

# H-N-SQAC

Air Cooled Condensers





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## HQAC – 6 POLE FANS

**PERFORMANCE DATA: Heat of Rejection Watts (1KTD.) R404A**

MODEL	High Speed – 890 RPM			Sub Cooler Option 8°K	Low Speed – 630 RPM			Sub Cooler Option 8°K
	1 KTD	10 KTD	15 KTD	1 KTD	1 KTD	10 KTD	15 KTD	1 KTD
<b>Single Module</b>								
HQAC3500	9570	95700	143550	8960	7900	79000	118500	7400
HQAC4000	9900	99000	148500	9270	8680	86800	130200	8130
HQAC5000	11830	118300	177450	11075	10050	100500	150750	9410
HQAC6000	14010	140100	210150	13120	11750	117500	176250	11005
HQAC7500	17180	171800	257700	16085	14340	143400	215100	13430
<b>Double Module</b>								
HQAC7002	19140	191400	287100	17920	15800	158000	237000	14800
HQAC8002	19800	198000	297000	18540	17360	173600	260400	16260
HQAC10002	23660	236600	354900	22150	20100	201000	301500	18820
HQAC12002	28020	280200	420300	26240	23500	235000	352500	22010
HQAC15002	34360	343600	515400	32170	28680	286800	430200	26860
<b>Three Module</b>								
HQAC10503	28710	287100	430650	26880	23700	237000	355500	22200
HQAC12003	29700	297000	445500	27810	26040	260400	390600	24390
HQAC15003	35490	354900	532350	33225	30150	301500	452250	28230
HQAC18003	42030	420300	630450	39360	35250	352500	528750	33015
HQAC22503	51540	515400	773100	48255	43020	430200	645300	40290
<b>Four Module</b>								
HQAC14004	38280	382800	574200	35840	31600	316000	474000	29600
HQAC16004	39600	396000	594000	37080	34720	347200	520800	32520
HQAC20004	47320	473200	709800	44300	40200	402000	603000	37640
HQAC24004	56040	560400	840600	52480	47000	470000	705000	44020
HQAC30004	68720	687200	1030800	64340	57360	573600	860400	53720

**PERFORMANCE DATA: Heat of Rejection Watts (1KTD.) R134a**

MODEL	High Speed – 890 RPM			Sub Cooler Option 8°K	Low Speed – 630 RPM			Sub Cooler Option 8°K
	1 KTD	10 KTD	15 KTD	1 KTD	1 KTD	10 KTD	15 KTD	1 KTD
<b>Single Module</b>								
HQAC3500	9190	91900	137850	8605	7580	75800	113700	7100
HQAC4000	9500	95000	142500	8895	8330	83300	124950	7800
HQAC5000	11350	113500	170250	10625	9650	96500	144750	9035
HQAC6000	13450	134500	201750	12595	11280	112800	169200	10565
HQAC7500	16490	164900	247350	15440	13760	137600	206400	12885
<b>Double Module</b>								
HQAC7002	18380	183800	275700	17210	15160	151600	227400	14200
HQAC8002	19000	190000	285000	17790	16660	166600	249900	15600
HQAC10002	22700	227000	340500	21250	19300	193000	289500	18070
HQAC12002	26900	269000	403500	25190	22560	225600	338400	21130
HQAC15002	32980	329800	494700	30880	27520	275200	412800	25770
<b>Three Module</b>								
HQAC10503	27570	275700	413550	25815	22740	227400	341100	21300
HQAC12003	28500	285000	427500	26685	24990	249900	374850	23400
HQAC15003	34050	340500	510750	31875	28950	289500	434250	27105
HQAC18003	40350	403500	605250	37785	33840	338400	507600	31695
HQAC22503	49470	494700	742050	46320	41280	412800	619200	38655
<b>Four Module</b>								
HQAC14004	36760	367600	551400	34420	30320	303200	454800	28400
HQAC16004	38000	380000	570000	35580	33320	333200	499800	31200
HQAC20004	45400	454000	681000	42500	38600	386000	579000	36140
HQAC24004	53800	538000	807000	50380	45120	451200	676800	42260
HQAC30004	65960	659600	989400	61760	55040	550400	825600	51540



