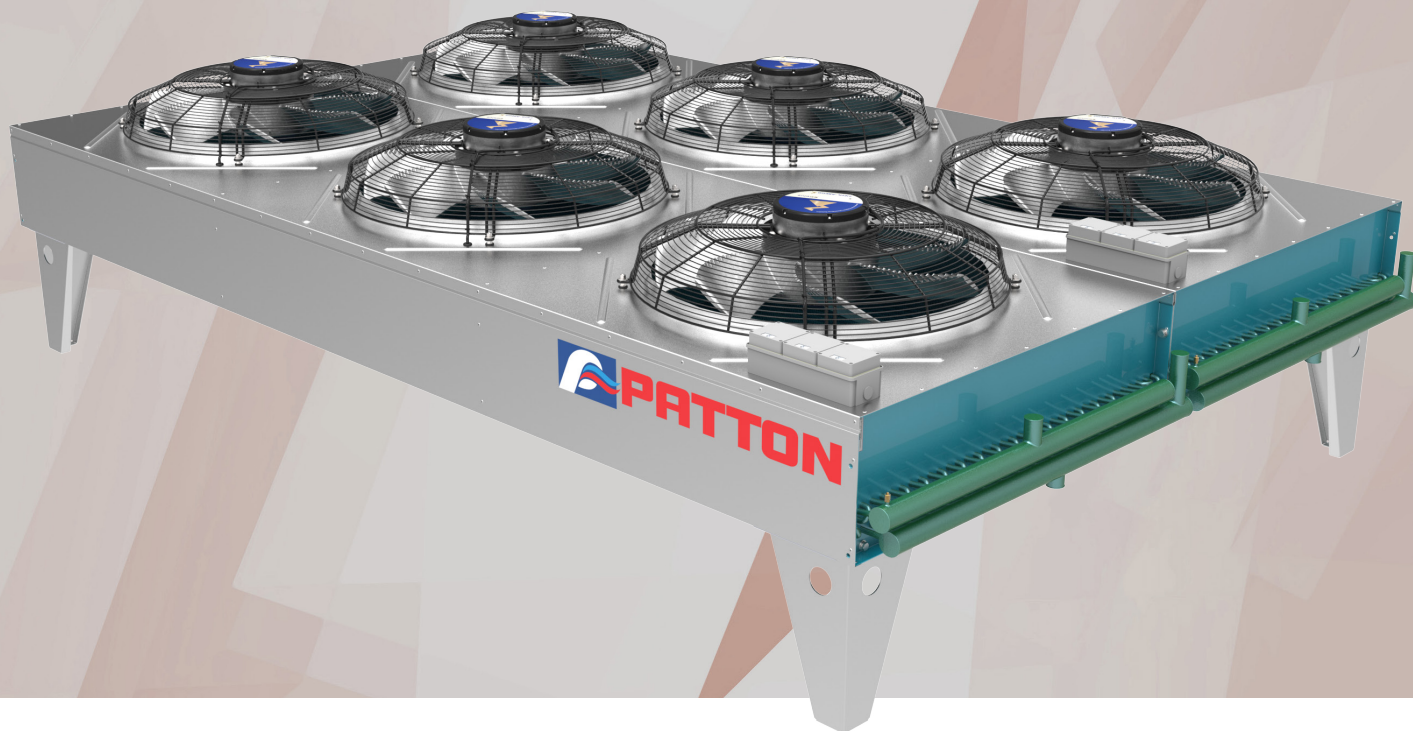


EQAC

Air Cooled Condensers




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

MODEL	Motor Speed (RPM)							
	300	400	500	600	700	800	900	1000
Single Module								
EQAC3500	3330	4365	5225	6050	6875	7610	8285	8995
EQAC4000	4380	5475	6350	7155	7930	8635	9235	9815
EQAC5000	4865	6205	7295	8315	9305	10190	10980	11820
EQAC6000	5325	6965	8345	9675	11000	12190	13270	14410
EQAC7500	6380	8320	9940	11560	13105	14570	15830	17210
Double Module								
EQAC7002	6660	8730	10450	12100	13750	15220	16570	17990
EQAC8002	8760	10950	12700	14310	15860	17270	18470	19630
EQAC10002	9730	12410	14590	16630	18610	20380	21960	23640
EQAC12002	10650	13930	16690	19350	22000	24380	26540	28820
EQAC15002	12760	16640	19880	23120	26210	29140	31660	34420
Three Module								
EQAC10503	9990	13095	15675	18150	20625	22830	24855	26985
EQAC12003	13140	16425	19050	21465	23790	25905	27705	29445
EQAC15003	14595	18615	21885	24945	27915	30570	32940	35460
EQAC18003	15975	20895	25035	29025	33000	36570	39810	43230
EQAC22503	19140	24960	29820	34680	39315	43710	47490	51630
Four Module								
EQAC14004	13320	17460	20900	24200	27500	30440	33140	35980
EQAC16004	17520	21900	25400	28620	31720	34540	36940	39260
EQAC20004	19460	24820	29180	33260	37220	40760	43920	47280
EQAC24004	21300	27860	33380	38700	44000	48760	53080	57640
EQAC30004	25520	33280	39760	46240	52420	58280	63320	68840

PERFORMANCE DATA:

Heat of Rejection Watts (1KTD.)

