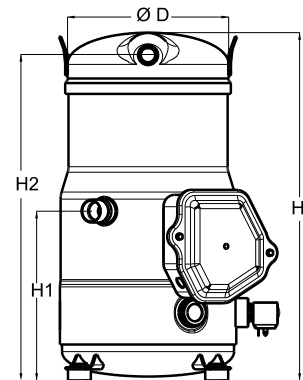


**General Characteristics**

Model number (on compressor nameplate)		<b>VSH088AJANB</b>
Code number for Singlepack*		120G0004
Drawing number		8560030d
Suction and discharge connections		Brazed
Suction connection		1-1/8" ODF
Discharge connection		7/8" ODF
Oil sight glass		Threaded
Oil equalization connection		1-3/4" Rotolock
Oil drain connection		None
LP gauge port		Schrader
IPR valve		None
Swept volume	5.39 in <sup>3</sup> /rev	
Net weight	130 lbs	
Oil charge	112 oz, POE - 160SZ	
Maximum system test pressure Low Side / High side	483 psi / 653 psi	
Maximum differential test pressure	537 psi	
Maximum number of starts per hour	12	
Refrigerant charge limit	13 lbs	
Approved refrigerants	R410A	

**Dimensions**

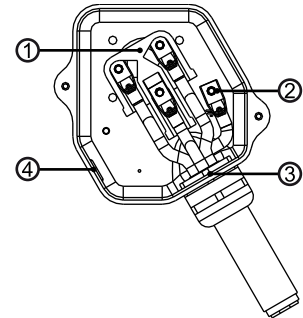


D=9.6 inch, H=19.1 inch,  
H1=9.3 inch, H2=17.8 inch, H3=- inch

**Electrical Characteristics**

Nominal voltage	Frequency converter CDS302 required with supply voltage 200-240V/3/50-60Hz
Voltage range	180-264 V supply to frequency converter
Rated Load Amps (RLA)	61.5 A
Maximum Must Trip current (MMT)	76.9 A
Locked Rotor Amps (LRA)	346 A
Motor protection	Motor protection by frequency converter

**Terminal box**



- IP54 (with cable gland)
- 1: Power connection, 3 x 4.8 mm (3/16")
  - 2: Earth M4
  - 3: Hole Ø 40.5 mm (1.59")
  - 4: Knock-out Ø 16.5 mm (0.65")

**Recommended Installation torques**

Oil sight glass	37 ft.lbs
Power connections / Earth connection	2 ft.lbs / 1 ft.lbs
Mounting bolts	11 ft.lbs

**Parts shipped with compressor**

Mounting kit with grommets, bolts, nuts, sleeves and washers
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified when connected to frequency converter, -  
\*Singlepack: Compressor in cardboard box

Rotolock accessories, suction side	Code no.
Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side	Code no.
Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)	8168030
Gasket, 1-3/4"	8156132

Rotolock accessories, sets	Code no.
Solder sleeve adapter set, 1-1/8" ODF & 7/8" ODF	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

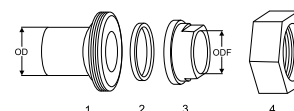
Oil / lubricants	Code no.
POE lubricant, 160SZ, 1 liter can	7754023
POE lubricant, 160SZ, 2 liter can	120Z0571

Crankcase heaters	Code no.
Surface sump heater, 80 W, 24 V, CE mark, UL	120Z0388
Surface sump heater, 80 W, 230 V, CE mark, UL	120Z0389
Belt type crankcase heater, 75 W, 110 V, CE mark, UL	7773110
Belt type crankcase heater, 50 W, 240 V, UL	7773003
Belt type crankcase heater, 65 W, 110 V, CE mark, UL	7773109
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	7773107
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0038

Miscellaneous accessories	Code no.
Discharge temperature sensor / converter	120Z0157
Discharge temperature sensor	120Z0158
Discharge temperature converter	120Z0159
Acoustic hood for scroll compressor VSH088-J	120Z0155
Discharge thermostat kit	7750009

Spare parts	Code no.
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z0066
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (white teflon)	8156129
Terminal box incl cover	120Z0148
Terminal box cover	120Z0151
T block connector 2.4" x 3"	8173021

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 30 Hz, ARI rating conditions**
**R410A**

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	0	10	20	30	40	45	55	59	

**Cooling capacity in Btu/h**

70	-	24 267	30 253	37 441	45 954	55 914	-	-	-
90	-	21 604	27 400	34 267	42 328	51 706	56 929	68 515	73 599
110	-	-	23 544	29 784	37 090	45 587	50 322	60 842	65 464
130	-	-	-	-	30 421	37 749	41 855	51 032	55 086
140	-	-	-	-	-	33 303	37 052	45 478	49 218
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Power input in W**

70	-	2 425	2 446	2 455	2 443	2 403	-	-	-
90	-	3 025	3 051	3 079	3 101	3 109	3 105	3 075	3 053
110	-	-	3 853	3 869	3 894	3 919	3 928	3 937	3 934
130	-	-	-	-	5 087	5 097	5 105	5 121	5 126
140	-	-	-	-	-	5 908	5 909	5 917	5 921
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Current consumption in A**