## NQAC – 8 POLE FANS

### PERFORMANCE DATA: Heat of Rejection Watts (1KTD.) R404A

MODEL	High Speed – 680 RPM			Sub Cooler Option 8°K	Low Speed – 560 RPM			Sub Cooler Option 8°K
	1 KTD	10 KTD	15 KTD	1 KTD	1 KTD	10 KTD	15 KTD	1 KTD
<b>Single Module</b>								
NQAC3500	7180	71800	107700	6725	5800	58000	87000	5430
NQAC4000	8170	81700	122550	7650	6550	65500	98250	6135
NQAC5000	9700	97000	145500	9080	7730	77300	115950	7240
NQAC6000	11400	114000	171000	10675	9110	91100	136650	8530
NQAC7500	13850	138500	207750	12970	10820	108200	162300	10130
<b>Double Module</b>								
NQAC7002	14360	143600	215400	13450	11600	116000	174000	10860
NQAC8002	16340	163400	245100	15300	13100	131000	196500	12270
NQAC10002	19400	194000	291000	18160	15460	154600	231900	14480
NQAC12002	22800	228000	342000	21350	18220	182200	273300	17060
NQAC15002	27700	277000	415500	25940	21640	216400	324600	20260
<b>Three Module</b>								
NQAC10503	21540	215400	323100	20175	17400	174000	261000	16290
NQAC12003	24510	245100	367650	22950	19650	196500	294750	18405
NQAC15003	29100	291000	436500	27240	23190	231900	347850	21720
NQAC18003	34200	342000	513000	32025	27330	273300	409950	25590
NQAC22503	41550	415500	623250	38910	32460	324600	486900	30390
<b>Four Module</b>								
NQAC14004	28720	287200	430800	26900	23200	232000	348000	21720
NQAC16004	32680	326800	490200	30600	26200	262000	393000	24540
NQAC20004	38800	388000	582000	36320	30920	309200	463800	28960
NQAC24004	45600	456000	684000	42700	36440	364400	546600	34120
NQAC30004	55400	554000	831000	51880	43280	432800	649200	40520

### PERFORMANCE DATA: Heat of Rejection Watts (1KTD.) R134a

MODEL	High Speed – 680 RPM			Sub Cooler Option 8°K	Low Speed – 560 RPM			Sub Cooler Option 8°K
	1 KTD	10 KTD	15 KTD	1 KTD	1 KTD	10 KTD	15 KTD	1 KTD
<b>Single Module</b>								
NQAC3500	6890	68900	103350	6450	5570	55700	83550	5215
NQAC4000	7840	78400	117600	7340	6290	62900	94350	5890
NQAC5000	9310	93100	139650	8715	7420	74200	111300	6950
NQAC6000	10940	109400	164100	10245	8740	87400	131100	8185
NQAC7500	13290	132900	199350	12445	10390	103900	155850	9730
<b>Double Module</b>								
NQAC7002	13780	137800	206700	12900	11140	111400	167100	10430
NQAC8002	15680	156800	235200	14680	12580	125800	188700	11780
NQAC10002	18620	186200	279300	17430	14840	148400	222600	13900
NQAC12002	21880	218800	328200	20490	17480	174800	262200	16370
NQAC15002	26580	265800	398700	24890	20780	207800	311700	19460
<b>Three Module</b>								
NQAC10503	20670	206700	310050	19350	16710	167100	250650	15645
NQAC12003	23520	235200	352800	22020	18870	188700	283050	17670
NQAC15003	27930	279300	418950	26145	22260	222600	333900	20850
NQAC18003	32820	328200	492300	30735	26220	262200	393300	24555
NQAC22503	39870	398700	598050	37335	31170	311700	467550	29190
<b>Four Module</b>								
NQAC14004	27560	275600	413400	25800	22280	222800	334200	20860
NQAC16004	31360	313600	470400	29360	25160	251600	377400	23560
NQAC20004	37240	372400	558600	34860	29680	296800	445200	27800
NQAC24004	43760	437600	656400	40980	34960	349600	524400	32740
NQAC30004	53160	531600	797400	49780	41560	415600	623400	38920

Altitude Correction Factors : m (Factor), 0 (1.0), 500 (0.96), 1000 (0.92), 2000 (0.83), 2500 (0.78)

## SQAC – 12 POLE FANS

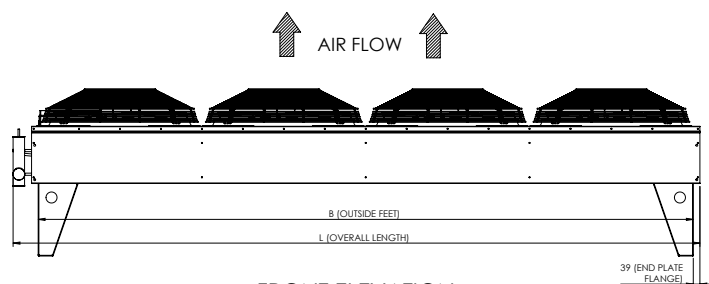
### PERFORMANCE DATA: Heat of Rejection Watts (1KTD.) R404A

