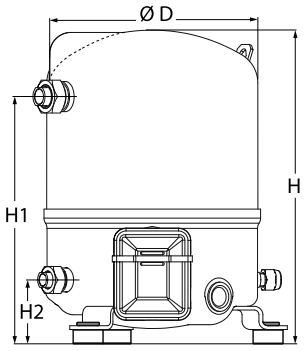
General Characteristics

Model number (on compressor nameplate)		**MTZ22JC3BVE**
Code number for Singlepack*		MTZ22-3VI
Code number for Industrial pack**		MTZ22-3VM
Drawing number		8501024e
Suction and discharge connections		Rotolock
Suction connection		1 " Rotolock
Discharge connection		1 " Rotolock
Suction connection with supplied sleeve		1/2 " ODF
Discharge connection with supplied sleeve		3/8 " ODF
Oil sight glass		Threaded
Oil equalization connection		3/8'' flare SAE
Oil drain connection		None
LP gauge port		Schrader
IPR valve		None
Cylinders	1	
Swept volume	2.33 in3/rev	
Displacement @ Nominal speed	283 cfh @ 3500 rpm	
Net weight	46 lbs	
Oil charge	32 oz, POE - 175PZ	
Maximum system test pressure Low Side / High side	363 psi / 435 psi	
Maximum differential test pressure	435 psi	
Maximum number of starts per hour	12	
Refrigerant charge limit	6 lbs	
Approved refrigerants	R404A,R134a,R407A/C/F,R448A,R449A,R452A,R513A	

Dimensions

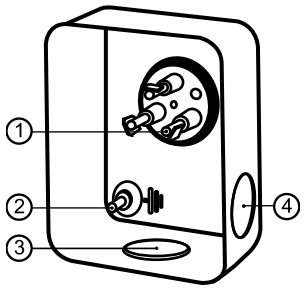


D=8.8 inch, H=13.1 inch,
H1=10.4 inch, H2=2.7 inch, H3=- inch

Electrical Characteristics

Nominal voltage	200-230V/3/60Hz
Voltage range	180-253 V
Winding resistance (between phases) +/- 7% at 77°F	2.58 Ω
Maximum Continuous Current (MCC)	11 A
Locked Rotor Amps (LRA)	38 A
Motor protection	Internal overload protector

Terminal box



IP55 (with cable gland)

1: Spade connectors 1/4"
2: Earth M4-12
3: Knock-out Ø 21 mm (0.83")
4: Hole Ø 21 mm (0.83")

Recommended Installation torques

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

Parts shipped with compressor

Mounting kit with grommets, bolts, nuts, sleeves and washers
Suction & Discharge solder sleeves, rotolock nuts and gaskets (shipped with rotolock version only)
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA6873), -

*Singlepack: Compressor in cardboard box

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

Rotolock accessories, suction side	Code no.
Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031
Gasket, 1"	8156130

Rotolock accessories, discharge side	Code no.
Solder sleeve, P01 (1" Rotolock, 3/8" ODF)	8153010
Rotolock valve, V01 (1" Rotolock, 3/8" ODF)	8168027
Gasket, 1"	8156130

Rotolock accessories, sets	Code no.
Valve set, V06 (1"~1/2"), V01 (1"~3/8")	7703004
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

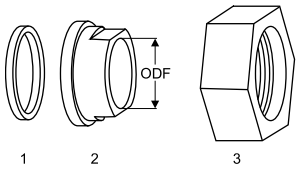
Oil / lubricants	Code no.
POE lubricant, 175PZ, 1 liter can	120Z0638
POE lubricant, 175PZ, 2.5 liter can	120Z0639

Crankcase heaters	Code no.
PTC heater 27W, CE mark, UL	120Z0459
Belt type crankcase heater, 54 W, 230 V, CE mark, UL	7773106

Miscellaneous accessories	Code no.
Acoustic hood for 1 cylinder compressor	120Z0575
Oil equalisation nut	8153127

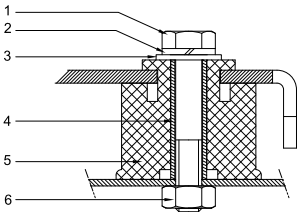
Spare parts	Code no.
Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts	8156001
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (black chloroprene)	8156145
Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp	8156134