70	-	9.33	9.25	9.09	8.90	8.71	-	-	-
90	-	10.38	10.41	10.36	10.27	10.16	10.12	10.07	10.07
110	-	-	12.83	12.81	12.75	12.66	12.63	12.59	12.59
130	-	-	-	-	16.08	15.95	15.89	15.79	15.77
140	-	-	-	-	-	17.80	17.71	17.56	17.52
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Mass flow in lbs/h**

70	-	273	338	413	501	604	-	-	-
90	-	268	336	415	506	611	670	799	856
110	-	-	320	399	491	596	655	784	841
130	-	-	-	-	456	559	617	743	799
140	-	-	-	-	-	533	589	713	768
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Energy Efficiency Ratio (E.E.R.)**

70	-	10.01	12.37	15.25	18.81	23.27	-	-	-
90	-	7.14	8.98	11.13	13.65	16.63	18.34	22.28	24.11
110	-	-	6.11	7.70	9.53	11.63	12.81	15.46	16.64
130	-	-	-	-	5.98	7.41	8.20	9.96	10.75
140	-	-	-	-	-	5.64	6.27	7.69	8.31
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

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

Cooling capacity	41 855	Btu/h	Current consumption	15.89	A
Power input	5 105	W	Mass flow	617	lbs/h
E.E.R.	8.20				

**Pressure switch settings**

Maximum HP switch setting	653	psi(g)
Minimum LP switch setting	22	psi(g)
LP pump down setting	33	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 acoustic 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)							
	0	10	20	30	40	45	55	59

**Cooling capacity in Btu/h**

70	-	28 589	35 602	44 017	53 979	65 629	-	-	-
90	-	25 415	32 146	40 123	49 490	60 391	66 462	79 934	85 846
110	-	-	27 912	35 142	43 607	53 456	58 945	71 143	76 504
130	-	-	-	-	36 345	44 853	49 619	60 268	64 972
140	-	-	-	-	-	40 009	44 373	54 174	58 522
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Power input in W**

70	-	2 807	2 824	2 828	2 811	2 768	-	-	-
90	-	3 484	3 510	3 536	3 556	3 562	3 558	3 532	3 513
110	-	-	4 393	4 412	4 439	4 466	4 477	4 492	4 494
130	-	-	-	-	5 720	5 739	5 751	5 778	5 789
140	-	-	-	-	-	6 595	6 602	6 625	6 635
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Current consumption in A**

70	-	10.38	10.34	10.26	10.16	10.04	-	-	-
90	-	11.60	11.65	11.65	11.63	11.59	11.56	11.52	11.51
110	-	-	14.08	14.12	14.12	14.11	14.09	14.07	14.06
130	-	-	-	-	17.52	17.48	17.45	17.40	17.38
140	-	-	-	-	-	19.44	19.40	19.31	19.28
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Mass flow in lbs/h**

70	-	320	396	485	588	708	-	-	-
90	-	316	394	486	591	714	782	932	998
110	-	-	380	471	577	699	767	917	982
130	-	-	-	-	545	665	731	878	942
140	-	-	-	-	-	640	705	850	913
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Energy Efficiency Ratio (E.E.R.)**

70	-	10.19	12.61	15.56	19.20	23.71	-	-	-
90	-	7.29	9.16	11.35	13.92	16.95	18.68	22.63	24.44
110	-	-	6.35	7.97	9.82	11.97	13.16	15.84	17.02
130	-	-	-	-	6.35	7.82	8.63	10.43	11.22
140	-	-	-	-	-	6.07	6.72	8.18	8.82
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

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

Cooling capacity	49 619	Btu/h	Current consumption	17.45	A
Power input	5 751	W	Mass flow	731	lbs/h
E.E.R.	8.63				

**Pressure switch settings**

Maximum HP switch setting	653	psi(g)
Minimum LP switch setting	22	psi(g)
LP pump down setting	33	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 acoustic 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)								
	0	10	20	30	40	45	55	59	

**Cooling capacity in Btu/h**

70	-	32 950	41 001	50 657	62 084	75 443	-	-	-
90	-	29 255	36 936	46 041	56 734	69 181	76 113	91 500	98 252
110	-	-	32 303	40 540	50 187	61 413	67 670	81 577	87 689
130	-	-	-	-	42 296	52 010	57 450	69 602	74 969
140	-	-	-	-	-	46 747	51 739	62 945	67 915
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Power input in W**

70	-	3 200	3 218	3 221	3 204	3 164	-	-	-
90	-	3 953	3 982	4 010	4 031	4 041	4 040	4 024	4 011
110	-	-	4 947	4 972	5 003	5 036	5 052	5 078	5 085
130	-	-	-	-	6 376	6 405	6 423	6 464	6 481
140	-	-	-	-	-	7 309	7 323	7 361	7 380
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Current consumption in A**

70	-	11.40	11.40	11.40	11.37	11.31	-	-	-
90	-	12.82	12.89	12.95	12.99	13.01	13.01	12.98	12.95
110	-	-	15.37	15.46	15.54	15.59	15.60	15.60	15.59
130	-	-	-	-	19.02	19.07	19.08	19.07	19.06
140	-	-	-	-	-	21.15	21.15	21.13	21.11
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Mass flow in lbs/h**

70	-	368	455	557	676	814	-	-	-
90	-	364	453	557	678	818	895	1 067	1 142
110	-	-	439	543	664	803	880	1 051	1 126
130	-	-	-	-	635	771	846	1 014	1 087
140	-	-	-	-	-	748	823	988	1 060
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Energy Efficiency Ratio (E.E.R.)**