MODEL	High Speed – 430 RPM			Sub Cooler Option 8°K	Low Speed – 330 RPM			Sub Cooler Option 8°K
	1 KTD	10 KTD	15 KTD	1 KTD	1 KTD	10 KTD	15 KTD	1 KTD
<b>Single Module</b>								
SQAC3500	5135	51350	77025	4810	4080	40800	61200	3820
SQAC4000	6380	63800	95700	5975	4760	47600	71400	4455
SQAC5000	7350	73500	110250	6880	5580	55800	83700	5225
SQAC6000	8350	83500	125250	7820	6460	64600	96900	6050
SQAC7500	10170	101700	152550	9525	7790	77900	116850	7295
<b>Double Module</b>								
SQAC7002	10270	102700	154050	9620	8160	81600	122400	7640
SQAC8002	12760	127600	191400	11950	9520	95200	142800	8910
SQAC10002	14700	147000	220500	13760	11160	111600	167400	10450
SQAC12002	16700	167000	250500	15640	12920	129200	193800	12100
SQAC15002	20340	203400	305100	19050	15580	155800	233700	14590
<b>Three Module</b>								
SQAC10503	15405	154050	231075	14430	12240	122400	183600	11460
SQAC12003	19140	191400	287100	17925	14280	142800	214200	13365
SQAC15003	22050	220500	330750	20640	16740	167400	251100	15675
SQAC18003	25050	250500	375750	23460	19380	193800	290700	18150
SQAC22503	30510	305100	457650	28575	23370	233700	350550	21885
<b>Four Module</b>								
SQAC14004	20540	205400	308100	19240	16320	163200	244800	15280
SQAC16004	25520	255200	382800	23900	19040	190400	285600	17820
SQAC20004	29400	294000	441000	27520	22320	223200	334800	20900
SQAC24004	33400	334000	501000	31280	25840	258400	387600	24200
SQAC30004	40680	406800	610200	38100	31160	311600	467400	29180

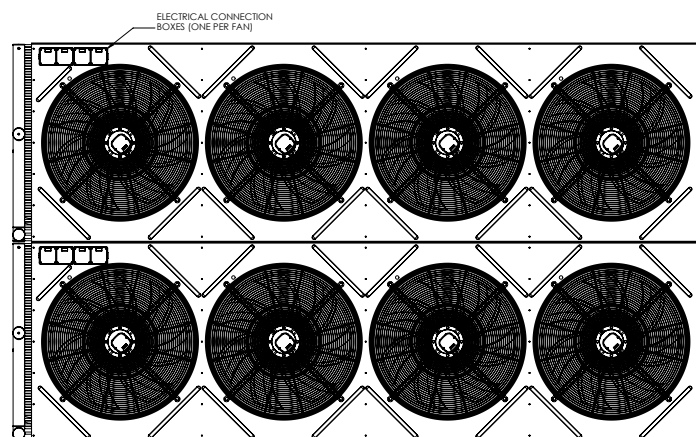
### PERFORMANCE DATA: Heat of Rejection Watts (1KTD.) R134a

MODEL	High Speed – 430 RPM			Sub Cooler Option 8°K	Low Speed – 330 RPM			Sub Cooler Option 8°K
	1 KTD	10 KTD	15 KTD	1 KTD	1 KTD	10 KTD	15 KTD	1 KTD
<b>Single Module</b>								
SQAC3500	4930	49300	73950	4615	3910	39100	58650	3660
SQAC4000	6120	61200	91800	5730	4570	45700	68550	4280
SQAC5000	7050	70500	105750	6600	5350	53500	80250	5010
SQAC6000	8010	80100	120150	7500	6200	62000	93000	5805
SQAC7500	9760	97600	146400	9140	7480	74800	112200	7005
<b>Double Module</b>								
SQAC7002	9860	98600	147900	9230	7820	78200	117300	7320
SQAC8002	12240	122400	183600	11460	9140	91400	137100	8560
SQAC10002	14100	141000	211500	13200	10700	107000	160500	10020
SQAC12002	16020	160200	240300	15000	12400	124000	186000	11610
SQAC15002	19520	195200	292800	18280	14960	149600	224400	14010
<b>Three Module</b>								
SQAC10503	14790	147900	221850	13845	11730	117300	175950	10980
SQAC12003	18360	183600	275400	17190	13710	137100	205650	12840
SQAC15003	21150	211500	317250	19800	16050	160500	240750	15030
SQAC18003	24030	240300	360450	22500	18600	186000	279000	17415
SQAC22503	29280	292800	439200	27420	22440	224400	336600	21015
<b>Four Module</b>								
SQAC14004	19720	197200	295800	18460	15640	156400	234600	14640
SQAC16004	24480	244800	367200	22920	18280	182800	274200	17120
SQAC20004	28200	282000	423000	26400	21400	214000	321000	20040
SQAC24004	32040	320400	480600	30000	24800	248000	372000	23220
SQAC30004	39040	390400	585600	36560	29920	299200	448800	28020

