



ROOFTOP PACKAGE UNIT

AIR CONDITIONERS

Capacity 30-40TR

3RTH - 50Hz

R410A



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INTRODUCTION

Roof Top Package Units have been developed & produced to provide not only the ultimate indoor comfort, but also to guarantee long & trouble free operations.

Here lies the reason for the choice of only the highest quality components and design strategists to meet the most important objective such as:

- EFFICIENCY
- RELIABILITY
- FLEXIBILITY
- EASY INSTALLABILITY
- SERVICEABILITY
- AFFORDABILITY

YE6PU



FEATURES

Standard Features

- Refrigerant : R410A.
- Power Supply: 380-415V/3PH/50Hz.
- Factory Wired with Single Point Power Input.
- Scroll Compressor.
- High Pressure & Low Pressure Safety Switches.
- Power Controller, High/Low Voltage, Phase Loss/Reversal Protection.
- All units are provided with ON-Delay timers for Anti-short cycling.
- Internal Motor Protection for Indoor Motors.
- IP55 Class F Blower Motor
- Belt Drive Blower Motor Assembly.
- Thermostatic Expansion Valve
- Condenser Fans are Propeller type Direct Driven, draw through Vertical Discharge with fan guard mounted to the Panel.
- Condenser & Evaporator Coils are with Copper tubes and Aluminum fins.
- Weather resistant steel cabinet, qualified for 1000 Hours of Salt Spray test.
- 2" Disposable Air Filter

Optional Features

- Electric Heater.
- Overload External protection for Blower Motor.
- Anti Ice thermostat.
- Hydrophilic Fin for Evaporator Coil.
- Copper Fins for Evaporator & Condenser coil.
- Heresite Coated Condenser Coil.
- Stainless Steel Drain Pan.
- Filter Differential pressure Switch.
- Overload External Protection for Compressor.
- Compressor Alternating Switch.
- Hour Run Meter.
- Fan Cycling Switch.
- Rotolock Compressor
- Circuit breaker (MCB) for Compressor & Blower Motor.
- Pump Down System.
- Dual Adjustable Pressure Switch.
- Hot Gas Bypass (with Solenoid).
- Pressure Gauges.
- Oversized Blower Motor & Alternate Drive Package.
- PCB Controller.
- Advanced Microprocessor Controller.
- Adjustable Voltage Monitor.
- UV Light.
- Adjustable Pressure Switch.
- VFD for Blower Motor.
- Soft Starter for Blower Motor.
- Volt free Contacts for Compressor & Blower ON/OFF/TRIP Status.
- Fire Alarm Interlock
- Crankcase Heater for Compressor
- Sight Glass
- 2" Synthetic Filter

HIGH EER ROOF TOP PACKAGE - R410A PRODUCT DATA BOOK

ENGINEERING SPECIFICATIONS

360K - 420K - 480K

TECHNICAL SPECIFICATIONS						
Description	Unit of measurement	UNIT MODEL				
		3RTH360GC2	3RTH420GC2	3RTH480GC2		
Nominal Cooling Capacity @ 35°C (T1)	Btu /Hr	346,697	411,335	465,058		
Power Consumption @ T1	Watts	34,154	40,697	45,585		
EER @ T1		10.2	10.1	10.2		
Cooling Capacity @ 46° (T3) *	Btu /Hr	313,226	371,902	414,162		
Power consumption @ 46° (T3) *	Watts	40,100	47,650	53,005		
Power consumption /Ton @ 46° (T3)	Kwatts/tr.	7.81	7.80	7.81		
Power Factor @ 46° (T3)		0.9	0.9	0.9		
Air Flow (Evaporator)	CFM	12,000	13,000	14,000		
External static pressure	Inch H20 g	1.0"	1.4"	1.4"		
Refrigerant Type		R410A				
Evaporator	Blower	Type	Centrifugal			
		Drive	Belt Drive			
		Dia x width	18" x 18" - Twin	18" x 18" - Twin	18" x 18" - Twin	
		Qty	1	1	1	
	Blower Motor	Power Supply	V/Ph/Hz	380-415V/3Ph/50 Hz		
		HP		10.00	10.00	15.00
	Air filter Type		Disposable Air Filer			
	Evaporator Coil	Tube Dia / no of row/ FPI		3/8" / 4 / 14	1/2" / 4 / 14	1/2" / 4 / 14
		Material Tubes - Fins		CU-AL		
	Expansion valve	Type		TXV		
Qty			2	2	2	
Condenser	Compressor	Power Supply	V/Ph/Hz	380-415V/3Ph/50 Hz		
		Type		SCROLL		
		Quantity		2	2	2
		Protection		Internal		
	Condenser Fan	Type		Propeller / Direct driven		
		Qty		6	6	6
		Dia of Fan	Inch	26"	26"	26"
	Condenser Coil	Type of coil		Corrugated al fin with Inner grooved copper coil		
		Tube Dia / no of row/ FPI		3/8" / 2 / 15 3/8" / 3 / 15	3/8" / 3 / 15	3/8" / 4 / 15
	Condensar Fan Motor	Power Supply	V/Ph/Hz	240V/1Ph/50 Hz		
		HP		1/2	3/4	3/4
		IP		IP44	IP20	IP20
		Insulation Class		F	B	B
Qty		nos	6	6	6	
Dimensions	Length	mm	3945	3945	3945	
	Width		2150	2150	2150	
	Height		2400	2400	2400	
Unit Weight	KG	2150	2340	2480		

NOTES:

Cooling Capacity & Power Consumption given are for the whole set unit.

