ECO XL

Thermodynamic Solar Solution to heat domestic water for industrial use

Equipment with 6 to 40 solar panels.
Capacities of 1000 to 6000 litres.
Stainless Steel Cylinders AISI316.

ECO XL

HOTELS, HOSPITALS, SCHOOLS, SPORTS HALLS, INDUSTRY WITH **DOMESTIC ECONOMY**

THE MOST EVOLVED INDUSTRIAL SOLUTION

- POSSIBILITY OF ADAPTING THE EXISTING INSTALLATION WITHOUT THE NEED FOR CIVIL CONSTRUCTION WORKS.
- HEAT IS CAPTURED THROUGH SOLAR RADIATION, ENVIRONMENT TEMPERATURE, RAIN, WIND AND EVEN SNOW.
- THE HEAT PRODUCED ON COLDER DAYS, EVEN AT NIGHT IS SUFFICIENT TO ATTAIN THE WATER TEMPERATURE DESIRED.
- THE SOLAR PANELS ARE LIGHT, DISCREET AND HAVE VERSATILITY IN TERMS OF WHERE TO PUT THEM.
- THE ENERGY CONSUMPTION OF THE EQUIPMENT IS REDUCED DUE TO A VERY EFFICIENT COMPRESSOR.

MAXIMUM EFFICIENCY

1. Magnesium Anode
2. High density insulation
3. DHW Cylinder
4. Water/water serpentine heat exchanger
5. Finned tube heat exchanger
6. Outside coating

Versions with 1 or 2 Cylinders

Stainless Steel AISI316 Cylinders with finned tube heat exchanger

With or without water/water heat exchanger

Equipment from 6 up to 40 Thermodynamic Solar Panels

Capacities from 1000 up to 6000 litres

- DOUBLE WALL CONDENSERS
- 3rd GENERATION SOLAR ENERGY
- SOLAR HOT WATER UP TO 60ºC AVAILABLE
- ALMOST NON-EXISTENT MAINTENANCE
- UP TO 3 CYCLES OF HOT WATER REPLACEMENT SYSTEM CAPACITY PER DAY

WARRANTY 5 YEARS CYLINDER

WARRANTY 10 YEARS SOLAR PANEL

Check warranty conditions

ENERGIE THERMODYNAMIC SOLAR ENERGY

Thermodynamic Solar Systems for Large Volumes of Domestic Hot Water with a Cylinder

ECO ▢▢▢▢ I ▢▢ and ECO ▢▢▢▢ IX ▢▢
1000 to 2000

1 Stainless Steel Cylinder with Simple Flange
1 High Efficiency Finned Tube Heat Exchanger
Optional Water/Water Serpentine Heat Exchanger
1 Solar Block

Model	Litres	Solar Block
Eco 1000	1000	6
Eco 1500	1500	12
Eco 2000	2000	12, 16

▢▢▢▢ Represents the capacity of the equipment
▢▢ Represents the number of panels

Thermodynamic Solar Systems for Big Volumes of Domestic Hot Water with two Cylinders

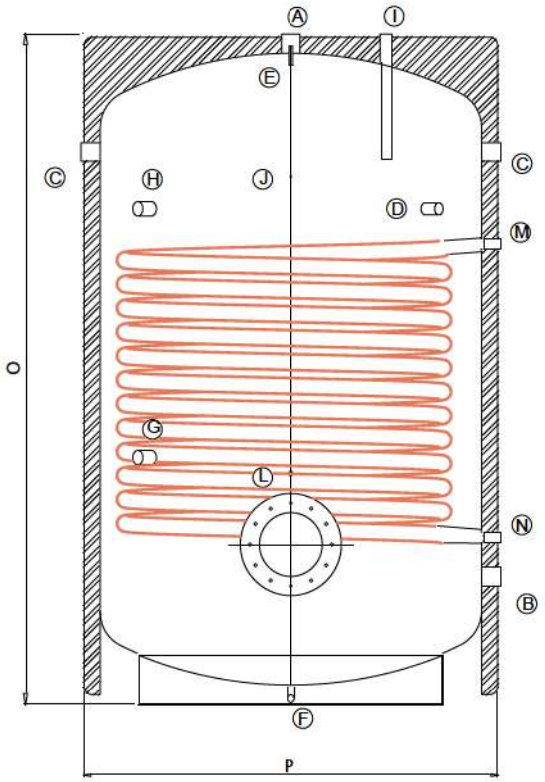
ECO ▢▢▢▢ ID ▢▢ and ECO ▢▢▢▢ IXD ▢▢
2000 to 6000

