

# COMBI PLUS

## Mixed storage tank

The COMBI PLUS gamma consists of inertial tanks for installations which use discontinuous energy sources, such as solar power systems, biomass systems and wood burning systems. Thanks to the internal exchanger with a stainless steel corrugated tube with a large surface, the instantaneous DHW production is guaranteed. There are three versions of which several capacities are available, from 600 to 2000 liters.

**COMBI PLUS A:** equipped with n°1 internal fixed exchanger with a stainless steel corrugated tube for instantaneous DHW production

**COMBI PLUS B:** equipped with n°2 internal fixed heat exchangers, one with a stainless steel corrugated tube for instantaneous DHW production and another for coupling to an ulterior heat source.

**COMBI PLUS C:** equipped with n°3 internal fixed heat exchangers, one with a stainless steel corrugated tube for instantaneous DHW production and two in carbon steel for coupling to other integrative heat sources

### ✓ Materials

The inertial tanks are made of high quality material, in particular:

**Coil for domestic use:** AISI 316L stainless steel

**Tank and integration coil:** ST235JR carbon steel

✓ **External protective treatment:** enameling with industrial varnish

### ✓ Insulation

Flexible polyurethane with a thickness of 100mm, covered with coloured PVC

### ✓ Available accessories

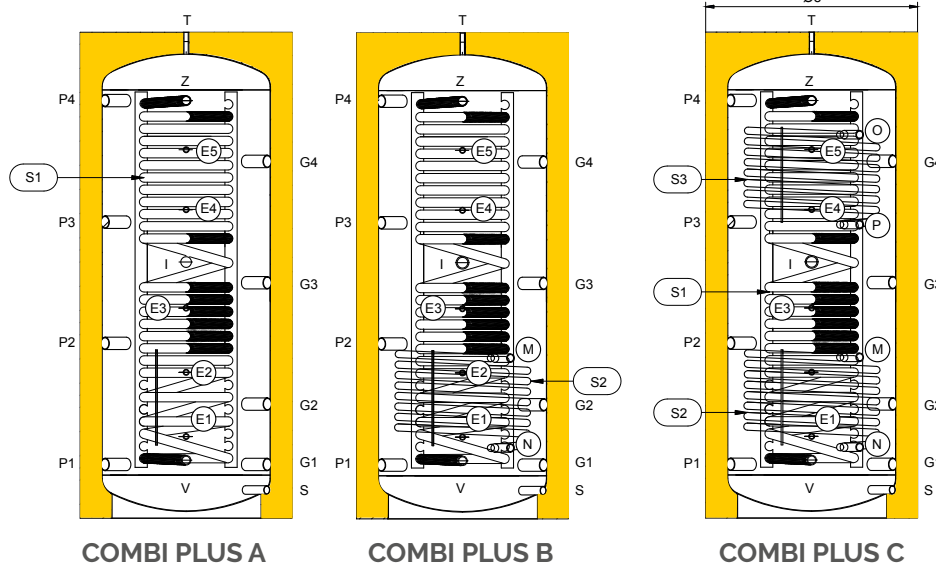
On demand, several adaptations and accessories are available: external plate heat exchanger kit, thermometer, thermostat and electrical resistor.



Storage tank		S1 Coil Circuit		S2-S3 Coil Circuit	
max. temperature	max. pressure	max. temperature	max. pressure	max. temperature	max. pressure
90°C	3 bar	90°C	6 bar	90°C	16 bar

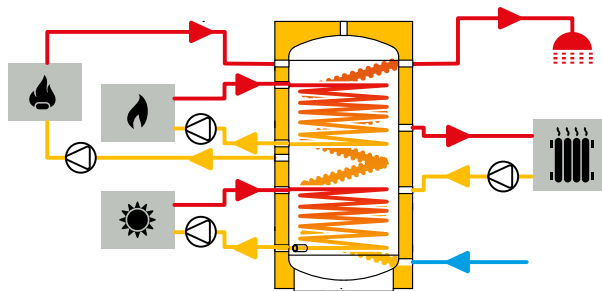
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## Dimensions



### Coupling chart

<b>G1</b>	heating return
<b>G2</b>	auxiliary - free
<b>G3</b>	low temperature heating supply
<b>G4</b>	high temperature heating supply
<b>P1</b>	auxiliary - free
<b>P2</b>	return energy source
<b>P3</b>	auxiliary - free
<b>P4</b>	supply energy source
<b>I</b>	electrical resistor
<b>V</b>	inlet cold water from the hydraulic circuit
<b>Z</b>	DHW outlet
<b>N</b>	inlet inferior fixed exchanger
<b>M</b>	outlet inferior fixed exchanger
<b>P</b>	outlet superior fixed exchanger
<b>O</b>	inlet superior fixed exchanger
<b>E1</b>	temperature probe
<b>E2</b>	temperature probe
<b>E3</b>	temperature probe
<b>E4</b>	temperature probe
<b>E5</b>	temperature probe
<b>S</b>	discharge



