

Solid Energy AWB252 Data Sheet

Printout date:

19/09/2023

Heat pump data sheet

	21	22	23	24	25	21	22	23	24	25
System Totals	AWB252 - Air to water					AWB252 - Air to water				
Air temperature C	-5	-3	0	5	10	-5	-3	0	5	10
Air humidity	80	80	80	80	80	80	80	80	80	80
Heating flow C	70.0	70.0	70.0	70.0	70.0	65.0	65.0	65.0	65.0	65.0
Heating return C	50.0	50.0	50.0	50.0	50.0	45.0	45.0	45.0	45.0	45.0
Cooling flow C										
Cooling return C										
System performance data										
Heat kW	1412.2	1482.5	1534.0	1632.1	1747.2	1469.0	1510.2	1550.5	1649.9	1766.3
Electric kW incl. 5 %	575.2	584.3	569.8	551.0	537.4	592.3	580.7	554.6	533.9	519.4
Cooling kW	779.2	834.7	889.3	985.4	1090.6	876.8	929.5	940.1	1043.5	1155.5
COPheat total	2.45	2.54	2.69	2.96	3.25	2.40	2.51	2.80	3.09	3.40
Compressor units data alone - EN12900										
Electric compressors only	547.8	556.4	542.6	524.7	511.8	502.3	512.9	528.2	508.5	494.6
COPheat compressor only	2.58	2.66	2.83	3.11	3.41	2.70	2.80	2.94	3.24	3.57
Pump heating circuit										
Flow circuit m3/h	60.7	63.7	65.9	70.1	75.1	58.4	61.6	66.6	70.9	75.9
Pressure drop Condenser kPa	39.9	44.0	47.1	53.3	61.1	36.9	41.1	48.1	54.5	62.4
Pipe size - (choose the largest)	Dim flow: 70.1		Pipe :		DN100	Dim flow: 70.9		Pipe :		DN100
Subcooler circuit										
Flow circuit m3/h	6.2	6.5	6.5	6.5	6.5	5.7	6.1	6.6	6.6	6.6
Pipe size - (choose the largest)	Dim flow: 6.5		Pipe :		DN40	Dim flow: 6.6		Pipe :		DN40
Pump cooling circuit - 40% glycol										
Flow circuit m3/h	-133.9	-143.4	-152.8	-169.3	-187.4	-135.2	-145.5	-161.5	-179.3	-198.6
Pressure drop Evaporator kPa	20.9	24.0	27.3	33.5	41.0	21.3	24.7	30.5	37.5	46.0
Pipe size - (choose the largest)	Dim flow: -133.9		Pipe :		#N/A	Dim flow: -135.2		Pipe :		#N/A
Footprint, weight and sound										
Footprint aircoolers	8,6 x 18,4					8,6 x 18,4				
Footprint pumps and valves	2 x 2					2 x 2				
Footprint compressor unit	2,5 x 7					2,5 x 7				
Weight aircoolers	17280					17280				
Weight compressor unit - kg	10690					10690				
Sound level in 10 meters	57.1					57.1				

Hydro carbon systems with semihermtic screw compressor:

Refrigerat gives you:

Natural refrigerant enviromental friendly and low cost.

Low pressure and by that standard components.

Low discharge temperature.


No oil change needed.


Compressor simplicity gives you:


No spareparts to be replaced.


No continues service cost.

High reliability.









Measurement & Performance will be subject to EN12900

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