2 Stainless Steel Cylinders with Simple Flange
2 High Efficiency Finned Tube Heat Exchangers
Optional Water/Water Serpentine Heat Exchanger
1 Solar Block

Model	Litres	Solar Block
Eco 2000	2x1000	12, 16
Eco 3000	2x1500	16, 28
Eco 4000	2x2000	28
Eco 6000	2x3000	40

▢▢▢▢ Represents the capacity of the equipment
▢▢ Represents the number of panels

STAINLESS Cylinder



Letter	1000 Inox	1500 Inox	2000 Inox	3000 Inox
A	1" 1/4 F	1" 1/2 F	2" F	2" F
B	1" 1/4 F	1" 1/2 F	2" F	2" F
C	1" 1/4 F	1" 1/2 F	2" F	2" F
D	1" 1/4 F	1" 1/4 F	1" 1/4 F	1" 1/4 F
E	1/2" F	1/2" F	1/2" F	1/2" F
F	1" F	1" F	1" F	1" F
G	1/2" F	1/2" F	1/2" F	1/2" F
H	1/2" F	1/2" F	1/2" F	1/2" F
I	1" F	1" 1/4 F	1" 1/4 F	1" 1/4 F
J	1/2" F	1/2" F	1/2" F	1/2" F
L	1/2" F	1/2" F	1/2" F	1/2" F
M	1" 1/4 F	1" 1/4 F	1" 1/4 F	1" 1/4 F
N	1" 1/4 F	1" 1/4 F	1" 1/4 F	1" 1/4 F
O	2010mm	2100mm	2160mm	2300mm
P	930mm	1140mm	1300mm	1500mm

Note: Technical drawing of the Solar Block on page 54

DURATION OF THE HEATING CYCLE

Average period of time necessary for the **total volume** of water in the equipment to reach the desired temperature

Model		Eco 1000	Eco 1500	Eco 2000	Eco 3000	Eco 4000	Eco 6000
Solar Panels	Nº.	6	12	12 / 16	16 / 28	28	40
Nominal Capacity	Litres	1000	1500	2000	3000	4000	6000
Maximum Thermal Power	W	7500	16580	16580 / 24210	24210 / 38220	38220	54600
Power Consumption	W	1230	2010	2010 / 3210	3210 / 5650	5650	8450
Thermal storage	Unit.	1	1	1 or 2	1 or 2	2	2
Users*		22	34	45	68	90	135

