



ALFOUAD الفـؤاد
Air Conditioning لأعمال التكييف والصيانة

CENTRAL DUCTED SPLIT

AIR CONDITIONERS

Capacity 6-25TR 2nd Gen

3IDH/3ODH - 60Hz

R410A

سكاي ستار



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INTRODUCTION

Split indoor & outdoor 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

Central Ducted Split Units Capacity 6TR to 25TR

3IDH
72K - 300K



3ODH
72K - 300K



SALIENT FEATURES

Indoor Split Unit

- The Indoor split units are designed by latest technology , highly efficient in performance. 3IDH is available in horizontal or vertical air flow configurations and is suitable for floor or ceiling mounting. 3IDH and above units are available only in horizontal air flow configuration and suitable for ceiling mounting only.
- All Indoor split units are encased 1-piece fabricated, assembled, leak tested, piped, internally wired and with holding charge of refrigerant R410A.
- The indoor split units are available in the following voltages :-
380V/400 V /3 PH / 60 HZ
Primary Control voltage is 24 volts through transformer.
- The Solid & Rugged construction of powder coated metal cabinet ensures years of rugged service, equipped with most advanced components for outstanding performance. The coil is made of seamless inner grooved copper tube/corrugated Aluminum fins.
- Efficient and dependable metering of the refrigerant is provided by thermostatic expansion device which improves overall system reliability and is easily accessible for routine maintenance.
- AGMCO has also engineered the 3IDH series units with advanced refrigerant circuitry keeping in mind for the minimum pressure drop for best output. Low density insulation has been used to avoid the heat loss and improve the performance of unit and for quiet operation.
- The indoor air compartment are completely insulated with ½" fire retard close cell insulation.
- Units are completely factory wired with single point power input provided with knockouts for utility, main power supply and control connections.

Outdoor Condensing Units

- Outdoor units are suitable for mounting on the roof or on the ground. All units are factory assembled, piped, internally wired and fully charged with R410A. These units are tested in accordance with ARI standards and certified as per SASO 2874 requirements.
- All outdoor units are designed for up flow installations.
- The units are available in the following voltages range :-
380V/400 V /3 PH / 60 HZ
Primary Control voltage is 24 volts through transformer.
- All components are mounted in a weather resistant steel cabinet. The cabinet and access panels are powder coated for lasting protection and durability.
- Compressors are fully hermetic Scroll type designed for high efficiency and provided with standard controls & safety devices.
- All Scroll compressors are provided with crankcase heaters which warms the oil and protect against the possibility of migration of refrigerant into the compressor during off cycle.
- Condenser coils are made of seamless inner grooved copper tube and aluminum corrugated fins mechanically bonded for maximum heat transfer and Coils are factory tested for leaks and pressure 550psi.
- Condenser coils are designed to have minimum pressure drop for refrigerant flow to get best output.
- Condenser fans are propeller type, direct driven draw through vertical discharge with fan guard mounted to the panel.
- HP & LP controls are provided for the safe operation of the compressor.
- Easy accessible control box, Compressors and High pressure control (with manual reset button).
- All the units are provided with time delay sequencers (145sec & 180sec).
- All units are pre-charged for 25 ft piping connections.

CENTRAL DUCTED SPLIT UNITS PRODUCT DATA BOOK - R410A

MODEL DECODING

1	2 / 3	4	5 / 6 / 7	8	9
CAC	PRODUCT LINE	PRODUCT TYPE	CAPACITY	ELECTRIC CODE	APPLICATION
3 CAC	ID = INDOOR OD = OUTDOOR	H= HEER	EXAMPLE 072 = 72,000 BTU/HR 300 = 300,000 BTU/HR	E = 380/400V / 3PH / 60HZ	C = COOL ONLY E = COOL + ELE HTR H = COOL + HP

10	11	12 / 13	14	15/16
CIRCUIT	COMPRESSOR	FACTORY OPTIONS	CONTROL VOLT	SPL / FACTORY .OPTIONS
1 = SINGLE 2 = DUAL	B = SCROLL (R-410A)	AA = STANDARD BA TO ZZ = NON STANDARD	X = 240 VOLTS Y = 24 VOLTS M = MICRO PROCESSOR	2W : SECOND GENERATION OF SW