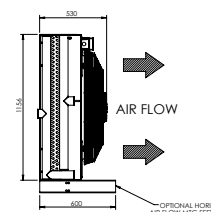
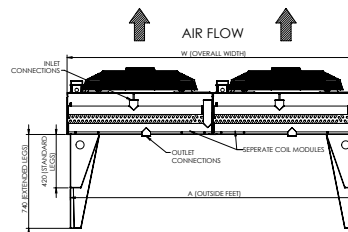
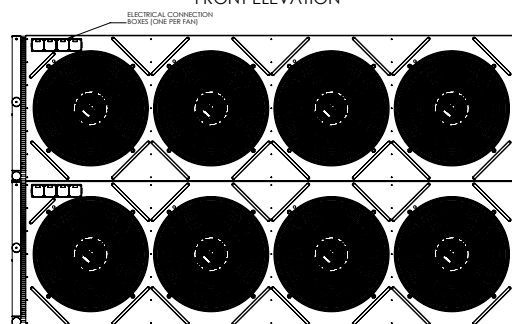
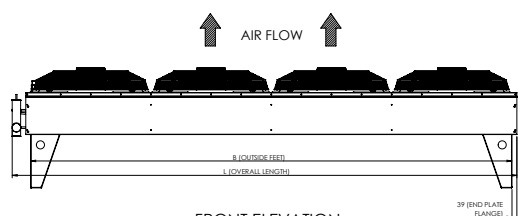
R134a

MODEL	Motor Speed (RPM)							
	300	400	500	600	700	800	900	1000
Single Module								
EQAC3500	3230	4235	5075	5865	6670	7375	8030	8720
EQAC4000	4245	5310	6155	6935	7695	8370	8955	9515
EQAC5000	4715	6030	7105	8055	9025	9875	10645	11460
EQAC6000	5165	6765	8100	9380	10670	11820	12870	13970
EQAC7500	6185	8075	9645	11205	12711	14125	15350	16680
Double Module								
EQAC7002	6460	8470	10150	11730	13340	14750	16060	17440
EQAC8002	8490	10620	12310	13870	15390	16740	17910	19030
EQAC10002	9430	12060	14210	16110	18050	19750	21290	22920
EQAC12002	10330	13530	16200	18760	21340	23640	25740	27940
EQAC15002	12370	16150	19290	22410	25422	28250	30700	33360
Three Module								
EQAC10503	9690	12705	15225	17595	20010	22125	24090	26160
EQAC12003	12735	15930	18465	20805	23085	25110	26865	28545
EQAC15003	14145	18090	21315	24165	27075	29625	31935	34380
EQAC18003	15495	20295	24300	28140	32010	35460	38610	41910
EQAC22503	18555	24225	28935	33615	38133	42375	46050	50040
Four Module								
EQAC14004	12920	16940	20300	23460	26680	29500	32120	34880
EQAC16004	16980	21240	24620	27740	30780	33480	35820	38060
EQAC20004	18860	24120	28420	32220	36100	39500	42580	45840
EQAC24004	20660	27060	32400	37520	42680	47280	51480	55880
EQAC30004	24740	32300	38580	44820	50844	56500	61400	66720