Gaskets, sleeves and nuts



1: Gasket
2: Solder sleeve
3: Rotolock nut

Mounting kit



1: Bolt (3x)
2: Lock washer (3x)
3: Flat washer (3x)
4: Sleeve (3x)
5: Grommet (3x)
6: Nut (3x)

Performance data at 60 Hz, ARI rating conditions

R134a

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-10	0	10	20	30	40	50	60	65
Cooling capacity in Btu/h									
100	2 739	4 299	6 333	8 932	12 187	16 188	21 026	26 791	30 049
110	2 290	3 756	5 644	8 047	11 057	14 763	19 258	24 630	27 674
120	1 824	3 194	4 936	7 143	9 905	13 316	17 465	22 445	25 274
130	-	-	4 220	6 228	8 743	11 856	15 659	20 244	22 858
140	-	-	-	5 313	7 578	10 393	13 850	18 040	20 438
150	-	-	-	-	-	8 937	12 045	15 840	18 023
160	-	-	-	-	-	-	10 256	13 654	15 622
165	-	-	-	-	-	-	9 370	12 570	14 431
Power input in W									
100	655	775	892	999	1 092	1 163	1 208	1 219	1 211
110	666	793	920	1 041	1 149	1 240	1 306	1 342	1 346
120	663	799	939	1 074	1 201	1 311	1 401	1 463	1 482
130	-	-	946	1 098	1 244	1 378	1 492	1 583	1 617
140	-	-	-	1 112	1 280	1 437	1 579	1 700	1 750
150	-	-	-	-	-	1 490	1 661	1 813	1 881
160	-	-	-	-	-	-	1 737	1 923	2 008
165	-	-	-	-	-	-	1 772	1 976	2 070
Current consumption in A									
100	4.13	4.26	4.40	4.53	4.66	4.78	4.88	4.96	5.00
110	4.13	4.28	4.44	4.59	4.75	4.89	5.03	5.16	5.22
120	4.12	4.29	4.46	4.64	4.83	5.01	5.19	5.36	5.44
130	-	-	4.48	4.69	4.90	5.13	5.35	5.57	5.67
140	-	-	-	4.72	4.98	5.24	5.51	5.78	5.91
150	-	-	-	-	-	5.35	5.67	5.99	6.15
160	-	-	-	-	-	-	5.82	6.21	6.40
165	-	-	-	-	-	-	5.90	6.31	6.52
Mass flow in lbs/h									
100	42	65	93	128	170	221	281	353	392
110	37	59	87	121	162	212	271	340	378
120	31	53	81	114	154	202	259	326	363
130	-	-	73	105	144	190	245	310	346
140	-	-	-	95	133	177	230	293	328
150	-	-	-	-	-	163	214	274	308
160	-	-	-	-	-	-	196	253	286
165	-	-	-	-	-	-	186	242	274
Energy Efficiency Ratio (E.E.R.)									
100	4.18	5.55	7.10	8.94	11.16	13.92	17.41	21.98	24.82
110	3.44	4.73	6.13	7.73	9.62	11.91	14.75	18.36	20.55
120	2.75	4.00	5.26	6.65	8.25	10.15	12.47	15.34	17.05
130	-	-	4.46	5.67	7.03	8.61	10.49	12.79	14.14
140	-	-	-	4.78	5.92	7.23	8.77	10.61	11.68
150	-	-	-	-	-	6.00	7.25	8.73	9.58
160	-	-	-	-	-	-	5.90	7.10	7.78
165	-	-	-	-	-	-	5.29	6.36	6.97

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

Cooling capacity	13 666	Btu/h	Current consumption	5.24	A
Power input	1 438	W	Mass flow	217	lbs/h
E.E.R.	9.51				

Pressure switch settings

Maximum HP switch setting	293	psi(g)
Minimum LP switch setting	1	psi(g)
LP pump down setting	6	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	0	dB(A)
With accoustic hood	0	dB(A)