*Considering an average consumption of 50 litres / person / day

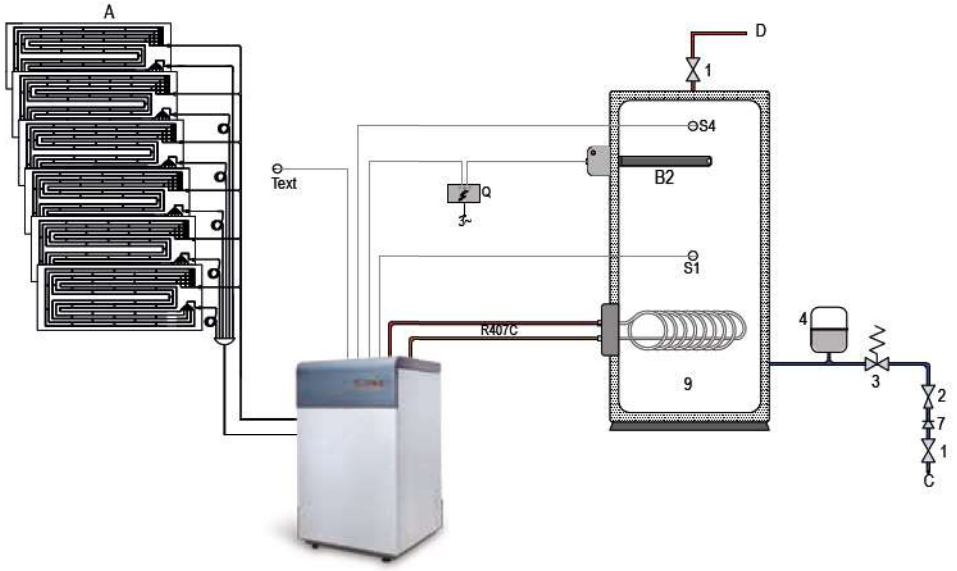
Stainless Steel Cylinders

Name	Nominal Capacity	Cylinder	Panels	N. Flanges	Coil	Electrical Suply*
Eco 1000I6	1000	Stainless	6	1	No	S or T
Eco 1000IX6	1000	Stainless	6	1	Yes	S or T
Eco 1500I12	1500	Stainless	12	1	No	S or T
Eco 1500IX12	1500	Stainless	12	1	Yes	S or T
Eco 2000I12	2000	Stainless	12	1	No	S or T
Eco 2000IX12	2000	Stainless	12	1	Yes	S or T
Eco 2000ID12	2×1000	Stainless	12	1	No	S or T
Eco 2000IXD12	2×1000	Stainless	12	1	Yes**	S or T
Eco 2000I16	2000	Stainless	16	2	No	S or T
Eco 2000IX16	2000	Stainless	16	2	Yes	S or T
Eco 2000ID16	2×1000	Stainless	16	1	No	S or T
Eco 2000IXD16	2×1000	Stainless	16	1	Yes**	S or T
Eco 3000I16	3000	Stainless	16	2	No	S or T
Eco 3000IX16	3000	Stainless	16	2	Yes	S or T
Eco 3000ID16	2×1500	Stainless	16	1	No	S or T
Eco 3000IXD16	2×1500	Stainless	16	1	Yes**	S or T
Eco 3000I28	3000	Stainless	28	2	No	T
Eco 3000IX28	3000	Stainless	28	2	Yes	T
Eco 3000ID28	2×1500	Stainless	28	1	No	T
Eco 3000IXD28	2×1500	Stainless	28	1	Yes**	T
Eco 4000ID28	2×2000	Stainless	28	1	No	T
Eco 4000IXD28	2×2000	Stainless	28	1	Yes**	T
Eco 6000ID40	2×3000	Stainless	40	1	No	T
Eco 6000IXD40	2×3000	Stainless	40	1	Yes**	T

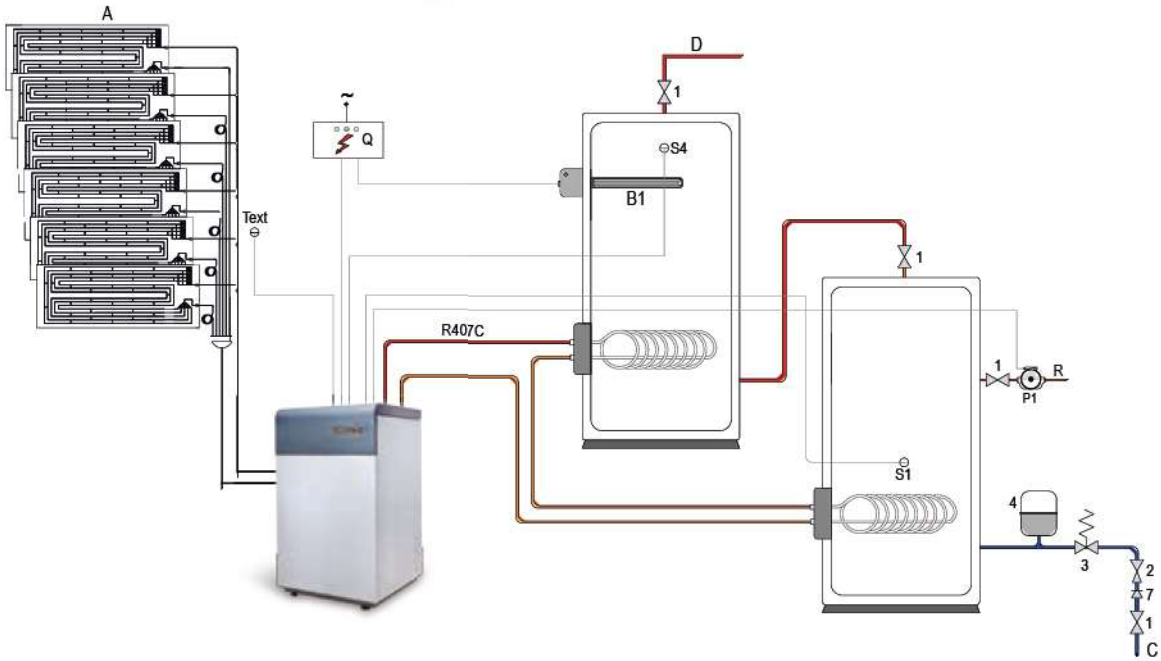
* The suffix Single-Phase (S) or Three-Phase (T) is added at the end of each designation.
** Only one of the heaters has a serpentine.