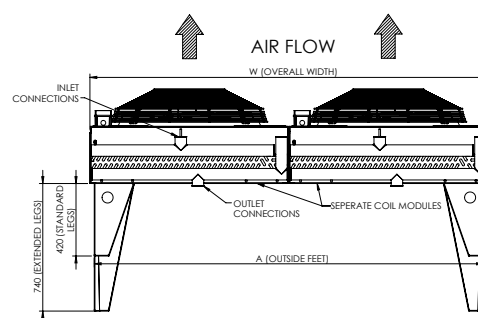
## DIMENSIONS:



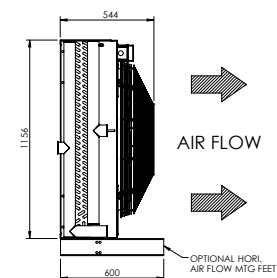
FRONT ELEVATION



PLAN VIEW



SIDE ELEVATION



SIDE ELEVATION (OPTIONAL HORI. AIR FLOW)

NTS (mm)

MODEL	DIMENSIONS (mm)					Dry Weight kg
	L	W	B	A	Mounting Centres	
<b>Single Module</b>						
H,N or SQAC3500	2270	1156	2130	1100	2002 x 972	238
H,N or SQAC4000	3650	1156	3510	1100	3382 x 972	270
H,N or SQAC5000	3660	1156	3510	1100	3382 x 972	298
H,N or SQAC6000	3660	1156	3510	1100	3382 x 972	378
H,N or SQAC7500	3960	1156	3810	1100	3682 x 972	435
<b>Double Module</b>	(Supplied as one double module)					
H,N or SQAC7002	2270	2312	2130	2256	2002 x 2128	480
H,N or SQAC8002	3650	2312	3510	2256	3382 x 2128	544
H,N or SQAC10002	3660	2312	3510	2256	3382 x 2128	600
H,N or SQAC12002	3660	2312	3510	2256	3382 x 2128	760
H,N or SQAC15002	3960	2312	3810	2256	3682 x 2128	874
<b>Three Module</b>	(Supplied as one double module and one single module)					
H,N or SQAC10503	2270	3468	2130	(1100 + 2256)	(2002 x 972) + (2002 x 2128)	718
H,N or SQAC12003	3650	3468	3510	(1100 + 2256)	(3382 x 972) + (3382 x 2128)	814
H,N or SQAC15003	3660	3468	3510	(1100 + 2256)	(3382 x 972) + (3382 x 2128)	898
H,N or SQAC18003	3660	3468	3510	(1100 + 2256)	(3382 x 972) + (3382 x 2128)	1138
H,N or SQAC22503	3960	3468	3810	(1100 + 2256)	(3682 x 972) + (3682 x 2128)	1309
<b>Four Module</b>	(Supplied as two double modules)					
H,N or SQAC14004	2270	4624	2130	(2256 + 2256)	(2002 x 2128) + (2002 x 2128)	960
H,N or SQAC16004	3650	4624	3510	(2256 + 2256)	(3382 x 2128) + (3382 x 2128)	1088
H,N or SQAC20004	3660	4624	3510	(2256 + 2256)	(3382 x 2128) + (3382 x 2128)	1200
H,N or SQAC24004	3660	4624	3510	(2256 + 2256)	(3382 x 2128) + (3382 x 2128)	1520
H,N or SQAC30004	3960	4624	3810	(2256 + 2256)	(3682 x 2128) + (3682 x 2128)	1748