*Cooling Capacity & EER are rated @ 80.6°F DBT/66.2°F WBT indoor and 95°F DBT outdoor.

** Cooling Capacity & EER are rated @ 84.2°F DBT/66.2°F WBT indoor and 114.8°F DBT outdoor .

As a result of continous research and development, the above specifications are subject to changes without notice.

HIGH EER ROOF TOP PACKAGE - R410A PRODUCT DATA BOOK

COOLING PERFORMANCE DATA

360K

MODEL	EVAPORATOR TOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPERATURE (°F)																							
				85.00				95.00				105.00				114.80				118.40				125.00			
				TC Btu/hr	SC Btu/hr	PI	EER	TC Btu/hr	SC Btu/hr	PI	EER	TC Btu/hr	SC Btu/hr	PI	EER	TC Btu/hr	SC Btu/hr	PI	EER	TC Btu/hr	SC Btu/hr	PI	EER	TC Btu/hr	SC Btu/hr	PI	EER
3RTH360GC2	10500	82	69	368131	257531	30.94	351520	250994	34.29	334265	244242	38.16	322182	241035	40.39	315738	238414	41.98	301977	232735	45.69						
				66.2	346375	274142	30.58	338768	267927	33.93	322048	261282	37.81	310823	259056	40.02	304817	255544	41.64	291802	251083	45.32					
				65	334372	294719	30.36	329978	287003	33.67	310366	277143	37.42	299665	275656	39.68	293567	273254	41.27	286099	268011	44.94					
				63	334372	313045	30.06	318833	305651	33.36	302543	297934	37.19	291711	291711	39.43	284612	284612	40.98	271615	271615	44.61					
				69	367488	239098	30.94	350877	232775	34.29	333779	226130	38.16	316359	223015	40.39	301431	220612	41.98	285192	215370	45.65					
				66.2	354520	256995	30.58	338445	250672	33.93	321619	244028	37.77	310496	241363	40.02	304380	238960	41.60	291274	233500	45.32					
		80.6	65	346054	277358	30.36	329871	269856	33.67	310473	260317	37.42	299137	258073	39.68	293240	255670	41.27	280571	250428	44.94						
		63	328478	304579	29.92	313045	297291	33.18	297077	289575	37.02	286032	286032	39.27	280243	280243	40.85	268011	268011	44.48							
		69	366524	218842	30.89	349912	212519	34.24	332765	208875	38.12	320762	202374	40.35	314318	200080	41.94	300557	195275	45.61							
		66.2	354520	240920	30.58	337587	233953	33.89	320869	227309	37.77	309622	224435	40.02	303615	221923	41.60	290509	216572	45.27							
		65	345304	260639	30.36	329228	253030	33.67	310473	244028	37.42	298482	240936	39.64	292585	238524	41.23	279916	233281	44.90							
		63	327942	287646	29.88	312510	280358	33.18	296541	272749	37.02	285486	269650	39.22	279697	266810	40.81	267247	260694	44.48							
		69	364809	197837	30.85	348197	191514	34.20	331050	184869	38.08	319124	180968	40.31	312789	178456	41.89	299028	173650	45.57							
		66.2	354199	220772	30.58	335980	213591	33.85	319368	207161	37.72	308093	204121	39.93	302086	201609	41.56	289199	195367	45.23							
		65	344018	242313	30.32	328156	235775	33.63	310045	227202	37.42	297172	222906	39.60	291383	220612	41.18	278605	215479	44.86							
		63	326763	270070	29.88	311438	262782	33.14	295469	255173	36.97	284503	251738	39.18	278714	248899	40.77	266155	242783	44.44							
		69	377669	274142	31.20	360093	267176	34.55	341553	259674	38.43	328953	256544	40.60	322400	253814	42.23	308202	247916	45.90							
		66.2	363951	293540	30.85	347126	286789	34.15	329764	279930	38.03	317813	277513	40.27	311369	274783	41.85	297499	268994	45.52							
		65	351734	312510	30.50	334801	305436	33.80	317868	298885	37.68	306646	296953	39.89	300230	294441	41.48	287124	287124	45.15							
		63	342839	335551	30.28	326566	336656	33.58	307687	307687	37.33	296693	296959	39.60	291056	291056	41.18	280025	280025	44.90							
		69	376919	254852	31.16	359450	247993	34.55	341017	240091	38.38	328407	236995	40.60	321745	234264	42.19	307547	228476	45.86							
		66.2	363523	274035	30.80	346697	267391	34.15	329335	260425	38.03	317485	257745	40.23	310933	255015	41.85	297602	249227	45.48							
		65	352056	293540	30.54	358486	226130	34.51	340052	327424	37.64	306018	277076	39.89	299902	274564	41.48	286796	269212	45.15							
		63	336730	326227	30.14	320655	318511	33.40	304043	300403	37.24	291711	291711	39.43	285922	283520	41.02	273581	279581	44.69							
69	375847	232667	31.16	358486	226130	34.51	340052	327424	37.64	306018	277076	39.89	299902	274564	41.48	286796	269212	45.15									