Performance data at 60 Hz, ARI rating conditions

R404A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-20	-10	0	10	20	30	40	45	50
Cooling capacity in Btu/h									
90	4 632	6 797	9 525	12 902	17 013	21 945	27 784	31 070	34 615
100	4 027	6 074	8 635	11 795	15 641	20 259	25 735	28 821	32 154
110	3 353	5 247	7 606	10 516	14 062	18 331	23 409	26 278	29 381
120	2 641	4 347	6 470	9 094	12 306	16 191	20 837	23 471	26 327
130	-	3 406	5 257	7 561	10 403	13 871	18 049	20 431	23 024
140	-	2 452	3 997	5 946	8 385	11 400	15 076	17 190	19 500
Power input in W									
90	1 117	1 293	1 449	1 584	1 700	1 795	1 870	1 900	1 925
100	1 136	1 339	1 522	1 684	1 826	1 947	2 048	2 091	2 128
110	1 132	1 366	1 579	1 772	1 943	2 094	2 223	2 280	2 332
120	1 102	1 370	1 616	1 842	2 046	2 229	2 391	2 464	2 532
130	-	1 346	1 629	1 891	2 131	2 350	2 548	2 638	2 723
140	-	1 289	1 612	1 914	2 194	2 452	2 688	2 797	2 901
Current consumption in A									
90	4.94	5.27	5.60	5.91	6.19	6.42	6.59	6.65	6.68
100	4.99	5.37	5.75	6.12	6.46	6.76	6.99	7.08	7.15
110	4.98	5.43	5.89	6.33	6.75	7.12	7.43	7.56	7.66
120	4.90	5.44	5.98	6.51	7.01	7.47	7.87	8.05	8.20
130	-	5.35	5.99	6.62	7.23	7.79	8.30	8.52	8.73
140	-	5.14	5.90	6.64	7.36	8.04	8.67	8.96	9.22
Mass flow in lbs/h									
90	96	137	186	245	314	395	489	541	597
100	91	133	183	242	311	393	487	539	595
110	83	125	175	235	304	385	479	531	587
120	73	115	165	224	293	374	467	518	574
130	-	102	151	209	277	357	449	500	554
140	-	86	134	191	257	335	425	476	529
Energy Efficiency Ratio (E.E.R.)									
90	4.15	5.26	6.57	8.14	10.01	12.22	14.85	16.35	17.98
100	3.55	4.54	5.67	7.00	8.57	10.40	12.56	13.78	15.11
110	2.96	3.84	4.82	5.94	7.24	8.76	10.53	11.52	12.60
120	2.40	3.17	4.00	4.94	6.01	7.26	8.71	9.52	10.40
130	-	2.53	3.23	4.00	4.88	5.90	7.08	7.75	8.46
140	-	1.90	2.48	3.11	3.82	4.65	5.61	6.15	6.72

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	12 306	Btu/h	Current consumption	7.01	A
Power input	2 046	W	Mass flow	293	lbs/h
E.E.R.	6.01				

Pressure switch settings

Maximum HP switch setting	402	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	19	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 0 °F

Tolerance according EN12900

Sound power data

Sound power level	77	dB(A)
With accoustic hood	71	dB(A)