**TECHNICAL DATA: HQAC – 6 POLE MOTORS**

MODEL	FAN MOTORS 380-420/3/50								COIL			
	Qty.	DIA (mm)	TOTAL Air Vol l/sec		Total Amps		Total Watts		Std. Connections mm F. Sw		Circ #	Circ Volume dm <sup>3</sup>
			Hi spd	Lo spd	Hi spd	Low spd	Hi spd	Low spd	INLET	OUTLET		
<b>Single Module</b>												
HQAC3500	2	800	11660	8880	8.0	4.6	4000	1250	1 x 1-5/8"	1 x 1-5/8"	18	59
HQAC4000	3	800	17490	14370	12.0	6.9	6000	1875	1 x 1-5/8"	1 x 1-5/8"	18	47
HQAC5000	3	800	16990	13580	12.0	6.9	6000	1875	1 x 2-1/8"	1 x 2-1/8"	24	64
HQAC6000	3	800	15800	12560	12.0	6.9	6000	1875	1 x 2-5/8"	1 x 2-5/8"	36	94
HQAC7500	4	800	20200	15880	16.0	9.2	8000	2500	1 x 2-5/8"	1 x 2-5/8"	36	102
<b>Double Module</b>												
HQAC7002	4	800	23320	17760	16.0	9.2	8000	2500	2 x 1-5/8"	2 x 1-5/8"	36	118
HQAC8002	6	800	34980	29460	24.0	13.8	12000	3750	2 x 1-5/8"	2 x 1-5/8"	36	94
HQAC10002	6	800	33980	27160	24.0	13.8	12000	3750	2 x 2-1/8"	2 x 2-1/8"	48	128
HQAC12002	6	800	31600	25120	24.0	13.8	12000	3750	2 x 2-5/8"	2 x 2-5/8"	72	188
HQAC15002	8	800	40400	31760	32.0	18.4	16000	5000	2 x 2-5/8"	2 x 2-5/8"	72	204
<b>Three Module</b>												
HQAC10503	6	800	34980	26640	24.0	13.8	12000	3750	3 x 1-5/8"	3 x 1-5/8"	54	177
HQAC12003	9	800	52470	43830	36.0	20.7	18000	5625	3 x 1-5/8"	3 x 1-5/8"	54	141
HQAC15003	9	800	50970	40740	36.0	20.7	18000	5625	3 x 2-1/8"	3 x 2-1/8"	72	192
HQAC18003	9	800	47400	37680	36.0	20.7	18000	5625	3 x 2-5/8"	3 x 2-5/8"	108	282
HQAC22503	12	800	60600	47640	48.0	27.6	24000	7500	3 x 2-5/8"	3 x 2-5/8"	108	306
<b>Four Module</b>												
HQAC14004	8	800	46640	35520	32.0	18.4	16000	5000	4 x 1-5/8"	4 x 1-5/8"	72	236
HQAC16004	12	800	69960	58920	48.0	27.6	24000	7500	4 x 1-5/8"	4 x 1-5/8"	72	188
HQAC20004	12	800	67960	54320	48.0	27.6	24000	7500	4 x 2-1/8"	4 x 2-1/8"	96	256
HQAC24004	12	800	63200	50240	48.0	27.6	24000	7500	4 x 2-5/8"	4 x 2-5/8"	144	376
HQAC30004	16	800	80800	63520	64.0	36.8	32000	10000	4 x 2-5/8"	4 x 2-5/8"	144	408

**SOUND PERFORMANCE DATA: HQAC – 6 POLE MOTORS**

MODEL	dBA @ High Speed – 890 RPM			dBA @ Low Speed – 630 RPM		
	1.0 mtr	3.0 mtr	10.0 mtr	1.0 mtr	3.0 mtr	10.0 mtr
<b>Single Module</b>						
HQAC3500	79	75	69	72	68	62
HQAC4000	81	78	71	76	73	66
HQAC5000	80	77	70	75	72	65
HQAC6000	80	77	70	75	72	65
HQAC7500	82	78	72	77	74	67
<b>Double Module</b>						
HQAC7002	82	78	72	75	71	65
HQAC8002	85	81	75	79	76	69
HQAC10002	84	80	74	78	75	68
HQAC12002	84	80	74	78	75	68
HQAC15002	85	81	75	79	76	69
<b>Three Module</b>						
HQAC10503	84	80	74	77	73	67
HQAC12003	88	84	78	82	78	72
HQAC15003	87	83	77	81	77	71
HQAC18003	87	83	77	81	77	71
HQAC22503	88	84	78	82	78	72
<b>Four Module</b>						
HQAC14004	85	81	75	79	75	69
HQAC16004	89	85	79	82	78	72
HQAC20004	88	84	78	81	77	71
HQAC24004	88	84	78	81	77	71
HQAC30004	90	86	80	83	79	73