### Coupling chart

capacity l	G1..4 inch	P1..4 inch	i inch	V inch	Z inch	N inch	M inch	P inch	O inch	E1..5 inch	S inch	S1 m²	S3 m²	S3 m²
600	1 1/2	1 1/2	1 1/2	1 1/4	1 1/4	1'	1'	1'	1'	1/2'	1'	5,65	1,4	1,4
800	1 1/2	1 1/2	1 1/2	1 1/4	1 1/4	1'	1'	1'	1'	1/2'	1'	5,65	1,8	1,8
1000	1 1/2	1 1/2	1 1/2	1 1/4	1 1/4	1'	1'	1'	1'	1/2'	1'	6,95	1,8	1,8
1500	1 1/2	1 1/2	1 1/2	1 1/4	1 1/4	1'	1'	1'	1'	1/2'	1'	6,95	3	2,4
2000	1 1/2	1 1/2	1 1/2	1 1/4	1 1/4	1'	1'	1'	1'	1/2'	1'	8	4,5	3

### Height chart

cap. l	Øe mm	Ht mm	R* mm	P1 mm	P2 mm	P3 mm	P4 mm	G1 mm	G2 mm	G3 mm	G4 mm	V mm	Z mm	N mm	M mm	P mm	O mm	E1 mm	E2 mm	E3 mm	E4 mm	E5 mm
600	900	1900	2103	290	715	1145	1570	290	505	930	1355	285	1575	360	760	1120	1520	435	655	880	1230	1425
800	990	1880	2125	250	685	1115	1550	250	455	900	1335	270	1555	330	750	1060	1480	380	570	750	1150	1450
1000	990	2270	2477	250	815	1380	1950	250	530	1100	1665	270	1950	330	750	1370	1790	380	680	980	1440	1720
1500	1100	2665	2884	380	1015	1640	2260	380	705	1325	1950	400	2260	460	1260	1590	2190	510	875	1240	1680	2020
2000	1300	2500	2818	380	925	1475	2030	380	655	1205	1750	380	2030	450	1250	1410	1960	610	840	1070	1530	1830

R\*: reversal quota

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### COMBI PLUS A

capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
600	842020178X			97x97x205	195
800	842020179X			105x105x203	210
1000	842020180X			105x105x242	238
1500	842020181X			115x115x283	330
2000	842020182X			135x135x265	378

### COMBI PLUS B

capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
600	842020148X			97x97x205	205
800	842020149X			105x105x203	232
1000	842020150X			105x105x242	246
1500	842020151X			115x115x283	371
2000	842020152X			135x135x265	404