CENTRAL DUCTED SPLIT UNITS

PRODUCT DATA BOOK - R410A

ENGINEERING SPECIFICATIONS

Indoor & Outdoor Models

TECHNICAL SPECIFICATIONS									
INDOOR									
MODEL / UNIT		3IDH072	3IDH090	3IDH120	3IDH150	3IDH180	3IDH216	3IDH240	3IDH300
RATED CAPACITY @T1 *	Cooling Btu/Hr	71,000	89,000	123,000	150,000	180,000	230,000	246,000	272,000
RATED POWER CONSUMPTION @T1	Watts	6,340	7,945	10,980	13,635	16,365	20,910	24,600	27,200
EER @T1 *		11.20	11.20	11.20	11.00	11.00	11.00	10.00	10.00
RATED CAPACITY @T3 **	Cooling Btu/Hr	65,000	81,000	115,000	132,000	150,000	204,000	214,000	226,000
RATED POWER CONSUMPTION @T3 **	Watts	7,570	9,700	13,555	15,600	19,000	25,430	30,195	33,115
EER @T3 **		8.59	8.35	8.48	8.46	7.89	8.02	7.09	6.82
NOMINAL AIR FLOW	CFM	2,500	3,050	4,050	5,000	6,000	7,100	7,800	9,400
EXTERNAL STATIC PRESSUE	Inch H2O g	0.2"	0.25"	0.3"	0.3"	0.4"	0.4"	0.4"	0.4"
REFRIGERATION SYSTEM	Circuit	Single	Single	Dual	Dual	Dual	Dual	Dual	Dual
EVAPORATOR BLOWER	Type	Centrifugal							
	Drive	Belt							
	Dia.xWidth. in Inch	12"x12"	15"x15"	15"x15"	18"x18"	15"x15"(TWIN)	15"x15"(TWIN)	15"x15"(TWIN)	15"x15"(TWIN)
	Quantity -Nos.	1	1	1	1	1	1	1	1
POWER SUPPLY	V / Ph / Hz	380/400V / 3Ph / 60Hz							
BLOWER MOTOR	Motor H.P	1 1/2	1 1/2	3	3	5	5	5	5
	Motor RPM	1,750	1,740	1,740	1,740	1,740	1,750	1,750	1,750
	No. of Speeds	1							
EVAPORATOR COIL	Type	Corrugated Fin & Inner grooved Tube							
	Tube - Dia - Row - FPI	3/8"-4-16	3/8"-4-14	3/8"-4-14	3/8"-4-14	3/8"-4-14	3/8"-4-14	1/2"-4-14	1/2"-4-14
	Total face area (sq.ft)	7.00	10.24	10.24	16.49	21.53	21.53	21.53	21.53
AIR FILTER	Type	Aluminum Filter							
	Size - W x H x T (mm)	343 x 1021 x 25	627 x 399 x 25	627 x 399 x 25	699 x 633 x 50	597 x 633 x 50	597 x 633 x 50	597 x 633 x 50	597 x 633 x 50
	Quantity	2	4	4	2	3	3	3	3
REFRIGERANT LINES	Suction Line conn. (Inch)	7/8	7/8	7/8	7/8	7/8	1 3/8	1 3/8	1 3/8
	Liquid Line conn. (Inch)	1/2	1/2	1/2	1/2	1/2	7/8	7/8	7/8
DRAIN FITTING	Connection size (Inch)	1	1	1	1	1	1	1	1
UNIT DIMENSIONS	W x D x H (mm)	1071 x 1342 x 605	1364 x 1528 x 760	1364 x 1528 x 760	1603 x 2158 x 940	2000 x 2156 x 940	2000 x 2156 x 940	2000 x 2156 x 940	2000 x 2156 x 940
OUTDOOR									
MODEL / UNIT		3ODH072	3ODH090	3ODH120	3ODH150	3ODH180	3ODH216	3ODH240	3ODH300
RATED CAPACITY @T1 *	Cooling Btu/Hr	71,000	89,000	123,000	150,000	180,000	230,000	246,000	272,000
RATED POWER CONSUMPTION @T1	Watts	6,340	7,945	10,980	13,635	16,365	20,910	24,600	27,200
EER @T1 *		11.20	11.20	11.20	11.00	11.00	11.00	10.00	10.00
RATED CAPACITY @T3 **	Cooling Btu/Hr	65,000	81,000	115,000	132,000	150,000	204,000	214,000	226,000
RATED POWER CONSUMPTION @T3 **	Watts	7,570	9,700	13,555	15,600	19,000	25,430	30,195	33,115
EER @T3 **		8.59	8.35	8.48	8.46	7.89	8.02	7.09	6.82
REFRIGERATION SYSTEM	Type	R-410A							
	Circuit	Single	Single	Dual	Dual	Dual	Dual	Dual	Dual
	Total Ref. Charge (Kg)	7.7	11.5	16.0	23.0	26.0	34.0	36.0	41.0
POWER SUPPLY	V / Ph / Hz	380/400V / 3Ph / 60Hz							
COMPRESSOR	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	Quantity Nos.	1	1	2	2	2	2	2	2
CONDENSER FAN	Type	Propeller fan drive							
	Size-Dia x Width(Inch)	26"	26"	26"	26"	26"	26"	26"	26"
	Quantity Nos.	1	1	2	2	2	4	4	4
CONDENSER MOTOR	Motor H.P	1/2	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	Motor RPM	1,100	1200	1200	1200	1200	1200	1200	1200
	Quantity Nos.	1	1	2	2	2	4	4	4
CONDENSER COIL	Type	Corrugated Fin & Inner grooved Tube							
	Tube - Dia - Row - FPI	5/16"-3-15	3/8"-3-15	3/8"-2-14	3/8"-3-15	3/8"-4-14	3/8"-3-14	3/8"-3-14	3/8"-4-14
	No. of Coils	2	2	2	2	2	2	2	2
	Face area per coil	11.69	11.50	20.42	20.10	20.25	23.24	23.24	23.24
	Total face area (sq.ft)	23.38	23.00	40.84	40.20	40.50	46.48	46.48	46.48
REFRIGERANT LINES	Suction valve conn. (Inch)	7/8	7/8	7/8	7/8	7/8	1 3/8	1 3/8	1 3/8
	Liquid Valve conn. (Inch)	1/2	1/2	1/2	1/2	1/2	7/8	7/8	7/8
UNIT DIMENSIONS	W x D x H (mm)	900 x 975 x 900	900 x 975 x 900	1157 x 1950 x 1348	1157 x 1950 x 1348	2023 x 1119 x 1373	2150 x 2000 x 1471	2150 x 2000 x 1471	2150 x 2000 x 1471