66.2	362665	255173	30.80	345840	248829	34.15	328478	241563	37.99	316721	238633	40.23	310168	235902	41.81	296398	230114	45.48									
65	352056	275321	30.54	333515	266855	33.80	316796	260210	37.64	305253	257854	39.83	299247	253343	41.44	286141	249882	45.11									
63	336194	307531	30.10	320119	299542	33.40	303507	291611	37.19	291820	288434	39.43	284612	284393	40.98	274035	249882	45.11									
69	374026	208661	31.11	356771	202231	34.46	338445	195908	38.30	325786	190991	40.52	319233	190797	42.10	305053	185992	45.77									
66.2	361058	234489	30.76	344339	227952	34.11	326978	221307	37.94	315192	218210	40.18	308748	215589	41.77	294987	209909	45.44									
65	351305	255816	30.50	332765	247564	33.76	315510	240384	37.59	303943	237759	39.81	297827	235247	41.39	284721	229896	45.07									
63	335015	287324	30.10	318940	279715	33.36	302436	271785	37.19	291165	268667	39.43	284612	265063	40.98	269759	257527	44.56									
69	358700	322905	30.72	342089	316261	34.02	324834	309402	37.90	313226	307875	40.10	307110	305253	41.73	293349	293349	45.36									
66.2	382921	284538	31.33	364594	277143	34.68	345635	269427	38.56	332775	266373	40.73	326113	263534	42.35	311806	257745	46.03									
65	369096	305758	30.98	351948	298899	34.33	334158	291718	38.16	321526	289199	40.39	314864	286359	41.98	300716	280571	45.65									
63	347876	347554	30.41	328907	328907	33.67	312081	312081	37.50	302741	302741	39.77	297390	297390	41.39	286032	286032	45.11									
69	382278	263854	31.33	363951	256459	34.64	345089	248850	38.52	332229	245404	40.73	325458	242674	42.31	311042	236776	45.98									
66.2	368667	284752	30.94	351520	277893	34.29	333779	270820	38.16	321089	267902	40.35	314537	265172	41.94	300448	256724	45.61									
65	355699	304900	30.63	338981	298256	33.93	321619	291290	37.77	309840	289308	40.02	303615	286687	41.60	290182	281117	45.27									
63	341446	339945	30.23	325049	325049	33.54	307258	307258	37.33	296679	296679	39.56	290728	290728	41.18	279479	279479	44.90									
69	381206	242206	31.29	362987	236204	34.64	344125	228809	38.47	331246	225990	40.68	324475	222251	42.27	310059	216353	45.94									
66.2	367810	264604	30.94	350555	257745	34.29	332872	250872	38.12	320252	247370	40.35	313772	244640	41.94	295794	238851	45.61									
65	354735	284431	30.58	338231	277893	33.93	320976	270972	37.77	309185	268667	39.97	302960	266046	41.56	289527	260476	45.23									
63	340803	319476	30.23	324513	311652	33.54	307473	303400	37.33	292912	292912	39.47	286578	286578	41.06	274892	274892	44.73									
69	379277	215842	31.25	348122	210054	34.59	342410	203946	38.43	329499	201172	40.64	322837	198879	42.23	308421	195644	45.90									
66.2	366095	243492	30.89	348948	236740	34.24	331264	229667	38.08	326182	226182	40.31	312243	223492	41.89	298154	217554	45.52									
65	353877	263747	30.58	336837	256674	33.89	319583	249815	37.72	307765	247042	39.93	301540	244421	41.52	288216	238960	45.19									
63	339624	298256	30.19	332327	290432	33.49	306508	282609	37.33	292585	277622	39.47	285813	274346	41.02	272598	266776	44.65									
84.2	363737	337480	30.85	346697	330621	34.15	329121	323548	38.03	317048	317048	40.23	310805	310805	41.81	296625	279635	45.48									

LEGEND

TC: Gross Total Cooling Capacity in BTU/hr
 SC: Sensible Cooling Capacity in BTU/hr
 PI: Total Power Input in KW
 DBT: Dry Bulb Temperature
 WBT: Wet Bulb Temperature

HIGH EER ROOF TOP PACKAGE - R410A PRODUCT DATA BOOK

COOLING PERFORMANCE DATA

420K

MODEL	EVAPORA TOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPERATURE (°F)																																																																																																																																																																																																																											
				85.00				95.00				105.00				114.80				118.40				125.00																																																																																																																																																																																																							
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HIGH EER ROOF TOP PACKAGE - R410A PRODUCT DATA BOOK

