello 7000.2000/F	Riello 7000.3000/F
A	mm	390	390
C	mm	950	1020
C	mm	1510	1650
D	mm	2070	2280

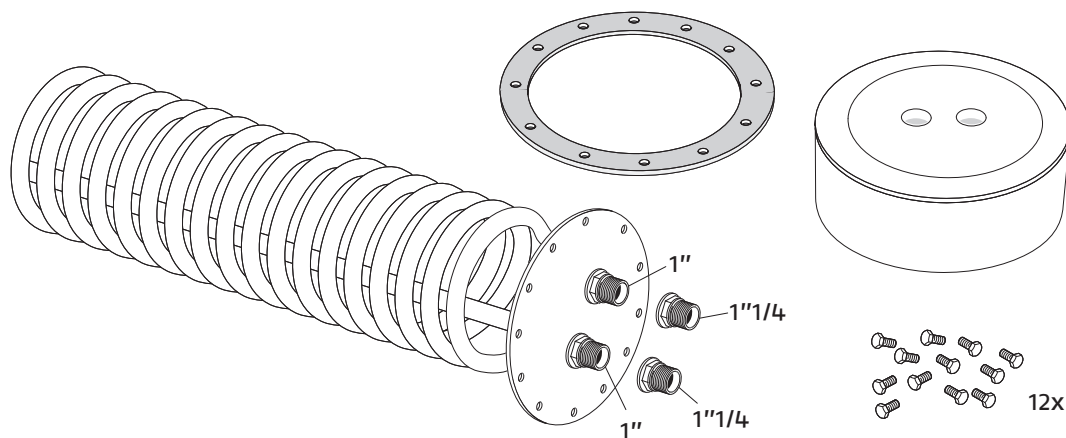
COIL PRESSURE LOSSES

Riello 7000. 300/S – 7000. 500/S – 7000. 1000/S – 7000. 1500/S



ACCESSORIES

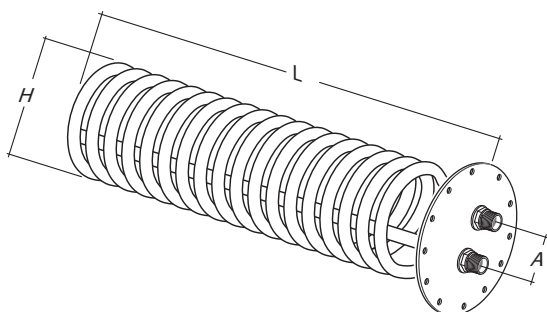
EXCHANGER COIL KIT



TECHNICAL DATA

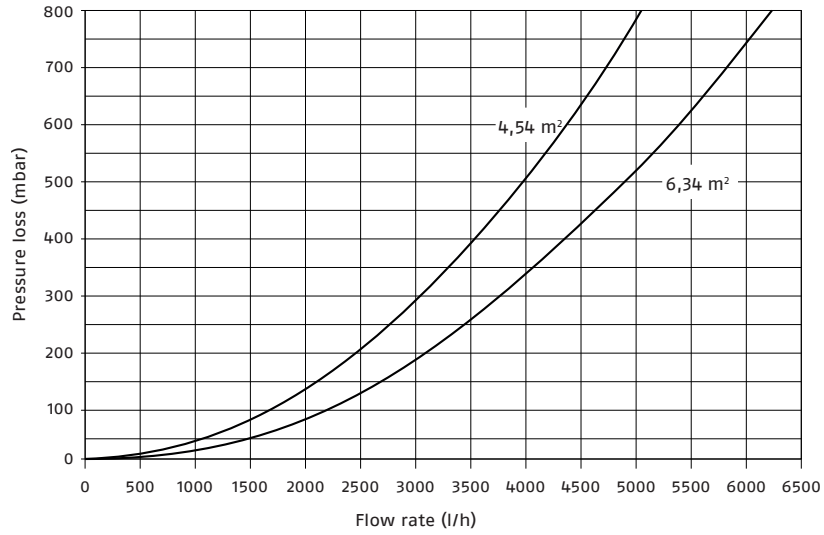
Descrizione		4,54 m ²	6,34 m ²
Exchanger type		Externally tinned finned copper, suitable for DHW (tinned side)	
Exchanger layout		Horizontal installation in flange	
Exchange surface	m ²	4,54	6,36
Rated power output	kW	91,0	127,0
Required primary flow rate to the coil (DIN 4708)*	l/h	3900	5500
Domestic Hot water production (DIN 4708)*	l/h	2200	3100
Number of wrapping principles	n°	2	2
Diameter and Insulation pipe	mm	18 x 1	18 x 1
Water Capacity	l	3,56	5,10
Exchanger wrap diameter (H)	mm	DN 200	DN 200
Coil length	mm	750,00	980,00
Centre distance hydraulic connections	mm	80,0	80,0
Net weight	kg	22,6	29,0
Maximum cylinder operating pressure	bar	10,0	10,0
Maximum cylinder operating temperature	°C	99,0	99,0