NOTES:

Refrigerant charge given above is for a set unit.

Refrigerant charge given above is for 25 feet piping connection.

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 115°F DBT outdoor .

Data given in the above table are draft data and subject to further changes. Final data will be given only upon test completion.

CENTRAL DUCTED SPLIT UNITS

PRODUCT DATA BOOK - R410A

COOLING PERFORMANCE

3IDH072EC1 + 3ODH072EC1

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPERATURE (°F)														
				85			95			105			115			125		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
3IDH072EC1 + 3ODH072EC1	2100	84.2	66.2	71457	62539	5.67	68142	61282	6.30	65635	60972	6.92	62742	60366	7.57	58464	58108	8.31
		82	69	75345	52478	5.67	71800	51106	6.34	69249	50480	6.92	66188	49671	7.57	61316	47651	8.31
			66.2	72715	56594	5.67	69285	55222	6.30	66684	54793	6.92	63693	54068	7.57	59059	52166	8.31
			65	69971	60367	5.62	66655	59110	6.30	64353	58873	6.92	61435	58227	7.53	56920	56325	8.31
			63	68142	64712	5.62	64597	62425	6.30	62371	62371	6.92	60247	60247	7.53	56563	56563	8.31
		80.6	69	75230	48591	5.67	71686	47219	6.34	69132	46516	6.92	66188	45631	7.57	61316	43729	8.31
			66.2	72715	52707	5.67	69285	51335	6.30	66684	50829	6.92	63693	50027	7.57	59059	48126	8.31
			65	69971	56480	5.62	66655	55222	6.30	64353	54793	6.92	61435	54186	7.53	56920	52285	8.31
			63	66884	62882	5.62	63683	61396	6.30	61322	59923	6.88	58940	58940	7.53	55256	55256	8.31
		78	69	75230	44704	5.67	71686	43332	6.34	69132	42669	6.92	66069	41709	7.57	61197	39689	8.31
			66.2	72601	48820	5.67	69171	47562	6.30	66684	46866	6.92	63693	46106	7.57	58940	44205	8.31
			65	69857	52593	5.62	66655	51335	6.30	64353	50946	6.92	61435	50265	7.53	56801	48364	8.31
			63	66770	58995	5.62	63683	57509	6.30	61088	56891	6.88	57989	55969	7.53	53949	53949	8.31
		76	69	75002	40816	5.67	71457	39444	6.34	68899	38588	6.92	65832	37550	7.57	61079	35649	8.31
			66.2	72372	44818	5.67	68942	43560	6.30	66451	42902	6.92	63455	41947	7.57	58821	40046	8.31
			65	69742	48705	5.62	66427	47333	6.30	64119	46866	6.92	61197	46106	7.53	56682	44205	8.31
			63	66655	55108	5.62	63454	53622	6.30	61088	53044	6.88	57751	51810	7.53	53473	50146	8.31
	2500	84.2	66.2	73515	69056	5.67	69971	67684	6.34	67733	67034	6.92	65000	63148	7.57	60960	60960	8.31
		82	69	77288	56937	5.71	73630	55565	6.34	70881	54910	6.92	67258	54068	7.57	62148	52285	8.31
			66.2	74659	61968	5.67	71000	60596	6.34	68433	60156	6.92	65238	59534	7.57	60366	57514	8.31
			65	72029	66655	5.67	68599	65283	6.30	66101	64936	6.92	63336	63336	7.57	59296	59296	8.31
			63	70428	70314	5.67	67570	67570	6.30	65635	65635	6.92	63336	63336	7.57	59296	59296	8.31
