General Characteristics

Model number (on compressor nameplate)		**VZH035CGANA**
Code number for Singlepack*		120G0060
Code number for Industrial pack**		120G0139
Drawing number		0VG8213b
Suction and discharge connections		Brazed
Suction connection		3/4 " ODF
Discharge connection		1/2 " ODF
Oil sight glass		Threaded
Oil equalization connection		None
Oil drain connection		1/4" flare
LP gauge port		None
IPR valve		Yes
Swept volume	2.13 in3/rev	
Net weight	60 lbs	
Oil charge	44 oz, PVE - FVC32D	
Maximum number of starts per hour	12	
Refrigerant charge limit	8 lbs	
Approved refrigerants	R410A	

Electrical Characteristics

Nominal voltage	Supply voltage 380-480V/3/50-60Hz
Voltage range	342-528 V supply to frequency converter
Winding resistance (between phases) +/- 7% at 77ºF	0.71 Ω
Rated Load Amps (RLA)	12.4 A
Motor protection	Motor protection by frequency converter

Recommended Installation torques

Oil sight glass	39 ft.lbs
Power connections / Earth connection	0 ft.lbs / 1 ft.lbs
Mounting bolts	8 ft.lbs

Parts shipped with compressor

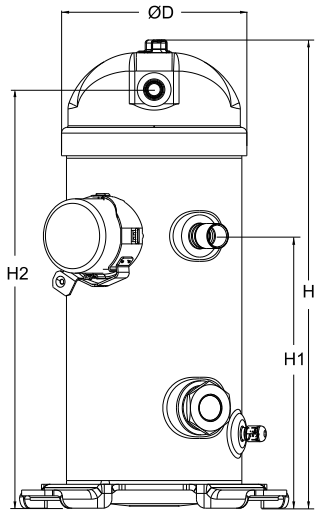
Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA11565), -

*Singlepack: Compressor in cardboard box

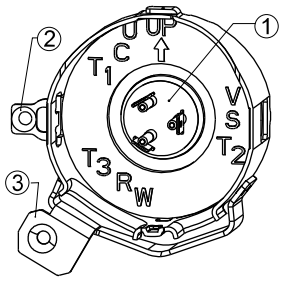
**Industrial pack: 12 Unboxed compressors on pallet (order per multiples of 12)

Dimensions



D=6.5 inch, H=16.4 inch,
H1=9.5 inch, H2=14.6 inch, H3=- inch

Terminal box



IP22

1: Power connections
2: Earth connection
3: EMC braket with shielded cable

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Rotolock accessories, suction side	Code no.
Rotolock adapter (1-1/4" Rotolock, 3/4" ODF)	120Z0366

Rotolock accessories, discharge side	Code no.
Rotolock adapter (1" Rotolock, 1/2" ODF)	120Z0365

Rotolock accessories, sets	Code no.
Solder sleeve adapter set (1-1/4"~3/4"), (1"~1/2")	120Z0126

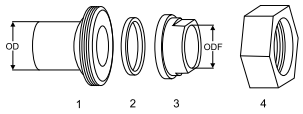
Oil / lubricants	Code no.

Crankcase heaters	Code no.
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 400/460V, CE mark, UL	120Z5041

Miscellaneous accessories	Code no.
Acoustic hood	120Z5043

Spare parts	Code no.
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers, 2 grounding screws	120Z0622
Terminal box cover	120Z5015

Solder sleeve adapter set



1: Rotolock adapter (Suc & Dis)
2: Gasket (Suc & Dis)
3: Solder sleeve (Suc & Dis)
4: Rotolock nut (Suc & Dis)