70	-	10.30	12.74	15.73	19.37	23.85	-	-	-
90	-	7.40	9.27	11.48	14.07	17.12	18.84	22.74	24.49
110	-	-	6.53	8.15	10.03	12.19	13.40	16.07	17.24
130	-	-	-	-	6.63	8.12	8.94	10.77	11.57
140	-	-	-	-	-	6.40	7.06	8.55	9.20
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

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

Cooling capacity	57 450	Btu/h	Current consumption	19.08	A
Power input	6 423	W	Mass flow	846	lbs/h
E.E.R.	8.94				

**Pressure switch settings**

Maximum HP switch setting	653	psi(g)
Minimum LP switch setting	22	psi(g)
LP pump down setting	33	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 acoustic 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)								
	0	10	20	30	40	45	55	59	

**Cooling capacity in Btu/h**

70	-	37 350	46 451	57 362	70 269	85 357	-	-	-
90	-	33 124	41 771	52 021	64 061	78 077	85 884	103 214	110 819
110	-	-	36 716	45 980	56 831	69 458	76 496	92 143	99 021
130	-	-	-	-	48 277	59 221	65 348	79 034	85 077
140	-	-	-	-	-	53 516	59 150	71 791	77 395
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Power input in W**

70	-	3 604	3 626	3 633	3 622	3 591	-	-	-
90	-	4 433	4 468	4 500	4 527	4 545	4 551	4 551	4 548
110	-	-	5 517	5 549	5 588	5 629	5 651	5 692	5 708
130	-	-	-	-	7 056	7 095	7 120	7 178	7 203
140	-	-	-	-	-	8 050	8 072	8 128	8 154
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Current consumption in A**

70	-	12.40	12.44	12.49	12.53	12.53	-	-	-
90	-	14.04	14.14	14.26	14.36	14.43	14.45	14.45	14.42
110	-	-	16.70	16.85	16.99	17.10	17.14	17.18	17.17
130	-	-	-	-	20.59	20.72	20.76	20.81	20.81
140	-	-	-	-	-	22.93	22.98	23.02	23.02
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Mass flow in lbs/h**

70	-	417	515	630	765	920	-	-	-
90	-	412	512	630	766	923	1 010	1 204	1 288
110	-	-	499	616	752	908	995	1 187	1 271
130	-	-	-	-	724	878	963	1 151	1 234
140	-	-	-	-	-	857	941	1 126	1 208
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

**Energy Efficiency Ratio (E.E.R.)**

70	-	10.36	12.81	15.79	19.40	23.77	-	-	-
90	-	7.47	9.35	11.56	14.15	17.18	18.87	22.68	24.37
110	-	-	6.66	8.29	10.17	12.34	13.54	16.19	17.35
130	-	-	-	-	6.84	8.35	9.18	11.01	11.81
140	-	-	-	-	-	6.65	7.33	8.83	9.49
150	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-

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

Cooling capacity	65 348	Btu/h	Current consumption	20.76	A
Power input	7 120	W	Mass flow	963	lbs/h
E.E.R.	9.18				

**Pressure switch settings**

Maximum HP switch setting	653	psi(g)
Minimum LP switch setting	22	psi(g)
LP pump down setting	33	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 acoustic 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)								
	-10	0	10	20	30	40	45	55	59

**Cooling capacity in Btu/h**

70	33 438	41 788	51 951	64 131	78 536	95 371	-	-	-
90	28 972	37 023	46 651	58 063	71 470	87 078	95 773	115 075	123 545
110	-	-	41 151	51 460	63 536	77 590	85 425	102 842	110 499
130	-	-	-	-	54 286	66 484	73 312	88 563	95 297
140	-	-	-	-	-	60 317	66 606	80 711	86 962
150	-	-	-	-	-	-	59 774	72 785	78 582
154	-	-	-	-	-	-	-	69 849	75 496

**Power input in W**

70	3 977	4 020	4 049	4 064	4 065	4 051	-	-	-
90	4 875	4 923	4 967	5 007	5 043	5 075	5 089	5 114	5 122
110	-	-	6 101	6 143	6 192	6 246	6 275	6 337	6 363
130	-	-	-	-	7 757	7 811	7 843	7 920	7 954
140	-	-	-	-	-	8 819	8 848	8 923	8 959
150	-	-	-	-	-	-	10 042	10 110	10 144
154	-	-	-	-	-	-	-	10 643	10 676

**Current consumption in A**

70	13.35	13.37	13.44	13.54	13.63	13.69	-	-	-
90	15.21	15.27	15.40	15.57	15.73	15.86	15.90	15.92	15.90
110	-	-	18.08	18.27	18.48	18.66	18.73	18.81	18.81
130	-	-	-	-	22.23	22.43	22.51	22.62	22.64
140	-	-	-	-	-	24.79	24.87	24.98	25.00
150	-	-	-	-	-	-	27.60	27.71	27.73
154	-	-	-	-	-	-	-	28.91	28.93

**Mass flow in lbs/h**

70	371	465	575	704	854	1 028	-	-	-
90	364	460	572	703	854	1 029	1 127	1 342	1 436
110	-	-	560	690	841	1 015	1 111	1 325	1 419
130	-	-	-	-	814	985	1 080	1 290	1 382
140	-	-	-	-	-	966	1 059	1 267	1 358
150	-	-	-	-	-	-	1 035	1 239	1 329
154	-	-	-	-	-	-	-	1 227	1 316