		80.6	69	77288	52364	5.71	73630	50992	6.34	70881	50363	6.92	67377	49433	7.57	62148	47532	8.31
			66.2	74659	57395	5.67	71000	55908	6.34	68433	55492	6.92	65238	54662	7.57	60366	52761	8.31
			65	72029	62082	5.67	68599	60710	6.30	65985	60389	6.92	62980	59771	7.57	58346	57633	8.31
			63	68942	68828	5.62	66084	66084	6.30	64119	64119	6.92	61792	61792	7.53	57870	57870	8.31
		78	69	77174	47905	5.71	73515	46533	6.34	70765	45816	6.92	67377	44918	7.57	62029	42898	8.31
			66.2	74544	52936	5.67	71000	51449	6.34	68316	50946	6.92	65238	50027	7.57	60366	48126	8.31
			65	71915	57623	5.67	68485	56251	6.30	65985	55842	6.92	62861	55137	7.57	58108	53117	8.31
			63	68370	64369	5.62	64940	62654	6.30	62954	62487	6.92	60366	60366	7.53	56444	56444	8.31
		76	69	76945	43332	5.67	73287	41845	6.34	70648	41036	6.92	67377	40165	7.57	61792	38026	8.31
			66.2	74316	48248	5.67	70771	46876	6.34	68083	46166	6.92	65000	45274	7.57	60128	43254	8.31
			65	71800	52936	5.67	68370	51564	6.30	65752	51062	6.92	62742	50265	7.57	57989	48364	8.31
			63	68370	59910	5.62	64597	58195	6.30	62138	57824	6.92	59296	57276	7.53	55018	55018	8.31
	2700	84.2	66.2	74316	72143	5.67	71114	70314	6.34	68666	68666	6.92	66307	66307	7.57	62148	62148	8.31
		82	69	78203	59110	5.71	74316	57623	6.34	71231	57125	6.92	67614	56325	7.57	62742	54662	8.31
			66.2	75459	64483	5.67	71800	63111	6.34	69016	62720	6.92	65832	62148	7.57	60960	59771	8.31
			65	72829	69628	5.67	69399	68027	6.30	67034	67034	6.92	64644	64644	7.57	60484	60484	8.31
			63	72029	71915	5.67	69056	69056	6.30	67034	67034	6.92	64644	64644	7.57	60484	60484	8.31
		80.6	69	78203	54193	5.71	74316	52707	6.34	71347	52228	6.96	67495	51216	7.57	62623	49671	8.31
			66.2	75459	59567	5.67	71800	58195	6.34	69132	57708	6.92	65951	56920	7.57	60960	55018	8.31
			65	72829	64712	5.67	69285	63340	6.30	66684	62954	6.92	63574	62386	7.57	59059	59059	8.31
			63	70428	70314	5.67	67456	67456	6.30	65518	65518	6.92	63099	63099	7.57	59059	59059	8.31
		78	69	78089	49391	5.71	74201	47905	6.34	71347	47332	6.96	67614	46344	7.57	62623	44680	8.31
			66.2	75345	54765	5.67	71686	53393	6.34	69016	52811	6.92	65832	52048	7.57	60841	50027	8.31
			65	72829	59910	5.67	69285	58538	6.30	66568	58174	6.92	63455	57395	7.57	58583	55494	8.31
			63	69171	66655	5.62	65969	65512	6.30	64003	64003	6.92	61554	61554	7.53	57633	57633	8.31
		76	69	77860	44475	5.71	74087	42989	6.34	71114	42319	6.92	67614	41353	7.57	62386	39452	8.31
			66.2	75116	49849	5.67	71457	48362	6.34	68783	47798	6.92	65594	46819	7.57	60722	44799	8.31
			65	72601	54994	5.67	69056	53507	6.30	66451	53044	6.92	63336	52285	7.57	58464	50265	8.31
			63	68599	62082	5.62	65283	60710	6.30	62837	60389	6.92	60247	59653	7.53	56088	56088	8.31