PERFORMANCE DATA: Heat of Rejection Watts (1KTD.) **R22**

MODEL	Motor Speed (RPM)							
	300	400	500	600	700	800	900	1000
Single Module								
EQAC3500	3400	4460	5340	6175	7020	7765	8455	9180
EQAC4000	4470	5590	6480	7300	8100	8810	9425	10015
EQAC5000	4965	6345	7450	8480	9500	10395	11205	12060
EQAC6000	5435	7120	8525	9875	11230	12440	13545	14705
EQAC7500	6510	8500	10155	11795	13380	14870	16160	17560
Double Module								
EQAC7002	6800	8920	10680	12350	14040	15530	16910	18360
EQAC8002	8940	11180	12960	14600	16200	17620	18850	20030
EQAC10002	9930	12690	14900	16960	19000	20790	22410	24120
EQAC12002	10870	14240	17050	19750	22460	24880	27090	29410
EQAC15002	13020	17000	20310	23590	26760	29740	32320	35120
Three Module								
EQAC10503	10200	13380	16020	18525	21060	23295	25365	27540
EQAC12003	13410	16770	19440	21900	24300	26430	28275	30045
EQAC15003	14895	19035	22350	25440	28500	31185	33615	36180
EQAC18003	16305	21360	25575	29625	33690	37320	40635	44115
EQAC22503	19530	25500	30465	35385	40140	44610	48480	52680
Four Module								
EQAC14004	13600	17840	21360	24700	28080	31060	33820	36720
EQAC16004	17880	22360	25920	29200	32400	35240	37700	40060
EQAC20004	19860	25380	29800	33920	38000	41580	44820	48240
EQAC24004	21740	28480	34100	39500	44920	49760	54180	58820
EQAC30004	26040	34000	40620	47180	53520	59480	64640	70240

DIMENSIONS:



NTS (mm)

MODEL	DIMENSIONS (mm)					Dry Weight kg
	L	W	B	A	Mounting Centres	
Single Module						
EQAC3500	2270	1156	2130	1100	2002 x 972	238
EQAC4000	3650	1156	3510	1100	3382 x 972	270
EQAC5000	3660	1156	3510	1100	3382 x 972	298
EQAC6000	3660	1156	3510	1100	3382 x 972	378
EQAC7500	3960	1156	3810	1100	3682 x 972	435
Double Module	(Supplied as one double module)					
EQAC7002	2270	2312	2130	2256	2002 x 2128	480
EQAC8002	3650	2312	3510	2256	3382 x 2128	544
EQAC10002	3660	2312	3510	2256	3382 x 2128	600
EQAC12002	3660	2312	3510	2256	3382 x 2128	760
EQAC15002	3960	2312	3810	2256	3682 x 2128	874
Three Module	(Supplied as one double module and one single module)					
EQAC10503	2270	3468	2130	(1100 + 2256)	(2002 x 972) + (2002 x 2128)	718
EQAC12003	3650	3468	3510	(1100 + 2256)	(3382 x 972) + (3382 x 2128)	814
EQAC15003	3660	3468	3510	(1100 + 2256)	(3382 x 972) + (3382 x 2128)	898
EQAC18003	3660	3468	3510	(1100 + 2256)	(3382 x 972) + (3382 x 2128)	1138
EQAC22503	3960	3468	3810	(1100 + 2256)	(3682 x 972) + (3682 x 2128)	1309
Four Module	(Supplied as two double modules)					
EQAC14004	2270	4624	2130	(2256 + 2256)	(2002 x 2128) + (2002 x 2128)	960
EQAC16004	3650	4624	3510	(2256 + 2256)	(3382 x 2128) + (3382 x 2128)	1088
EQAC20004	3660	4624	3510	(2256 + 2256)	(3382 x 2128) + (3382 x 2128)	1200
EQAC24004	3660	4624	3510	(2256 + 2256)	(3382 x 2128) + (3382 x 2128)	1520
EQAC30004	3960	4624	3810	(2256 + 2256)	(3682 x 2128) + (3682 x 2128)	1748

