

5. PERFORMANCE DATA

Model : ZS7798D1

Rotational Speed: 1500 min⁻¹

Cooling capacity[W] * Refrigerant:R404A, Suction Temperature:18°C, Sub cool:5°C

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	104	146	194	248	309	377	452	532	620	714	815	922
45	97	136	179	226	277	331	390	452	518	588	662	740
55	84	111	144	181	223	270	322	378	440	506	577	653

Motor Input[w]

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	196	199	202	205	209	213	217	222	227	233	238	245
45	245	245	246	251	257	266	277	291	307	325	346	369
55	298	296	299	306	317	333	353	377	405	438	475	517

Current[A]

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	2.7	2.7	2.8	2.8	2.8	2.9	2.9	3.0	3.1	3.1	3.2	3.3
45	3.4	3.4	3.4	3.4	3.5	3.6	3.7	3.9	4.1	4.3	4.6	4.9
55	4.1	4.1	4.1	4.2	4.3	4.4	4.6	4.9	5.1	5.5	5.9	6.3

Rotational Speed: 2000 min⁻¹

Cooling capacity[W] * Refrigerant:R404A, Suction Temperature:18°C, Sub cool:5°C

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	143	201	269	349	440	542	655	780	916	1063	1221	1390
45	124	178	241	311	389	475	570	671	781	899	1025	1158
55	95	149	208	271	339	412	489	571	658	749	845	946

Motor Input[w]

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	255	256	258	261	266	271	278	286	295	305	317	330
45	314	311	311	315	321	332	345	362	383	406	433	464
55	384	377	376	380	389	403	422	446	476	510	550	595

Current[A]

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	2.8	2.8	2.8	2.8	2.9	2.9	3.0	3.1	3.2	3.3	3.4	3.6
45	3.4	3.4	3.4	3.4	3.5	3.6	3.7	3.8	4.0	4.2	4.5	4.8
55	4.1	4.0	4.0	4.0	4.1	4.3	4.4	4.6	4.9	5.2	5.5	5.9

Rotational Speed: 3000 min⁻¹

Cooling capacity[W] * Refrigerant:R404A, Suction Temperature:18°C, Sub cool:5°C

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	268	325	409	519	655	816	1004	1218	1458	1724	2015	2333
45	206	276	364	469	592	732	889	1064	1257	1466	1694	1938
55	195	247	316	400	500	616	748	895	1059	1239	1434	1646

Motor Input[w]

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	360	367	376	385	395	405	416	427	439	451	463	476
45	450	450	450	453	461	475	493	517	545	578	616	659
55	531	531	531	536	549	567	592	621	657	698	745	797

Current[A]

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	2.6	2.6	2.7	2.7	2.8	2.9	2.9	3.0	3.1	3.2	3.3	3.4
45	3.2	3.2	3.2	3.2	3.3	3.3	3.5	3.6	3.8	4.0	4.3	4.6
55	3.7	3.7	3.7	3.8	3.8	4.0	4.1	4.3	4.5	4.8	5.1	5.4

Model : ZS7798D1

Rotational Speed: 3900 min⁻¹

Cooling capacity[W] * Refrigerant:R404A, Suction Temperature:18°C, Sub cool:5°C

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	356	430	538	680	855	1065	1309	1587	1899	2245	2626	3040
45	301	374	475	603	758	941	1152	1390	1656	1949	2270	2618
55	255	316	401	509	641	797	976	1179	1405	1656	1929	2227

Motor Input[w]

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	465	472	484	498	514	531	549	569	591	614	639	665
45	580	580	578	582	593	611	636	668	707	752	805	864
55	686	686	688	695	708	725	748	776	810	849	893	942

Current[A]

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	2.7	2.7	2.8	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.6	3.7
45	3.3	3.3	3.3	3.3	3.3	3.4	3.6	3.7	3.9	4.2	4.4	4.7
55	3.9	3.9	3.9	3.9	4.0	4.0	4.2	4.3	4.5	4.6	4.9	5.1

Rotational Speed: 5000 min⁻¹

Cooling capacity[W] * Refrigerant:R404A, Suction Temperature:18°C, Sub cool:5°C

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	458	553	692	873	1097	1364	1674	2027	2423	2862	3344	3868
45	395	485	611	773	970	1203	1471	1775	2115	2490	2901	3347
55	336	412	519	655	821	1016	1242	1497	1781	2096	2440	2814

Motor Input[w]

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	605	615	632	652	675	699	727	756	789	824	861	901
45	752	744	744	752	769	794	827	868	918	976	1042	1117
55	888	888	889	896	911	933	961	997	1040	1090	1147	1211

Current[A]

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	2.7	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.6	3.7	3.9
45	3.3	3.3	3.3	3.3	3.4	3.5	3.6	3.8	4.0	4.2	4.5	4.7
55	3.9	3.9	3.9	3.9	4.0	4.1	4.2	4.3	4.5	4.7	4.9	5.1

Rotational Speed: 5500 min⁻¹

Cooling capacity[W] * Refrigerant:R404A, Suction Temperature:18°C, Sub cool:5°C

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	522	614	755	947	1190	1482	1825	2218	2661	3155	3698	4293
45	436	530	663	837	1051	1305	1599	1934	2309	2724	3179	3675
55	376	453	563	708	886	1097	1343	1622	1935	2281	2662	3076

Motor Input[w]

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	669	683	701	723	749	778	812	849	890	934	983	1035
45	825	825	825	833	850	878	915	962	1019	1086	1162	1249
55	946	950	960	977	1000	1029	1064	1105	1153	1206	1266	1332

Current[A]

Condensing Temp. °C	Evaporating Temp. °C											
	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
35	2.8	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.7	3.9	4.0
45	3.3	3.3	3.3	3.4	3.4	3.5	3.6	3.8	4.0	4.2	4.5	4.8
55	3.8	3.8	3.9	3.9	4.0	4.1	4.2	4.3	4.5	4.7	4.9	5.2