COOLING PERFORMANCE DATA

480K

MODEL	EVA/PORA TOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPERATURE (°F)																							
				85.00				95.00				105.00				114.80				118.40				125.00			
				TC Btu/hr	SC Btu/hr	PI	TC Btu/hr	SC Btu/hr	PI	TC Btu/hr	SC Btu/hr	PI	TC Btu/hr	SC Btu/hr	PI	TC Btu/hr	SC Btu/hr	PI	TC Btu/hr	SC Btu/hr	PI	TC Btu/hr	SC Btu/hr	PI			
3RTH480GC2	14000	82	69	499101	337514	41.42	476833	328887	45.96	453633	319910	49.47	425471	306958	53.39	417162	303496	55.49	396622	296341	60.31						
				480447	358849	40.92	459229	350688	45.45	426611	341944	48.93	409661	329114	52.88	401930	325998	54.97	385428	319305	59.80						
				470188	386829	40.65	448386	376686	45.13	420289	361997	48.45	394424	350001	52.37	386813	346885	54.46	370542	340308	59.25						
				453749	410380	40.23	433531	400586	44.67	410613	390327	48.14	384274	375904	52.03	375273	370542	54.08	359945	358771	58.82						
				439635	431497	41.38	417620	405603	45.91	403166	392642	49.47	382509	384224	53.39	374701	380762	54.79	359905	373608	60.31						
				429165	456051	40.88	415651	434244	45.22	429733	429733	48.76	402068	421844	52.67	395352	418278	54.46	378850	412151	59.55						
		80.6	69	469955	364328	40.65	448619	354652	45.13	420756	340312	48.45	394314	327729	52.37	386582	324729	54.46	370426	318151	59.25						
				459635	391187	40.01	424836	389627	44.45	403151	379485	47.92	372203	364887	51.81	369724	361310	53.91	353694	353463	58.55						
				447585	289248	41.38	475201	280737	45.91	452117	271876	49.42	424086	295929	53.35	415778	256067	55.44	398237	248797	60.27						
				431380	316062	40.92	458063	306502	45.41	435352	297758	48.93	408623	285494	52.84	400891	282378	54.93	384274	275685	59.76						
				469138	342644	40.60	447570	332617	45.09	421455	319676	48.49	393821	306150	52.37	386005	303150	54.42	369734	296572	59.20						
				444772	377269	40.01	424253	367709	44.45	402568	357567	47.92	377735	343308	51.81	369272	339615	53.86	353347	332114	58.61						
	78	69	495603	263133	41.33	473219	254622	45.82	450135	245761	49.38	422355	233796	53.31	414047	230334	55.40	396506	223064	60.19							
			481497	291230	40.92	456198	281203	45.36	433930	272693	48.85	406892	260799	52.80	399160	257683	54.89	382658	250874	59.67							
			463373	354302	39.96	422971	344975	44.40	401286	334832	47.87	377504	320805	51.77	368003	317113	53.82	351963	309381	58.56							
			477533	396040	40.83	452117	384265	45.22	429849	375521	48.76	403084	362579	52.67	395468	359348	54.76	379081	352770	59.55							
			514257	362929	41.79	490823	353836	46.37	465758	343926	49.86	436088	330037	53.74	427433	326460	55.87	409200	319074	60.66							
			495254	388578	41.29	472519	379718	45.82	448969	370507	49.33	420855	357040	53.22	412546	353578	55.32	394660	346193	60.14							
	82	69	476950	412595	40.83	455381	404317	45.32	432414	420056	45.04	420056	416599	48.45	405046	381851	52.71	397083	378620	54.80							
			467157	444889	40.55	445355	434662	45.04	420056	416599	48.45	405046	381851	52.71	397083	378620	54.80	380351	371696	59.59							
			513674	337281	41.10	465058	371440	45.59	441741	362320	49.82	435511	304765	53.74	426971	301303	55.83	408738	293918	60.66							
			487559	380301	41.10	465058	371440	45.59	441741	362320	49.82	435511	304765	53.74	426971	301303	55.83	386659	336692	59.89							
			458879	423331	40.37	438661	423288	44.81	414460	411779	48.20	387390	387390	52.16	396852	353171	54.80	380426	364426	59.59							
			477766	387762	40.83	455148	378668	45.32	432181	369575	48.27	418779	382390	52.16	397974	379774	54.25	386426	364426	59.59							