The Thermodynamic Solar Solutions aimed at heating domestic water for industrial use have enough versatility in order for their application to meet the needs of the case at hand.

ECO XL
Standard Installation
with Electrical Support



ECO XL
Installation with
2 Cylinders
in Series with
Electrical Support



1	Shut-off Valve	7	Check Valve (non-return)	D	Hot Water Outlet	Text	Outside Thermostat
2	Pressure Reducer	9	Thermal Storage	P1	Circulating Pump 1	B1	Resistance Kit (Support)
3	Security Valve	A	Thermodynamic Solar Panels	S1	Temperature Sensor S1	B2	Resistance Kit (Support)
4	Expansion Valve	C	Cold Water Inlet	S4	Temperature Sensor S4	Q	Control Box

Choose your model

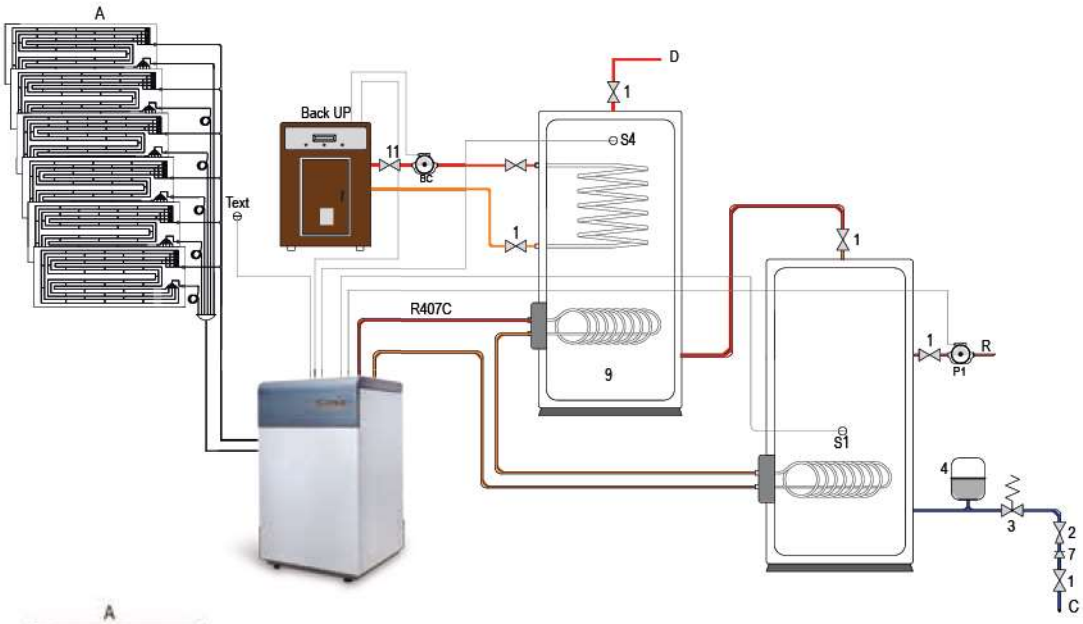
ECO	8888	A	A	A	88	A
1	2	3	*4	*5	6	7

Example

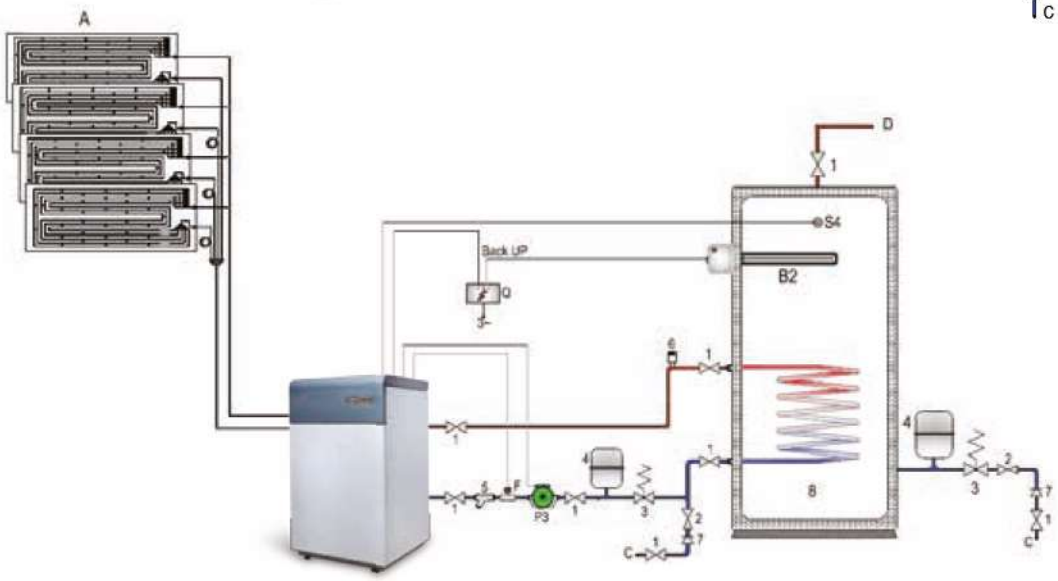
ECO 3000 IXD 28 T ECO of 3000 litres capacity with 2 Stainless steal cylinders with a high productivity exchanger, 28 panels, three-phase version.

It is also in thinking about the needs of the professionals in this sector that we make an ample range of equipment available so that any new or existing installation is no longer a challenge and is simplified. The focus is always on economy and efficiency.