**Energy Efficiency Ratio (E.E.R.)**

70	8.41	10.40	12.83	15.78	19.32	23.54	-	-	-
90	5.94	7.52	9.39	11.60	14.17	17.16	18.82	22.50	24.12
110	-	-	6.74	8.38	10.26	12.42	13.61	16.23	17.37
130	-	-	-	-	7.00	8.51	9.35	11.18	11.98
140	-	-	-	-	-	6.84	7.53	9.04	9.71
150	-	-	-	-	-	-	5.95	7.20	7.75
154	-	-	-	-	-	-	-	6.56	7.07

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

Cooling capacity	73 312	Btu/h	Current consumption	22.51	A
Power input	7 843	W	Mass flow	1 080	lbs/h
E.E.R.	9.35				

**Pressure switch settings**

Maximum HP switch setting	653	psi(g)
Minimum LP switch setting	22	psi(g)
LP pump down setting	33	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 acoustic 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)								
	-10	0	10	20	30	40	45	55	59

**Cooling capacity in Btu/h**

70	37 030	46 266	57 502	70 965	86 883	105 485	-	-	-
90	32 068	40 952	51 575	64 168	78 962	96 186	105 782	127 083	136 433
110	-	-	45 608	56 982	70 305	85 811	94 456	113 675	122 124
130	-	-	-	-	60 325	73 801	81 344	98 189	105 627
140	-	-	-	-	-	67 150	74 106	89 705	96 618
150	-	-	-	-	-	-	66 750	81 167	87 588
154	-	-	-	-	-	-	-	78 022	84 282

**Power input in W**

70	4 393	4 447	4 486	4 514	4 532	4 542	-	-	-
90	5 362	5 424	5 479	5 530	5 580	5 630	5 656	5 712	5 735
110	-	-	6 700	6 754	6 815	6 885	6 924	7 011	7 049
130	-	-	-	-	8 482	8 551	8 592	8 690	8 735
140	-	-	-	-	-	9 614	9 653	9 748	9 794
150	-	-	-	-	-	-	10 904	10 993	11 037
154	-	-	-	-	-	-	-	11 550	11 593

**Current consumption in A**

70	14.29	14.31	14.42	14.56	14.69	14.79	-	-	-
90	16.43	16.51	16.67	16.88	17.10	17.28	17.35	17.41	17.40
110	-	-	19.49	19.74	20.00	20.25	20.35	20.48	20.50
130	-	-	-	-	23.93	24.20	24.32	24.49	24.53
140	-	-	-	-	-	26.71	26.83	27.01	27.06
150	-	-	-	-	-	-	29.78	29.96	30.01
154	-	-	-	-	-	-	-	31.28	31.33

**Mass flow in lbs/h**

70	411	515	636	779	945	1 137	-	-	-
90	403	509	633	777	944	1 137	1 244	1 482	1 586
110	-	-	620	764	930	1 122	1 229	1 465	1 568
130	-	-	-	-	905	1 094	1 198	1 430	1 532
140	-	-	-	-	-	1 075	1 178	1 408	1 508
150	-	-	-	-	-	-	1 155	1 381	1 481
154	-	-	-	-	-	-	-	1 370	1 469

**Energy Efficiency Ratio (E.E.R.)**

70	8.43	10.40	12.82	15.72	19.17	23.22	-	-	-
90	5.98	7.55	9.41	11.60	14.15	17.08	18.70	22.25	23.79
110	-	-	6.81	8.44	10.32	12.46	13.64	16.21	17.32
130	-	-	-	-	7.11	8.63	9.47	11.30	12.09
140	-	-	-	-	-	6.98	7.68	9.20	9.87
150	-	-	-	-	-	-	6.12	7.38	7.94
154	-	-	-	-	-	-	-	6.76	7.27

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

Cooling capacity	81 344	Btu/h	Current consumption	24.32	A
Power input	8 592	W	Mass flow	1 198	lbs/h
E.E.R.	9.47				

**Pressure switch settings**

Maximum HP switch setting	653	psi(g)
Minimum LP switch setting	22	psi(g)
LP pump down setting	33	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 acoustic 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)								
	-10	0	10	20	30	40	45	55	59

**Cooling capacity in Btu/h**

70	40 651	50 782	63 103	77 862	95 311	115 698	-	-	-
90	35 180	44 910	56 543	70 334	86 536	105 400	115 909	139 239	149 479
110	-	-	50 088	62 545	77 136	94 120	103 588	124 639	133 895
130	-	-	-	-	66 392	81 171	89 442	107 913	116 069
140	-	-	-	-	-	74 014	81 652	98 775	106 361
150	-	-	-	-	-	-	73 747	89 597	96 655
154	-	-	-	-	-	-	-	86 233	93 118

**Power input in W**

70	4 818	4 886	4 939	4 984	5 024	5 065	-	-	-
90	5 858	5 935	6 004	6 070	6 137	6 211	6 251	6 344	6 386
110	-	-	7 314	7 383	7 459	7 547	7 598	7 714	7 767
130	-	-	-	-	9 230	9 316	9 367	9 489	9 546
140	-	-	-	-	-	10 436	10 484	10 603	10 659
150	-	-	-	-	-	-	11 798	11 908	11 962
154	-	-	-	-	-	-	-	12 490	12 543