14000	78	69	494088	337664	41.29	471354	328887	45.77	447803	319793	49.29	419701	306842	53.22	411392	303496	55.32	393621	296110	60.10							
			478349	363629	40.33	456495	397205	44.77	413877	386596	48.80	404122	331537	52.67	396160	328306	54.76	379312	321498	59.59							
			458296	407465	40.33	436495	397205	44.77	413877	386596	48.80	404122	331537	52.67	396160	328306	54.76	379312	321498	59.59							
			510410	279455	41.70	486976	270594	46.23	462377	261094	49.73	422741	248797	53.65	424202	245797	55.74	405969	239565	60.57							
			492222	311399	41.24	469488	302655	45.73	445938	293678	49.24	418247	281109	53.14	409892	277762	54.72	392006	270492	60.02							
			476698	338913	40.88	452350	326788	45.22	429966	318161	48.76	402622	305573	52.63	394660	302342	54.72	37812	295533	59.50							
	76	69	456897	381233	40.33	435096	370974	44.72	412478	360365	48.23	385774	345731	52.11	376512	340538	54.12	356579	330268	58.73							
			487676	427518	41.10	465175	418774	45.59	441858	409563	49.11	414162	395814	53.01	406200	392583	55.10	388775	385428	59.93							
			520553	374938	41.97	496186	365378	46.51	470654	352535	50.00	440473	341000	53.91	431818	337423	56.00	413239	329922	60.83							
			501316	402685	41.47	478116	393591	46.00	454099	384265	49.51	425125	370196	53.39	416585	366618	55.49	398468	359233	60.27							
			483245	429033	41.01	460628	420173	45.45	437311	410963	48.98	409546	397083	52.88	401468	393882	54.97	384389	384389	59.76							
			473452	461794	40.74	448153	442790	45.13	426235	426235	48.62	401584	401584	52.63	394660	394660	54.72	380120	380120	59.59							
80.6	69	519970	347657	41.97	495603	338213	46.51	470071	328070	50.00	439896	314228	53.86	431241	310650	56.00	412777	303150	60.83								
		493505	393824	41.24	470538	348264	45.77	446754	375637	49.24	418847	362062	53.18	410354	358656	55.27	393238	351270	60.06								
		483012	401636	40.97	460395	392775	45.45	437078	383565	48.98	409315	369665	52.84	401237	366734	54.93	384159	359694	59.76								
		464475	448503	40.51	442207	438010	44.95	418774	417841	48.40	392698	392698	52.33	385890	385890	54.42	371349	371349	59.29								
		518804	319676	41.93	494671	310583	46.46	469138	301722	49.95	438972	288932	53.86	430318	284570	55.96	411739	277070	60.78								
		500150	348589	41.42	476833	339496	45.96	452933	330169	49.47	424086	316766	53.35	415547	313189	55.44	397429	305804	60.23								
78	69	482313	374938	40.97	456935	366077	45.45	436261	350697	49.47	424086	316766	53.35	415547	313189	55.44	397429	305804	60.23								
		463892	421688	40.46	441624	411196	44.95	417958	399887	48.40	386928	380697	52.11	380004	377350	54.25	365003	365003	59.03								
		516589	287149	41.88	492689	278055	46.41	467273	268845	49.91	437126	2957452	53.78	428471	254452	55.40	409892	274820	60.70								
		498168	320842	41.38	474968	318149	45.91	451068	302422	49.38	422471	289533	53.31	413931	285555	55.87	395814	278270	60.19								
		480447	346957	40.92	458063	338213	45.41	434746	329003	48.89	407007	316074	52.80	398930	312728	54.89	381851	305804	59.67								
		462377	393824	40.46	440225	383332	44.90	417608	372839	48.36	385774	354155	52.11	376889	350116	54.12	360618	343885	58.90								
84.2	462377	393824	40.46	440225	383332	44.90	417608	372839	48.36	385774	354155	52.11	376889	350116	54.12	360618	343885	58.90									
84.2	462377	393824	40.46	440225	383332	44.90	417608	372839	48.36	385774	354155	52.11	376889	350116	54.12	360618	343885	58.90									

