Performance data

Rating condition: EN 12900 | MT | SH 10 K

Superheat: 10.0 K

Subcooling: 0 K

Te = Evaporating temperature [°C]

Tc = Condensing temperature [°C]

MT028-5. Cooling capacity [kW]

Tc/Te	-25.0	-20.0	-15.0	-10.0	-5.0	0	5.0	10.0	15.0
30.0	2.029	2.783	3.657	4.662	5.808	7.108	8.572	10.21	12.04
35.0	1.807	2.541	3.390	4.364	5.474	6.731	8.147	9.732	11.50
40.0	1.583	2.294	3.114	4.053	5.123	6.334	7.698	9.225	10.93
45.0	1.358	2.042	2.829	3.730	4.755	5.917	7.225	8.691	10.33
50.0	-	1.785	2.536	3.394	4.372	5.480	6.728	8.129	9.692
55.0	-	-	2.235	3.048	3.973	5.023	6.208	7.540	9.028
60.0	-	-	-	2.690	3.560	4.548	5.666	6.924	8.333
65.0	-	-	-	-	3.132	4.055	5.102	6.282	7.607

MT028-5. Power consumption [kW]

Tc/Te	-25.0	-20.0	-15.0	-10.0	-5.0	0	5.0	10.0	15.0
30.0	1.183	1.349	1.497	1.620	1.710	1.758	1.757	1.697	1.572
35.0	1.206	1.383	1.547	1.689	1.801	1.875	1.902	1.876	1.787
40.0	1.218	1.409	1.590	1.753	1.890	1.992	2.052	2.061	2.011
45.0	1.218	1.425	1.626	1.813	1.976	2.109	2.203	2.250	2.242
50.0	-	1.430	1.654	1.866	2.060	2.226	2.357	2.444	2.479
55.0	-	-	1.672	1.913	2.139	2.340	2.510	2.640	2.722
60.0	-	-	-	1.952	2.212	2.452	2.664	2.839	2.970
65.0	-	-	-	-	2.279	2.559	2.815	3.038	3.220

MT028-5. Heating capacity [kW]

Tc/Te	-25.0	-20.0	-15.0	-10.0	-5.0	0	5.0	10.0	15.0
30.0	3.212	4.132	5.154	6.282	7.518	8.866	10.33	11.91	13.61
35.0	3.013	3.925	4.937	6.052	7.274	8.606	10.05	11.61	13.29
40.0	2.801	3.703	4.704	5.806	7.012	8.326	9.749	11.29	12.94
45.0	2.576	3.467	4.455	5.542	6.732	8.026	9.428	10.94	12.57

50.0	-	3.216	4.190	5.261	6.432	7.705	9.085	10.57	12.17
55.0	-	-	3.907	4.961	6.112	7.364	8.719	10.18	11.75
60.0	-	-	-	4.642	5.772	7.000	8.330	9.763	11.30
65.0	-	-	-	-	5.411	6.615	7.917	9.320	10.83

MT028-5. Current [A]

Tc/Te	-25.0	-20.0	-15.0	-10.0	-5.0	0	5.0	10.0	15.0
30.0	8.105	8.505	8.904	9.262	9.539	9.696	9.692	9.488	9.043
35.0	8.182	8.604	9.043	9.456	9.805	10.05	10.15	10.07	9.760
40.0	8.221	8.680	9.170	9.652	10.09	10.43	10.65	10.70	10.54
45.0	8.219	8.726	9.281	9.844	10.38	10.83	11.18	11.38	11.38
50.0	-	8.739	9.371	10.03	10.67	11.26	11.75	12.10	12.28
55.0	-	-	9.435	10.20	10.96	11.69	12.33	12.86	13.23
60.0	-	-	-	10.35	11.25	12.13	12.94	13.66	14.22
65.0	-	-	-	-	11.53	12.57	13.57	14.48	15.26

MT028-5. COP [W/W]

Tc/Te	-25.0	-20.0	-15.0	-10.0	-5.0	0	5.0	10.0	15.0
30.0	1.72	2.06	2.44	2.88	3.40	4.04	4.88	6.02	7.66
35.0	1.50	1.84	2.19	2.58	3.04	3.59	4.28	5.19	6.43
40.0	1.30	1.63	1.96	2.31	2.71	3.18	3.75	4.48	5.44
45.0	1.11	1.43	1.74	2.06	2.41	2.81	3.28	3.86	4.61
50.0	-	1.25	1.53	1.82	2.12	2.46	2.85	3.33	3.91
55.0	-	-	1.34	1.59	1.86	2.15	2.47	2.85	3.32
60.0	-	-	-	1.38	1.61	1.85	2.13	2.44	2.81
65.0	-	-	-	-	1.37	1.58	1.81	2.07	2.36

MT028-5. Mass flow [kg/h]

Tc/Te	-25.0	-20.0	-15.0	-10.0	-5.0	0	5.0	10.0	15.0
30.0	44.18	59.78	77.52	97.56	120.1	145.2	173.2	204.1	238.2
35.0	40.94	56.77	74.69	94.88	117.5	142.7	170.7	201.7	235.8
40.0	37.41	53.42	71.47	91.75	114.4	139.7	167.7	198.7	232.8
45.0	33.57	49.70	67.82	88.14	110.8	136.1	164.1	195.0	229.0
50.0	-	45.56	63.70	83.98	106.6	131.8	159.7	190.5	224.5
55.0	-	-	59.03	79.22	101.7	126.8	154.5	185.2	219.0
60.0	-	-	-	73.77	96.09	120.9	148.4	178.9	212.5
65.0	-	-	-	-	89.59	114.1	141.4	171.5	204.9