**Current consumption in A**

70	15.19	15.24	15.36	15.54	15.70	15.83	-	-	-
90	17.65	17.75	17.95	18.21	18.47	18.71	18.80	18.91	18.91
110	-	-	20.95	21.24	21.57	21.88	22.01	22.21	22.25
130	-	-	-	-	25.70	26.03	26.19	26.43	26.50
140	-	-	-	-	-	28.70	28.86	29.12	29.19
150	-	-	-	-	-	-	32.04	32.29	32.37
154	-	-	-	-	-	-	-	33.73	33.80

**Mass flow in lbs/h**

70	450	564	698	854	1 036	1 247	-	-	-
90	442	558	694	851	1 034	1 246	1 364	1 624	1 738
110	-	-	681	838	1 020	1 231	1 347	1 606	1 719
130	-	-	-	-	996	1 203	1 318	1 572	1 684
140	-	-	-	-	-	1 185	1 299	1 550	1 661
150	-	-	-	-	-	-	1 277	1 525	1 634
154	-	-	-	-	-	-	-	1 514	1 622

**Energy Efficiency Ratio (E.E.R.)**

70	8.44	10.39	12.78	15.62	18.97	22.84	-	-	-
90	6.01	7.57	9.42	11.59	14.10	16.97	18.54	21.95	23.41
110	-	-	6.85	8.47	10.34	12.47	13.63	16.16	17.24
130	-	-	-	-	7.19	8.71	9.55	11.37	12.16
140	-	-	-	-	-	7.09	7.79	9.32	9.98
150	-	-	-	-	-	-	6.25	7.52	8.08
154	-	-	-	-	-	-	-	6.90	7.42

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

Cooling capacity	89 442	Btu/h	Current consumption	26.19	A
Power input	9 367	W	Mass flow	1 318	lbs/h
E.E.R.	9.55				

**Pressure switch settings**

Maximum HP switch setting	653	psi(g)
Minimum LP switch setting	22	psi(g)
LP pump down setting	33	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 acoustic hood		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)								
	-10	0	10	20	30	40	45	55	59

**Cooling capacity in Btu/h**

70	44 301	55 337	68 754	84 824	103 820	126 011	-	-	-
90	38 309	48 897	61 557	76 563	94 192	114 719	126 155	151 543	162 686
110	-	-	54 590	68 148	84 030	102 516	112 822	135 737	145 811
130	-	-	-	-	72 488	88 594	97 608	117 735	126 621
140	-	-	-	-	-	80 909	89 242	107 918	116 192
150	-	-	-	-	-	-	80 763	98 077	105 784
154	-	-	-	-	-	-	-	94 482	102 006

**Power input in W**

70	5 252	5 336	5 407	5 472	5 541	5 620	-	-	-
90	6 362	6 458	6 543	6 626	6 714	6 817	6 875	7 012	7 076
110	-	-	7 942	8 028	8 122	8 233	8 297	8 447	8 517
130	-	-	-	-	10 000	10 105	10 167	10 316	10 386
140	-	-	-	-	-	11 286	11 344	11 487	11 555
150	-	-	-	-	-	-	12 722	12 854	12 919
154	-	-	-	-	-	-	-	13 463	13 526

**Current consumption in A**

70	16.07	16.13	16.28	16.47	16.66	16.81	-	-	-
90	18.87	19.00	19.24	19.53	19.85	20.14	20.25	20.41	20.44
110	-	-	22.44	22.79	23.17	23.54	23.71	23.98	24.06
130	-	-	-	-	27.53	27.93	28.11	28.44	28.54
140	-	-	-	-	-	30.77	30.96	31.29	31.40
150	-	-	-	-	-	-	34.38	34.70	34.81
154	-	-	-	-	-	-	-	36.24	36.35

**Mass flow in lbs/h**

70	490	614	760	930	1 128	1 358	-	-	-
90	481	608	755	927	1 126	1 356	1 484	1 767	1 892
110	-	-	742	913	1 112	1 340	1 467	1 749	1 872
130	-	-	-	-	1 088	1 313	1 438	1 715	1 837
140	-	-	-	-	-	1 295	1 419	1 694	1 814
150	-	-	-	-	-	-	1 398	1 669	1 788
154	-	-	-	-	-	-	-	1 659	1 777

**Energy Efficiency Ratio (E.E.R.)**

70	8.44	10.37	12.72	15.50	18.74	22.42	-	-	-
90	6.02	7.57	9.41	11.56	14.03	16.83	18.35	21.61	22.99
110	-	-	6.87	8.49	10.35	12.45	13.60	16.07	17.12
130	-	-	-	-	7.25	8.77	9.60	11.41	12.19
140	-	-	-	-	-	7.17	7.87	9.40	10.06
150	-	-	-	-	-	-	6.35	7.63	8.19
154	-	-	-	-	-	-	-	7.02	7.54

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

Cooling capacity	97 608	Btu/h	Current consumption	28.11	A
Power input	10 167	W	Mass flow	1 438	lbs/h
E.E.R.	9.60				

**Pressure switch settings**

Maximum HP switch setting	653	psi(g)
Minimum LP switch setting	22	psi(g)
LP pump down setting	33	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 acoustic 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)								
	-10	0	10	20	30	40	45	55	59