### COMBI PLUS C

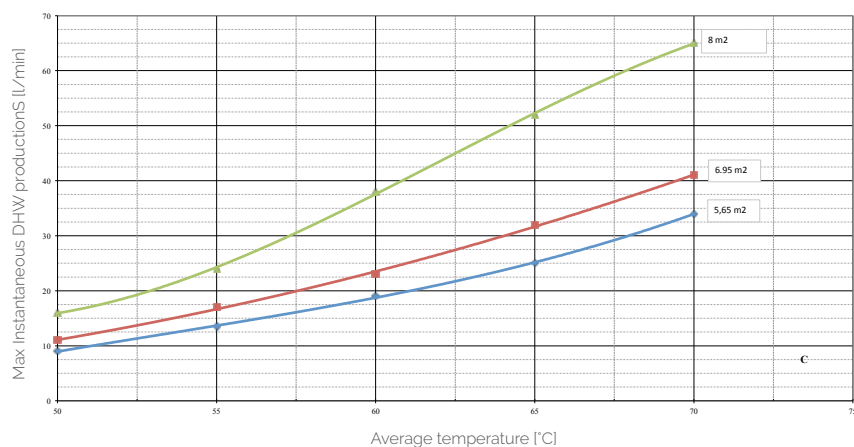
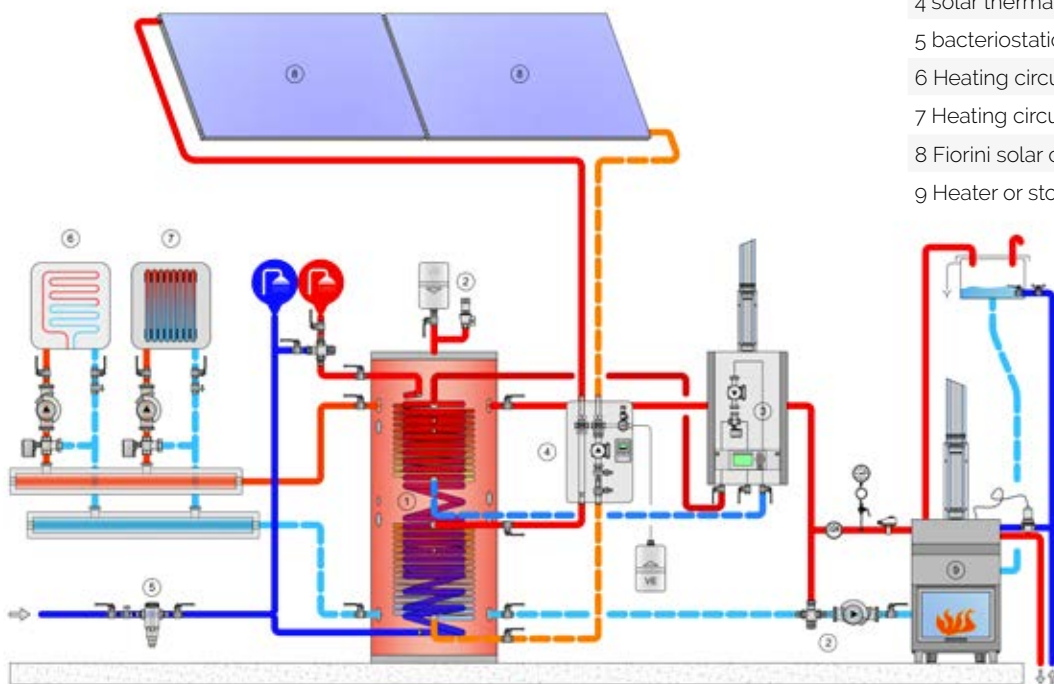
capacity l	code	price	energy label	packed	
				dimensions cm	weight kg
600	842020153X			97x97x205	220
800	842020154X			105x105x203	254
1000	842020155X			105x105x242	278
1500	842020156X			115x115x283	411
2000	842020157X			135x135x265	455

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## Installation chart

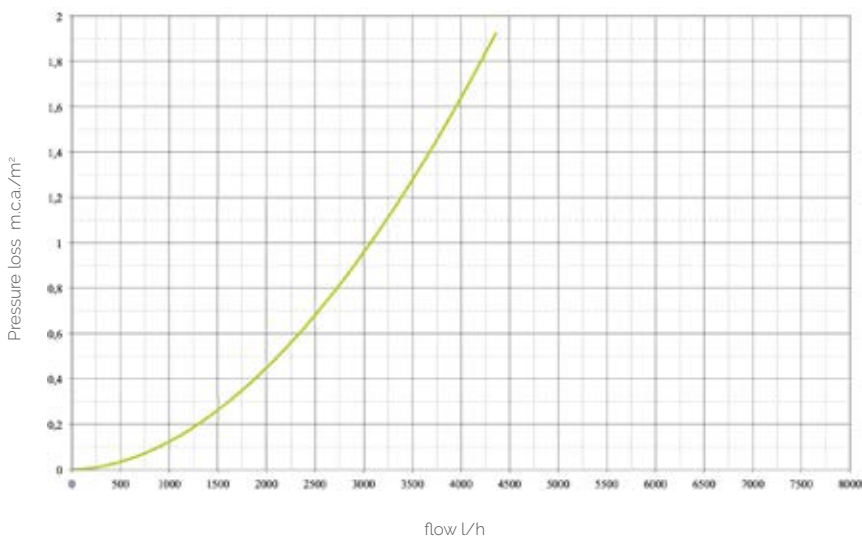
### List of components

- 1 PFC Fiorini Puffer
- 2 Safety unit
- 3 Heating by alternative source
- 4 solar thermal return unit
- 5 bacteriostatic cold water filter
- 6 Heating circuit 1
- 7 Heating circuit 2
- 8 Fiorini solar collectors
- 9 Heater or stove with open vessel



### Instantaneous DHW production

The chart indicates the maximum instantaneous DHW production (10-45°C) through the stainless steel coil in function of the storage temperature in the tank



### Pressure loss in the fixed coil

The pressure loss indicated in the chart refers to a surface area of 1 m² of the coil. Multiply this value with the exchange surface in order to come to the total pressure loss.