Performance data at 60 Hz, ARI rating conditions

R407A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-20	-10	0	10	20	30	40	45	50
Cooling capacity in Btu/h									
90	3 358	5 393	8 031	11 356	15 451	20 401	26 287	29 608	33 194
100	2 765	4 631	7 063	10 145	13 959	18 590	24 120	27 249	30 633
110	2 194	3 876	6 085	8 906	12 423	16 718	21 875	24 803	27 978
120	-	3 149	5 119	7 664	10 866	14 809	19 577	22 296	25 253
130	-	-	4 191	6 441	9 312	12 887	17 249	19 751	22 482
140	-	-	-	5 264	7 787	10 976	14 915	17 192	19 688
Power input in W									
90	838	1 017	1 183	1 330	1 453	1 545	1 602	1 614	1 616
100	817	1 014	1 203	1 378	1 532	1 659	1 755	1 789	1 813
110	782	1 001	1 214	1 418	1 605	1 770	1 907	1 963	2 010
120	-	975	1 215	1 449	1 671	1 875	2 055	2 134	2 205
130	-	-	1 204	1 471	1 730	1 974	2 199	2 302	2 398
140	-	-	-	1 481	1 778	2 065	2 336	2 464	2 586
Current consumption in A									
90	4.56	4.84	5.12	5.39	5.63	5.82	5.95	5.99	6.01
100	4.58	4.87	5.17	5.47	5.75	6.01	6.21	6.29	6.35
110	4.56	4.88	5.22	5.57	5.91	6.24	6.53	6.65	6.76
120	-	4.85	5.25	5.66	6.08	6.49	6.88	7.06	7.23
130	-	-	5.23	5.72	6.24	6.75	7.26	7.50	7.73
140	-	-	-	5.74	6.36	6.99	7.62	7.93	8.24
Mass flow in lbs/h									
90	52	82	120	166	221	287	363	406	452
100	46	75	112	157	211	276	352	395	440
110	39	67	103	147	200	264	339	381	426
120	-	58	93	135	187	250	324	365	410
130	-	-	82	123	173	234	306	347	391
140	-	-	-	110	158	217	288	327	370
Energy Efficiency Ratio (E.E.R.)									
90	4.01	5.30	6.79	8.54	10.63	13.20	16.41	18.34	20.54
100	3.39	4.57	5.87	7.36	9.11	11.20	13.74	15.23	16.90
110	2.80	3.87	5.01	6.28	7.74	9.45	11.47	12.64	13.92
120	-	3.23	4.21	5.29	6.50	7.90	9.53	10.45	11.45
130	-	-	3.48	4.38	5.38	6.53	7.84	8.58	9.38
140	-	-	-	3.55	4.38	5.31	6.38	6.98	7.61

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	10 866	Btu/h	Current consumption	6.08	A
Power input	1 671	W	Mass flow	187	lbs/h
E.E.R.	6.50				

Pressure switch settings

Maximum HP switch setting	374	psi(g)
Minimum LP switch setting	13	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 = 0 °F

Tolerance according EN12900

Sound power data

Sound power level	76	dB(A)
With accoustic hood	70	dB(A)

Performance data at 60 Hz, ARI rating conditions

R407C

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	10	20	25	30	35	40	45	50	55
Cooling capacity in Btu/h									
100	10 709	14 623	16 879	19 351	22 054	25 000	28 203	31 675	35 431
110	9 758	13 400	15 485	17 763	20 248	22 954	25 892	29 077	32 522
120	-	12 183	14 107	16 202	18 480	20 954	23 639	26 547	29 692
130	-	10 960	12 734	14 655	16 736	18 991	21 432	24 073	26 927
140	-	-	11 356	13 113	15 008	17 052	19 260	21 645	24 219
150	-	-	-	-	13 282	15 127	17 112	19 250	21 554
Power input in W									
100	1 347	1 497	1 562	1 620	1 673	1 720	1 762	1 801	1 835
110	1 416	1 599	1 677	1 749	1 813	1 871	1 922	1 969	2 011
120	-	1 694	1 790	1 877	1 957	2 028	2 093	2 150	2 202
130	-	1 772	1 889	1 996	2 093	2 182	2 262	2 335	2 400
140	-	-	1 964	2 093	2 213	2 322	2 421	2 511	2 594
150	-	-	-	-	2 304	2 436	2 558	2 670	2 772
Current consumption in A									
100	5.28	5.59	5.73	5.86	5.98	6.09	6.18	6.26	6.34
110	5.44	5.82	5.99	6.15	6.30	6.44	6.56	6.67	6.77
120	-	6.03	6.25	6.45	6.64	6.81	6.97	7.12	7.25
130	-	6.22	6.49	6.73	6.97	7.19	7.39	7.58	7.75
140	-	-	6.68	6.98	7.27	7.54	7.80	8.04	8.26
150	-	-	-	-	7.52	7.85	8.17	8.46	8.74
Mass flow in lbs/h									
100	141	189	216	246	278	313	350	390	433
110	135	182	209	237	268	301	337	376	417
120	-	175	201	228	258	290	325	361	401
130	-	167	192	219	248	279	312	347	385
140	-	-	183	209	237	267	298	332	368
150	-	-	-	-	225	254	284	317	351
Energy Efficiency Ratio (E.E.R.)									
100	7.95	9.77	10.81	11.94	13.19	14.54	16.00	17.59	19.30
110	6.89	8.38	9.23	10.16	11.17	12.27	13.47	14.77	16.18
120	-	7.19	7.88	8.63	9.44	10.33	11.30	12.35	13.48
130	-	6.19	6.74	7.34	8.00	8.70	9.47	10.31	11.22
140	-	-	5.78	6.26	6.78	7.35	7.96	8.62	9.34
150	-	-	-	-	5.77	6.21	6.69	7.21	7.78