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Performance data at 15 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	-	-	-	6 004	7 474	10 136	-	-	-
60	-	-	-	5 676	7 132	9 749	14 168	-	-
70	-	-	-	5 376	6 812	9 385	13 718	16 321	-
90	-	-	-	-	-	8 429	12 542	15 013	-
100	-	-	-	-	-	-	-	-	-
110	-	-	-	-	-	-	-	-	-
130	-	-	-	-	-	-	-	-	-
Power input in W									
45	-	-	-	407	373	314	-	-	-
60	-	-	-	494	467	408	321	-	-
70	-	-	-	556	537	483	389	343	-
90	-	-	-	-	-	660	568	512	-
100	-	-	-	-	-	-	-	-	-
110	-	-	-	-	-	-	-	-	-
130	-	-	-	-	-	-	-	-	-
Current consumption in A									
45	-	-	-	0.92	0.88	0.77	-	-	-
60	-	-	-	1.06	1.04	0.95	0.67	-	-
70	-	-	-	1.15	1.14	1.08	0.84	0.62	-
90	-	-	-	-	-	1.37	1.20	1.02	-
100	-	-	-	-	-	-	-	-	-
110	-	-	-	-	-	-	-	-	-
130	-	-	-	-	-	-	-	-	-
Mass flow in lbs/h									
45	-	-	-	61	75	101	-	-	-
60	-	-	-	61	76	102	146	-	-
70	-	-	-	60	76	102	147	174	-
90	-	-	-	-	-	101	147	175	-
100	-	-	-	-	-	-	-	-	-
110	-	-	-	-	-	-	-	-	-
130	-	-	-	-	-	-	-	-	-
Energy Efficiency Ratio (E.E.R.)									
45	-	-	-	14.74	20.04	32.25	-	-	-
60	-	-	-	11.48	15.27	23.88	44.08	-	-
70	-	-	-	9.67	12.69	19.44	35.25	47.52	-
90	-	-	-	-	-	12.77	22.07	29.32	-
100	-	-	-	-	-	-	-	-	-
110	-	-	-	-	-	-	-	-	-
130	-	-	-	-	-	-	-	-	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	-	Btu/h	Current consumption	-	A
Power input	-	W	Mass flow	-	lbs/h
E.E.R.	-				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 20 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	-	-	-	8 292	10 354	14 118	-	-	-
60	-	-	-	7 781	9 781	13 415	19 618	-	-
70	-	-	-	7 370	9 318	12 851	18 875	22 524	-
90	-	-	-	-	-	11 517	17 135	20 544	-
100	-	-	-	-	-	10 757	16 148	19 424	-
110	-	-	-	-	-	-	15 090	18 225	-
120	-	-	-	-	-	-	13 964	16 952	-
Power input in W									
45	-	-	-	478	431	326	-	-	-
60	-	-	-	591	562	482	307	-	-
70	-	-	-	666	650	588	435	328	-
90	-	-	-	-	-	812	705	620	-
100	-	-	-	-	-	934	851	777	-
110	-	-	-	-	-	-	1 007	945	-
120	-	-	-	-	-	-	1 174	1 124	-
Current consumption in A									
45	-	-	-	1.03	0.97	0.82	-	-	-
60	-	-	-	1.20	1.17	1.07	0.73	-	-
70	-	-	-	1.31	1.29	1.22	0.94	0.69	-
90	-	-	-	-	-	1.55	1.37	1.18	-
100	-	-	-	-	-	1.72	1.59	1.43	-
110	-	-	-	-	-	-	1.83	1.70	-
120	-	-	-	-	-	-	2.08	1.98	-
Mass flow in lbs/h									
45	-	-	-	85	104	140	-	-	-
60	-	-	-	84	104	141	202	-	-
70	-	-	-	83	103	140	203	240	-
90	-	-	-	-	-	137	201	239	-
100	-	-	-	-	-	135	199	237	-
110	-	-	-	-	-	-	196	234	-
120	-	-	-	-	-	-	192	231	-
Energy Efficiency Ratio (E.E.R.)									
45	-	-	-	17.33	24.00	43.30	-	-	-
60	-	-	-	13.18	17.42	27.85	63.94	-	-
70	-	-	-	11.06	14.34	21.87	43.44	68.71	-
90	-	-	-	-	-	14.18	24.30	33.15	-
100	-	-	-	-	-	11.52	18.97	24.99	-
110	-	-	-	-	-	-	14.99	19.29	-
120	-	-	-	-	-	-	11.90	15.08	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	-	Btu/h	Current consumption	-	A
Power input	-	W	Mass flow	-	lbs/h
E.E.R.	-				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point
T C : Condensing temperature at dew point
Rating conditions : Superheat = 20 °F , Subcooling = 15 °F
Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 25 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	-	-	-	10 568	13 217	18 071	-	-	-
60	-	-	-	9 879	12 420	17 063	25 033	-	-
70	-	-	-	9 360	11 818	16 305	24 006	28 691	-
90	-	-	-	-	-	14 601	21 717	26 057	-
100	-	-	-	-	-	13 664	20 463	24 619	-
110	-	-	-	-	-	-	19 142	23 105	-
120	-	-	-	-	-	-	17 757	21 519	-
Power input in W									
45	-	-	-	555	496	346	-	-	-
60	-	-	-	693	662	562	304	-	-
70	-	-	-	782	769	698	489	325	-
90	-	-	-	-	-	970	848	735	-
100	-	-	-	-	-	1 111	1 029	939	-
110	-	-	-	-	-	-	1 214	1 146	-
120	-	-	-	-	-	-	1 409	1 361	-
Current consumption in A									
45	-	-	-	1.14	1.07	0.88	-	-	-
60	-	-	-	1.34	1.31	1.18	0.79	-	-
70	-	-	-	1.47	1.45	1.37	1.05	0.76	-
90	-	-	-	-	-	1.73	1.55	1.35	-
100	-	-	-	-	-	1.93	1.80	1.64	-
110	-	-	-	-	-	-	2.07	1.94	-
120	-	-	-	-	-	-	2.35	2.26	-
Mass flow in lbs/h									
45	-	-	-	108	133	179	-	-	-
60	-	-	-	107	132	179	258	-	-
70	-	-	-	105	131	178	258	306	-
90	-	-	-	-	-	174	254	303	-
100	-	-	-	-	-	171	252	300	-
110	-	-	-	-	-	-	248	297	-
120	-	-	-	-	-	-	244	293	-
Energy Efficiency Ratio (E.E.R.)									
45	-	-	-	19.04	26.64	52.17	-	-	-
60	-	-	-	14.26	18.76	30.37	82.41	-	-
70	-	-	-	11.96	15.38	23.35	49.10	88.36	-
90	-	-	-	-	-	15.06	25.61	35.45	-
100	-	-	-	-	-	12.30	19.89	26.22	-
110	-	-	-	-	-	-	15.76	20.15	-
120	-	-	-	-	-	-	12.61	15.81	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	-	Btu/h	Current consumption	-	A
Power input	-	W	Mass flow	-	lbs/h
E.E.R.	-				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point
T C : Condensing temperature at dew point
Rating conditions : Superheat = 20 °F , Subcooling = 15 °F
Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 30 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	-	-	10 121	12 833	16 062	21 994	-	-	-
60	-	-	9 378	11 972	15 049	20 691	30 411	-	-
70	-	-	8 841	11 346	14 312	19 745	29 109	34 821	-
90	-	-	7 679	9 981	12 701	17 681	26 287	31 553	-
100	-	-	7 060	9 249	11 834	16 570	24 772	29 803	-
110	-	-	-	8 488	10 930	15 409	23 192	27 980	-
130	-	-	-	-	-	12 954	19 850	24 128	-
Power input in W									
45	-	-	672	638	567	375	-	-	-
60	-	-	805	801	768	649	312	-	-
70	-	-	892	905	893	815	552	334	-
90	-	-	1 088	1 122	1 144	1 133	997	858	-
100	-	-	1 206	1 246	1 278	1 295	1 212	1 107	-
110	-	-	-	1 386	1 426	1 464	1 427	1 353	-
130	-	-	-	-	-	1 845	1 881	1 859	-
Current consumption in A									
45	-	-	1.31	1.26	1.17	0.95	-	-	-
60	-	-	1.52	1.50	1.45	1.31	0.86	-	-
70	-	-	1.65	1.64	1.62	1.53	1.17	0.84	-
90	-	-	1.93	1.94	1.95	1.93	1.74	1.53	-
100	-	-	2.10	2.11	2.13	2.15	2.03	1.86	-
110	-	-	-	2.31	2.33	2.38	2.32	2.20	-
130	-	-	-	-	-	2.93	2.98	2.94	-
Mass flow in lbs/h									
45	-	-	105	131	162	218	-	-	-
60	-	-	103	129	160	217	314	-	-
70	-	-	101	128	159	215	312	372	-
90	-	-	96	123	154	211	308	367	-
100	-	-	93	120	151	208	305	364	-
110	-	-	-	116	147	204	301	360	-
130	-	-	-	-	-	195	291	350	-
Energy Efficiency Ratio (E.E.R.)									
45	-	-	15.05	20.12	28.32	58.59	-	-	-
60	-	-	11.65	14.95	19.59	31.90	97.41	-	-
