

Thermal solar and cylinders



Riello 7200 HP

Single-coil cylinder

Cylinder for Heat pump and Solar system
Production of domestic hot water



RIELLO
Energy For Life

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Riello 7200 HP

PRODUCT DESCRIPTION

Vertical domestic hot water steel cylinders, protected by glazing and equipped with a coil with increased surface for proper matching with heat pump and a flange at the bottom for the insertion of an exchanger (optional) for the combination with thermal solar system. Designed for installation in systems with heat pump, they guarantee high heat transfer thanks to a very large exchange surface. They are complete with pockets, magnesium anode and 1"1/2 connection for the insertion of the heating element (optional). The insulation is made of rigid polyurethane with a thickness of 50 mm for sizes 300 and 500 and of soft polyurethane with a thickness of 100 mm for size 800. 3 models available from 300 to 800 litres. 5-year warranty.

TECHNICAL DATA

DESCRIPTION		Riello 7200 300 HP	Riello 7200 500 HP	Riello 7200 800 HP
Cylinder type		Glazed		
Cylinder layout		Vertical		
Exchanger layout		Vertical		
Cylinder capacity	l	263	470	702
Diameter with insulation	mm	600	750	990
Diameter without insulation	mm	-	-	790
Height without insulation	mm	-	-	1810
Height with insulation	mm	1615	1690	1875
Insulation thickness	mm	50	50	100
Insulation type		Rigid PU injected		
First magnesium anode (Ø x length)	mm	32x400	32x400	32x700
Second magnesium anode (Ø x length)	mm	-	-	32x400
Flange diameter (outer/inner)	mm	180/120		
Sensor-holder pocket diameter/length	mm	8/200		
Sleeve for heating element (**)	mm	1" 1/2		
Coil water content	l	23	51.5	60
Coil exchange surface	m ²	4	6	7
Coil absorbed power (*)	kW	96	156	189
Production of domestic hot water (*)	l/h	2400	3800	4600
Required flow rate of the coil (*)	m ³ /h	4.1	6.7	8.1
Coil absorbed power (*)	kW	19	31	38
Production of domestic hot water (***)	l/h	500	800	900
Required flow rate of the coil (*)	m ³ /h	1.6	2.7	3.3
Maximum operating pressure	bar	10	10	10
Maximum operating temperature	°C	99	99	99
Maximum operating temperature for coil	°C	110	110	110
Total net weight	kg	119	166	220
Heat dissipation according to UNI TS 11300	W/K	1.889	2.491	2.889
Dissipation according to EN 12897:2006 (ΔT=45 °C, ambient temperature 20°C and storage at 65°C)	W	85	112	130
	kWh/24h	2.04	2.69	3.12
Maximum coil operating pressure	bar	10	10	10
Energy class		C		
NL index		13	28	40

(*) According to DIN 4708 with DT 20°C (80°/60°C) on the coil.

(**) Heating element not supplied

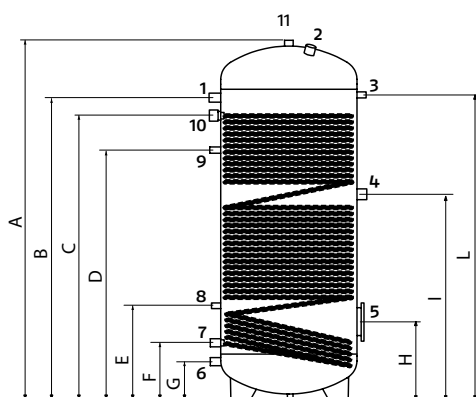
(***) According to DIN 4708 with DT 10°C (60°/50°C) on the coil.

