

## MXW - Maxiwarm combined thermal accumulator



Thermal accumulator for the storage of heating water produced from continuous or discontinuous heat sources; instant production of Sanitary Hot Water by means of a AISI 316L stainless steel high efficiency corrugated heat exchanger.

Available in:

- only accumulation
- accumulation + primary fixed coil heat exchanger
- accumulation + two fixed coil primary heat exchangers

The thermal fluid contained in the external puffer and in the primary heat exchangers must operate "closed loop" (without oxygen), this to avoid corrosion.



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
Operation (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 glaze
	Operation (P max. / T max.):	
Upper exchanger (boiler)	Material:	S 235 Jr
	Internal protective processing:	Rough
	External protective processing:	Rough
Lower exchanger (solar)	Typology:	Fixed spiral coil
Operation (P max. / T max.):		12 bar / 95°C
General characteristics	Capacity:	600 - 2000 Lt
	Warranty:	5 years
	Insulation:	- Flexible Polyester + pvc: Fire resistance class B2 (DIN4102)
		- Rigid insulation: - for capacities 600/800/1000/1500/2000 Lt in polyurethane + pvc: Fire resistance class B3 (DIN 4102) - for capacity 1250 Lt polyester (15) + polystyrene (85) + pvc: Fire resistance class B2 (DIN4102)
Reference legislation:	- PED 14/68/UE Art. 4 Par. 3 (Pressure equipment) - M.D. of 6th April 2004 N.174 (suitability of materials in contact with SHW) - Directive 2009/125/CE (Energy related Products)	

FITTINGS  
(pag. 152)



Electronic control unit



Electrical resistance 1 1/2 connection



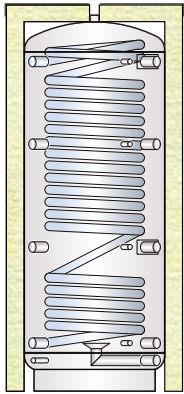
Thermostat



Thermometer

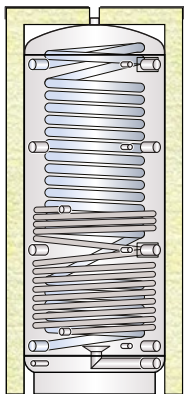


Sanitary recirculation kit



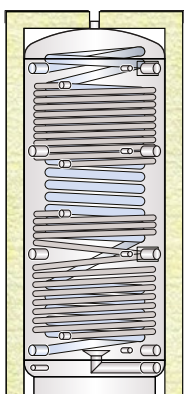
### MX0W - Maxiwarm combined thermal accumulator without coil

Flexible polyester insul. 100 mm thick + pvc			Rigid insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
-	-	-	MX0W 00600 R	50	C	-
MX0W 00800 F	D	-	MX0W 00800 R	100	C	-
MX0W 01000 F	D	-	MX0W 01000 R	100	C	-
MX0W 01250 F	D	-	MX0W 01250 R	100	C	-
MX0W 01500 F	D	-	MX0W 01500 R	100	C	-
MX0W 02000 F	D	-	MX0W 02000 R	100	C	-



