

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]
MT018-5. Cooling capacity [kW]

Tc/Te	-25.0	-20.0	-15.0	-10.0	-5.0	0	5.0	10.0	15.0
30.0	0.800	1.169	1.639	2.226	2.948	3.820	4.859	6.081	7.504
35.0	0.700	1.049	1.493	2.049	2.732	3.559	4.546	5.711	7.070
40.0	0.611	0.936	1.351	1.870	2.510	3.289	4.221	5.324	6.615
45.0	0.532	0.831	1.211	1.690	2.285	3.010	3.884	4.922	6.140
50.0	-	0.733	1.076	1.512	2.056	2.725	3.536	4.504	5.647
55.0	-	-	0.947	1.335	1.825	2.434	3.178	4.073	5.136
60.0	-	-	-	1.161	1.594	2.139	2.812	3.630	4.608
65.0	-	-	-	-	1.362	1.840	2.439	3.175	4.066

MT018-5. Power consumption [kW]

Tc/Te	-25.0	-20.0	-15.0	-10.0	-5.0	0	5.0	10.0	15.0
30.0	0.587	0.691	0.789	0.876	0.950	1.005	1.037	1.043	1.018
35.0	0.610	0.719	0.823	0.918	1.000	1.066	1.111	1.130	1.120
40.0	0.629	0.744	0.855	0.959	1.051	1.128	1.186	1.220	1.226
45.0	0.644	0.765	0.884	0.998	1.101	1.191	1.262	1.312	1.334
50.0	-	0.782	0.910	1.034	1.150	1.253	1.340	1.406	1.446
55.0	-	-	0.933	1.069	1.197	1.315	1.418	1.501	1.561
60.0	-	-	-	1.100	1.243	1.376	1.495	1.597	1.677
65.0	-	-	-	-	1.285	1.435	1.573	1.694	1.795

MT018-5. Heating capacity [kW]

Tc/Te	-25.0	-20.0	-15.0	-10.0	-5.0	0	5.0	10.0	15.0
30.0	1.387	1.860	2.428	3.103	3.897	4.824	5.896	7.125	8.523
35.0	1.310	1.768	2.316	2.967	3.732	4.625	5.657	6.841	8.190
40.0	1.240	1.680	2.205	2.828	3.561	4.417	5.407	6.544	7.841
45.0	1.176	1.595	2.095	2.688	3.386	4.201	5.146	6.233	7.475

50.0	-	1.515	1.986	2.546	3.206	3.978	4.876	5.910	7.093
55.0	-	-	1.879	2.403	3.023	3.749	4.596	5.574	6.696
60.0	-	-	-	2.260	2.836	3.515	4.307	5.227	6.285
65.0	-	-	-	-	2.647	3.275	4.011	4.869	5.860

MT018-5. Current [A]

Tc/Te	-25.0	-20.0	-15.0	-10.0	-5.0	0	5.0	10.0	15.0
30.0	4.804	4.965	5.137	5.305	5.455	5.572	5.641	5.649	5.580
35.0	4.847	5.015	5.198	5.384	5.556	5.701	5.804	5.851	5.827
40.0	4.882	5.060	5.259	5.466	5.665	5.842	5.983	6.073	6.098
45.0	4.906	5.098	5.318	5.550	5.780	5.994	6.176	6.314	6.391
50.0	-	5.129	5.372	5.634	5.899	6.153	6.382	6.570	6.705
55.0	-	-	5.420	5.715	6.019	6.318	6.597	6.841	7.037
60.0	-	-	-	5.793	6.140	6.488	6.821	7.125	7.385
65.0	-	-	-	-	6.259	6.659	7.051	7.418	7.748

MT018-5. COP [W/W]

Tc/Te	-25.0	-20.0	-15.0	-10.0	-5.0	0	5.0	10.0	15.0
30.0	1.36	1.69	2.08	2.54	3.10	3.80	4.68	5.83	7.37
35.0	1.15	1.46	1.81	2.23	2.73	3.34	4.09	5.05	6.31
40.0	0.97	1.26	1.58	1.95	2.39	2.92	3.56	4.37	5.40
45.0	0.83	1.09	1.37	1.70	2.08	2.53	3.08	3.75	4.60
50.0	-	0.94	1.18	1.46	1.79	2.18	2.64	3.21	3.90
55.0	-	-	1.02	1.25	1.52	1.85	2.24	2.71	3.29
60.0	-	-	-	1.05	1.28	1.55	1.88	2.27	2.75
65.0	-	-	-	-	1.06	1.28	1.55	1.87	2.27

MT018-5. 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	17.42	25.11	34.74	46.59	60.94	78.04	98.16	121.6	148.5
35.0	15.86	23.44	32.90	44.54	58.63	75.46	95.29	118.4	145.0
40.0	14.43	21.80	31.00	42.32	56.07	72.53	91.98	114.7	140.9
45.0	13.15	20.21	29.04	39.94	53.24	69.23	88.20	110.4	136.2
50.0	-	18.70	27.03	37.40	50.14	65.54	83.92	105.6	130.8
55.0	-	-	25.00	34.70	46.73	61.42	79.09	100.0	124.6
60.0	-	-	-	31.84	43.02	56.85	73.66	93.77	117.5
65.0	-	-	-	-	38.96	51.77	67.57	86.70	109.5