**Cooling capacity in Btu/h**

70	47 979	59 931	74 456	91 851	112 409	136 425	-	-	-
90	41 454	52 913	66 614	82 854	101 932	124 145	136 520	163 994	176 053
110	-	-	59 114	73 793	90 987	111 001	122 159	146 967	157 875
130	-	-	-	-	78 612	96 071	105 840	127 654	137 285
140	-	-	-	-	-	87 837	96 877	117 137	126 111
150	-	-	-	-	-	-	87 801	106 605	114 975
154	-	-	-	-	-	-	-	102 770	110 945

**Power input in W**

70	5 694	5 797	5 889	5 980	6 083	6 206	-	-	-
90	6 875	6 990	7 094	7 198	7 312	7 448	7 527	7 715	7 803
110	-	-	8 585	8 690	8 805	8 941	9 021	9 210	9 298
130	-	-	-	-	10 793	10 919	10 993	11 171	11 255
140	-	-	-	-	-	12 162	12 232	12 400	12 480
150	-	-	-	-	-	-	13 676	13 833	13 908
154	-	-	-	-	-	-	-	14 469	14 542

**Current consumption in A**

70	16.91	17.00	17.17	17.37	17.57	17.73	-	-	-
90	20.07	20.25	20.53	20.87	21.23	21.56	21.71	21.93	21.99
110	-	-	23.98	24.37	24.81	25.24	25.45	25.80	25.92
130	-	-	-	-	29.43	29.88	30.11	30.52	30.66
140	-	-	-	-	-	32.91	33.12	33.53	33.68
150	-	-	-	-	-	-	36.79	37.18	37.32
154	-	-	-	-	-	-	-	38.84	38.97

**Mass flow in lbs/h**

70	530	665	823	1 007	1 222	1 470	-	-	-
90	521	658	817	1 003	1 218	1 468	1 606	1 913	2 047
110	-	-	804	989	1 204	1 451	1 589	1 893	2 027
130	-	-	-	-	1 179	1 424	1 559	1 860	1 992
140	-	-	-	-	-	1 406	1 541	1 838	1 969
150	-	-	-	-	-	-	1 520	1 814	1 943
154	-	-	-	-	-	-	-	1 804	1 932

**Energy Efficiency Ratio (E.E.R.)**

70	8.43	10.34	12.64	15.36	18.48	21.98	-	-	-
90	6.03	7.57	9.39	11.51	13.94	16.67	18.14	21.26	22.56
110	-	-	6.89	8.49	10.33	12.41	13.54	15.96	16.98
130	-	-	-	-	7.28	8.80	9.63	11.43	12.20
140	-	-	-	-	-	7.22	7.92	9.45	10.10
150	-	-	-	-	-	-	6.42	7.71	8.27
154	-	-	-	-	-	-	-	7.10	7.63

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

Cooling capacity	105 840	Btu/h	Current consumption	30.11	A
Power input	10 993	W	Mass flow	1 559	lbs/h
E.E.R.	9.63				

**Pressure switch settings**

Maximum HP switch setting	653	psi(g)
Minimum LP switch setting	22	psi(g)
LP pump down setting	33	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 acoustic 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)								
	-10	0	10	20	30	40	45	55	59

**Cooling capacity in Btu/h**

70	51 687	64 564	80 209	98 941	121 079	146 938	-	-	-
90	44 615	56 960	71 716	89 207	109 753	133 676	147 004	176 592	189 580
110	-	-	63 661	79 478	98 007	119 573	131 597	158 330	170 084
130	-	-	-	-	84 766	103 600	114 139	137 671	148 059
140	-	-	-	-	-	94 796	104 556	126 429	136 118
150	-	-	-	-	-	-	94 859	115 183	124 227
154	-	-	-	-	-	-	-	111 095	119 934

**Power input in W**

70	6 146	6 270	6 386	6 508	6 649	6 824	-	-	-
90	7 396	7 534	7 659	7 787	7 931	8 105	8 207	8 453	8 569
110	-	-	9 243	9 369	9 508	9 673	9 770	10 002	10 111
130	-	-	-	-	11 609	11 758	11 845	12 055	12 155
140	-	-	-	-	-	13 065	13 147	13 343	13 436
150	-	-	-	-	-	-	14 662	14 842	14 929
154	-	-	-	-	-	-	-	15 508	15 592

**Current consumption in A**

70	17.72	17.84	18.02	18.23	18.43	18.60	-	-	-
90	21.27	21.51	21.83	22.21	22.61	22.99	23.16	23.46	23.55
110	-	-	25.56	26.00	26.49	26.98	27.22	27.67	27.83
130	-	-	-	-	31.39	31.90	32.16	32.66	32.85
140	-	-	-	-	-	35.11	35.36	35.85	36.04
150	-	-	-	-	-	-	39.28	39.73	39.90
154	-	-	-	-	-	-	-	41.50	41.67

**Mass flow in lbs/h**

70	571	716	886	1 085	1 316	1 584	-	-	-
90	560	708	880	1 080	1 312	1 580	1 729	2 059	2 204
110	-	-	866	1 065	1 296	1 563	1 712	2 040	2 184
130	-	-	-	-	1 272	1 535	1 682	2 006	2 148
140	-	-	-	-	-	1 518	1 663	1 984	2 125
150	-	-	-	-	-	-	1 642	1 960	2 100
154	-	-	-	-	-	-	-	1 950	2 089