70	-	-	9.91	12.54	16.02	24.22	52.70	104.19	-
90	-	-	7.06	8.89	11.11	15.60	26.36	36.78	-
100	-	-	5.86	7.42	9.26	12.80	20.45	26.93	-
110	-	-	-	6.13	7.66	10.53	16.25	20.68	-
130	-	-	-	-	-	7.02	10.55	12.98	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	17 929	Btu/h	Current consumption	2.99	A
Power input	1 880	W	Mass flow	265	lbs/h
E.E.R.	9.53				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 35 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	-	-	11 896	15 086	18 890	25 888	-	-	-
60	-	-	11 022	14 058	17 669	24 301	35 754	-	-
70	-	-	10 404	13 328	16 799	23 173	34 186	40 915	-
90	-	-	9 093	11 768	14 937	20 757	30 845	37 030	-
100	-	-	8 404	10 943	13 949	19 474	29 074	34 976	-
110	-	-	-	10 091	12 926	18 143	27 240	32 851	-
130	-	-	-	-	-	15 350	23 392	28 394	-
Power input in W									
45	-	-	764	726	644	413	-	-	-
60	-	-	916	915	881	742	332	-	-
70	-	-	1 016	1 033	1 024	938	625	356	-
90	-	-	1 242	1 280	1 307	1 303	1 153	988	-
100	-	-	1 381	1 421	1 458	1 484	1 400	1 280	-
110	-	-	-	1 582	1 625	1 673	1 645	1 565	-
130	-	-	-	-	-	2 098	2 153	2 137	-
Current consumption in A									
45	-	-	1.44	1.38	1.28	1.02	-	-	-
60	-	-	1.69	1.66	1.61	1.44	0.93	-	-
70	-	-	1.83	1.82	1.80	1.69	1.29	0.93	-
90	-	-	2.14	2.14	2.16	2.15	1.95	1.71	-
100	-	-	2.32	2.33	2.35	2.38	2.26	2.09	-
110	-	-	-	2.54	2.58	2.63	2.59	2.47	-
130	-	-	-	-	-	3.24	3.32	3.29	-
Mass flow in lbs/h									
45	-	-	123	154	191	257	-	-	-
60	-	-	121	152	188	255	369	-	-
70	-	-	119	150	186	253	367	437	-
90	-	-	114	145	181	248	361	431	-
100	-	-	110	142	178	244	358	427	-
110	-	-	-	138	174	240	353	422	-
130	-	-	-	-	-	231	343	412	-
Energy Efficiency Ratio (E.E.R.)									
45	-	-	15.58	20.78	29.32	62.67	-	-	-
60	-	-	12.03	15.37	20.07	32.75	107.64	-	-
70	-	-	10.24	12.90	16.40	24.70	54.71	114.85	-
90	-	-	7.32	9.20	11.43	15.93	26.76	37.47	-
100	-	-	6.09	7.70	9.57	13.12	20.77	27.32	-
110	-	-	-	6.38	7.96	10.84	16.56	20.99	-
130	-	-	-	-	-	7.31	10.86	13.29	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	21 148	Btu/h	Current consumption	3.31	A
Power input	2 148	W	Mass flow	312	lbs/h
E.E.R.	9.85				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 40 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	8 172	10 638	13 665	17 327	21 700	29 752	-	-	-
60	7 400	9 774	12 662	16 138	20 278	27 893	41 060	-	-
70	6 877	9 179	11 964	15 306	19 280	26 588	39 237	46 973	-
90	5 815	7 949	10 504	13 553	17 171	23 829	35 391	42 490	-
100	-	7 317	9 744	12 635	16 063	22 376	33 371	40 139	-
110	-	-	8 967	11 690	14 920	20 877	31 287	37 717	-
130	-	-	-	-	12 536	17 745	26 937	32 664	-
Power input in W									
45	846	864	861	820	728	459	-	-	-
60	979	1 010	1 033	1 034	999	842	364	-	-
70	1 082	1 113	1 146	1 167	1 161	1 067	706	391	-
90	1 357	1 369	1 402	1 443	1 477	1 479	1 314	1 126	-
100	-	1 536	1 561	1 602	1 645	1 680	1 594	1 460	-
110	-	-	1 749	1 784	1 830	1 889	1 869	1 782	-
130	-	-	-	-	2 282	2 359	2 431	2 419	-
Current consumption in A									
45	1.69	1.63	1.58	1.51	1.40	1.10	-	-	-
60	1.94	1.88	1.85	1.82	1.77	1.58	1.01	-	-
70	2.10	2.04	2.02	2.00	1.98	1.86	1.42	1.02	-
90	2.47	2.38	2.35	2.36	2.38	2.37	2.16	1.91	-
100	-	2.59	2.55	2.56	2.59	2.62	2.51	2.33	-
110	-	-	2.79	2.79	2.83	2.90	2.87	2.75	-
130	-	-	-	-	3.45	3.56	3.67	3.65	-
Mass flow in lbs/h									
45	86	111	142	177	219	295	-	-	-
60	83	109	139	174	216	292	424	-	-
70	80	106	137	172	214	290	421	501	-
90	75	101	131	167	208	284	414	494	-
100	-	98	128	163	205	281	410	490	-
110	-	-	125	160	201	276	406	485	-
130	-	-	-	-	193	267	395	474	-
Energy Efficiency Ratio (E.E.R.)									
45	9.66	12.31	15.88	21.13	29.81	64.76	-	-	-
60	7.56	9.68	12.26	15.60	20.31	33.12	112.92	-	-
70	6.36	8.25	10.44	13.11	16.61	24.91	55.55	120.18	-
90	4.29	5.81	7.49	9.39	11.63	16.11	26.93	37.73	-
100	-	4.76	6.24	7.89	9.77	13.32	20.93	27.49	-
110	-	-	5.13	6.55	8.15	11.05	16.74	21.16	-
130	-	-	-	-	5.49	7.52	11.08	13.50	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	24 370	Btu/h	Current consumption	3.65	A
Power input	2 422	W	Mass flow	360	lbs/h
E.E.R.	10.06				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 45 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	9 238	12 014	15 426	19 557	24 492	33 587	-	-	-
60	8 383	11 050	14 298	18 212	22 877	31 465	46 331	-	-
70	7 809	10 393	13 522	17 281	21 755	29 990	44 260	52 995	-
90	6 656	9 047	11 912	15 336	19 404	26 896	39 925	47 932	-
100	-	8 359	11 080	14 324	18 176	25 277	37 661	45 292	-
110	-	-	10 230	13 285	16 913	23 611	35 333	42 579	-
130	-	-	-	-	14 285	20 140	30 487	36 939	-
Power input in W									
45	944	965	963	920	818	514	-	-	-
60	1 094	1 128	1 156	1 160	1 122	949	407	-	-
70	1 212	1 244	1 282	1 308	1 304	1 202	797	438	-
90	1 528	1 534	1 568	1 614	1 653	1 660	1 482	1 271	-
100	-	1 725	1 746	1 789	1 838	1 883	1 794	1 646	-
110	-	-	1 958	1 992	2 043	2 112	2 097	2 004	-
130	-	-	-	-	2 543	2 627	2 714	2 707	-
Current consumption in A									
45	1.83	1.77	1.72	1.64	1.52	1.18	-	-	-
60	2.11	2.05	2.03	2.00	1.94	1.73	1.10	-	-
70	2.28	2.23	2.21	2.20	2.17	2.04	1.56	1.12	-
90	2.69	2.60	2.57	2.59	2.61	2.61	2.38	2.11	-
100	-	2.83	2.79	2.80	2.84	2.88	2.77	2.58	-
110	-	-	3.05	3.06	3.10	3.18	3.16	3.04	-
130	-	-	-	-	3.77	3.90	4.03	4.02	-
Mass flow in lbs/h									
45	97	126	160	200	247	333	-	-	-
60	94	123	157	197	244	330	478	-	-
70	91	120	154	194	241	327	475	565	-
90	86	115	149	189	235	321	468	557	-
100	-	112	146	185	232	317	463	553	-
110	-	-	142	182	228	313	458	547	-
130	-	-	-	-	219	303	447	536	-
Energy Efficiency Ratio (E.E.R.)									
45	9.79	12.45	16.01	21.26	29.95	65.29	-	-	-
60	7.66	9.79	12.37	15.70	20.38	33.15	113.94	-	-
70	6.44	8.35	10.55	13.21	16.69	24.94	55.55	120.98	-
90	4.35	5.90	7.60	9.50	11.74	16.20	26.95	37.70	-
100	-	4.85	6.35	8.00	9.89	13.43	20.99	27.51	-
110	-	-	5.23	6.67	8.28	11.18	16.85	21.24	-
130	-	-	-	-	5.62	7.67	11.23	13.65	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	27 596	Btu/h	Current consumption	4.01	A
Power input	2 702	W	Mass flow	408	lbs/h
E.E.R.	10.21				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 50 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	10 301	13 387	17 181	21 776	27 268	37 392	-	-	-