MAXIMUM DIMENSIONS

MODELS		RIELLO 7200 300 HP	RIELLO 7200 500 HP	RIELLO 7200 800 HP
A	mm	1615	1690	1845
B	mm	1390	1415	1810
C	mm	1310	1325	1610
D	mm	1165	1170	1485
E	mm	395	425	1305
F	mm	220	265	1175
G	mm	140	185	565
H	mm	340	370	345
I	mm	945	970	240
L	mm	1390	1425	470
M	mm	600	750	1120
N	mm	500	650	1610
O	mm	-	-	990
P	mm	-	-	790

HYDRAULIC CONNECTIONS

		RIELLO 7200 300 HP	RIELLO 7200 500 HP	RIELLO 7200 800 HP
1	Hot water delivery line	1"	1"	1 1/4"
2	Anode	1 1/4"	1 1/4"	1 1/2"
3	Sensor thermometer	1/2"	1/2"	1/2"
4	Heating element	1 1/2"	1 1/2"	1 1/2"
5	Flange	Ø 180/120 mm	Ø 180/120 mm	Ø 180/120 mm
6	Cold water inlet/ Drain	1"	1"	1 1/4"
7	Coil return	1"	1 1/4"	1 1/4"
8	Sensor	1/2"	1/2"	1/2"
9	Recirculation	1/2"	1/2"	1"
10	Coil delivery line	1"	1 1/4"	1 1/4"
11	Hot water delivery line	1 1/4"	1 1/4"	-
12	Bed fitting (blind hole)	1/2"	1/2"	-



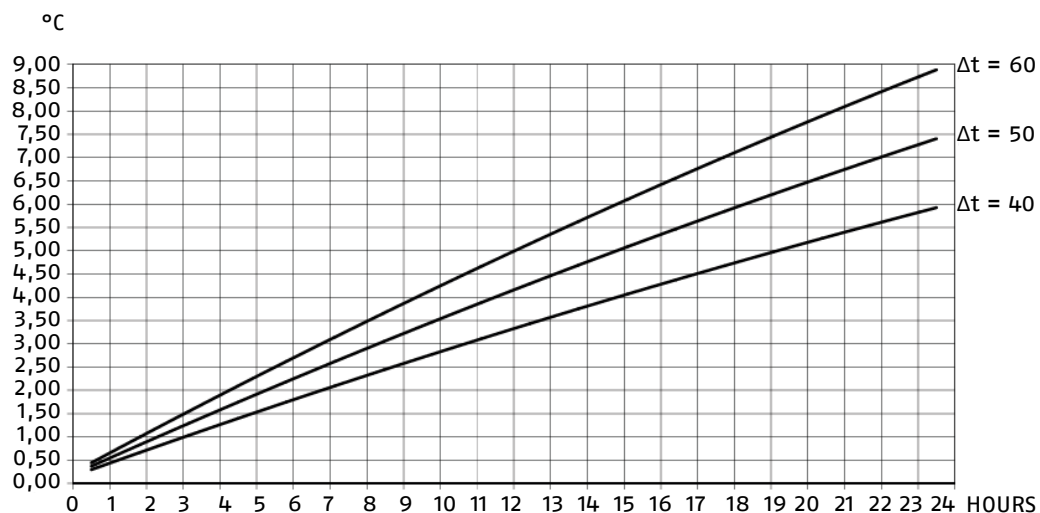
- 1 Hot water delivery line
- 2 Anode
- 3 Sensor thermometer
- 4 Heating element
- 5 Flange
- 6 Cold water inlet
- 7 Coil return line
- 8 Sensor
- 9 Recirculation
- 10 Coil delivery line
- 11 Hot water delivery line