ECO XL
Installation with
2 Cylinders
in Series with Boiler
support



ECO XL
Use of Existing Cylinder



1	Shut-off Valve	7	Check Valve (non-return)	D	Hot Water Outlet	BC	Boiler Circulator Pump
2	Pressure Reducer	9	Thermal Storage	S1	Temperature Sensor S1	CA	Boiler (Support)
3	Security Valve	A	Thermodynamic Solar Panels	S4	Temperature Sensor S4		
4	Expansion Valve	C	Cold Water Inlet	Text	Outside Thermostat		

1 Model
Eco XL

2 Capacity (litres)
1000, 1500, 2000, 3000, 4000 ou 6000 litres

3 Cylinder Material
i (Stainless)

***4 Supplementary Coil (Stainless 6 Cylinders)**
X (optional)

***5 2 Cylinders**
D (Available in models Eco 2000, Eco 3000, Eco 4000 e Eco 6000) (optional)

6 Number of Solar Panels that make up the system

7 S Single-phase
T Three-phase

* Optional andwhen applicable
8888 Represents the capacity of equipment

Advantages in acquiring a Solar Block for Central Heating:

- LOW CO_2 EMISSIONS
- WITH ELECTRICITY PRICES GOING UP ALL THE TIME, THE RIGHT INVESTMENT IS IN EFFICIENCY TO OBTAIN MAXIMUM SAVING
- RENEWABLE ENERGY IN YOUR HOME
- MAKE YOUR HOME ENVIRONMENTALLY FRIENDLY

Comparison of primary energy consumption between different heating systems