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

Cooling capacity	21 432	Btu/h	Current consumption	7.39	A
Power input	2 262	W	Mass flow	312	lbs/h
E.E.R.	9.47				

Pressure switch settings

Maximum HP switch setting	426	psi(g)
Minimum LP switch setting	20	psi(g)
LP pump down setting	25	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	76	dB(A)
With accoustic hood	70	dB(A)

Performance data at 60 Hz, ARI rating conditions

R407F

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-20	-10	0	10	20	30	40	45	50
Cooling capacity in Btu/h									
90	-	5 787	8 699	12 372	16 908	22 412	28 983	32 702	36 726
100	-	4 868	7 481	10 790	14 898	19 907	25 919	29 333	33 037
110	-	4 105	6 456	9 438	13 153	17 704	23 194	26 323	29 725
120	-	-	5 598	8 289	11 648	15 779	20 782	23 644	26 762
130	-	-	-	7 316	10 357	14 103	18 658	21 270	24 123
140	-	-	-	-	-	-	-	-	-
Power input in W									
90	-	1 084	1 250	1 399	1 521	1 607	1 647	1 647	1 632
100	-	1 088	1 275	1 453	1 611	1 740	1 831	1 859	1 874
110	-	1 093	1 299	1 501	1 692	1 861	1 999	2 054	2 097
120	-	-	1 329	1 553	1 773	1 979	2 161	2 240	2 310
130	-	-	-	1 616	1 862	2 101	2 323	2 426	2 520
140	-	-	-	-	-	-	-	-	-
Current consumption in A									
90	-	4.89	5.19	5.49	5.74	5.94	6.05	6.06	6.05
100	-	4.95	5.28	5.61	5.91	6.17	6.36	6.43	6.46
110	-	4.97	5.33	5.71	6.09	6.43	6.72	6.84	6.93
120	-	-	5.38	5.83	6.28	6.73	7.13	7.31	7.47
130	-	-	-	5.96	6.52	7.07	7.61	7.86	8.10
140	-	-	-	-	-	-	-	-	-
Mass flow in lbs/h									
90	-	78	115	161	217	283	361	405	452
100	-	69	105	148	201	265	339	381	427
110	-	62	96	137	188	249	321	361	405
120	-	-	88	128	177	235	305	344	386
130	-	-	-	121	168	225	292	330	371
140	-	-	-	-	-	-	-	-	-
Energy Efficiency Ratio (E.E.R.)									
90	-	5.34	6.96	8.84	11.12	13.95	17.60	19.85	22.50
100	-	4.48	5.87	7.43	9.25	11.44	14.16	15.78	17.63
110	-	3.75	4.97	6.29	7.77	9.51	11.60	12.82	14.18
120	-	-	4.21	5.34	6.57	7.97	9.62	10.56	11.59
130	-	-	-	4.53	5.56	6.71	8.03	8.77	9.57
140	-	-	-	-	-	-	-	-	-

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	11 648	Btu/h	Current consumption	6.28	A
Power input	1 773	W	Mass flow	177	lbs/h
E.E.R.	6.57				

Pressure switch settings

Maximum HP switch setting	348	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	18	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 0 °F

Tolerance according EN12900

Sound power data

Sound power level	76	dB(A)
With accoustic hood	70	dB(A)