60	9 363	12 323	15 931	20 280	25 466	35 019	51 565	-	-
70	8 739	11 604	15 077	19 252	24 223	33 380	49 257	58 980	-
90	7 490	10 140	13 318	17 118	21 634	29 959	44 447	53 356	-
100	-	9 394	12 411	16 011	20 287	28 176	41 945	50 434	-
110	-	-	11 486	14 877	18 904	26 345	39 376	47 437	-
130	-	-	-	-	16 028	22 534	34 039	41 217	-
Power input in W									
45	1 046	1 072	1 072	1 026	914	578	-	-	-
60	1 214	1 252	1 285	1 291	1 252	1 063	461	-	-
70	1 346	1 381	1 424	1 454	1 452	1 344	896	498	-
90	1 700	1 703	1 740	1 791	1 836	1 848	1 655	1 424	-
100	-	1 915	1 936	1 983	2 039	2 091	1 999	1 838	-
110	-	-	2 170	2 206	2 262	2 341	2 332	2 232	-
130	-	-	-	-	2 810	2 902	3 003	2 999	-
Current consumption in A									
45	1.97	1.92	1.87	1.79	1.65	1.27	-	-	-
60	2.27	2.23	2.21	2.18	2.11	1.89	1.19	-	-
70	2.47	2.41	2.40	2.40	2.37	2.23	1.70	1.23	-
90	2.90	2.82	2.80	2.82	2.85	2.85	2.61	2.33	-
100	-	3.07	3.04	3.06	3.11	3.16	3.04	2.84	-
110	-	-	3.32	3.33	3.39	3.48	3.47	3.34	-
130	-	-	-	-	4.11	4.25	4.41	4.41	-
Mass flow in lbs/h									
45	108	140	178	223	275	371	-	-	-
60	105	137	175	219	272	367	532	-	-
70	102	134	172	217	269	364	529	629	-
90	97	129	166	211	263	357	520	620	-
100	-	126	163	207	259	353	516	615	-
110	-	-	159	203	255	349	511	610	-
130	-	-	-	-	246	339	500	598	-
Energy Efficiency Ratio (E.E.R.)									
45	9.85	12.49	16.03	21.23	29.84	64.69	-	-	-
60	7.71	9.84	12.40	15.70	20.34	32.95	111.83	-	-
70	6.49	8.40	10.59	13.24	16.68	24.84	54.96	118.48	-
90	4.41	5.96	7.66	9.56	11.79	16.21	26.85	37.46	-
100	-	4.91	6.41	8.07	9.95	13.47	20.98	27.44	-
110	-	-	5.29	6.74	8.36	11.25	16.89	21.25	-
130	-	-	-	-	5.71	7.77	11.34	13.75	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	30 825	Btu/h	Current consumption	4.38	A
Power input	2 987	W	Mass flow	455	lbs/h
E.E.R.	10.32				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 55 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	11 362	14 756	18 928	23 983	30 025	41 168	-	-	-
60	10 341	13 594	17 559	22 342	28 045	38 555	56 764	-	-
70	9 665	12 813	16 629	21 219	26 685	36 756	54 227	64 929	-
90	8 317	11 229	14 721	18 897	23 863	33 018	48 958	58 763	-
100	-	10 422	13 739	17 695	22 397	31 074	46 223	55 565	-
110	-	-	12 736	16 465	20 894	29 079	43 418	52 290	-
130	-	-	-	-	17 767	24 929	37 596	45 500	-
Power input in W									
45	1 153	1 184	1 186	1 137	1 016	650	-	-	-
60	1 338	1 382	1 419	1 429	1 388	1 183	527	-	-
70	1 482	1 523	1 572	1 607	1 607	1 491	1 005	570	-
90	1 872	1 875	1 917	1 974	2 025	2 042	1 835	1 585	-
100	-	2 108	2 130	2 184	2 246	2 306	2 210	2 036	-
110	-	-	2 386	2 426	2 488	2 577	2 571	2 464	-
130	-	-	-	-	3 082	3 184	3 297	3 295	-
Current consumption in A									
45	2.11	2.07	2.02	1.94	1.78	1.37	-	-	-
60	2.44	2.40	2.39	2.36	2.30	2.05	1.28	-	-
70	2.65	2.61	2.60	2.61	2.58	2.43	1.86	1.34	-
90	3.12	3.05	3.04	3.07	3.11	3.11	2.86	2.55	-
100	-	3.32	3.30	3.33	3.38	3.45	3.33	3.11	-
110	-	-	3.60	3.63	3.69	3.80	3.79	3.66	-
130	-	-	-	-	4.47	4.63	4.80	4.81	-
Mass flow in lbs/h									
45	119	155	196	245	303	409	-	-	-
60	116	151	193	241	299	404	586	-	-
70	113	148	190	239	296	401	582	693	-
90	107	143	184	232	290	394	573	683	-
100	-	139	180	229	286	390	568	678	-
110	-	-	177	225	282	385	563	672	-
130	-	-	-	-	273	375	552	660	-
Energy Efficiency Ratio (E.E.R.)									
45	9.85	12.47	15.96	21.09	29.54	63.30	-	-	-
60	7.73	9.84	12.37	15.64	20.21	32.59	107.69	-	-
70	6.52	8.41	10.58	13.20	16.61	24.66	53.97	113.88	-
90	4.44	5.99	7.68	9.57	11.78	16.17	26.67	37.08	-
100	-	4.94	6.45	8.10	9.97	13.48	20.92	27.29	-
110	-	-	5.34	6.79	8.40	11.28	16.89	21.22	-
130	-	-	-	-	5.76	7.83	11.40	13.81	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	34 056	Btu/h	Current consumption	4.77	A
Power input	3 280	W	Mass flow	503	lbs/h
E.E.R.	10.38				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point
T C : Condensing temperature at dew point
Rating conditions : Superheat = 20 °F , Subcooling = 15 °F
Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 60 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	12 420	16 120	20 668	26 179	32 766	44 914	-	-	-
60	11 317	14 862	19 185	24 397	30 614	42 072	61 927	-	-
70	10 588	14 020	18 180	23 182	29 141	40 120	59 170	70 842	-
90	9 137	12 312	16 120	20 675	26 089	36 072	53 457	64 151	-
100	-	11 443	15 061	19 378	24 506	33 970	50 494	60 687	-
110	-	10 560	13 979	18 049	22 882	31 813	47 458	57 139	-
130	-	-	-	15 285	19 500	27 324	41 157	49 787	-
Power input in W									
45	1 266	1 301	1 305	1 255	1 125	731	-	-	-
60	1 466	1 517	1 560	1 572	1 529	1 310	605	-	-
70	1 623	1 670	1 726	1 766	1 767	1 644	1 122	655	-
90	2 043	2 051	2 099	2 164	2 221	2 241	2 022	1 753	-
100	-	2 302	2 330	2 391	2 459	2 527	2 426	2 240	-
110	-	2 609	2 606	2 652	2 721	2 820	2 816	2 702	-
130	-	-	-	3 322	3 361	3 473	3 598	3 596	-
Current consumption in A									
45	2.25	2.22	2.18	2.09	1.93	1.47	-	-	-
60	2.60	2.58	2.58	2.56	2.49	2.22	1.39	-	-
70	2.83	2.80	2.81	2.82	2.80	2.64	2.01	1.45	-
90	3.34	3.28	3.29	3.33	3.38	3.38	3.11	2.78	-
100	-	3.57	3.56	3.61	3.67	3.75	3.62	3.39	-
110	-	3.93	3.89	3.93	4.01	4.13	4.13	3.99	-
130	-	-	-	4.78	4.85	5.02	5.21	5.22	-
Mass flow in lbs/h									
45	130	169	214	268	331	446	-	-	-
60	127	165	210	264	326	441	639	-	-
70	124	162	208	261	323	438	635	756	-
90	118	156	201	254	317	430	626	746	-
100	-	153	198	251	313	426	621	740	-
110	-	149	194	247	309	421	616	735	-
130	-	-	-	238	300	411	604	722	-
Energy Efficiency Ratio (E.E.R.)									
45	9.81	12.39	15.83	20.87	29.13	61.41	-	-	-
60	7.72	9.80	12.30	15.52	20.02	32.12	102.42	-	-
70	6.52	8.39	10.53	13.13	16.49	24.40	52.72	108.15	-
90	4.47	6.00	7.68	9.56	11.75	16.10	26.44	36.60	-
100	-	4.97	6.46	8.11	9.96	13.44	20.81	27.09	-
110	-	4.05	5.36	6.81	8.41	11.28	16.85	21.14	-
130	-	-	-	4.60	5.80	7.87	11.44	13.84	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	37 291	Btu/h	Current consumption	5.18	A
Power input	3 578	W	Mass flow	551	lbs/h
E.E.R.	10.42				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

