

## SMW - Smartwarm combined thermal accumulation



Thermal accumulation for the storage of heating water produced from continuous or discontinuous heat sources; instantaneous production of Sanitary Hot Water by means of a AISI 316L stainless steel high-efficiency corrugated heat exchanger. Small sizes for domestic installations. Available with the primary lower heat exchanger.



TECHNICAL CHARACTERISTICS

Sanitary	Material:	Inox AISI 316L (1.4404)
	Internal protective processing:	Pickling and passivation
	External protective processing:	Pickling and passivation
	Typology:	Corrugated fixed tube with high exchange surface
	Power (P max. / T max.):	6 bar / 95°C
Puffer	Material:	S 235 Jr
	Internal protective processing:	Rough
	External protective processing:	Painting with anti rust and industrial gaze
	Power (P max. / T max.):	3 bar / 95°C
Exchanger	Material:	S 235 Jr
	Internal protective processing:	Rough
	External protective processing:	Rough
	Typology:	Single spiral fixed coil
General characteristics	Power (P max. / T max.):	12 bar / 95°C
	Capacity:	300 - 400 Lt
	Warranty:	5 years
	Insulation:	- Rigid Polyurethane + pvc: <i>Fire resistance class B3 (DIN 4102)</i>
	Reference legislation:	- PED 97/23/CE Art. 3 Par. 3 (pressurised equipment) - M.D. of 6th April 2004 N.174 (Suitability of materials in contact with SHW)

FITTINGS  
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Electronic control unit



Electrical resistance attack on 1"1/2



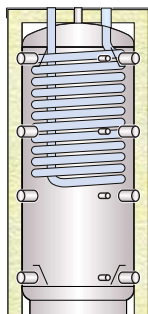
Thermostate



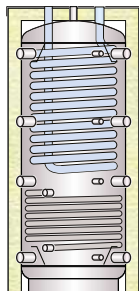
Thermometer



Sanitary recirculation kit



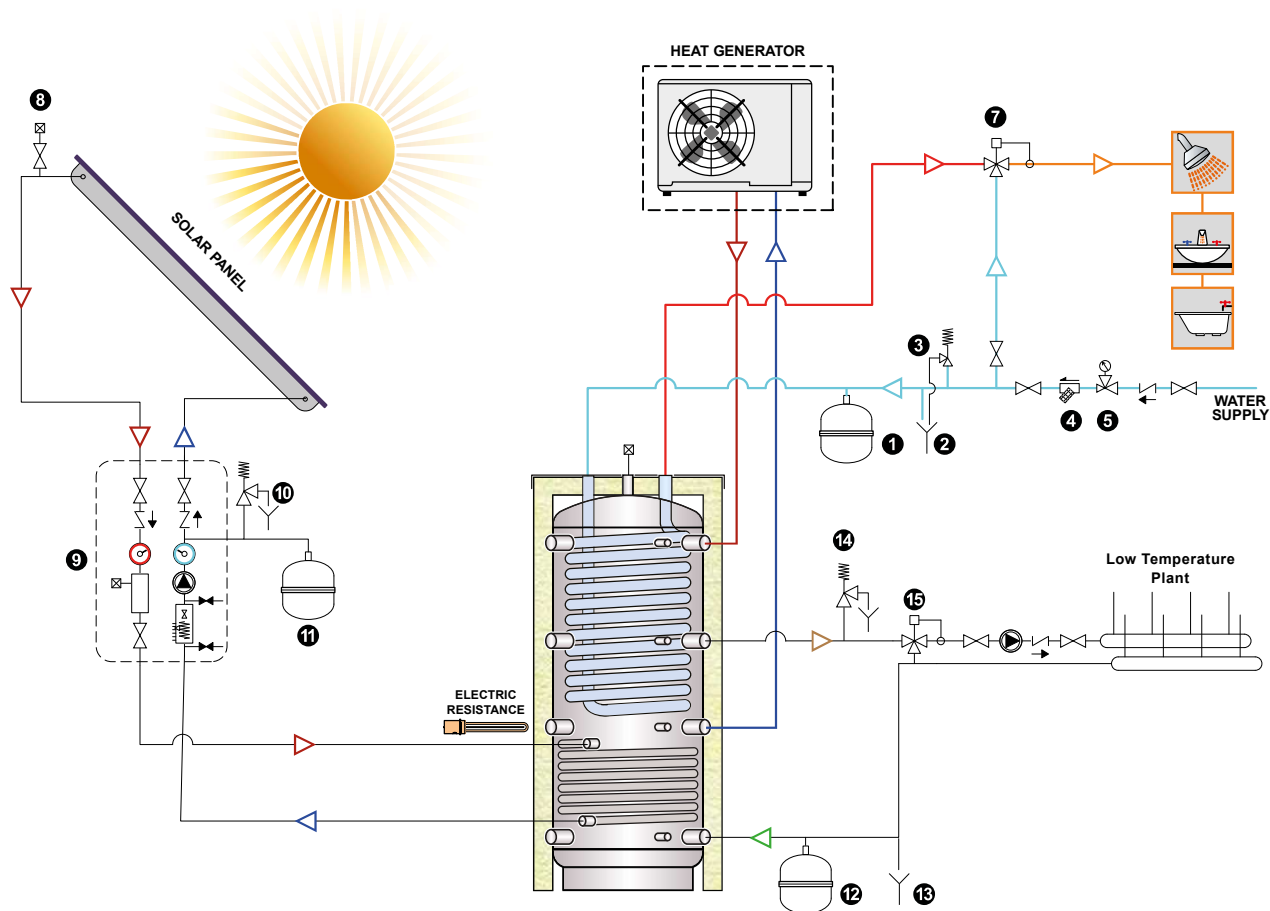
<b>SM0W - Smatwarm combined thermal accumulation</b>		
Capacity	Rigid Polyurethane insulation thick. 50 mm + pvc	
Lt	Code	€
<b>300</b>	SM0W 00300 R	<b>1252,00</b>
<b>400</b>	SM0W 00400 R	<b>1358,00</b>