TECHNICAL DATA:

MODEL	FAN MOTORS 380-420/3/50								COIL			
	Qty.	DIA (mm)	TOTAL Air Vol l/sec				Electrical Data		Std. Connections mm F. Sw		Circ #	Circ Volume dm ³
			300 rpm	500 rpm	800 rpm	1000 rpm	Amps	Watts	INLET	OUTLET		
Single Module												
EQAC3500	2	800	2945	5000	8108	10235	7.4	4400	1 x 1-5/8"	1 x 1-5/8"	18	59
EQAC4000	3	800	4960	8425	13665	17245	11.1	6600	1 x 1-5/8"	1 x 1-5/8"	18	47
EQAC5000	3	800	4815	8175	13260	16735	11.1	6600	1 x 2-1/8"	1 x 2-1/8"	24	64
EQAC6000	3	800	4675	7930	12865	16235	11.1	6600	1 x 2-5/8"	1 x 2-5/8"	36	94
EQAC7500	4	800	5655	9595	15820	19970	14.8	8800	1 x 2-5/8"	1 x 2-5/8"	36	102
Double Module												
EQAC7002	4	800	5890	10000	16216	20470	14.8	8800	2 x 1-5/8"	2 x 1-5/8"	36	118
EQAC8002	6	800	9920	16850	27330	34490	22.2	13200	2 x 1-5/8"	2 x 1-5/8"	36	94
EQAC10002	6	800	9630	16350	26520	33470	22.2	13200	2 x 2-1/8"	2 x 2-1/8"	48	128
EQAC12002	6	800	9350	15860	25730	32470	22.2	13200	2 x 2-5/8"	2 x 2-5/8"	72	188
EQAC15002	8	800	11310	19190	31640	39940	29.6	17600	2 x 2-5/8"	2 x 2-5/8"	72	204
Three Module												
EQAC10503	6	800	8835	15000	24324	30705	22.2	13200	3 x 1-5/8"	3 x 1-5/8"	54	177
EQAC12003	9	800	14880	25275	40995	51735	33.3	19800	3 x 1-5/8"	3 x 1-5/8"	54	141
EQAC15003	9	800	14445	24525	39780	50205	33.3	19800	3 x 2-1/8"	3 x 2-1/8"	72	192
EQAC18003	9	800	14025	23790	38595	48705	33.3	19800	3 x 2-5/8"	3 x 2-5/8"	108	282
EQAC22503	12	800	16965	28785	47460	59910	44.4	26400	3 x 2-5/8"	3 x 2-5/8"	108	306
Four Module												
EQAC14004	8	800	11780	20000	32432	40940	29.6	17600	4 x 1-5/8"	4 x 1-5/8"	72	236
EQAC16004	12	800	19840	33700	54660	68980	44.4	26400	4 x 1-5/8"	4 x 1-5/8"	72	188
EQAC20004	12	800	19260	32700	53040	66940	44.4	26400	4 x 2-1/8"	4 x 2-1/8"	96	256
EQAC24004	12	800	18700	31720	51460	64940	44.4	26400	4 x 2-5/8"	4 x 2-5/8"	144	376
EQAC30004	16	800	22620	38380	63280	79880	59.2	35200	4 x 2-5/8"	4 x 2-5/8"	144	408

NOISE LEVEL DATA dBA @ 3 mtrs.

MODEL	Qty.	DIA (mm)	MOTOR RPM								
			300	400	500	600	700	800	900	1000	
Single Module											
EQAC3500	2	800	47	52	56	61	65	69	72	75	
EQAC4000	3	800	50	55	59	64	68	72	75	78	
EQAC5000	3	800	49	54	58	63	67	71	74	77	
EQAC6000	3	800	49	54	58	63	67	71	74	77	
EQAC7500	4	800	51	56	60	65	69	73	76	79	
Double Module											
EQAC7002	4	800	51	56	60	65	69	73	76	79	
EQAC8002	6	800	54	59	63	68	72	76	79	82	
EQAC10002	6	800	53	58	62	67	71	75	78	81	
EQAC12002	6	800	53	58	62	67	71	75	78	81	
EQAC15002	8	800	55	60	64	70	73	77	80	83	
Three Module											
EQAC10503	6	800	54	59	63	68	72	76	79	82	
EQAC12003	9	800	57	62	66	71	75	79	82	85	
EQAC15003	9	800	56	61	65	70	74	78	81	84	
EQAC18003	9	800	56	61	65	70	74	78	81	84	
EQAC22503	12	800	58	63	67	72	76	80	83	86	
Four Module											
EQAC14004	8	800	55	60	64	68	72	76	79	82	
EQAC16004	12	800	58	63	66	71	75	79	82	85	
EQAC20004	12	800	57	62	65	70	74	78	81	84	
EQAC24004	12	800	57	62	65	70	74	78	81	84	
EQAC30004	16	800	59	64	67	72	76	80	83	86	