Performance data at 60 Hz, ARI rating conditions

R448A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-20	-10	0	10	20	30	40	45	50
Cooling capacity in Btu/h									
50	7 139	9 830	13 412	18 019	-	-	-	-	-
60	6 525	9 006	12 304	16 553	21 890	-	-	-	-
70	5 953	8 238	11 266	15 172	20 092	26 161	-	-	-
80	5 413	7 516	10 288	13 865	18 382	23 975	30 778	-	-
100	4 385	6 165	8 468	11 430	15 184	19 868	25 616	28 930	32 562
120	-	4 869	6 760	9 162	12 210	16 041	20 789	23 550	26 591
140	-	-	-	-	9 373	12 408	16 214	18 448	20 926
Power input in W									
50	831	911	973	1 013	-	-	-	-	-
60	876	968	1 045	1 103	1 139	-	-	-	-
70	920	1 025	1 118	1 196	1 253	1 286	-	-	-
80	960	1 080	1 191	1 288	1 369	1 428	1 461	-	-
100	1 029	1 181	1 330	1 472	1 603	1 718	1 813	1 852	1 884
120	-	1 263	1 456	1 646	1 832	2 007	2 169	2 243	2 312
140	-	-	-	-	2 047	2 288	2 521	2 633	2 741
Current consumption in A									
50	3.02	3.12	3.23	3.30	-	-	-	-	-
60	3.53	3.63	3.75	3.84	3.88	-	-	-	-
70	3.91	4.01	4.14	4.26	4.34	4.36	-	-	-
80	4.18	4.29	4.43	4.58	4.70	4.78	4.76	-	-
100	4.49	4.60	4.79	5.00	5.23	5.42	5.56	5.60	5.62
120	-	4.76	5.00	5.29	5.62	5.96	6.26	6.39	6.50
140	-	-	-	-	6.07	6.55	7.03	7.26	7.48
Mass flow in lbs/h									
50	88	119	160	211	-	-	-	-	-
60	84	114	153	202	263	-	-	-	-
70	80	109	146	193	252	323	-	-	-
80	77	105	141	186	241	310	393	-	-
100	70	96	130	171	222	285	362	406	453
120	-	87	118	156	204	262	332	372	417
140	-	-	-	-	184	238	303	340	381
Energy Efficiency Ratio (E.E.R.)									
50	8.59	10.80	13.79	17.78	-	-	-	-	-
60	7.45	9.31	11.77	15.00	19.22	-	-	-	-
70	6.47	8.04	10.08	12.69	16.04	20.35	-	-	-
80	5.64	6.96	8.64	10.76	13.43	16.79	21.06	-	-
100	4.26	5.22	6.37	7.76	9.47	11.57	14.13	15.63	17.29
120	-	3.85	4.64	5.56	6.67	7.99	9.59	10.50	11.50
140	-	-	-	-	4.58	5.42	6.43	7.01	7.64

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	12 210	Btu/h	Current consumption	5.62	A
Power input	1 832	W	Mass flow	204	lbs/h
E.E.R.	6.67				

Pressure switch settings

Maximum HP switch setting	402	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	19	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 0 °F

Tolerance according EN12900

Sound power data

Sound power level	77	dB(A)
With accoustic hood	71	dB(A)

Performance data at 60 Hz, ARI rating conditions

R449A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-20	-10	0	10	20	30	40	45	50
Cooling capacity in Btu/h									
50	7 139	9 831	13 413	18 020	-	-	-	-	-
60	6 525	9 006	12 304	16 554	21 891	-	-	-	-
70	5 954	8 238	11 266	15 173	20 093	26 162	-	-	-
80	5 414	7 516	10 288	13 866	18 384	23 977	30 780	-	-
100	4 386	6 166	8 469	11 431	15 186	19 870	25 618	28 933	32 564
120	-	4 870	6 761	9 163	12 212	16 043	20 792	23 552	26 593
140	-	-	-	-	9 375	12 410	16 216	18 451	20 929
Power input in W									
50	831	911	973	1 013	-	-	-	-	-
60	876	968	1 045	1 103	1 139	-	-	-	-
70	920	1 025	1 118	1 196	1 253	1 286	-	-	-
80	960	1 080	1 191	1 288	1 369	1 428	1 461	-	-
100	1 029	1 181	1 330	1 472	1 603	1 718	1 813	1 852	1 884
120	-	1 263	1 456	1 646	1 832	2 007	2 169	2 243	2 312
140	-	-	-	-	2 047	2 288	2 521	2 633	2 741
Current consumption in A									
50	3.01	3.12	3.23	3.30	-	-	-	-	-
60	3.53	3.63	3.75	3.84	3.88	-	-	-	-
70	3.91	4.01	4.14	4.26	4.34	4.36	-	-	-
80	4.18	4.29	4.43	4.58	4.70	4.78	4.76	-	-
100	4.49	4.60	4.79	5.00	5.23	5.42	5.56	5.60	5.62
120	-	4.76	5.00	5.29	5.62	5.95	6.26	6.39	6.50
140	-	-	-	-	6.07	6.55	7.03	7.26	7.48
Mass flow in lbs/h									
50	91	122	163	215	-	-	-	-	-
60	86	117	156	206	268	-	-	-	-
70	82	112	150	197	257	329	-	-	-
80	79	107	144	189	246	316	400	-	-
100	71	99	132	174	227	291	369	413	462
120	-	89	121	160	208	267	339	380	425
140	-	-	-	-	189	243	310	348	389
Energy Efficiency Ratio (E.E.R.)									
50	8.59	10.80	13.79	17.78	-	-	-	-	-
60	7.45	9.31	11.77	15.00	19.22	-	-	-	-
70	6.47	8.04	10.08	12.69	16.04	20.35	-	-	-
80	5.64	6.96	8.64	10.76	13.43	16.79	21.06	-	-
100	4.26	5.22	6.37	7.76	9.47	11.57	14.13	15.63	17.29
120	-	3.85	4.64	5.57	6.67	7.99	9.59	10.50	11.50
140	-	-	-	-	4.58	5.42	6.43	7.01	7.64