**Energy Efficiency Ratio (E.E.R.)**

70	8.41	10.30	12.56	15.20	18.21	21.53	-	-	-
90	6.03	7.56	9.36	11.46	13.84	16.49	17.91	20.89	22.12
110	-	-	6.89	8.48	10.31	12.36	13.47	15.83	16.82
130	-	-	-	-	7.30	8.81	9.64	11.42	12.18
140	-	-	-	-	-	7.26	7.95	9.48	10.13
150	-	-	-	-	-	-	6.47	7.76	8.32
154	-	-	-	-	-	-	-	7.16	7.69

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

Cooling capacity	114 139	Btu/h	Current consumption	32.16	A
Power input	11 845	W	Mass flow	1 682	lbs/h
E.E.R.	9.64				

**Pressure switch settings**

Maximum HP switch setting	653	psi(g)
Minimum LP switch setting	22	psi(g)
LP pump down setting	33	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 acoustic 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)								
	-10	0	10	20	30	40	45	55	59

**Cooling capacity in Btu/h**

70	55 424	69 235	86 012	106 097	129 830	157 551	-	-	-
90	47 794	61 035	76 863	95 622	117 657	143 313	157 607	189 339	203 267
110	-	-	68 230	85 205	105 089	128 233	141 137	169 826	182 440
130	-	-	-	-	90 948	111 183	122 506	147 786	158 945
140	-	-	-	-	-	101 787	112 281	135 797	146 212
150	-	-	-	-	-	-	101 937	123 810	133 542
154	-	-	-	-	-	-	-	119 459	128 974

**Power input in W**

70	6 606	6 754	6 898	7 054	7 240	7 474	-	-	-
90	7 926	8 088	8 237	8 392	8 570	8 787	8 916	9 226	9 373
110	-	-	9 916	10 066	10 230	10 428	10 544	10 823	10 955
130	-	-	-	-	12 448	12 621	12 723	12 967	13 083
140	-	-	-	-	-	13 996	14 090	14 315	14 422
150	-	-	-	-	-	-	15 678	15 884	15 982
154	-	-	-	-	-	-	-	16 580	16 674

**Current consumption in A**

70	18.51	18.66	18.85	19.05	19.24	19.40	-	-	-
90	22.47	22.77	23.14	23.56	23.99	24.41	24.62	24.99	25.13
110	-	-	27.17	27.66	28.20	28.76	29.04	29.59	29.81
130	-	-	-	-	33.42	33.98	34.27	34.87	35.10
140	-	-	-	-	-	37.39	37.67	38.23	38.47
150	-	-	-	-	-	-	41.84	42.35	42.56
154	-	-	-	-	-	-	-	44.25	44.44

**Mass flow in lbs/h**

70	612	768	950	1 163	1 411	1 698	-	-	-
90	600	759	943	1 157	1 406	1 694	1 854	2 208	2 363
110	-	-	928	1 142	1 390	1 677	1 836	2 188	2 342
130	-	-	-	-	1 365	1 648	1 805	2 153	2 306
140	-	-	-	-	-	1 630	1 786	2 131	2 283
150	-	-	-	-	-	-	1 764	2 107	2 257
154	-	-	-	-	-	-	-	2 096	2 246

**Energy Efficiency Ratio (E.E.R.)**

70	8.39	10.25	12.47	15.04	17.93	21.08	-	-	-
90	6.03	7.55	9.33	11.39	13.73	16.31	17.68	20.52	21.69
110	-	-	6.88	8.46	10.27	12.30	13.39	15.69	16.65
130	-	-	-	-	7.31	8.81	9.63	11.40	12.15
140	-	-	-	-	-	7.27	7.97	9.49	10.14
150	-	-	-	-	-	-	6.50	7.79	8.36
154	-	-	-	-	-	-	-	7.21	7.73

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

Cooling capacity	122 506	Btu/h	Current consumption	34.27	A
Power input	12 723	W	Mass flow	1 805	lbs/h
E.E.R.	9.63				

**Pressure switch settings**

Maximum HP switch setting	653	psi(g)
Minimum LP switch setting	22	psi(g)
LP pump down setting	33	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 acoustic 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)								
	-10	0	10	20	30	40	45	55	59

**Cooling capacity in Btu/h**

70	59 190	73 945	91 866	113 316	138 661	168 264	-	-	-
90	50 988	65 140	82 054	102 099	125 643	153 056	168 328	202 232	217 113
110	-	-	72 821	90 972	112 234	136 981	150 779	181 454	194 941
130	-	-	-	-	97 159	118 819	130 938	157 997	169 941
140	-	-	-	-	-	108 809	120 050	145 238	156 393
150	-	-	-	-	-	-	109 035	132 485	142 917
154	-	-	-	-	-	-	-	127 861	138 065

**Power input in W**

70	7 075	7 250	7 425	7 620	7 857	8 156	-	-	-
90	8 464	8 652	8 829	9 014	9 229	9 495	9 653	10 035	10 215
110	-	-	10 603	10 779	10 973	11 205	11 343	11 674	11 831
130	-	-	-	-	13 309	13 510	13 627	13 908	14 041
140	-	-	-	-	-	14 954	15 060	15 316	15 438
150	-	-	-	-	-	-	16 726	16 957	17 067
154	-	-	-	-	-	-	-	17 684	17 790