Sound power data

Sound power level	77	dB(A)
With accoustic hood	0	dB(A)

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Performance data at 65 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	13 476	17 480	22 401	28 363	35 488	48 630	-	-	-
60	12 290	16 129	20 806	26 446	33 173	45 570	67 053	-	-
70	11 508	15 224	19 727	25 141	31 590	43 472	64 087	76 718	-
90	9 949	13 392	17 518	22 450	28 313	39 122	57 944	69 522	-
100	-	12 457	16 380	21 058	26 613	36 864	54 760	65 797	-
110	-	11 506	15 216	19 629	24 868	34 547	51 497	61 984	-
130	-	-	-	16 651	21 228	29 718	44 721	54 078	-
Power input in W									
45	1 383	1 424	1 431	1 378	1 240	821	-	-	-
60	1 599	1 657	1 706	1 721	1 676	1 444	694	-	-
70	1 767	1 822	1 886	1 931	1 934	1 804	1 249	752	-
90	2 215	2 231	2 288	2 360	2 423	2 447	2 214	1 928	-
100	-	2 499	2 535	2 604	2 680	2 754	2 648	2 451	-
110	-	2 826	2 830	2 884	2 961	3 069	3 066	2 945	-
130	-	-	-	3 600	3 646	3 769	3 903	3 902	-
Current consumption in A									
45	2.40	2.38	2.34	2.25	2.08	1.58	-	-	-
60	2.77	2.76	2.77	2.76	2.68	2.39	1.49	-	-
70	3.01	3.00	3.03	3.04	3.03	2.85	2.18	1.58	-
90	3.56	3.52	3.54	3.60	3.65	3.67	3.38	3.02	-
100	-	3.84	3.84	3.90	3.98	4.06	3.93	3.68	-
110	-	4.22	4.20	4.25	4.34	4.47	4.48	4.33	-
130	-	-	-	5.16	5.24	5.42	5.63	5.65	-
Mass flow in lbs/h									
45	142	183	232	290	358	483	-	-	-
60	138	179	228	286	354	478	692	-	-
70	135	176	225	283	351	474	688	818	-
90	128	170	219	276	344	466	679	808	-
100	-	166	215	272	340	462	673	803	-
110	-	163	211	268	335	458	668	797	-
130	-	-	-	259	326	447	657	785	-
Energy Efficiency Ratio (E.E.R.)									
45	9.74	12.27	15.66	20.59	28.62	59.24	-	-	-
60	7.69	9.73	12.19	15.37	19.79	31.57	96.67	-	-
70	6.51	8.35	10.46	13.02	16.34	24.10	51.31	101.95	-
90	4.49	6.00	7.66	9.51	11.68	15.99	26.17	36.05	-
100	-	4.98	6.46	8.09	9.93	13.38	20.68	26.85	-
110	-	4.07	5.38	6.81	8.40	11.26	16.80	21.04	-
130	-	-	-	4.63	5.82	7.89	11.46	13.86	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	40 529	Btu/h	Current consumption	5.60	A
Power input	3 882	W	Mass flow	599	lbs/h
E.E.R.	10.44				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point
T C : Condensing temperature at dew point
Rating conditions : Superheat = 20 °F , Subcooling = 15 °F
Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 70 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	14 530	18 836	24 127	30 535	38 194	52 317	-	-	-
60	13 261	17 392	22 424	28 490	35 722	49 049	72 144	-	-
70	12 425	16 426	21 273	27 097	34 033	46 810	68 977	82 558	-
90	10 754	14 466	18 912	24 224	30 536	42 168	62 419	74 875	-
100	-	13 464	17 694	22 735	28 720	39 757	59 019	70 898	-
110	-	12 441	16 446	21 205	26 853	37 280	55 534	66 824	-
130	-	-	-	18 007	22 950	32 113	48 289	58 374	-
Power input in W									
45	1 506	1 553	1 562	1 506	1 361	919	-	-	-
60	1 736	1 804	1 859	1 876	1 829	1 584	794	-	-
70	1 914	1 980	2 051	2 102	2 106	1 969	1 385	863	-
90	2 387	2 414	2 482	2 563	2 632	2 658	2 412	2 111	-
100	-	2 698	2 745	2 824	2 908	2 988	2 875	2 667	-
110	-	3 043	3 058	3 121	3 208	3 325	3 321	3 194	-
130	-	-	-	3 881	3 937	4 072	4 215	4 212	-
Current consumption in A									
45	2.54	2.54	2.51	2.42	2.23	1.69	-	-	-
60	2.93	2.95	2.97	2.96	2.89	2.58	1.61	-	-
70	3.19	3.20	3.25	3.28	3.26	3.08	2.35	1.71	-
90	3.78	3.76	3.80	3.88	3.95	3.96	3.65	3.28	-
100	-	4.11	4.13	4.21	4.30	4.39	4.25	3.99	-
110	-	4.52	4.52	4.58	4.69	4.83	4.84	4.68	-
130	-	-	-	5.56	5.65	5.85	6.07	6.09	-
Mass flow in lbs/h									
45	153	197	250	312	385	519	-	-	-
60	149	193	246	308	381	514	744	-	-
70	146	190	243	305	378	511	740	881	-
90	139	184	236	298	370	503	731	871	-
100	-	180	232	294	366	498	726	865	-
110	-	176	228	290	362	494	721	859	-
130	-	-	-	281	353	484	709	847	-
Energy Efficiency Ratio (E.E.R.)									
45	9.65	12.13	15.45	20.27	28.06	56.91	-	-	-
60	7.64	9.64	12.06	15.19	19.53	30.97	90.84	-	-
70	6.49	8.30	10.37	12.89	16.16	23.77	49.82	95.72	-
90	4.51	5.99	7.62	9.45	11.60	15.86	25.88	35.46	-
100	-	4.99	6.45	8.05	9.88	13.31	20.53	26.58	-
110	-	4.09	5.38	6.79	8.37	11.21	16.72	20.92	-
130	-	-	-	4.64	5.83	7.89	11.46	13.86	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	43 771	Btu/h	Current consumption	6.04	A
Power input	4 193	W	Mass flow	647	lbs/h
E.E.R.	10.44				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 75 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	15 581	20 188	25 846	32 696	40 881	55 974	-	-	-
60	14 230	18 654	24 038	30 527	38 261	52 510	77 199	-	-
70	13 339	17 626	22 816	29 049	36 469	50 136	73 840	88 362	-
90	11 553	15 537	20 304	25 996	32 756	45 210	66 882	80 210	-
100	-	14 464	19 004	24 410	30 825	42 648	63 273	75 987	-
110	-	13 367	17 669	22 778	28 836	40 014	59 569	71 660	-
130	-	-	-	19 355	24 668	34 507	51 861	62 673	-
Power input in W									
45	1 634	1 687	1 698	1 641	1 489	1 026	-	-	-
60	1 877	1 955	2 017	2 037	1 988	1 731	906	-	-
70	2 064	2 143	2 223	2 279	2 284	2 141	1 529	985	-
90	2 559	2 602	2 681	2 772	2 848	2 876	2 617	2 302	-