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	12 212	Btu/h	Current consumption	5.62	A
Power input	1 832	W	Mass flow	208	lbs/h
E.E.R.	6.67				

Pressure switch settings

Maximum HP switch setting	402	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	19	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 0 °F

Tolerance according EN12900

Sound power data

Sound power level	77	dB(A)
With accoustic hood	71	dB(A)

Performance data at 60 Hz, ARI rating conditions

R452A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-20	-10	0	10	20	30	40	45	50
Cooling capacity in Btu/h									
50	8 864	11 812	15 505	20 024	-	-	-	-	-
60	7 813	10 565	14 011	18 230	23 300	-	-	-	-
70	6 850	9 408	12 608	16 528	21 247	26 843	-	-	-
80	5 965	8 330	11 285	14 908	19 279	24 474	30 573	-	-
100	4 389	6 374	8 844	11 879	15 557	19 955	25 154	28 077	31 229
120	3 012	4 623	6 615	9 067	12 058	15 666	19 971	22 408	25 049
140	-	-	-	6 397	8 708	11 533	14 950	16 905	19 038
Power input in W									
50	1 003	1 090	1 146	1 162	-	-	-	-	-
60	1 037	1 143	1 221	1 264	1 266	-	-	-	-
70	1 065	1 190	1 291	1 361	1 394	1 384	-	-	-
80	1 088	1 232	1 355	1 452	1 516	1 542	1 523	-	-
100	1 117	1 299	1 470	1 622	1 749	1 846	1 906	1 920	1 923
120	1 126	1 349	1 567	1 775	1 967	2 136	2 276	2 333	2 381
140	-	-	-	1 915	2 172	2 414	2 636	2 737	2 831
Current consumption in A									
50	3.14	3.14	3.14	3.14	-	-	-	-	-
60	3.74	3.77	3.81	3.85	3.86	-	-	-	-
70	4.16	4.22	4.30	4.37	4.43	4.45	-	-	-
80	4.43	4.52	4.64	4.76	4.86	4.94	4.97	-	-
100	4.64	4.81	5.01	5.23	5.45	5.64	5.80	5.86	5.91
120	4.67	4.92	5.22	5.55	5.89	6.21	6.51	6.65	6.77
140	-	-	-	5.99	6.46	6.93	7.38	7.60	7.80
Mass flow in lbs/h									
50	137	182	235	298	-	-	-	-	-
60	129	172	224	285	357	-	-	-	-
70	121	163	213	273	343	425	-	-	-
80	112	154	203	261	329	409	500	-	-
100	96	135	182	237	302	378	465	513	565
120	79	117	162	214	276	348	431	477	526
140	-	-	-	191	250	318	397	441	488
Energy Efficiency Ratio (E.E.R.)									
50	8.84	10.83	13.54	17.23	-	-	-	-	-
60	7.53	9.24	11.48	14.42	18.40	-	-	-	-
70	6.43	7.90	9.77	12.15	15.24	19.39	-	-	-
80	5.48	6.76	8.33	10.27	12.71	15.87	20.07	-	-
100	3.93	4.91	6.02	7.33	8.89	10.81	13.20	14.62	16.24
120	2.68	3.43	4.22	5.11	6.13	7.34	8.78	9.60	10.52
140	-	-	-	3.34	4.01	4.78	5.67	6.18	6.72