**Current consumption in A**

70	19.26	19.45	19.65	19.84	20.01	20.15	-	-	-
90	23.65	24.04	24.46	24.91	25.37	25.84	26.07	26.54	26.72
110	-	-	28.83	29.37	29.95	30.57	30.90	31.56	31.83
130	-	-	-	-	35.51	36.12	36.44	37.14	37.43
140	-	-	-	-	-	39.74	40.04	40.69	40.97
150	-	-	-	-	-	-	44.48	45.04	45.29
154	-	-	-	-	-	-	-	47.06	47.29

**Mass flow in lbs/h**

70	653	820	1 015	1 242	1 507	1 814	-	-	-
90	640	810	1 007	1 236	1 502	1 809	1 980	2 359	2 524
110	-	-	990	1 219	1 485	1 791	1 961	2 338	2 503
130	-	-	-	-	1 458	1 761	1 929	2 302	2 466
140	-	-	-	-	-	1 742	1 909	2 280	2 442
150	-	-	-	-	-	-	1 887	2 254	2 415
154	-	-	-	-	-	-	-	2 243	2 404

**Energy Efficiency Ratio (E.E.R.)**

70	8.37	10.20	12.37	14.87	17.65	20.63	-	-	-
90	6.02	7.53	9.29	11.33	13.61	16.12	17.44	20.15	21.25
110	-	-	6.87	8.44	10.23	12.22	13.29	15.54	16.48
130	-	-	-	-	7.30	8.80	9.61	11.36	12.10
140	-	-	-	-	-	7.28	7.97	9.48	10.13
150	-	-	-	-	-	-	6.52	7.81	8.37
154	-	-	-	-	-	-	-	7.23	7.76

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

Cooling capacity	130 938	Btu/h	Current consumption	36.44	A
Power input	13 627	W	Mass flow	1 929	lbs/h
E.E.R.	9.61				

**Pressure switch settings**

Maximum HP switch setting	653	psi(g)
Minimum LP switch setting	22	psi(g)
LP pump down setting	33	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 acoustic 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)								
	-10	0	10	20	30	40	45	55	59

**Cooling capacity in Btu/h**

70	62 985	78 694	97 770	120 600	147 573	179 076	-	-	-
90	54 199	69 274	87 290	108 638	133 712	162 905	179 168	215 273	231 120
110	-	-	77 434	96 781	119 442	145 818	160 523	193 216	207 589
130	-	-	-	-	103 399	126 508	139 438	168 307	181 049
140	-	-	-	-	-	115 863	127 864	154 755	166 664
150	-	-	-	-	-	-	116 155	141 210	152 356
154	-	-	-	-	-	-	-	136 301	147 207

**Power input in W**

70	7 553	7 757	7 966	8 205	8 498	8 869	-	-	-
90	9 011	9 228	9 433	9 652	9 909	10 228	10 419	10 878	11 095
110	-	-	11 306	11 509	11 734	12 006	12 167	12 555	12 739
130	-	-	-	-	14 194	14 423	14 556	14 876	15 029
140	-	-	-	-	-	15 938	16 059	16 347	16 485
150	-	-	-	-	-	-	17 804	18 062	18 185
154	-	-	-	-	-	-	-	18 821	18 939

**Current consumption in A**

70	19.98	20.22	20.42	20.58	20.72	20.84	-	-	-
90	24.83	25.32	25.79	26.27	26.76	27.27	27.53	28.09	28.33
110	-	-	30.53	31.11	31.74	32.42	32.79	33.58	33.91
130	-	-	-	-	37.67	38.31	38.68	39.48	39.84
140	-	-	-	-	-	42.16	42.48	43.22	43.55
150	-	-	-	-	-	-	47.20	47.81	48.10
154	-	-	-	-	-	-	-	49.95	50.21

**Mass flow in lbs/h**

70	695	873	1 080	1 322	1 604	1 931	-	-	-
90	681	861	1 071	1 315	1 598	1 926	2 108	2 511	2 687
110	-	-	1 053	1 297	1 580	1 907	2 088	2 489	2 665
130	-	-	-	-	1 551	1 875	2 055	2 452	2 627
140	-	-	-	-	-	1 855	2 034	2 429	2 602
150	-	-	-	-	-	-	2 010	2 403	2 575
154	-	-	-	-	-	-	-	2 391	2 563

**Energy Efficiency Ratio (E.E.R.)**

70	8.34	10.14	12.27	14.70	17.37	20.19	-	-	-
90	6.01	7.51	9.25	11.26	13.49	15.93	17.20	19.79	20.83
110	-	-	6.85	8.41	10.18	12.15	13.19	15.39	16.30
130	-	-	-	-	7.28	8.77	9.58	11.31	12.05
140	-	-	-	-	-	7.27	7.96	9.47	10.11
150	-	-	-	-	-	-	6.52	7.82	8.38
154	-	-	-	-	-	-	-	7.24	7.77

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

Cooling capacity	139 438	Btu/h	Current consumption	38.68	A
Power input	14 556	W	Mass flow	2 055	lbs/h
E.E.R.	9.58				

**Pressure switch settings**

Maximum HP switch setting	653	psi(g)
Minimum LP switch setting	22	psi(g)
LP pump down setting	33	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 acoustic hood		dB(A)

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