### MX1W - Maxiwarm combined thermal accumulator with a coil

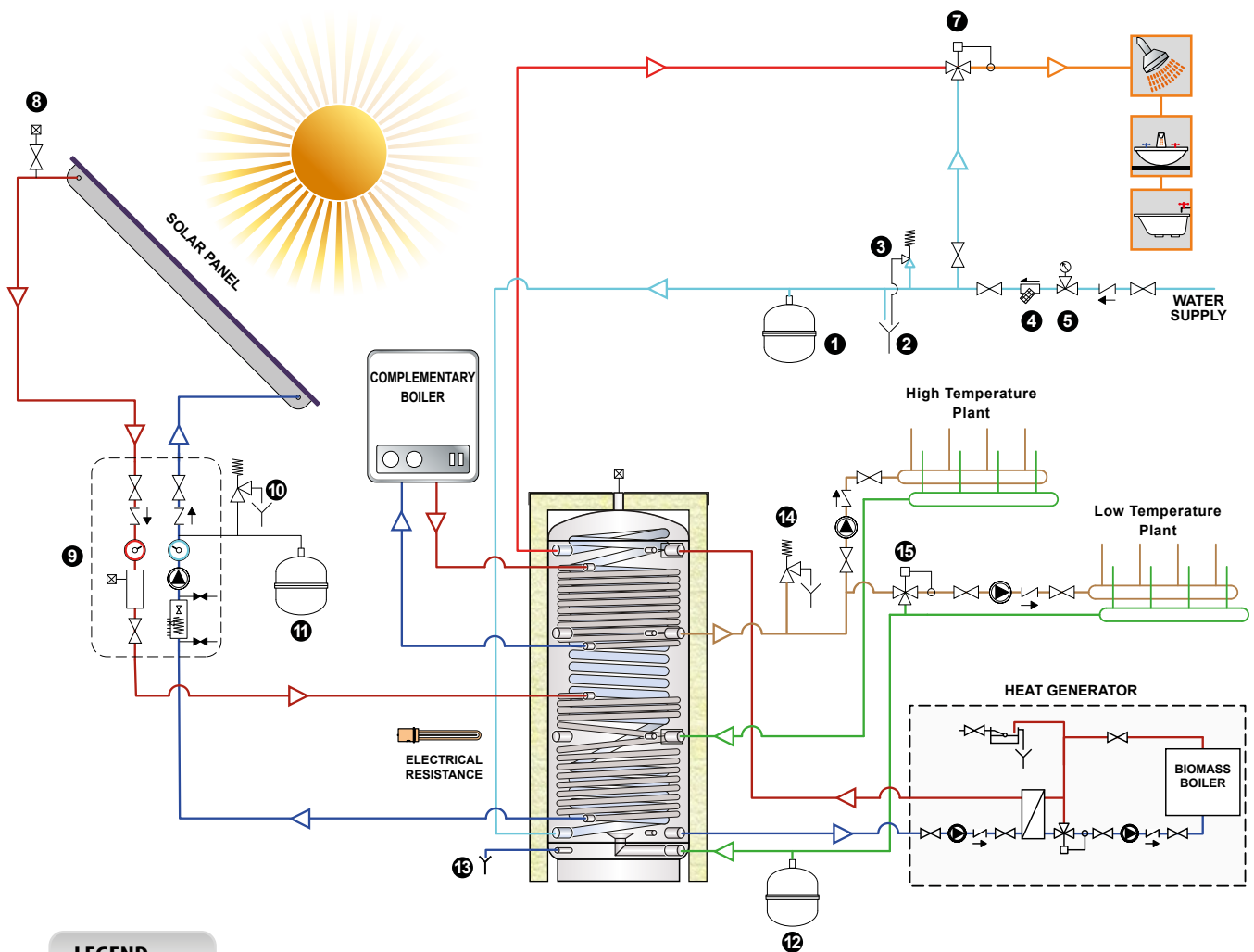
Flexible polyester insul. 100 mm thick + pvc			Rigid insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
-	-	-	MX1W 00600 R	50	C	-
MX1W 00800 F	D	-	MX1W 00800 R	100	C	-
MX1W 01000 F	D	-	MX1W 01000 R	100	C	-
MX1W 01250 F	D	-	MX1W 01250 R	100	C	-
MX1W 01500 F	D	-	MX1W 01500 R	100	C	-
MX1W 02000 F	D	-	MX1W 02000 R	100	C	-



### MX2W - Maxiwarm combined thermal accumulator with two coils

Flexible polyester insul. 100 mm thick + pvc			Rigid insulation + pvc			
Code	ErP	€	Code	Thickness (mm)	ErP	€
-	-	-	MX2W 00600 R	50	C	-
MX2W 00800 F	D	-	MX2W 00800 R	100	C	-
MX2W 01000 F	D	-	MX2W 01000 R	100	C	-
MX2W 01250 F	D	-	MX2W 01250 R	100	C	-
MX2W 01500 F	D	-	MX2W 01500 R	100	C	-
MX2W 02000 F	D	-	MX2W 02000 R	100	C	-

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

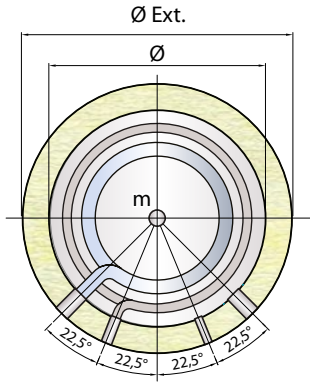
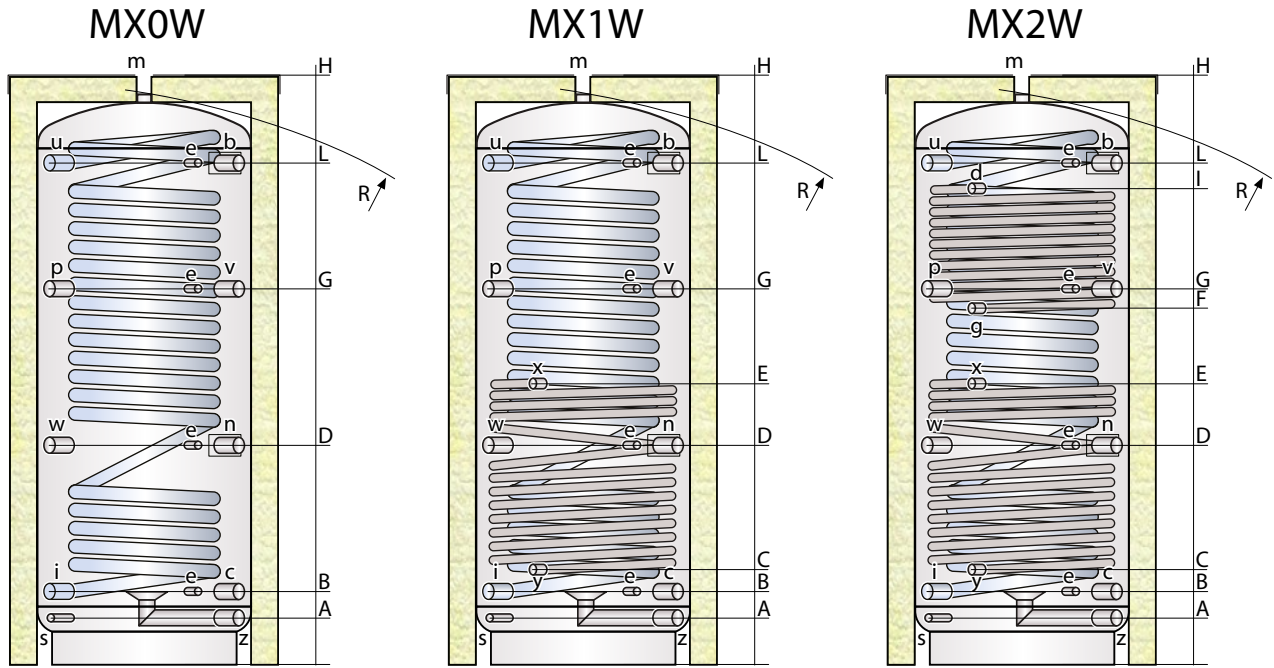