Sound Pressure Levels (dB re 20 u Pa) (Rated in "free field conditions",  
tested generally in accordance with AS1217.7 1985)

**TECHNICAL DATA:**
**NQAC – 8 POLE MOTORS**

MODEL	FAN MOTORS 380-420/3/50								COIL			
	Qty.	DIA (mm)	TOTAL Air Vol l/sec		Total Amps		Total Watts		Std. Connections mm F. Sw		Circ #	Circ Volume dm <sup>3</sup>
			Hi spd	Lo spd	Hi spd	Low spd	Hi spd	Low spd	INLET	OUTLET		
<b>Single Module</b>												
NQAC3500	2	800	6970	5150	4.6	1.3	1840	600	1 x 1-5/8"	1 x 1-5/8"	18	59
NQAC4000	3	800	11720	8690	6.9	3.5	2760	900	1 x 1-5/8"	1 x 1-5/8"	18	47
NQAC5000	3	800	11380	8520	6.9	3.5	2760	900	1 x 2-1/8"	1 x 2-1/8"	24	64
NQAC6000	3	800	10900	8070	6.9	3.5	2760	900	1 x 2-5/8"	1 x 2-5/8"	36	94
NQAC7500	4	800	13180	9760	9.2	2.6	3680	1200	1 x 2-5/8"	1 x 2-5/8"	36	102
<b>Double Module</b>												
NQAC7002	4	800	13940	10300	9.2	2.6	3680	1200	2 x 1-5/8"	2 x 1-5/8"	36	118
NQAC8002	6	800	23440	17380	13.8	6.9	5520	1800	2 x 1-5/8"	2 x 1-5/8"	36	94
NQAC10002	6	800	22760	17040	13.8	6.9	5520	1800	2 x 2-1/8"	2 x 2-1/8"	48	128
NQAC12002	6	800	21800	16140	13.8	6.9	5520	1800	2 x 2-5/8"	2 x 2-5/8"	72	188
NQAC15002	8	800	26360	19520	18.4	5.2	7360	2400	2 x 2-5/8"	2 x 2-5/8"	72	204
<b>Three Module</b>												
NQAC10503	6	800	20910	15450	13.8	6.9	5520	1800	3 x 1-5/8"	3 x 1-5/8"	54	177
NQAC12003	9	800	35160	26070	20.7	10.4	8280	5400	3 x 1-5/8"	3 x 1-5/8"	54	141
NQAC15003	9	800	34140	25560	20.7	10.4	8280	5400	3 x 2-1/8"	3 x 2-1/8"	72	192
NQAC18003	9	800	32700	24210	20.7	10.4	8280	5400	3 x 2-5/8"	3 x 2-5/8"	108	282
NQAC22503	12	800	39540	29280	27.6	13.8	11040	7200	3 x 2-5/8"	3 x 2-5/8"	108	306
<b>Four Module</b>												
NQAC14004	8	800	27880	20600	18.4	5.2	7360	2400	4 x 1-5/8"	4 x 1-5/8"	72	236
NQAC16004	12	800	46880	34760	27.6	13.8	11040	7200	4 x 1-5/8"	4 x 1-5/8"	72	188
NQAC20004	12	800	45520	34080	27.6	13.8	11040	7200	4 x 2-1/8"	4 x 2-1/8"	96	256
NQAC24004	12	800	43600	32280	27.6	13.8	11040	7200	4 x 2-5/8"	4 x 2-5/8"	144	376
NQAC30004	16	800	52720	39040	36.8	18.4	14720	9600	4 x 2-5/8"	4 x 2-5/8"	144	408

**SOUND PERFORMANCE DATA:**
**NQAC – 8 POLE MOTORS**

MODEL	dBA @ High Speed – 680 RPM			dBA @ Low Speed – 560 RPM		
	1.0 mtr	3.0 mtr	10.0 mtr	1.0 mtr	3.0 mtr	10.0 mtr
<b>Single Module</b>						
NQAC3500	69	63	59	62	58	52
NQAC4000	72	66	62	66	61	55
NQAC5000	71	65	61	65	60	54
NQAC6000	71	65	61	65	60	54
NQAC7500	72	66	62	66	61	55
<b>Double Module</b>						
NQAC7002	72	66	62	66	61	56
NQAC8002	75	69	65	69	64	59
NQAC10002	74	68	64	68	63	58
NQAC12002	74	68	64	68	63	58
NQAC15002	75	69	65	69	64	59
<b>Three Module</b>						
NQAC10503	74	68	64	68	63	58
NQAC12003	77	71	67	69	64	59
NQAC15003	76	70	66	70	65	60
NQAC18003	76	70	66	70	65	60
NQAC22503	77	71	67	71	66	61
<b>Four Module</b>						
NQAC14004	75	69	65	69	64	59
NQAC16004	78	72	68	70	65	60
NQAC20004	77	71	67	71	66	61
NQAC24004	77	71	67	71	66	61
NQAC30004	78	72	68	72	67	62