THERMAL SOLAR AND CYLINDERS

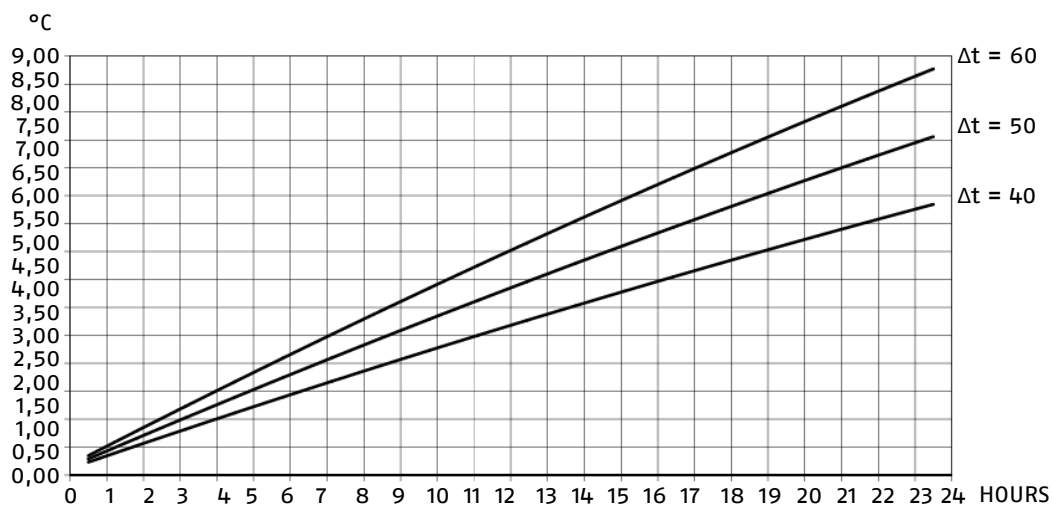
Single-coil cylinder

TEMPERATURE LOSSES (THEORETICAL) FROM 50 MM RIGID INSULATION

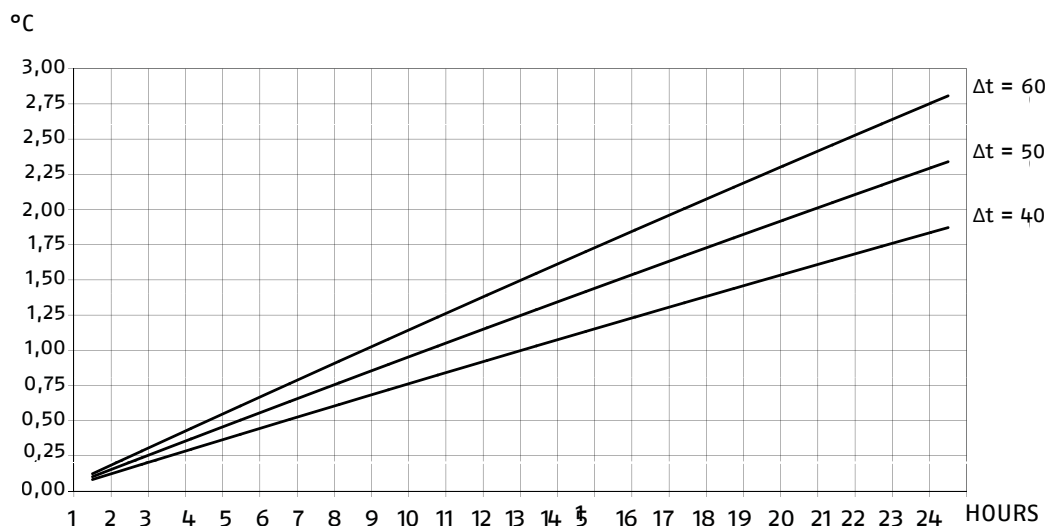
300-LITRE CYLINDER



500-LITRE CYLINDER

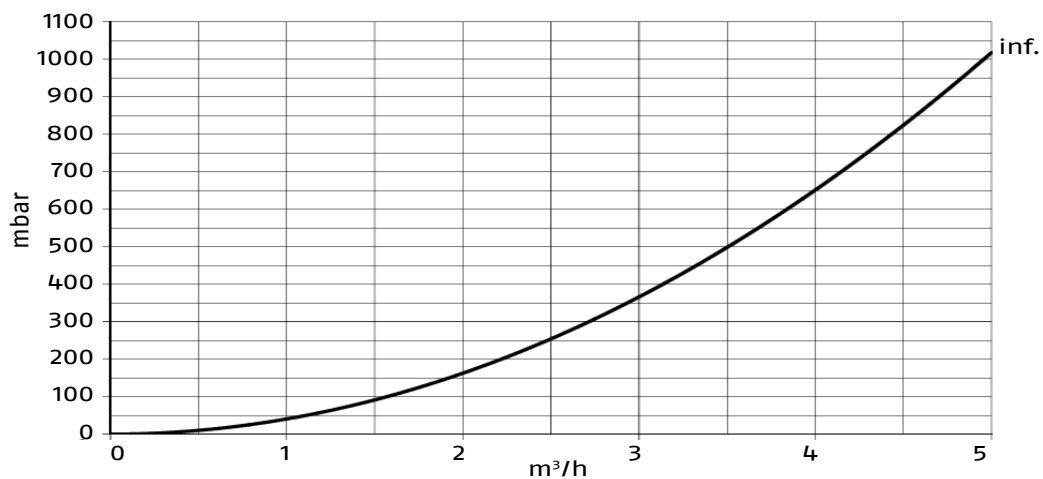


800-LITRE CYLINDER

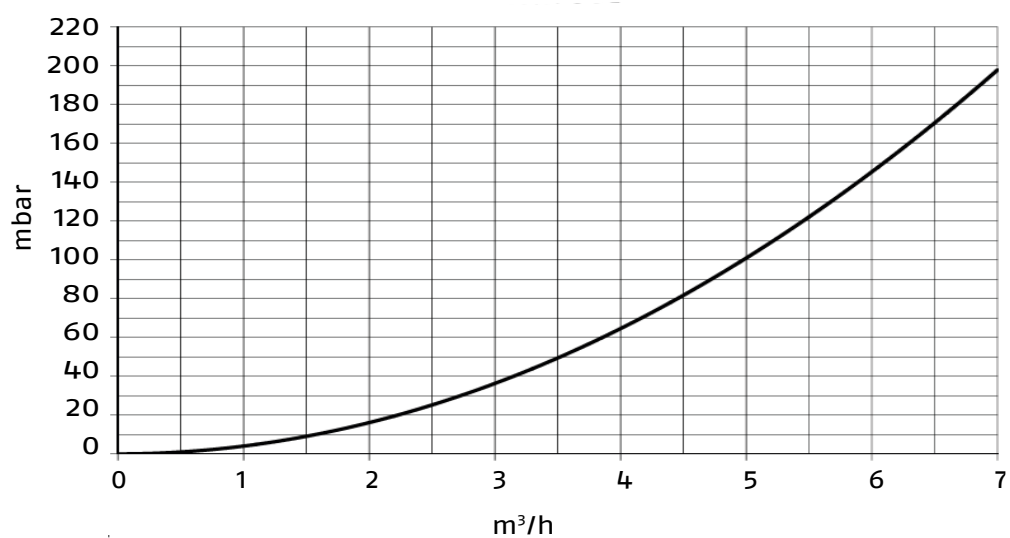


COIL PRESSURE LOSSES