<b>SM1W - Smatwarm combined thermal accumulation with a coil</b>		
Capacity	Rigid Polyurethane insulation thick. 50 mm + pvc	
Lt	Code	€
<b>300</b>	SM1W 00300 R	<b>1405,00</b>
<b>400</b>	SM1W 00400 R	<b>1542,00</b>

Combined Thermal Accumulators

Caution: Indicative schematic diagram, not substitutive for project work.



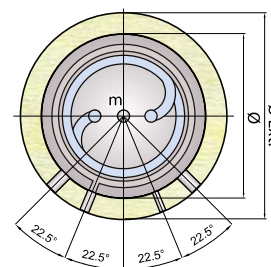
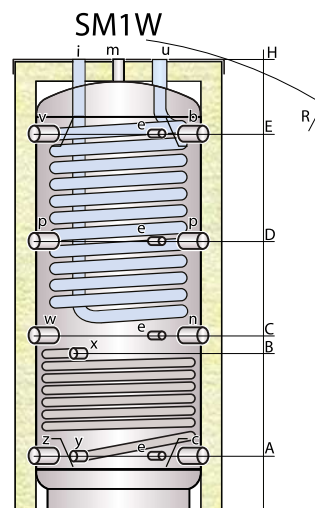
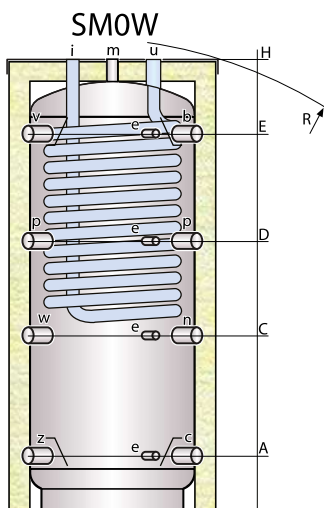
- LEGEND**
- 1. Sanitary expansion vessel
  - 2. Sanitary drain
  - 3. Sanitary safety valve (6 bar)
  - 4. Dirt filter
  - 5. Pressure reducer
  - 6. Sanitary recirculation pump
  - 7. Sanitary mixing valve
  - 8. Vent with shut-off
  - 9. Solar power managing module
  - 10. Solar power safety unit (6 bar)
  - 11. Solar expansion vessel
  - 12. Heating system expansion tank
  - 13. Discharge system
  - 14. Heating system safety valve
  - 15. Mixing for low-temperature system

Capacity (Lt)	sanitary exchanger				heat loss ** (kWh/24h)
	Sq.m (Lt)	Power * (kW)	Flow in continuous SHW * (Lt/h)	Efficiency coefficient (DIN 4708) NL*	rigid PU
300	3,6 (18,0)	32,4	796	1,6	1,7
400	3,6 (18,0)	32,4	796	2,3	2,2

\* Puffer average temperature: 65° C - Temperature sanitary inlet: 10° C - sanitary outlet temperature: 45° C

\*\* Heat loss calculated by considering the difference between accumulation and temperature environment of 45° C - (rigid polyurethane: average density 42 kg/m<sup>3</sup>-λ = 0,023 W/mK)

- b heat source flow
- c heat source return
- e thermometer - probe
- i sanitary cold water inlet
- m vent puffer
- n heating system return
- p service connection
- u Sanitary Hot Water output
- v heating system flow
- w preparation for electrical resistance,
- x solar flow
- y solar return
- z heating flow at low temperature



Capacity (Lt)	Dimensions (mm)				Exchanger (Sq.m) Lower	Inox sanitary exchanger (Sq.m)
	Ø	H	Ø Ext.*	R		
300	500	1580	600	1710	1,20	3,6
400	600	1610	700	1770	1,60	3,6

\* Non-removable insulation

Capacity (Lt)	Dimensions (mm)					Connections (gas)			
	A	B	C	D	E	xy	em	iu	bcnpvz
300	215	490	580	1080	1350	1"	1/2"	1"1/4	1"1/2
400	230	550	610	1090	1365	1"	1/2"	1"1/4	1"1/2

Combined Thermal Accumulators