LEGEND

TC: Gross Total Cooling Capacity in BTU/hr
SC: Sensible Cooling Capacity in BTU/hr
PI: Total Power Input in KW

DBT: Dry Bulb Temperature
WBT: Wet Bulb Temperature

HIGH EER ROOF TOP PACKAGE - R410A PRODUCT DATA BOOK

ELECTRICAL DATA

360K - 420K - 480K

Cool Mode

380/415V-3PH-50HZ ("G" VOLTAGE) POWER SUPPLY - R410A														
MODEL	V/PH/Hz	Operating Voltage		Compressor			Condenser Motor			BLOWER MOTOR		MCA	MOCP	
		MIN	MAX	TYPY	RLA	LRA	QTY	HP	AMPS	QTY	HP	AMPS	AMPS	AMPS
3RTH360GC2	380-415/3/50	342	456	SCR	26.3	174	1	1/2	3.0	6	10	14.5	96	125
					29.2	219	1							
3RTH420GC2	380-415/3/50	342	456	SCR	29.2	219	2	3/4	5.7	6	10	14.5	115	145
3RTH480GC2	380-415/3/50	342	456	SCR	29.2	219	1	3/4	5.7	6	15	22.0	125	165
					36.8	287.5	1							

Electric Heater Mode

MODEL	POWER SUPPLY			BLOWER MOTOR		Heater Capacity	MCA	MOCP
	V-Ph-Hz	MIN	MAX	HP	FLA			
3RTH360GC2	380-415-3-50	342	456	10	14.5	40	70	85
						45	80	95
						50	90	105
3RTH420GC2	380-415-3-50	342	456	10	14.5	40	70	85
						45	80	95
						50	90	105
3RTH480GC2	380-415-3-50	342	456	15	22	40	70	95
						45	80	105
						50	90	110

NOTE:

SCR - Scroll Compressor, RLA - Running Load Amps, LRA - Locked Rotor Amps, FLA - Full Load Amps, MCA - Minimum Circuit Amps
MOCP - Maximum Over Current Protection

HIGH EER ROOF TOP PACKAGE - R410A PRODUCT DATA BOOK

FAN PERFORMANCE DATA

360K - 420K - 480K

3RTH360GC2																		
External Static Pressure																		
Air Flow (CFM)	0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8500	647	2.72	694	2.92	754	3.65	800	3.93	838	4.46	872	4.93	900	5.32	927	5.78	972	6.11
9000	644	2.87	689	3.15	746	3.79	793	4.07	829	4.60	862	5.06	890	5.45	919	5.91	963	6.28
10000	637	3.17	679	3.62	730	4.07	780	4.34	811	4.88	843	5.33	871	5.70	902	6.15	945	6.61
10500	634	3.32	674	3.85	723	4.21	774	4.48	802	5.02	834	5.47	861	5.83	894	6.28	936	6.77
11000	630	3.47	670	4.09	715	4.36	767	4.62	793	5.16	824	5.60	851	5.96	886	6.40	927	6.93
12000	628	4.00	672	4.42	706	4.67	758	4.96	785	5.58	810	6.00	840	6.25	887	6.67	916	7.25
13000	624	4.56	668	5.06	703	5.40	751	5.66	777	6.17	800	6.50	830	6.67	879	7.18	914	7.77

3RTH420GC2																		
External Static Pressure																		
Air Flow (CFM)	0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9500	640	3.02	684	3.39	738	3.93	787	4.20	820	4.74	853	5.20	881	5.57	911	6.03	954	6.44
10000	637	3.17	679	3.62	730	4.07	780	4.34	811	4.88	843	5.33	871	5.70	902	6.15	945	6.61
11000	630	3.47	670	4.09	715	4.36	767	4.62	793	5.16	824	5.60	851	5.96	886	6.40	927	6.93
11500	629	3.73	671	4.25	711	4.51	763	4.79	789	5.37	817	5.80	845	6.10	887	6.53	921	7.09
12000	628	4.00	672	4.42	706	4.67	758	4.96	785	5.58	810	6.00	840	6.25	887	6.67	916	7.25
13000	624	4.56	668	5.06	703	5.40	751	5.66	777	6.17	800	6.50	830	6.67	879	7.18	914	7.77
14000	622	5.21	666	5.75	701	6.15	750	6.48	772	6.80	796	7.05	824	7.21	877	7.62	911	8.50

3RTH480GC2																		
External Static Pressure																		
Air Flow (CFM)	0.4		0.6		0.8		1.0		1.2		1.4		1.6		1.8		2.0	
	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10000	637	3.17	679	3.62	730	4.07	780	4.34	811	4.88	843	5.33	871	5.70	902	6.15	945	6.61
11000	630	3.47	670	4.09	715	4.36	767	4.62	793	5.16	824	5.60	851	5.96	886	6.40	927	6.93
12000	628	4.00	672	4.42	706	4.67	758	4.96	785	5.58	810	6.00	840	6.25	887	6.67	916	7.25
13000	624	4.56	668	5.06	703	5.40	751	5.66	777	6.17	800	6.50	830	6.67	879	7.18	914	7.77
14000	622	5.21	666	5.75	701	6.15	750	6.48	772	6.80	796	7.05	824	7.21	877	7.62	911	8.50
15000	620	5.89	665	6.53	700	7.01	748	7.34	770	7.53	795	7.70	823	7.81	875	8.25	910	9.24

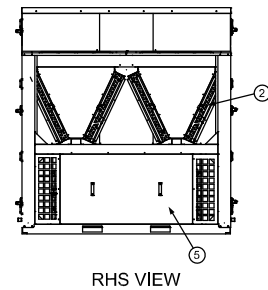
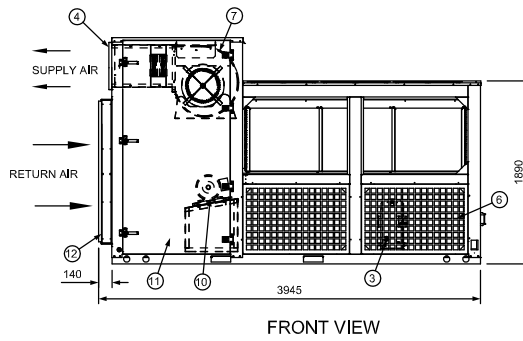
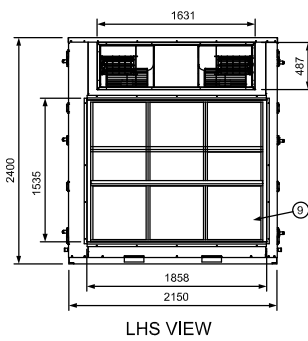
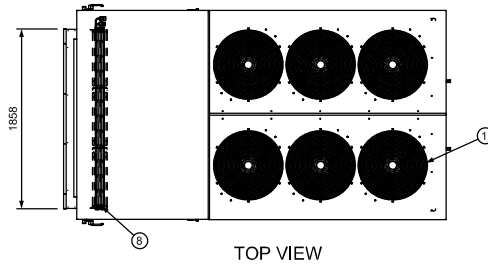
Notes:

- Data includes losses for filters, unit casting & wet coil
- Shaded region indicates alternate drive requirement
- Bold value in RPM indicates Blower speed with factory settings

GENERAL ARRANGEMENT DRAWINGS

360K - 420K - 480K

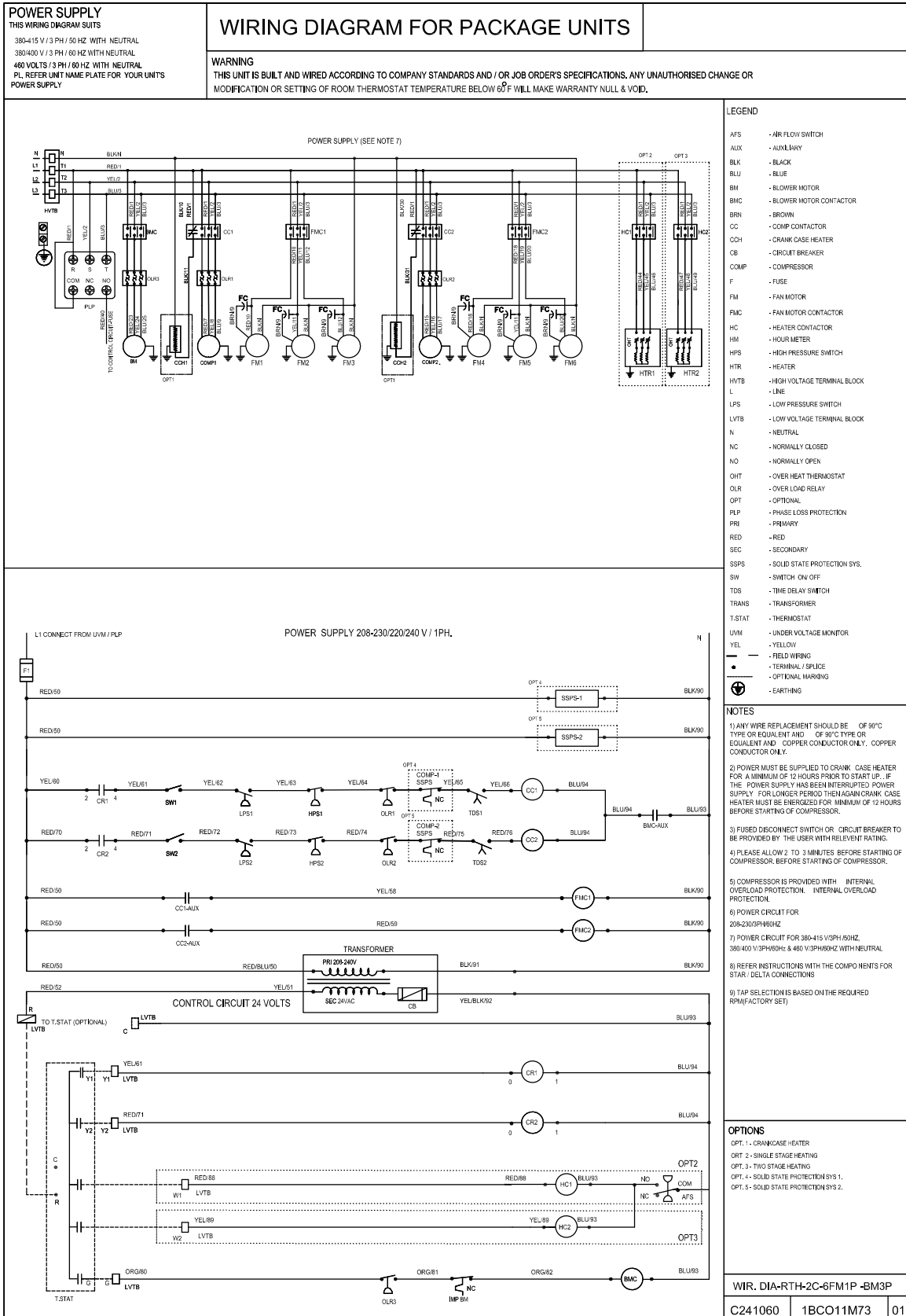
S.NO	LEGENDS
1	COND FAN MOTOR & GRILL
2	CONDENSOR COIL
3	COMPRESSOR
4	SUPPLY AIR OPENING
5	CONTROL PANEL ACCESS
6	COMPRESSOR ACCESS
7	SUPPLY AIR BLOWER
8	EVAPORATOR COIL
9	PRE FILTER
10	BLOWER MOTOR
11	BLOWER & COIL ACCESS
12	FILTER ACCESS