LEGEND
 TC: Total Cooling Capacity
 SC: Sensible Cooling Capacity
 PI: Total Input Power
 DBT: Dry Bulb Temperature
 WBT: Wet Bulb Temperature

CENTRAL DUCTED SPLIT UNITS

PRODUCT DATA BOOK - R410A

COOLING PERFORMANCE

3IDH090EC1 + 3ODH090EC1

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPERATURE (°F)														
				85			95			105			115			125		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
3IDH090EC1 + 3ODH090EC1	2600	84.2	66.2	88122	75941	6.76	84720	74624	7.75	82585	74651	8.66	79180	74060	9.63	74573	72176	11.07
		82	69	93280	63979	6.87	90646	62991	8.02	88173	62693	8.95	83503	61319	9.74	77682	58914	10.95
			66.2	89658	68808	6.76	86586	67600	7.83	84261	67499	8.77	80545	66552	9.66	75631	64458	11.02
			65	86256	73307	6.72	82635	71990	7.68	80350	71857	8.55	77473	71444	9.52	73379	69777	10.97
			63	84171	78684	6.72	79782	76709	7.56	77333	75656	8.36	74857	74857	9.30	71179	72756	10.71
		80.6	69	93170	59260	6.87	90536	58273	8.02	88173	57888	8.95	83503	56427	9.74	77682	54030	10.95
			66.2	89658	64089	6.76	86586	62882	7.83	84261	62581	8.77	80545	61660	9.70	75631	59678	11.10
			65	86256	68588	6.72	82635	67271	7.68	80350	67052	8.55	77473	66552	9.52	73379	64888	10.97
			63	82745	76599	6.72	78355	74624	7.48	75880	74204	8.25	73037	73037	9.13	69057	70617	10.44
		78	69	93170	54651	6.87	90427	53663	8.02	88061	53194	8.95	83389	51649	9.74	77569	49262	10.95
			66.2	89549	59480	6.76	86476	58273	7.83	84150	57888	8.77	80431	56882	9.66	75518	54905	11.02
			65	86147	63979	6.72	82525	62662	7.64	80238	62358	8.55	77360	61774	9.52	73265	60113	10.97
			63	82745	71990	6.72	78355	70015	7.48	75768	69510	8.25	72354	68372	9.09	67872	66064	10.36
		76	69	92841	49822	6.87	90097	48835	8.02	87726	48277	8.95	83162	46757	9.74	77441	44484	10.95
			66.2	89329	54651	6.76	86147	53444	7.83	83926	53082	8.77	80204	51876	9.66	75291	49801	11.02
			65	86037	59260	6.72	82306	57834	7.64	80015	57441	8.51	77132	56768	9.48	73038	55112	10.93
			63	82525	67162	6.72	78136	65186	7.48	75433	64481	8.21	72354	63480	9.09	68173	61390	10.41
	3050	84.2	66.2	90317	82196	6.79	87134	80989	7.87	84820	81021	8.81	81000	80204	9.70	75984	77991	11.05
		82	69	95584	68369	6.99	93280	67600	8.18	90631	67163	9.07	84868	65528	9.66	78066	62802	10.65
			66.2	91853	73965	6.83	88890	72868	7.95	86496	72751	8.88	82138	71785	9.74	76619	69580	11.04
			65	88342	79233	6.76	84940	78026	7.75	82697	78003	8.69	79180	77473	9.63	74472	75586	11.03