Sound Pressure Levels (dB re 20 u Pa) (Rated in "free field conditions",  
tested generally in accordance with AS1217.7 1985)



**TECHNICAL DATA: SQAC – 12 POLE MOTORS**

MODEL	FAN MOTORS 380-420/3/50								COIL			
	Qty.	DIA (mm)	TOTAL Air Vol l/sec		Total Amps		Total Watts		Std. Connections mm F. Sw		Circ #	Circ Volume dm <sup>3</sup>
			Hi spd	Lo spd	Hi spd	Low spd	Hi spd	Low spd	INLET	OUTLET		
<b>Single Module</b>												
SQAC3500	2	800	4670	3560	2.4	1.0	740	400	1 x 1-5/8"	1 x 1-5/8"	18	59
SQAC4000	3	800	8020	5940	3.6	1.5	1110	600	1 x 1-5/8"	1 x 1-5/8"	18	47
SQAC5000	3	800	7780	5760	3.6	1.5	1110	600	1 x 2-1/8"	1 x 2-1/8"	24	64
SQAC6000	3	800	7460	5520	3.6	1.5	1110	600	1 x 2-5/8"	1 x 2-5/8"	36	94
SQAC7500	4	800	9020	6680	4.8	2.0	1480	800	1 x 2-5/8"	1 x 2-5/8"	36	102
<b>Double Module</b>												
SQAC7002	4	800	9340	7120	4.8	2.0	1480	800	2 x 1-5/8"	2 x 1-5/8"	36	118
SQAC8002	6	800	16040	11880	7.2	3.0	2220	1200	2 x 1-5/8"	2 x 1-5/8"	36	94
SQAC10002	6	800	15560	11520	7.2	3.0	2220	1200	2 x 2-1/8"	2 x 2-1/8"	48	128
SQAC12002	6	800	14920	11040	7.2	3.0	2220	1200	2 x 2-5/8"	2 x 2-5/8"	72	188
SQAC15002	8	800	18040	13360	9.6	4.0	2960	1600	2 x 2-5/8"	2 x 2-5/8"	72	204
<b>Three Module</b>												
SQAC10503	6	800	14010	10680	7.2	3.0	2220	1200	3 x 1-5/8"	3 x 1-5/8"	54	177
SQAC12003	9	800	24060	17820	10.8	4.5	3330	1800	3 x 1-5/8"	3 x 1-5/8"	54	141
SQAC15003	9	800	23340	17280	10.8	4.5	3330	1800	3 x 2-1/8"	3 x 2-1/8"	72	192
SQAC18003	9	800	22380	16560	10.8	4.5	3330	1800	3 x 2-5/8"	3 x 2-5/8"	108	282
SQAC22503	12	800	27060	20040	14.4	6.0	4440	2400	3 x 2-5/8"	3 x 2-5/8"	108	306
<b>Four Module</b>												
SQAC14004	8	800	18680	14240	9.6	4.0	2960	1600	4 x 1-5/8"	4 x 1-5/8"	72	236
SQAC16004	12	800	32080	23760	14.4	6.0	4440	2400	4 x 1-5/8"	4 x 1-5/8"	72	188
SQAC20004	12	800	31120	23040	14.4	6.0	4440	2400	4 x 2-1/8"	4 x 2-1/8"	96	256
SQAC24004	12	800	29840	22080	14.4	6.0	4440	2400	4 x 2-5/8"	4 x 2-5/8"	144	376
SQAC30004	16	800	36080	26720	19.2	8.0	5920	3200	4 x 2-5/8"	4 x 2-5/8"	144	408

