

Aspen Compressor, LLC

Performance Chart
Model# Q9-24-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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Refrigerant: R-290
Input Power (WATTS)

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
35	2000	57	58	59	60	59	56	51	44	38
	3000	76	77	79	80	79	75	70	63	57
	4000	96	97	99	101	100	95	90	83	77
	5000	117	119	121	124	123	118	113	105	99
	6000	140	144	147	148	147	143	138	130	124

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
43	2000	65	69	73	75	76	76	73	68	61
	3000	85	89	92	94	95	95	92	87	80
	4000	105	110	115	117	119	118	115	109	101
	5000	128	134	140	144	146	145	142	135	127
	6000	155	162	168	172	175	175	172	165	154

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
50	2000			85	89	92	95	93	91	85
	3000		103	109	113	116	118	117	114	108
	4000		127	134	138	141	143	142	139	133
	5000		154	162	168	172	173	172	169	163
	6000		184	195	203	208	208	206	202	196

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Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
35	2000	1.00	1.45	1.89	2.32	2.81	3.75	4.95	6.74	8.95
	3000	1.22	1.67	2.13	2.63	3.22	4.17	5.40	7.12	9.05
	4000	1.40	1.84	2.28	2.81	3.40	4.34	5.62	7.31	9.13
	5000	1.48	1.90	2.34	2.86	3.49	4.43	5.65	7.24	9.00
	6000	1.52	1.91	2.35	2.90	3.57	4.44	5.55	7.02	8.75

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
43	2000	0.71	0.98	1.22	1.57	1.93	2.42	3.15	4.08	5.24
	3000	0.91	1.20	1.53	1.94	2.38	2.98	3.78	4.81	6.00
	4000	1.11	1.37	1.73	2.17	2.64	3.30	4.08	5.12	6.30
	5000	1.21	1.47	1.84	2.26	2.72	3.39	4.15	5.19	6.33
	6000	1.25	1.54	1.90	2.31	2.77	3.39	4.14	5.14	6.28

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
50	2000			0.93	1.22	1.52	1.85	2.25	2.74	3.45
	3000		0.90	1.15	1.48	1.83	2.22	2.69	3.28	4.08
	4000		1.11	1.33	1.66	2.03	2.44	2.95	3.59	4.42
	5000		1.18	1.43	1.74	2.10	2.53	3.05	3.69	4.50
	6000		1.24	1.48	1.77	2.10	2.52	3.06	3.70	4.49

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