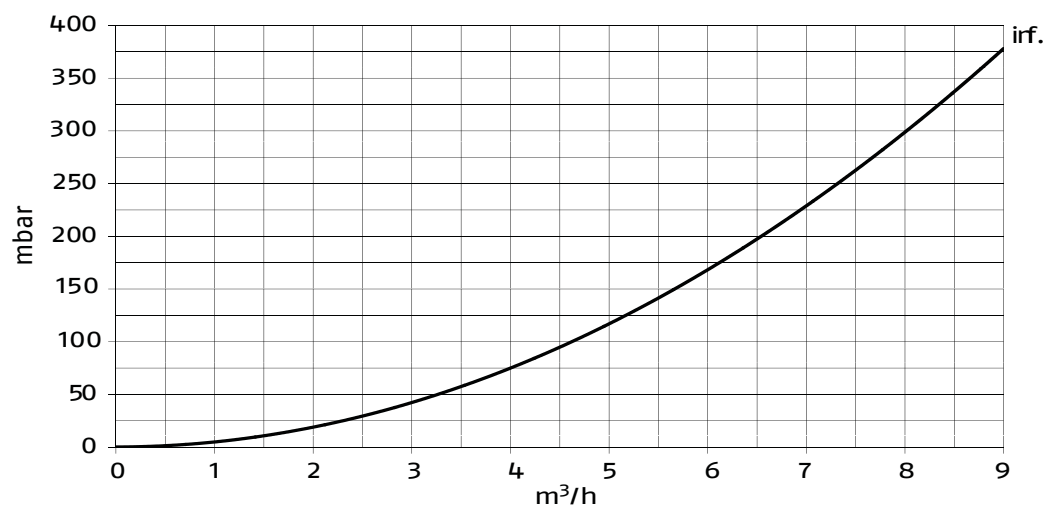
7200 300 HP



7200 500 HP



7200 800 HP

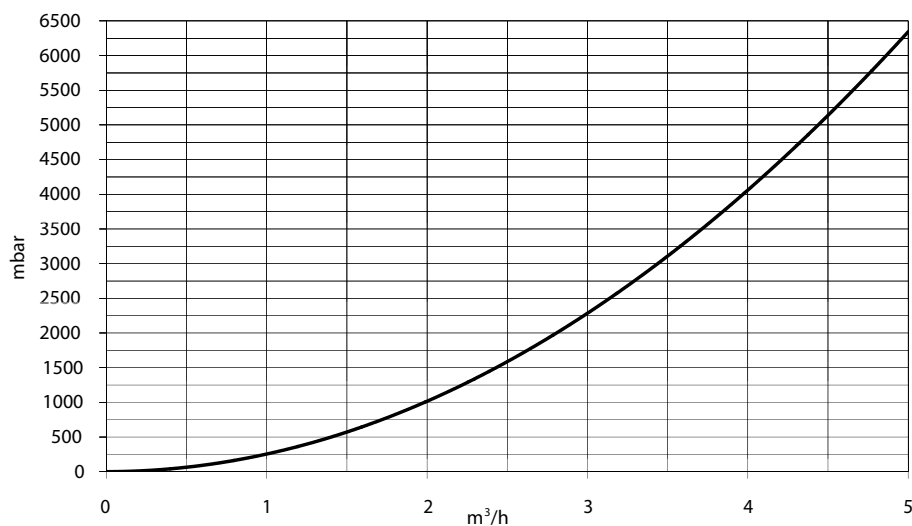


THERMAL SOLAR AND CYLINDERS

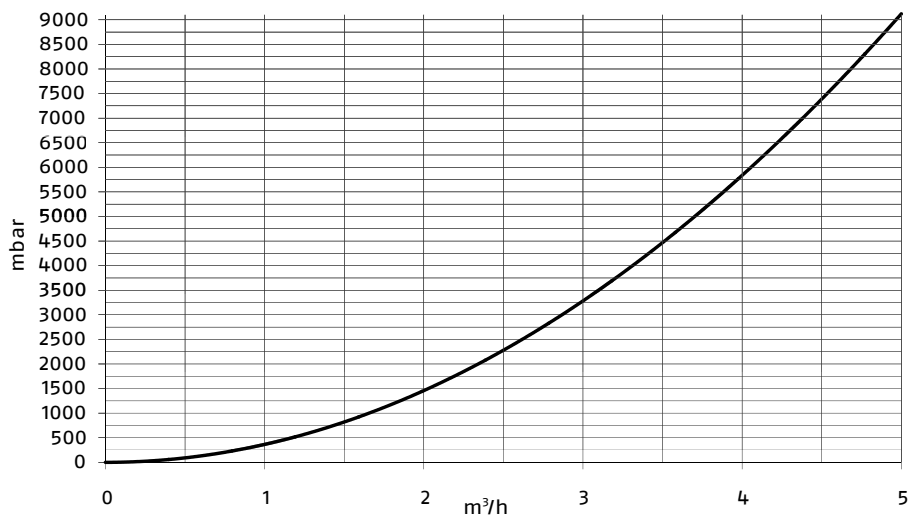
Single-coil cylinder

Removable coils (optional for thermal solar system)

0.80 m² SOLAR EXCHANGER FOR 7200.300 HP



1.21 m² SOLAR EXCHANGER FOR 7200.500 HP AND 7200.800 HP