**SOUND PERFORMANCE DATA: SQAC – 12 POLE MOTORS**

MODEL	dBA @ High Speed – 430 RPM			dBA @ Low Speed – 330 RPM		
	1.0 mtr	3.0 mtr	10.0 mtr	1.0 mtr	3.0 mtr	10.0 mtr
<b>Single Module</b>						
SQAC3500	61	57	51	55	50	45
SQAC4000	65	60	54	58	53	48
SQAC5000	64	59	53	57	52	47
SQAC6000	64	59	53	57	52	47
SQAC7500	65	60	54	58	53	48
<b>Double Module</b>						
SQAC7002	65	60	55	58	53	48
SQAC8002	68	63	58	61	56	51
SQAC10002	67	62	57	60	55	50
SQAC12002	67	62	57	60	55	50
SQAC15002	68	63	58	61	56	51
<b>Three Module</b>						
SQAC10503	67	62	57	60	55	50
SQAC12003	68	65	58	63	58	53
SQAC15003	69	64	59	64	57	54
SQAC18003	69	64	59	64	57	54
SQAC22503	70	65	60	63	58	53
<b>Four Module</b>						
SQAC14004	68	63	58	61	56	51
SQAC16004	69	64	59	64	59	54
SQAC20004	70	65	60	63	58	53
SQAC24004	70	65	60	63	58	53
SQAC30004	71	66	61	64	59	54

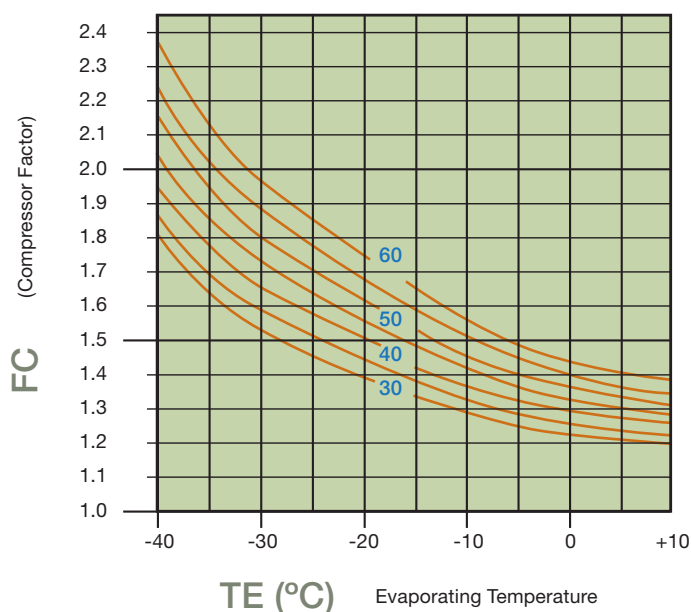
Sound Pressure Levels (dB re 20 u Pa) (Rated in "free field conditions",  
tested generally in accordance with AS1217.7 1985)

## SELECTION DATA:

## Analytical Selection

$$PC = \frac{PE \times FC \times FT \times FA \times 1/FR}{\Delta T}$$

**PC** = CONDENSER CAPACITY PER KTD  
**PE** = EVAPORATOR CAPACITY  
**FC** = COMPRESSOR FACTOR  
**FT** = AMBIENT TEMPERATURE FACTOR  
**FA** = ALTITUDE FACTOR  
**FR** = REFRIGERANT FACTOR  
 **$\Delta T$**  = CONDENSING TEMP - AMBIENT TEMP.

**FC** (To be used when compressor data is unavailable.)

**FT** (Ambient Temperature Factor)

TA (°C)	20	25	30	35	40
FT	0.988	1.000	1.010	1.026	1.039

**FA** (Altitude Factor)

m	0	200	400	600	800
FA	1.000	1.013	1.027	1.042	1.056

m	1000	1200	1400	1600	1800
FA	1.074	1.090	1.107	1.124	1.142

m	2000	2400	2600	2800	3000
FA	1.160	1.201	1.222	1.243	1.265

**FR** (Refrigerant Factor)

R	R404A	R134a	R407C	R22	R410A	R407F
FR	1.0	0.96	0.97	1.02	1.02	0.95

## SELECTION EXAMPLE:

## Basic Data

**PE** = EVAPORATOR CAPACITY = 145 Kws  
**TE** = EVAPORATING TEMPERATURE = -5°C  
**TC** = CONDENSING TEMPERATURE = 43°C  
**TA** = AMBIENT TEMPERATURE = 30°C  
 ALTITUDE = 600m  
 REFRIGERANT = R404A  
 **$\Delta T$**  = TC-TA = 13KTD

## SELECTION:

8 Pole Model on High Speed

$$PC = \frac{145 \times 1.35 \times 1.013 \times 1.042 \times 1/1.0}{13} = 15.89 \text{ Kws/KTD}$$

SELECTION =

**NQAC8002**  
 @ 16.2 Kws/KTD



# PATTON



The company reserves the right to make specification changes without notice. 15/04/15



## PATTON

*refrigeration :: hvac*

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