HIGH EER ROOF TOP PACKAGE - R410A PRODUCT DATA BOOK

WIRING DIAGRAM

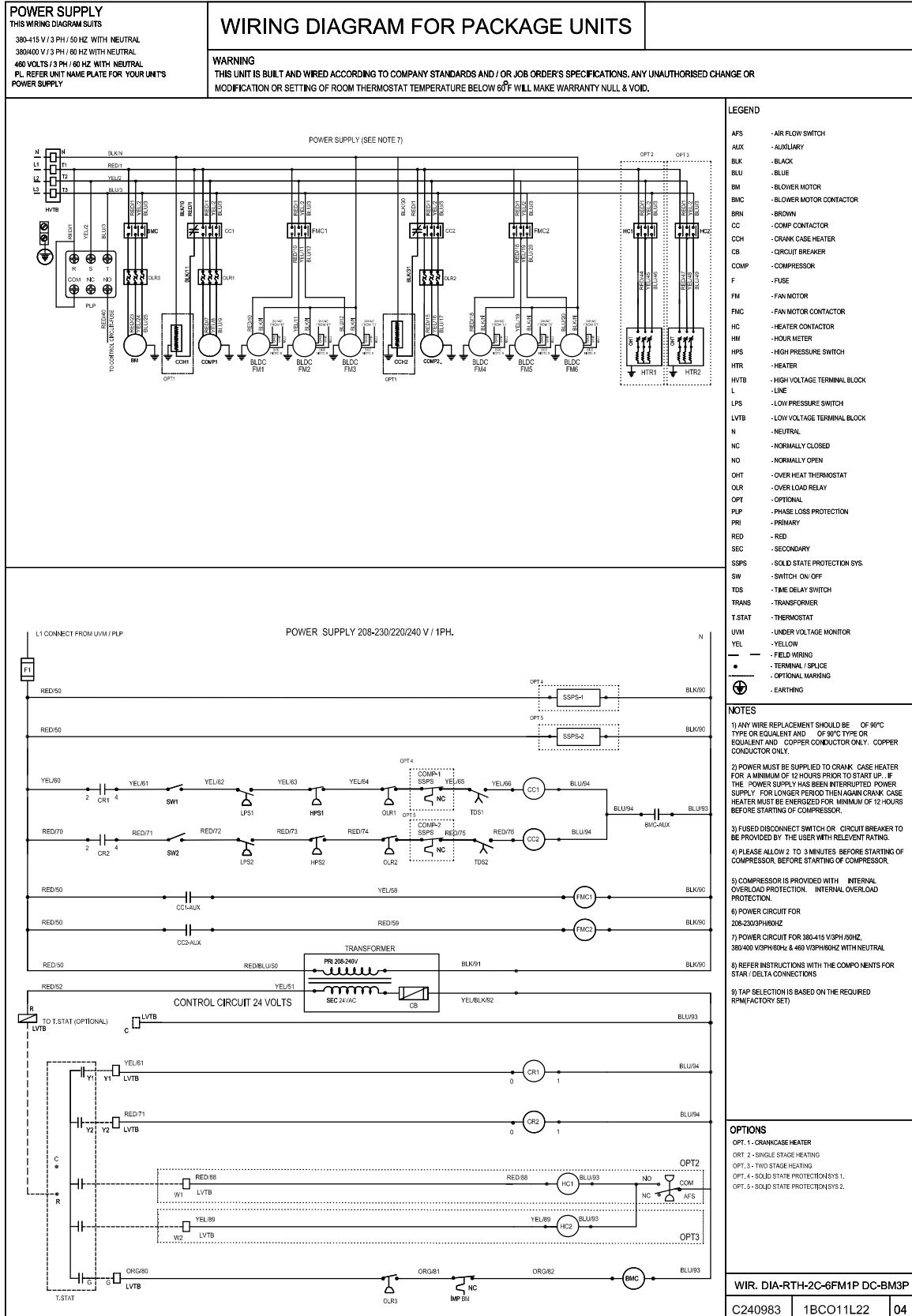
360K



HIGH EER ROOF TOP PACKAGE - R410A PRODUCT DATA BOOK

WIRING DIAGRAM

420K - 480K



AUTHORISED DISTRIBUTORS



16 St, Abdelaziz Eissa Block 35
Ninth Region, Nasr City ,Egypt
Tel. :+2 02-2473-2550
E-mail : Info@ebaircondition.com



EBA



Tel: +973 1773 8333 | Fax: +973 1773 1541/1529
P.O. Box 15919, Manama, Kingdom of Bahrain
Email: export@awalgulf.com.bh | Website: www.awalgulf.com



8/5/2023

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* Certification varies from one product to another

