

Aspen Compressor, LLC

Performance Chart
Model# T38-24-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	114	169	224	278	333	419	505	591	677
	3000	185	258	335	419	508	626	756	894	1028
	4000	268	356	450	565	680	829	1012	1210	1402
	5000	346	452	568	710	858	1047	1272	1525	1787
	6000	426	548	690	857	1049	1272	1526	1830	2176

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
43	2000	93	135	178	236	293	368	459	554	638
	3000	155	213	280	365	453	567	695	835	957
	4000	232	301	396	508	626	776	935	1116	1277
	5000	310	395	514	650	798	979	1175	1400	1603
	6000	388	498	636	793	969	1182	1419	1691	1936

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)									
		-20	-15	-10	-5	0	5	10	15	20	
50	2000			158	216	280	350	420	498	587	
	3000			250	333	424	524	630	747	881	
	4000			282	355	458	572	699	841	995	1175
	5000			363	464	587	722	874	1051	1244	1468
	6000			455	575	718	874	1049	1261	1493	1762

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

Over Discharge Temperature Limit

48v Model Required To Operate Here

Aspen Compressor, LLC

Performance Chart
Model# T38-24-XXXX
 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	120	128	132	133	129	125	114	98	80
	3000	157	166	169	171	167	162	149	133	115
	4000	202	211	215	217	213	206	191	174	156
	5000	250	260	266	267	264	254	237	218	200
	6000	303	313	321	322	319	306	288	268	249

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
43	2000	132	148	156	160	163	160	153	139	123
	3000	179	195	205	209	212	208	200	184	166
	4000	231	248	259	265	268	263	252	233	211
	5000	286	303	316	322	325	320	308	286	262
	6000	343	362	375	381	383	378	368	344	318

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)									
		-20	-15	-10	-5	0	5	10	15	20	
50	2000	Over Discharge Temperature Limit		179	192	203	204	199	189	173	
	3000			237	250	261	262	256	246	228	
	4000	Over Discharge Temperature Limit		285	298	311	321	322	316	303	285
	5000			349	362	374	383	385	379	365	344
	6000			414	427	437	446	449	446	432	409

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Over Discharge Temperature Limit

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 Refrigerant: R-290
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Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
35	2000	0.95	1.32	1.70	2.09	2.58	3.35	4.44	6.05	8.45
	3000	1.18	1.55	1.98	2.45	3.04	3.86	5.06	6.72	8.91
	4000	1.33	1.69	2.09	2.61	3.19	4.02	5.30	6.97	8.98
	5000	1.38	1.74	2.14	2.66	3.25	4.12	5.37	7.00	8.96
	6000	1.41	1.75	2.15	2.66	3.29	4.15	5.29	6.83	8.74

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)								
		-20	-15	-10	-5	0	5	10	15	20
43	2000	0.70	0.91	1.14	1.47	1.80	2.30	3.00	3.98	5.19
	3000	0.86	1.09	1.37	1.75	2.14	2.72	3.47	4.53	5.76
	4000	1.01	1.22	1.53	1.92	2.33	2.95	3.71	4.79	6.05
	5000	1.08	1.30	1.63	2.02	2.45	3.06	3.81	4.89	6.13
	6000	1.13	1.38	1.70	2.08	2.53	3.13	3.86	4.91	6.09

Condenser Temperature (°C)	Compressor Speed (RPM)	Evaporator Temperature (°C)									
		-20	-15	-10	-5	0	5	10	15	20	
50	2000	Over Discharge Temperature Limit		0.88	1.12	1.38	1.71	2.12	2.63	3.40	
	3000			1.06	1.33	1.63	2.00	2.46	3.04	3.86	
	4000	Over Discharge Temperature Limit		0.99	1.19	1.47	1.78	2.17	2.66	3.28	4.13
	5000			1.04	1.28	1.57	1.88	2.27	2.77	3.41	4.26
	6000			1.10	1.35	1.64	1.96	2.33	2.83	3.46	4.31

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