(*) Nominal output in accordance with DIN 4708, with primary at 80-60°C and storage at 10-45°C in accordance with DIN 4708 with continuous withdrawal of water from the storage tank; in order to obtain the declared performance, the values of power input and required flow rate to the coil shown in the table, must be observed.

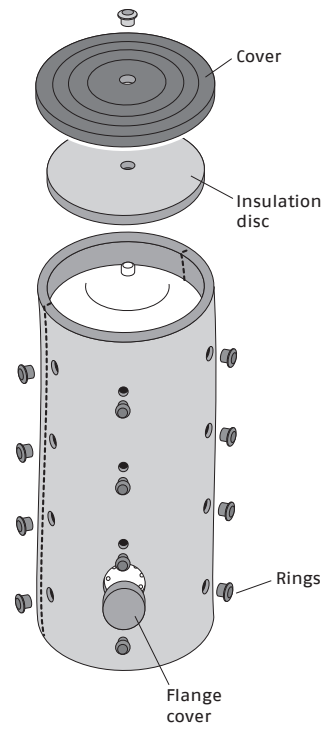
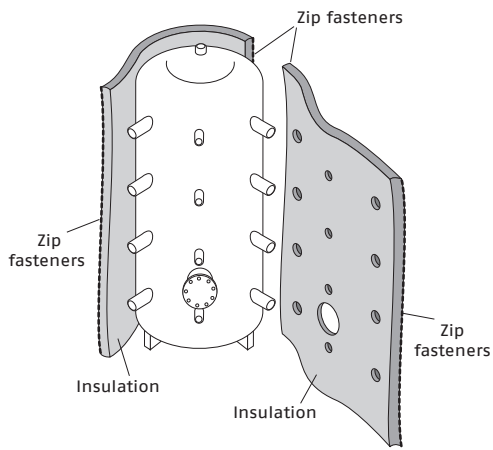


Match	4.54 m ²	6.34 m ²
Riello 7000.2000/F	•	•
Riello 7000.3000/F	•	•

PRESSURE LOSSES

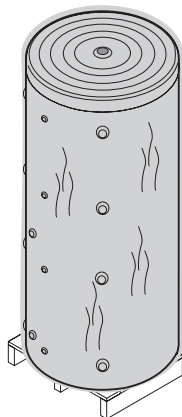


INSULATION

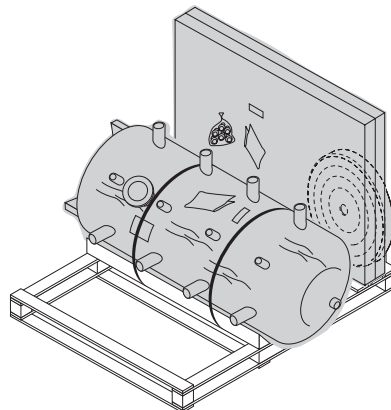


PRODUCT RECEPTION

Riello 7000. 300/S – 7000. 500/S – 7000. 1000/S – 7000. 1500/S



Riello 7000.2000/F – 3000/F



The Riello 7000.300/S, 7000.500/S, 7000.1000/S and 1500/S solar tanks are supplied in a single package, protected by a nylon bag and placed on wooden pallets.