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

NOISE LEVEL DATA dBA @ 10 mtrs.

MODEL	Qty.	DIA (mm)	MOTOR RPM								
			300	400	500	600	700	800	900	1000	
Single Module											
EQAC3500	2	800	41	46	50	55	59	63	66	69	
EQAC4000	3	800	44	49	53	58	62	66	69	72	
EQAC5000	3	800	43	48	52	57	61	65	68	71	
EQAC6000	3	800	43	48	52	57	61	65	68	71	
EQAC7500	4	800	45	50	54	59	63	67	70	73	
Double Module											
EQAC7002	4	800	45	50	54	59	63	67	70	73	
EQAC8002	6	800	48	53	57	62	66	70	73	76	
EQAC10002	6	800	47	52	56	61	65	69	72	75	
EQAC12002	6	800	47	52	56	61	65	69	72	75	
EQAC15002	8	800	49	54	58	64	67	71	74	77	
Three Module											
EQAC10503	6	800	48	53	57	62	66	70	73	76	
EQAC12003	9	800	51	56	60	65	69	73	76	79	
EQAC15003	9	800	50	55	59	64	68	72	75	78	
EQAC18003	9	800	50	55	59	64	68	72	75	78	
EQAC22503	12	800	52	57	61	66	70	74	77	80	
Four Module											
EQAC14004	8	800	49	54	58	62	66	70	73	76	
EQAC16004	12	800	52	57	60	65	69	73	76	79	
EQAC20004	12	800	51	56	59	64	68	72	75	78	
EQAC24004	12	800	51	56	59	64	68	72	75	78	
EQAC30004	16	800	52	58	61	66	70	74	77	80	

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

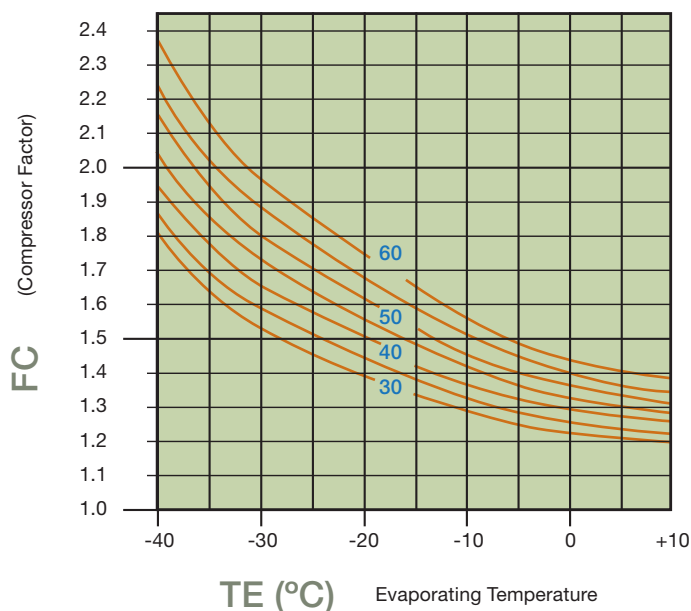
SELECTION DATA:

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
 ΔT = 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
 ΔT = TC-TA = 13KTD
dBA = REQUIRED BELOW 75 @ 3 MTRS.

SELECTION:

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

SELECTION =

EQAC8002

@ 15.86 Kws/KTD @ 700 RPM

PATTON



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



PATTON

refrigeration :: hvac

www.pattonau.com