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	12 058	Btu/h	Current consumption	5.89	A
Power input	1 967	W	Mass flow	276	lbs/h
E.E.R.	6.13				

Pressure switch settings

Maximum HP switch setting	402	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	19	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 0 °F

Tolerance according EN12900

Sound power data

Sound power level	77	dB(A)
With accoustic hood	71	dB(A)

Performance data at 60 Hz, ARI rating conditions

R513A

Cond. temp. in °F (tc)	Evaporating temperature in °F (to)								
	-20	-10	0	10	20	30	40	45	50
Cooling capacity in Btu/h									
50	-	6 166	8 458	11 341	14 880	19 140	-	-	-
60	-	5 530	7 696	10 417	13 758	17 786	22 566	-	-
70	-	4 915	6 955	9 514	12 658	16 454	20 966	23 511	-
80	-	4 322	6 236	8 634	11 581	15 144	19 388	21 786	24 379
100	-	3 210	4 871	6 945	9 498	12 596	16 305	18 409	20 690
120	-	2 201	3 609	5 360	7 519	10 152	13 325	15 134	17 104
140	-	-	-	-	5 651	7 819	10 457	11 972	13 629
Power input in W									
50	-	760	810	827	807	749	-	-	-
60	-	781	854	897	906	879	810	-	-
70	-	788	883	951	988	990	954	921	-
80	-	784	900	992	1 055	1 086	1 081	1 064	1 037
100	-	748	903	1 039	1 151	1 237	1 291	1 306	1 311
120	-	689	878	1 053	1 210	1 345	1 455	1 498	1 534
140	-	-	-	-	1 248	1 428	1 587	1 658	1 722
Current consumption in A									
50	-	3.48	3.56	3.62	3.67	3.69	-	-	-
60	-	3.63	3.71	3.78	3.83	3.86	3.85	-	-
70	-	3.75	3.85	3.93	4.00	4.04	4.04	4.03	-
80	-	3.84	3.96	4.07	4.16	4.22	4.25	4.25	4.23
100	-	3.90	4.10	4.29	4.45	4.58	4.68	4.71	4.73
120	-	3.75	4.06	4.36	4.64	4.88	5.08	5.17	5.24
140	-	-	-	-	4.67	5.05	5.40	5.56	5.71
Mass flow in lbs/h									
50	-	89	120	156	200	252	-	-	-
60	-	84	114	150	194	244	303	-	-
70	-	78	108	144	187	237	295	327	-
80	-	73	103	138	180	229	286	318	352
100	-	62	91	125	166	213	268	299	332
120	-	49	78	111	151	197	250	280	312
140	-	-	-	-	135	180	232	261	292
Energy Efficiency Ratio (E.E.R.)									
50	-	8.11	10.45	13.72	18.43	25.57	-	-	-
60	-	7.08	9.01	11.62	15.18	20.24	27.86	-	-
70	-	6.23	7.87	10.00	12.81	16.61	21.97	25.54	-
80	-	5.51	6.93	8.70	10.98	13.94	17.93	20.47	23.51
100	-	4.29	5.39	6.68	8.25	10.19	12.63	14.10	15.78
120	-	3.20	4.11	5.09	6.21	7.55	9.16	10.10	11.15
140	-	-	-	-	4.53	5.48	6.59	7.22	7.91

Nominal performance at to = 20 °F, tc = 120 °F

Cooling capacity	7 519	Btu/h	Current consumption	4.64	A
Power input	1 210	W	Mass flow	151	lbs/h
E.E.R.	6.21				

Pressure switch settings

Maximum HP switch setting	402	psi(g)
Minimum LP switch setting	15	psi(g)
LP pump down setting	19	psi(g)

T 0 : Evaporating temperature at dew point

T C : Condensing temperature at dew point

Rating conditions : Superheat = 20 °F , Subcooling = 0 °F

Tolerance according EN12900

Sound power data

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