

Aspen Compressor, LLC

Performance Chart
Model# 19-24-XXXX
Refrigerant: R-290
CAPACITY (WATTS)

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
35	2000	57	84	112	139	166	209	252	295	338
	3000	93	129	167	209	254	313	378	447	514
	4000	134	178	225	283	340	415	506	605	701
	5000	173	226	284	355	429	524	636	763	894
	6000	213	274	345	429	525	636	763	915	1088

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
43	2000	46	68	89	118	147	184	230	277	319
	3000	77	106	140	183	227	283	348	418	479
	4000	116	151	198	254	313	388	468	558	639
	5000	155	198	257	325	399	490	588	700	802
	6000	194	249	318	397	485	591	710	846	968

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
50	2000			79	108	140	175	210	249	294
	3000		92	125	166	212	262	315	373	440
	4000		141	178	229	286	350	420	498	587
	5000		182	232	293	361	437	525	622	734
	6000		228	287	359	437	524	630	747	881

Note: all data points are with 5K Superheat and 5K Subcooling with R-290

Over Discharge Temperature Limit

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Input Power (WATTS)

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
35	2000	63	64	65	66	65	61	56	48	42
	3000	83	85	87	87	87	83	77	69	62
	4000	105	107	109	111	110	105	99	91	84
	5000	129	131	134	136	135	130	124	116	109
	6000	154	158	162	163	162	157	151	143	137

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
43	2000	72	76	80	83	84	84	80	75	67
	3000	93	97	101	103	105	105	101	96	88
	4000	116	121	126	129	130	129	126	120	112
	5000	141	147	154	158	161	159	156	149	139
	6000	170	178	184	189	193	192	189	181	170

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
50	2000			94	97	101	104	103	100	94
	3000		113	119	124	127	130	129	125	119
	4000		139	147	152	155	158	157	152	146
	5000		170	179	185	189	190	189	185	179
	6000		203	214	223	228	229	227	222	216

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Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
35	2000	0.91	1.32	1.72	2.11	2.56	3.41	4.50	6.13	8.14
	3000	1.11	1.52	1.93	2.39	2.93	3.79	4.91	6.47	8.23
	4000	1.27	1.67	2.07	2.56	3.09	3.95	5.11	6.64	8.30
	5000	1.34	1.72	2.13	2.60	3.17	4.03	5.14	6.58	8.18
	6000	1.39	1.73	2.14	2.63	3.24	4.04	5.04	6.38	7.96

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
43	2000	0.65	0.89	1.11	1.43	1.76	2.20	2.86	3.71	4.77
	3000	0.83	1.09	1.39	1.77	2.17	2.71	3.43	4.37	5.45
	4000	1.00	1.24	1.57	1.97	2.40	3.00	3.71	4.65	5.73
	5000	1.10	1.34	1.67	2.06	2.48	3.08	3.77	4.71	5.76
	6000	1.14	1.40	1.73	2.10	2.51	3.08	3.76	4.67	5.71

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
50	2000			0.85	1.11	1.38	1.68	2.05	2.49	3.14
	3000		0.81	1.05	1.34	1.66	2.02	2.45	2.98	3.71
	4000		1.01	1.21	1.51	1.84	2.22	2.68	3.27	4.01
	5000		1.07	1.30	1.58	1.91	2.30	2.78	3.36	4.09
	6000		1.12	1.34	1.61	1.91	2.29	2.78	3.36	4.09

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