100	-	2 899	2 960	3 050	3 142	3 228	3 108	2 889	-
110	-	3 259	3 289	3 365	3 462	3 587	3 582	3 447	-
130	-	-	-	4 166	4 234	4 382	4 532	4 527	-
Current consumption in A									
45	2.69	2.70	2.68	2.59	2.39	1.81	-	-	-
60	3.09	3.14	3.18	3.18	3.10	2.77	1.73	-	-
70	3.37	3.41	3.47	3.51	3.50	3.31	2.53	1.84	-
90	4.00	4.01	4.08	4.17	4.25	4.27	3.94	3.54	-
100	-	4.38	4.43	4.52	4.63	4.73	4.58	4.30	-
110	-	4.83	4.84	4.93	5.05	5.21	5.21	5.04	-
130	-	-	-	5.97	6.07	6.29	6.53	6.54	-
Mass flow in lbs/h									
45	164	211	268	334	413	556	-	-	-
60	159	207	264	330	408	551	797	-	-
70	156	204	260	327	405	547	792	943	-
90	149	197	254	320	397	539	783	933	-
100	-	193	250	316	393	535	778	927	-
110	-	189	245	311	389	530	773	922	-
130	-	-	-	302	379	520	761	909	-
Energy Efficiency Ratio (E.E.R.)									
45	9.54	11.96	15.22	19.93	27.46	54.55	-	-	-
60	7.58	9.54	11.92	14.99	19.24	30.34	85.19	-	-
70	6.46	8.22	10.26	12.75	15.97	23.42	48.29	89.70	-
90	4.52	5.97	7.57	9.38	11.50	15.72	25.56	34.84	-
100	-	4.99	6.42	8.00	9.81	13.21	20.36	26.30	-
110	-	4.10	5.37	6.77	8.33	11.15	16.63	20.79	-
130	-	-	-	4.65	5.83	7.87	11.44	13.84	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	47 015	Btu/h	Current consumption	6.49	A
Power input	4 510	W	Mass flow	695	lbs/h
E.E.R.	10.43				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point
T C : Condensing temperature at dew point
Rating conditions : Superheat = 20 °F , Subcooling = 15 °F
Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 80 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	16 629	21 536	27 557	34 845	43 552	59 602	-	-	-
60	15 197	19 913	25 649	32 557	40 790	55 952	82 218	-	-
70	14 249	18 824	24 356	30 997	38 899	53 449	78 677	94 130	-
90	12 344	16 602	21 692	27 766	34 975	48 248	71 334	85 527	-
100	-	15 457	20 310	26 083	32 928	45 538	67 520	81 067	-
110	-	14 282	18 886	24 347	30 818	42 748	63 603	76 492	-
130	-	-	-	20 693	26 381	36 901	55 436	66 977	-
Power input in W									
45	1 766	1 827	1 841	1 781	1 623	1 142	-	-	-
60	2 023	2 112	2 181	2 203	2 153	1 885	1 030	-	-
70	2 218	2 311	2 401	2 462	2 469	2 318	1 683	1 120	-
90	2 730	2 792	2 887	2 988	3 070	3 099	2 828	2 500	-
100	-	3 102	3 180	3 282	3 383	3 474	3 346	3 118	-
110	-	3 476	3 524	3 615	3 722	3 856	3 848	3 706	-
130	-	-	-	4 455	4 537	4 700	4 855	4 847	-
Current consumption in A									
45	2.83	2.87	2.86	2.77	2.56	1.94	-	-	-
60	3.26	3.33	3.39	3.40	3.32	2.96	1.85	-	-
70	3.54	3.62	3.70	3.76	3.76	3.55	2.72	1.98	-
90	4.23	4.26	4.36	4.47	4.56	4.59	4.24	3.81	-
100	-	4.66	4.74	4.85	4.98	5.09	4.93	4.63	-
110	-	5.14	5.18	5.29	5.42	5.60	5.60	5.42	-
130	-	-	-	6.40	6.52	6.75	7.00	7.00	-
Mass flow in lbs/h									
45	175	226	286	356	440	592	-	-	-
60	170	221	281	352	435	587	848	-	-
70	167	218	278	349	432	583	844	1 004	-
90	159	211	271	342	424	575	835	994	-
100	-	206	267	337	420	571	830	989	-
110	-	202	262	333	416	566	825	984	-
130	-	-	-	322	405	556	814	972	-
Energy Efficiency Ratio (E.E.R.)									
45	9.41	11.79	14.97	19.56	26.84	52.20	-	-	-
60	7.51	9.43	11.76	14.78	18.94	29.69	79.84	-	-
70	6.42	8.14	10.14	12.59	15.76	23.06	46.75	84.02	-
90	4.52	5.95	7.51	9.29	11.39	15.57	25.23	34.21	-
100	-	4.98	6.39	7.95	9.73	13.11	20.18	26.00	-
110	-	4.11	5.36	6.73	8.28	11.09	16.53	20.64	-
130	-	-	-	4.65	5.81	7.85	11.42	13.82	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	50 262	Btu/h	Current consumption	6.96	A
Power input	4 832	W	Mass flow	743	lbs/h
E.E.R.	10.40				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point
T C : Condensing temperature at dew point
Rating conditions : Superheat = 20 °F , Subcooling = 15 °F
Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 85 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	17 675	22 879	29 262	36 983	46 205	63 201	-	-	-
60	16 161	21 169	27 256	34 582	43 308	59 375	87 200	-	-
70	15 157	20 019	25 894	32 941	41 323	56 749	83 486	99 861	-
90	13 127	17 663	23 078	29 534	37 191	51 281	75 773	90 827	-
100	-	16 443	21 611	27 753	35 031	48 426	71 761	86 136	-
110	-	15 187	20 096	25 912	32 798	45 481	67 635	81 320	-
130	-	-	-	22 021	28 088	39 295	59 015	71 285	-
Power input in W									
45	1 904	1 972	1 989	1 927	1 763	1 266	-	-	-
60	2 173	2 275	2 351	2 376	2 324	2 045	1 165	-	-
70	2 376	2 485	2 585	2 652	2 659	2 502	1 846	1 268	-
90	2 902	2 987	3 098	3 210	3 298	3 328	3 044	2 706	-
100	-	3 307	3 405	3 521	3 630	3 726	3 590	3 352	-
110	-	3 692	3 764	3 871	3 990	4 132	4 120	3 969	-
130	-	-	-	4 747	4 846	5 024	5 183	5 171	-
Current consumption in A									
45	2.98	3.04	3.05	2.96	2.74	2.07	-	-	-
60	3.42	3.52	3.60	3.62	3.54	3.17	1.98	-	-
70	3.72	3.83	3.94	4.01	4.02	3.80	2.91	2.13	-
90	4.45	4.52	4.64	4.78	4.89	4.92	4.54	4.08	-
100	-	4.95	5.05	5.19	5.33	5.46	5.28	4.96	-
110	-	5.46	5.53	5.66	5.82	6.01	6.01	5.81	-
130	-	-	-	6.84	6.98	7.23	7.48	7.48	-
Mass flow in lbs/h									
45	186	240	303	378	466	627	-	-	-
60	181	235	299	374	462	623	900	-	-
70	178	232	296	371	459	619	896	1 065	-
90	169	224	288	363	451	611	887	1 056	-
100	-	220	284	359	447	607	883	1 051	-
