

MST 600-2000 Thermal Store

Vessels for Combined Heating & DHW Systems



The Adveco range of carbon steel thermal storage tanks have been carefully designed to serve a combined heating and hot water application, and feature a stainless steel coil for potable water heating as well as up to two additional coils for use with central heating systems.

The vessels come as standard with high and low level flow and return connections at 90° to one another to allow the installation of the unit in a corner, and have extra tapings in the middle to be used with multiple heat sources, low and high grade heat sources, or varying return temperatures.

The MST range includes a dedicated high recovery corrugated stainless steel DHW coil to heat water instantaneously, as well as options for 0, 1, or 2 internal heat exchange coils for use with primary or renewable heat sources. Typically the coils are used with glycol-filled systems such as heat pumps or solar installations.

Almost any heating application can be served by the Adveco MST range, but for those that require special features a bespoke tank can be designed on request.

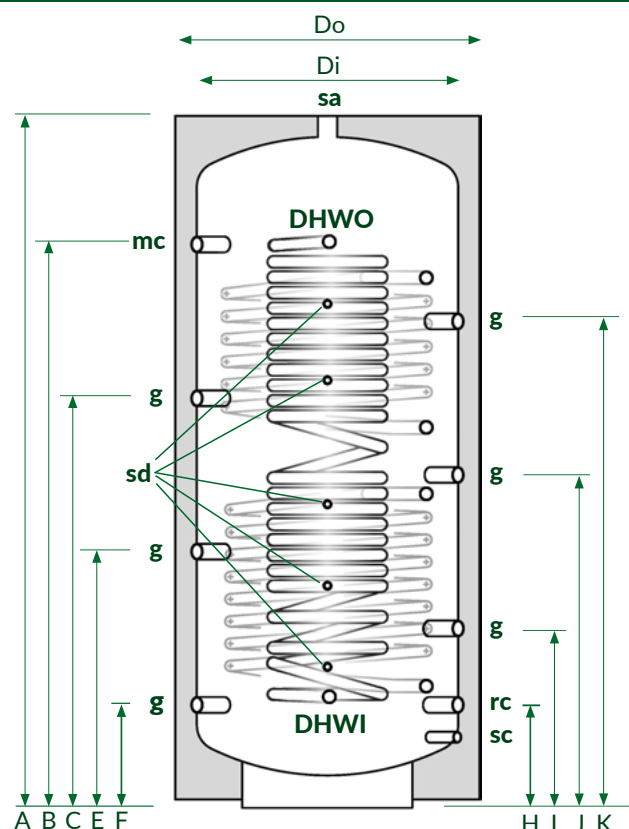
STANDARD FEATURES

- Working pressure 3 bar (tank); 6 bar (DHW coil); 16 bar (heating coils)
- xx00 range with stainless steel DHW coil only
- xx01 range with a single primary heat exchange coil
- xx02 range with two separate heat exchange coils, renewables ready or can be combined to serve one very high capacity primary source
- 100mm removable soft insulation jacket
- Ancillaries available, including:
 - Control and overheat thermostats
 - Automatic air vents and gauges

Coil Data:

Model	DHW Area (m ²)	DHW Output (kW)	Bottom coil Area (m ²)	Bottom coil Input (kW)	Top coil Area (m ²)	Top coil Input (kW)
MST600	5.65	124	---	---	---	---
MST601	5.65	124	1.4	17	---	---
MST602	5.65	124	1.4	17	1.4	17
MST800	5.65	124	---	---	---	---
MST801	5.65	124	1.8	23	---	---
MST802	5.65	124	1.8	23	1.8	23
MST1000	6.95	153	---	---	---	---
MST1001	6.95	153	1.8	23	---	---
MST1002	6.95	153	1.8	23	1.8	23
MST1500	6.95	153	---	---	---	---
MST1501	6.95	153	3.0	38	---	---
MST1502	6.95	153	3.0	38	2.4	30
MST2000	8.00	175	---	---	---	---
MST2001	8.00	175	4.5	56	---	---
MST2002	8.00	175	4.5	56	3.0	38

DHW output capacities based on 80/60:10/60 flow temperatures.
Coil input capacities based on 80/60 flow/return temperatures with 50°C tank temperature.



Connections:

Port	Purpose	MST 600/1/2	MST 800/1/2	MST 1000/1/2	MST 1500/1/2	MST 2000/1/2
mc	Flow from heat source	1.5	1.5	1.5	1.5	1.5
rc	Return to heat source	1.5	1.5	1.5	1.5	1.5
DHWI	DHW inlet	1.25	1.25	1.25	1.25	1.25
DHWO	DHW outlet	1.25	1.25	1.25	1.25	1.25
sc	Drain outlet	1.0	1.0	1.0	1.0	1.0
sa	Air vent connection	1.0	1.0	1.0	1.0	1.0
sd	Sensors	0.5	0.5	0.5	0.5	0.5
g	System flow and return connections	1.5	1.5	1.5	1.5	1.5
ti	Top coil inlet (xx02 tanks only)	1.0	1.0	1.0	1.0	1.0
to	Top coil outlet (xx02 tanks only)	1.0	1.0	1.0	1.0	1.0
bi	Bottom coil inlet (xx01 or xx02 only)	1.0	1.0	1.0	1.0	1.0
bo	Bottom coil outlet (xx01 or xx02 only)	1.0	1.0	1.0	1.0	1.0

Dimensions are in inches

Dimensions:

Model	Litres	Do	Di	A	B	C	E	F	H	I	J	K	Dry weight (kg)
MST600/1/2	600	850	650	1900	1570	1145	715	285	290	505	930	1575	205/220/235
MST800/1/2	800	990	790	1880	1550	1115	685	270	250	455	900	1555	210/235/250
MST1000/1/2	1000	1050	850	2270	1950	1380	815	270	250	530	1100	1950	238/250/268
MST1500/1/2	1500	1200	1000	2665	2260	1640	1015	400	380	705	1325	2260	330/352/368
MST2000/1/2	2000	1300	1100	2500	2030	1475	925	380	380	655	1205	2030	378/398/420

Dimensions are in millimetres