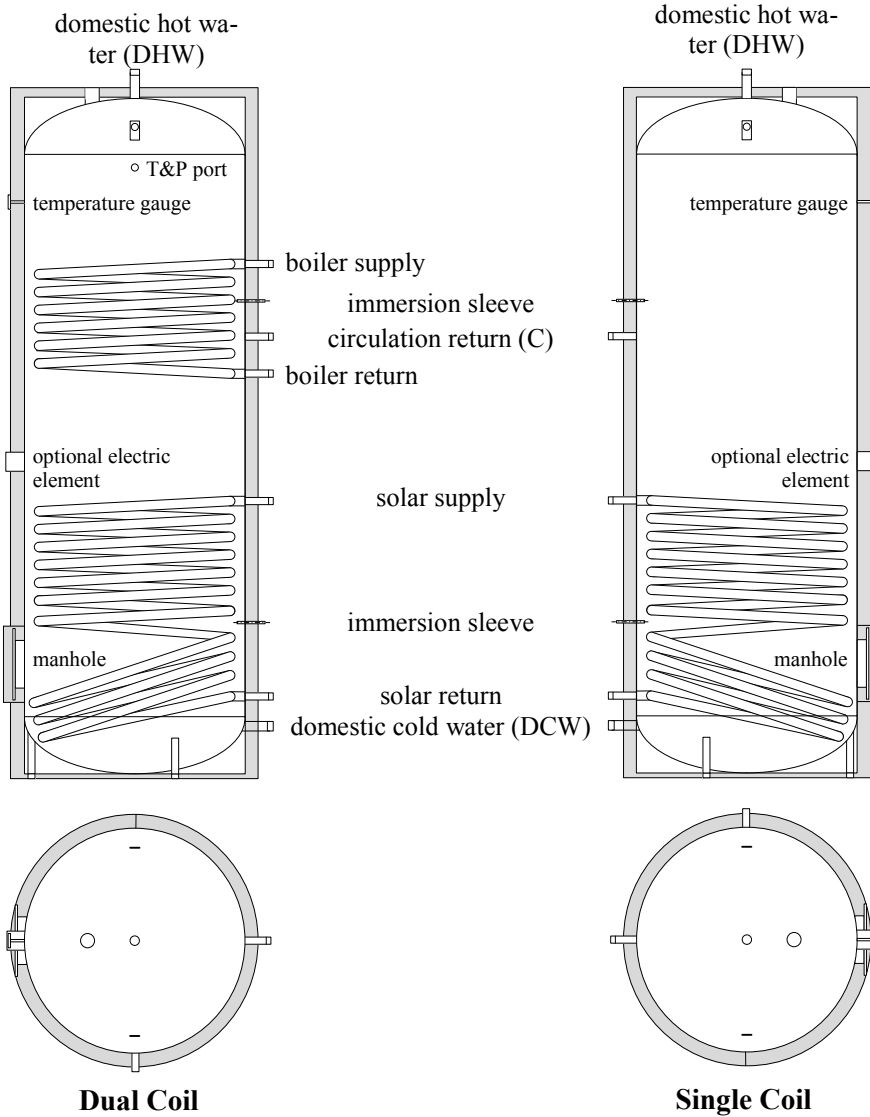


**MESys Solar**

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- Vertical DHW tank, glass-lined, with one or two internal coils
- Hard PU foam insulation with foil-clad casing

**Dimensions**

Tank:

SUNNY		80	119
capacity	[gal] / [l]	80 / 300	119 / 450
height	[in] / [mm]	67 / 1700	71 / 1800
tilted height	[in] / [mm]	71 / 1800	78 / 1970
diameter w/o insulation	[in] / [mm]	20 / 500	24 / 600
diameter with insulation	[in] / [mm]	24 / 600	28 / 700
insulation thickness	[in] / [mm]	2 / 50	2 / 50
weight (single coil)	[lbs] / [kg]	241 / 110	378 / 172
weight (double coil)	[lbs] / [kg]	251 / 114	388 / 176

**Connections** (height above floor level):

<b>SUNNY</b>			<b>80</b>	<b>119</b>
cold water DCW	1" NPT	[in] / [mm]	4.3 / 110	5.0 / 127
solar return	3/4" NPT	[in] / [mm]	7.1 / 180	8.1 / 205
solar supply	3/4" NPT	[in] / [mm]	22.8 / 580	28.7 / 730
boiler return*	3/4" NPT	[in] / [mm]	37.2 / 945	41.9 / 1065
circulation C	3/4" NPT	[in] / [mm]	41.1 / 1045	45.9 / 1165
boiler supply*	3/4" NPT	[in] / [mm]	47.8 / 1261	53.6 / 1361
hot water DHW	1" NPT		on top	on top

**Pressure and Temperature Rating**

<b>SUNNY</b>		<b>80</b>	<b>119</b>
max. tank pressure	[psi] / [bar]	150 / 10	150 / 10
max. upper coil pressure*	[psi] / [bar]	230 / 16	230 / 16
max lower coil pressure	[psi] / [bar]	230 / 16	230 / 16
max. tank temperature	[°F] / [°C]	200 / 95	200 / 95
max. upper coil temperature*	[°F] / [°C]	320 / 160	320 / 160
max lower coil temperature	[°F] / [°C]	320 / 160	320 / 160

**Technical Data Heat Exchangers**

<b>SUNNY</b>		<b>80</b>	<b>119</b>
capacity upper coil*	[gal] / [l]	1.3 / 5.0	1.6 / 6.3
surface area upper coil*	[ft²] / [m²]	8.6 / 0.8	10.8 / 1.0
tube length upper coil*	[ft] / [m]	25 / 7.6	31 / 9.5
capacity lower coil	[gal] / [l]	1.9 / 7.5	3.0 / 11.3
surface area lower coil	[ft²] / [m²]	12.9 / 1.2	20.5 / 1.9
tube length lower coil	[ft] / [m]	37 / 11.3	59 / 18

\* double coil tank only

**Pressure Drop through Coil at Flow Rate**

<b>SUNNY</b>		<b>Head Loss</b>	<b>80</b>	<b>119</b>
@ 2 gpm	upper/ lower coil	[ft]	0.06 / 0.09	0.08 / 0.15
@ 4 gpm	upper/ lower coil	[ft]	0.21 / 0.32	0.27 / 0.51
@6 gpm	upper/ lower coil	[ft]	0.34 / 0.85	0.57 / 1.08

**Additional Features**

- protective magnesium anode 1 1/4"
- weld-in immersion sleeves
- thermometer at the top
- manhole