- LEGEND**
- 1. Sanitary expansion vessel
  - 2. Sanitary drain
  - 3. Sanitary safety valve (6 bar)
  - 4. Dirt filter
  - 5. Pressure reducer
  - 7. Sanitary mixing valve
  - 8. Vent with shut-off
  - 9. Solar power managing module
  - 10. Solar power safety unit (6 bar)
  - 11. Solar expansion vessel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

Model	sanitary exchanger			
	Sq.m. (Lt)	Power* (kW)	Flow in continuous SHW * (Lt/h)	Efficiency coefficient (DIN 4708) NL*
MX_W 00600R	5,5 (27,5)	46,8	1149	2,8
MX_W 00800_	7,0 (35,0)	67,2	1651	3,5
MX_W 01000_	7,5 (37,5)	74,3	1824	4,0
MX_W 01250_	8,5 (42,5)	86,7	2130	6,8
MX_W 01500_	10 (50,0)	108,0	2654	9,2
MX_W 02000_	12 (60,0)	134,4	3302	10,8

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

For the purposes of the Directive (ErP) 2009/125 / EC Regulation N° 812/2013 and N° 814/2013 the results of the energy measurements are given on page 235  
The heat outputs of the primary side lower/upper heat exchanger are outlined on page 104



- b biomass boiler flow
- c biomass boiler return
- d boiler flow
- e thermometer - probe
- g boiler return
- i sanitary cold water inlet
- m vent puffer
- n heating system return
- p service connection
- s discharge
- 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

Model	Dimensions (mm)				Exchanger (Sq.m.)			Weight MX2W (Kg)
	Ø	H	Ø Ext **	R	Lower	Upper	Sanitary Inox	
MX_W 00600R	650	1895	750	2050*	2,50	1,80	5,50	175
MX_W 00800_	790	1750	990	1745	2,50	2,00	7,00	212
MX_W 01000_	790	2110	990	2095	3,50	2,50	7,50	253
MX_W 01250_	950	2075	1150	2090	3,80	2,60	8,50	289
MX_W 01500_	1000	2115	1200	2145	4,00	2,80	10,00	316
MX_W 02000_	1100	2350	1300	2385	4,80	3,80	12,00	371

\* For the 600 Lt version the diagonal of rollover it refers to the insulated tank  
 \*\* All insulations are removable except model 600 Lt

Model	Quotes (mm)										Connections (gas)				
	A	B	C	D	E	F	G	I	L	dg x ys	e	iu	bc	mn	pvwz
MX_W 00600R	135	235	315	700	1000	1120	1270	1480	1630	1"	1/2"	1"1/4	1"1/2		
MX_W 00800_	170	275	355	655	875	1015	1145	1345	1410	1"	1/2"	1"1/4	1"1/2		
MX_W 01000_	170	275	350	810	1035	1195	1355	1675	1755	1"	1/2"	1"1/4	1"1/2		
MX_W 01250_	215	320	400	745	1060	1200	1380	1600	1705	1"	1/2"	1"1/4	1"1/2		
MX_W 01500_	235	340	420	765	1080	1220	1400	1620	1725	1"	1/2"	1"1/4	1"1/2		
MX_W 02000_	265	370	450	930	1090	1230	1435	1710	1945	1"	1/2"	1"1/4	1"1/2		

Combined Thermal Accumulators