Riello 7000.2000/F – 3000/F solar tanks are supplied in two separate packages:

- The first package consists of the painted tank, protected by a nylon bag and placed on wooden pallets. The tank is complete with 4 sensor-holder pockets already mounted in the appropriate sleeves (all other sleeves are equipped with protective plugs). The counterflange is already bolted onto the tank flange and provided with relevant gasket.
- The second package, also protected by a nylon bag, is composed of the polyurethane insulation featuring an elegant outer coating, outer sleeve rings, thermoformed cover, flange cover, identification plates and documentation.

The following material is supplied in a plastic bag positioned inside the package:

- Instruction manual
- Technical data plate
- Barcode label
- Hydraulic test certificate

INSTALLATION ON OLD SYSTEMS OR SYSTEMS REQUIRING REFURBISHMENT

When Riello 7000 solar tanks are installed on old systems or systems to be upgraded, check that:

- The installation is carried out with safety and control devices in compliance with specific standards
- The system is washed, cleaned of sludge, scale, de-aerated and the hydraulic seals have been checked.

THERMAL SOLAR AND CYLINDERS

Single-coil and flanged tanks

RIELLO 7000/S

CONSTRUCTION DESCRIPTION FOR CONCISE SPECIFICATIONS

Steel storage tanks with lower coil, ideal for heating systems only, not for domestic use, with stratification to use heat production with different temperatures. Can be integrated into solar systems with solar collectors.

CONSTRUCTION DESCRIPTION FOR SPECIFICATIONS

Riello 7000/S series storage tank, ideal for heating systems only, not for domestic use, with different temperatures for heat production, consisting of:

- vertical steel structure
- tank with internal diaphragm to obtain better performance in terms of stratification, heat exchange
- lower coil with a larger surface to maximize heat exchange and optimize efficiency with reduced recovery times
- insulation made of soft polyurethane foam with a minimum thickness of 100 mm, CFC-free
- 8 1"1/2 x 100 mm delivery/return connections positioned at different heights to use different heat generators without affecting stratification, closed with neutral protective plugs
- 1"1/4 x 20 mm vent connection placed at the top
- 4 1/2" F x 100 mm sensor-holder pockets
- tank water content 270 litres (7000.300/S model), 476 litres (7000.500/S model), 920 litres (7000.1000/S model) and 1410 litres (7000.1500/S model)
- coil maximum operating pressure 6 bar
- tank maximum pressure 3 bar
- can be equipped with a specific solar regulator
- energy class C (for 7000.300/S and 7000.500/S models)

MATERIAL SUPPLIED

- device warranty certificate
- technical monograph with provisions for installation, use and maintenance
- product ID plate

RIELLO 7000/F

CONSTRUCTION DESCRIPTION FOR CONCISE SPECIFICATIONS

7000/F steel storage tanks, ideal for heating systems only, not for domestic use, with stratification to use heat production with different temperatures. Can be integrated into solar systems with solar collectors.

CONSTRUCTION DESCRIPTION FOR SPECIFICATIONS

Riello 7000/F series storage tank, ideal for heating systems only, not for domestic use, with different temperatures for heat production, consisting of:

- vertical steel structure
- tank with internal diaphragm to obtain better performance in terms of stratification, heat exchange
- insulation made of soft polyurethane foam with a minimum thickness of 100 mm, CFC-free
- 8 1"1/2 x 100 mm delivery/return connections positioned at different heights to use different heat generators without affecting stratification, closed with neutral protective plugs
- 1"1/4 x 20 mm vent connection placed at the top
- 4 1/2" F x 100 mm sensor-holder pockets
- tank water content 2010 litres (7000.2000/S model) and 2959 litres (7000.3000/S model)
- tank maximum pressure 3 bar
- can be equipped with a specific solar regulator

MATERIAL SUPPLIED

- device warranty certificate
- technical monograph with provisions for installation, use and maintenance
- product ID plate

ACCESSORIES

The following accessories are available, they can be requested separately.

- Exchanger coil kit (4.54 m² with counterflange)
- Exchanger coil kit (6.34 m² with counterflange)

RIELLO

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RIELLO 7200

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