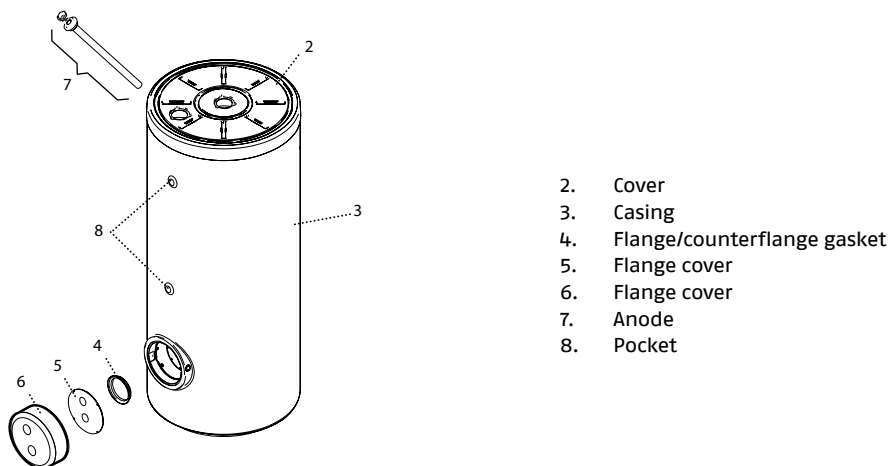
EXCHANGER COIL KIT (ACCESSORY)		0.80 m ²	1.21 m ²
exchanger surface	m ²	0.80	1.21
exchanged power (*)	kW	16.0	24.0
flow rate required by the coil (*)	m ³ /h	0.7	1.0
coil winding length	mm	400	550
coil winding diameter	mm	100	100
coil pipe spacing	mm	60	60
weight	kg	5.0	9.6
water content	l	0.5	0.7
maximum operating pressure	bar	6.0	6.0

(*) according to DIN 4708 with T=20°C (80°C–60°C) on the coil and T=35°C (10°C–45°C) on the cylinder

COMBINATION	0.80 m ²	1.21 m ²
Riello 7200.300 HP	○	
Riello 7200.500 HP		○
Riello 7200.800 HP		○

STRUCTURE

RIELLO 7200 HP cylinder is not equipped with load circulation pumps, which must be properly dimensioned and installed on the system.