110	-	215	279	354	442	602	878	1 046	-
130	-	-	-	343	431	592	867	1 034	-
Energy Efficiency Ratio (E.E.R.)									
45	9.28	11.60	14.71	19.19	26.21	49.92	-	-	-
60	7.44	9.31	11.59	14.56	18.64	29.03	74.86	-	-
70	6.38	8.06	10.02	12.42	15.54	22.68	45.24	78.75	-
90	4.52	5.91	7.45	9.20	11.28	15.41	24.89	33.57	-
100	-	4.97	6.35	7.88	9.65	13.00	19.99	25.69	-
110	-	4.11	5.34	6.69	8.22	11.01	16.42	20.49	-
130	-	-	-	4.64	5.80	7.82	11.39	13.79	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	53 513	Btu/h	Current consumption	7.44	A
Power input	5 161	W	Mass flow	791	lbs/h
E.E.R.	10.37				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point
T C : Condensing temperature at dew point
Rating conditions : Superheat = 20 °F , Subcooling = 15 °F
Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 90 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	18 718	24 219	30 959	39 110	48 840	66 770	-	-	-
60	17 124	22 424	28 859	36 601	45 817	62 780	92 147	-	-
70	16 061	21 212	27 429	34 882	43 741	60 036	88 269	105 557	-
90	13 904	18 719	24 462	31 300	39 406	54 310	80 201	96 109	-
100	-	17 422	22 909	29 422	37 132	51 312	75 995	91 194	-
110	-	16 081	21 299	27 474	34 776	48 215	71 665	86 143	-
130	-	-	-	23 341	29 790	41 689	62 598	75 597	-
Power input in W									
45	2 047	2 123	2 142	2 079	1 909	1 399	-	-	-
60	2 327	2 443	2 527	2 554	2 500	2 212	1 311	-	-
70	2 537	2 663	2 775	2 847	2 855	2 692	2 017	1 428	-
90	3 075	3 185	3 314	3 439	3 533	3 564	3 267	2 919	-
100	-	3 514	3 634	3 766	3 885	3 985	3 840	3 593	-
110	-	3 908	4 006	4 133	4 264	4 414	4 396	4 238	-
130	-	-	-	5 043	5 161	5 356	5 517	5 500	-
Current consumption in A									
45	3.13	3.22	3.24	3.15	2.92	2.21	-	-	-
60	3.58	3.72	3.82	3.85	3.78	3.38	2.12	-	-
70	3.90	4.05	4.18	4.28	4.28	4.06	3.12	2.29	-
90	4.67	4.79	4.94	5.10	5.23	5.27	4.86	4.37	-
100	-	5.24	5.38	5.55	5.71	5.85	5.65	5.31	-
110	-	5.79	5.89	6.05	6.22	6.43	6.42	6.21	-
130	-	-	-	7.30	7.45	7.73	7.98	7.97	-
Mass flow in lbs/h									
45	197	254	321	400	493	663	-	-	-
60	192	249	316	396	489	658	951	-	-
70	188	246	313	392	485	655	947	1 126	-
90	179	238	305	385	478	648	939	1 117	-
100	-	233	301	381	474	643	935	1 113	-
110	-	227	296	376	469	639	930	1 108	-
130	-	-	-	364	458	628	919	1 097	-
Energy Efficiency Ratio (E.E.R.)									
45	9.14	11.41	14.45	18.81	25.58	47.73	-	-	-
60	7.36	9.18	11.42	14.33	18.33	28.38	70.26	-	-
70	6.33	7.97	9.89	12.25	15.32	22.30	43.76	73.90	-
90	4.52	5.88	7.38	9.10	11.15	15.24	24.55	32.93	-
100	-	4.96	6.30	7.81	9.56	12.88	19.79	25.38	-
110	-	4.11	5.32	6.65	8.16	10.92	16.30	20.32	-
130	-	-	-	4.63	5.77	7.78	11.35	13.75	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	56 767	Btu/h	Current consumption	7.94	A
Power input	5 497	W	Mass flow	839	lbs/h
E.E.R.	10.33				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 95 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	19 759	25 554	32 650	41 225	51 458	70 309	-	-	-
60	18 083	23 675	30 459	38 613	48 316	66 166	97 058	-	-
70	16 963	22 403	28 962	36 819	46 152	63 311	93 026	111 215	-
90	14 674	19 771	25 842	33 065	41 618	57 335	84 617	101 373	-
100	-	18 395	24 201	31 087	39 231	54 197	80 224	96 242	-
110	-	16 966	22 496	29 032	36 753	50 948	75 693	90 961	-
130	-	-	-	24 650	31 487	44 083	66 185	79 913	-
Power input in W									
45	2 195	2 280	2 302	2 237	2 062	1 541	-	-	-
60	2 486	2 616	2 709	2 738	2 683	2 386	1 470	-	-
70	2 701	2 847	2 971	3 048	3 057	2 888	2 198	1 601	-
90	3 247	3 386	3 537	3 674	3 775	3 805	3 497	3 140	-
100	-	3 724	3 869	4 018	4 146	4 250	4 095	3 840	-
110	-	4 124	4 253	4 401	4 546	4 703	4 679	4 513	-
130	-	-	-	5 343	5 483	5 694	5 857	5 833	-
Current consumption in A									
45	3.27	3.40	3.43	3.35	3.10	2.36	-	-	-
60	3.74	3.92	4.05	4.09	4.02	3.60	2.26	-	-
70	4.08	4.27	4.43	4.54	4.56	4.32	3.32	2.45	-
90	4.90	5.06	5.25	5.43	5.58	5.62	5.19	4.67	-
100	-	5.55	5.72	5.92	6.09	6.24	6.03	5.67	-
110	-	6.13	6.27	6.45	6.65	6.87	6.85	6.62	-
130	-	-	-	7.77	7.95	8.24	8.49	8.47	-
Mass flow in lbs/h									
45	208	268	338	422	519	698	-	-	-
60	203	263	334	417	515	694	1 001	-	-
70	199	260	331	414	512	691	998	1 186	-
90	189	251	323	407	505	684	991	1 179	-
100	-	246	318	402	501	680	987	1 174	-
110	-	240	312	397	496	675	982	1 170	-
130	-	-	-	384	484	664	972	1 160	-
Energy Efficiency Ratio (E.E.R.)									
45	9.00	11.21	14.18	18.43	24.96	45.64	-	-	-
60	7.27	9.05	11.25	14.10	18.01	27.73	66.04	-	-
70	6.28	7.87	9.75	12.08	15.10	21.93	42.32	69.45	-
90	4.52	5.84	7.31	9.00	11.03	15.07	24.20	32.29	-
100	-	4.94	6.26	7.74	9.46	12.75	19.59	25.07	-
110	-	4.11	5.29	6.60	8.09	10.83	16.18	20.16	-
130	-	-	-	4.61	5.74	7.74	11.30	13.70	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	60 023	Btu/h	Current consumption	8.46	A
Power input	5 838	W	Mass flow	887	lbs/h
E.E.R.	10.28				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point
T C : Condensing temperature at dew point
Rating conditions : Superheat = 20 °F , Subcooling = 15 °F
Tolerance according EN12900

