



Tabulated calculation - 2S_H

Input

Model	2S-H1500
Refrigerant	R404A
Reference temperature	Dew temperature
Suction temperature	20.0 °C
Evaporator outlet temperature	20.0 °C
Liquid subcooling	0.0 K
Voltage / phases / frequency	380-420 V / 3 / 50 Hz

Cooling capacity - At evaporator W

	Te = -30.0	Te = -35.0	Te = -40.0	Te = -45.0	Te = -50.0	Te = -55.0	Te = -60.0	Te = -65.0
Tc = 30.0	21533	17455	13963	11008	8537	6503	4853	
Tc = 35.0	20948	16987	13590	10712	8305	6322	4713	
Tc = 40.0	20374	16527	13224	10423	8079	6147	4576	
Tc = 45.0	19810	16076	12866	10142	7860	5975	4442	
Tc = 50.0	19255	15634	12517	9868	7646	5808		
Tc = 55.0	18711	15202	12177	9602	7438			
Tc = 60.0								
Tc = 65.0								

Cooling capacity - At compressor W

	Te = -30.0	Te = -35.0	Te = -40.0	Te = -45.0	Te = -50.0	Te = -55.0	Te = -60.0	Te = -65.0
Tc = 30.0	21533	17455	13963	11008	8537	6503	4853	
Tc = 35.0	20948	16987	13590	10712	8305	6322	4713	
Tc = 40.0	20374	16527	13224	10423	8079	6147	4576	
Tc = 45.0	19810	16076	12866	10142	7860	5975	4442	
Tc = 50.0	19255	15634	12517	9868	7646	5808		
Tc = 55.0	18711	15202	12177	9602	7438			
Tc = 60.0								
Tc = 65.0								



Absorbed power kW

	Te = -30.0	Te = -35.0	Te = -40.0	Te = -45.0	Te = -50.0	Te = -55.0	Te = -60.0	Te = -65.0
Tc = 30.0	11.95	11.09	10.17	9.22	8.26	7.31	6.40	
Tc = 35.0	12.69	11.71	10.68	9.63	8.59	7.57	6.60	
Tc = 40.0	13.40	12.30	11.16	10.02	8.90	7.81	6.78	
Tc = 45.0	14.09	12.86	11.62	10.39	9.19	8.04	6.96	
Tc = 50.0	14.73	13.39	12.05	10.74	9.47	8.26		
Tc = 55.0	15.35	13.90	12.47	11.07	9.73			
Tc = 60.0								
Tc = 65.0								

Absorbed current A

	Te = -30.0	Te = -35.0	Te = -40.0	Te = -45.0	Te = -50.0	Te = -55.0	Te = -60.0	Te = -65.0
Tc = 30.0	23.6	22.6	21.5	20.4	19.4	18.5	17.7	
Tc = 35.0	24.5	23.3	22.1	20.9	19.7	18.7	17.8	
Tc = 40.0	25.5	24.0	22.6	21.3	20.1	19.0	18.0	
Tc = 45.0	26.3	24.7	23.2	21.7	20.4	19.2	18.2	
Tc = 50.0	27.2	25.4	23.7	22.1	20.7	19.4		
Tc = 55.0	28.1	26.1	24.3	22.5	21.0			
Tc = 60.0								
Tc = 65.0								

Mass flow kg/h

	Te = -30.0	Te = -35.0	Te = -40.0	Te = -45.0	Te = -50.0	Te = -55.0	Te = -60.0	Te = -65.0
Tc = 30.0	390.7	308.1	240.0	184.4	139.6	103.9	75.8	
Tc = 35.0	385.8	303.9	236.5	181.5	137.2	101.9	74.3	
Tc = 40.0	380.8	299.7	232.9	178.6	134.8	100.0	72.7	
Tc = 45.0	375.8	295.5	229.4	175.7	132.4	98.1	71.1	
Tc = 50.0	370.8	291.2	225.9	172.7	130.0	96.1		
Tc = 55.0	365.7	286.9	222.3	169.8	127.6			
Tc = 60.0								
Tc = 65.0								