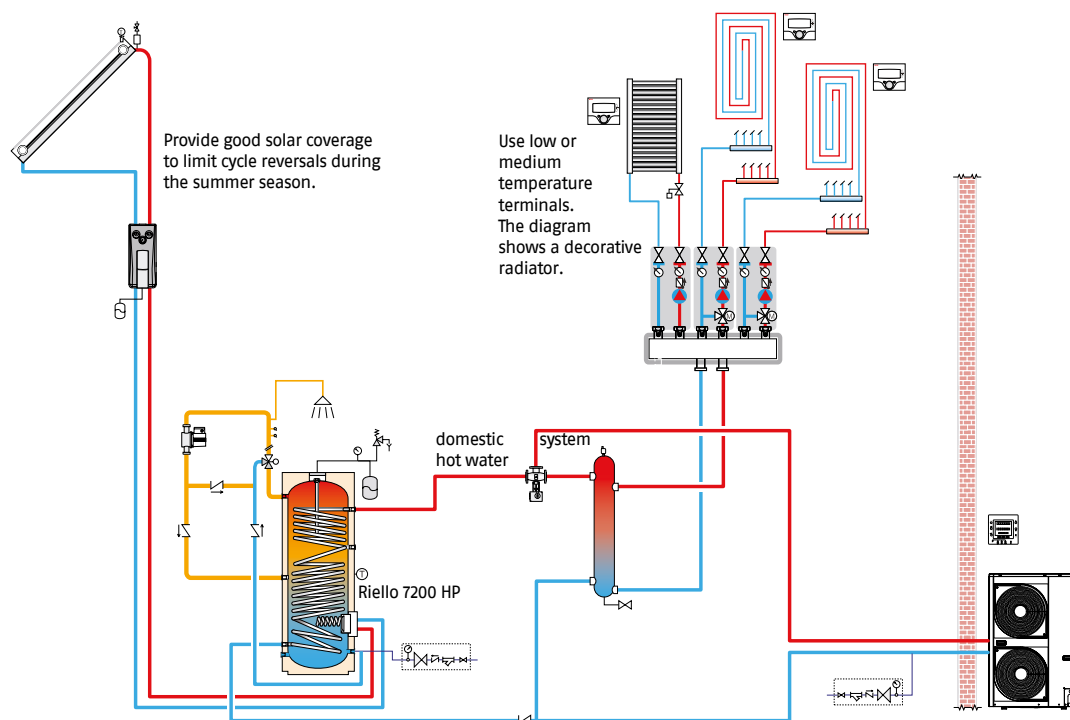


POSSIBLE COMBINATIONS WITH HP CYLINDERS

MODELS		300 HP	500 HP	800 HP
Surface	m ²	4	6	7
NexPolar 6		○		
NexPolar 8		○		
NexPolar 12			○	
NexPolar 15			○	
NexPolar 17				○
NexPolar 22				○

HYDRAULIC DIAGRAM

HOT-COLD SYSTEM WITH HEAT PUMP AND THERMAL SOLAR SYSTEM, WITH RADIANT PANEL TERMINALS AND DECORATIVE RADIATORS IN THE BATHROOMS



RIELLO 7200 HP DESCRIPTION

Single-coil domestic hot water cylinder with increased exchange surface to ensure the maximum possible heat exchange. Particularly suitable for the production of domestic hot water (DHW) through the use of heat pumps. The cylinder has a flange in the lower part of the structure suitable for the insertion of removable coils to make the cylinder bivalent and allow integration by the thermal solar system.

- carbon steel structure, complete with anodic protection and internal treatment according to DIN 4763-3 and UNI 10025 standards
- cylinder available in 3 sizes:
 - 300 litres (263 effective) with 4 m² coil
 - 500 litres (470 effective) with 6.0 m² coil
 - 800 litres (702 effective) with 7.0 m² coil
- insulation made of rigid polyurethane with a thickness of 50 mm for sizes 300 and 500 and of soft polyurethane with a thickness of 100 mm for size 800
- RAL 9700 CFC-free SKY coating
- internal flange for inspection and cleaning of the storage system. The flange allows inserting a removable coil in corrugated pipe for thermal solar systems with exchange surfaces of 0.8 m² for the 300-litre version and 1.21 m² for the 500 and 800-litre versions. 800litri
- sensor-holder pockets
- hydraulic connections for DHW recirculation, drain, and accessory heating element connection
- magnesium anode for protection against corrosion
- cylinder maximum operating pressure: 10 bar
- energy class C

MATERIAL SUPPLIED

- device warranty certificate
- technical monograph with installation, use and maintenance instructions
- product identification plate
- energy efficiency label.



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