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

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Performance data at 100 Hz, ARI rating conditions

R410A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-25	-15	-5	5	15	30	50	60	70
Cooling capacity in Btu/h									
45	20 798	26 885	34 333	43 328	54 059	73 818	-	-	-
60	19 041	24 925	32 055	40 619	50 805	69 534	101 933	-	-
70	17 861	23 591	30 493	38 752	48 556	66 572	97 755	116 838	-
90	15 436	20 818	27 220	34 827	43 829	60 355	89 022	106 619	-
100	-	19 360	25 490	32 751	41 330	57 080	84 447	101 280	-
110	-	17 840	23 685	30 586	38 728	53 682	79 720	95 776	-
130	-	-	-	25 951	33 179	46 476	69 775	84 234	-
Power input in W									
45	2 348	2 442	2 467	2 401	2 221	1 691	-	-	-
60	2 649	2 796	2 896	2 929	2 871	2 567	1 639	-	-
70	2 869	3 036	3 172	3 256	3 265	3 089	2 388	1 787	-
90	3 419	3 592	3 765	3 916	4 023	4 052	3 732	3 368	-
100	-	3 935	4 109	4 276	4 415	4 521	4 356	4 092	-
110	-	4 341	4 503	4 675	4 834	4 999	4 966	4 792	-
130	-	-	-	5 647	5 810	6 040	6 202	6 171	-
Current consumption in A									
45	3.42	3.58	3.63	3.55	3.30	2.51	-	-	-
60	3.90	4.12	4.28	4.34	4.27	3.82	2.41	-	-
70	4.26	4.49	4.69	4.82	4.85	4.60	3.54	2.61	-
90	5.12	5.33	5.56	5.78	5.94	5.99	5.53	4.98	-
100	-	5.85	6.07	6.29	6.49	6.66	6.43	6.03	-
110	-	6.47	6.65	6.87	7.08	7.33	7.29	7.04	-
130	-	-	-	8.26	8.46	8.77	9.02	8.99	-
Mass flow in lbs/h									
45	218	282	356	443	546	733	-	-	-
60	213	277	351	439	542	729	1 052	-	-
70	209	273	348	436	539	726	1 049	1 246	-
90	199	264	340	428	532	720	1 042	1 240	-
100	-	259	335	424	527	716	1 039	1 236	-
110	-	252	329	418	522	711	1 035	1 232	-
130	-	-	-	404	510	700	1 025	1 222	-
Energy Efficiency Ratio (E.E.R.)									
45	8.86	11.01	13.92	18.05	24.34	43.66	-	-	-
60	7.19	8.92	11.07	13.87	17.70	27.09	62.19	-	-
70	6.23	7.77	9.61	11.90	14.87	21.55	40.94	65.39	-
90	4.51	5.80	7.23	8.89	10.90	14.89	23.85	31.66	-
100	-	4.92	6.20	7.66	9.36	12.63	19.39	24.75	-
110	-	4.11	5.26	6.54	8.01	10.74	16.05	19.99	-
130	-	-	-	4.60	5.71	7.69	11.25	13.65	-

Nominal performance at to = 45 °F, tc = 130 °F

Cooling capacity	63 283	Btu/h	Current consumption	8.99	A
Power input	6 185	W	Mass flow	935	lbs/h
E.E.R.	10.23				

Pressure switch settings

Maximum HP switch setting	635	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	17	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 15 °F

Tolerance according EN12900

Sound power data

Sound power level	86	dB(A)
With accoustic hood	0	dB(A)

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