			63	85927	83842	6.72	82416	82416	7.64	80685	80685	8.55	78383	78383	9.56	74801	74801	11.05
		80.6	69	95584	63101	6.99	93280	62223	8.18	90631	61799	9.07	84868	59954	9.66	78066	57135	10.65
			66.2	91853	68588	6.83	89000	67491	7.95	86496	67275	8.88	82138	66097	9.74	76619	63791	11.04
			65	88342	73965	6.76	84940	72649	7.75	82697	72527	8.69	79180	71899	9.63	74472	70016	11.03
			63	84610	82416	6.72	80440	80440	7.56	78562	78562	8.43	76336	76336	9.45	72861	72861	10.95
		78	69	95475	57834	6.99	93170	56956	8.18	90520	56435	9.07	84868	54493	9.66	78162	51687	10.65
			66.2	91744	63430	6.83	88890	62333	7.95	86496	62023	8.88	82138	60750	9.74	76619	58451	11.04
			65	88342	68698	6.76	84830	67381	7.75	82585	67275	8.69	79066	66438	9.63	74358	64452	11.03
			63	84501	77148	6.72	79891	75063	7.56	76998	74427	8.32	74857	73833	9.30	71489	71948	10.76
		76	69	95145	52346	6.95	92841	51578	8.14	90184	50959	9.03	84640	49032	9.66	78033	46344	10.70
			66.2	91524	57943	6.83	88561	56846	7.95	86161	56435	8.88	81910	55062	9.74	76492	52772	11.04
			65	88122	63211	6.76	84610	62004	7.75	82362	61687	8.66	78952	60864	9.59	74346	58989	10.99
			63	84391	71661	6.72	80001	69686	7.56	76662	68951	8.29	73833	68600	9.23	69851	67043	10.64
	3300	84.2	66.2	91414	85927	6.83	88451	84830	7.95	86161	84820	8.88	82251	82251	9.74	77131	78350	11.04
		82	69	97011	71112	7.02	94707	70344	8.25	91861	69957	9.10	85323	68031	9.63	77849	64988	10.53
			66.2	92951	77148	6.87	90207	76160	8.02	87726	75992	8.95	82934	74857	9.74	77018	72435	10.95
			65	89439	82855	6.76	86256	81757	7.83	83814	81691	8.73	80317	80317	9.66	75605	77571	11.06
			63	87573	87573	6.72	84610	84610	7.75	82920	82920	8.69	80204	80204	9.66	76204	76204	11.11
		80.6	69	96901	65406	7.02	94707	64637	8.25	91861	64146	9.10	85437	62115	9.63	78057	59085	10.53
			66.2	93060	71332	6.87	90317	70344	8.02	87726	70069	8.95	82934	68827	9.74	77018	66412	10.95
			65	89549	77148	6.76	86256	75941	7.83	83814	75880	8.73	80090	75084	9.66	75178	72983	11.06
			63	85708	85708	6.72	82416	82416	7.64	80574	80574	8.55	78156	78156	9.56	74470	74470	11.05
		78	69	96792	59809	7.02	94597	58931	8.25	91749	58447	9.10	85437	56427	9.63	78152	53514	10.53
			66.2	92951	65735	6.87	90207	64747	8.02	87614	64369	8.95	82934	63025	9.74	77116	60618	10.95
			65	89439	71551	6.76	86147	70344	7.83	83814	70181	8.73	79976	69282	9.66	74964	67186	11.06
			63	85049	80221	6.72	80879	77916	7.60	78786	78450	8.43	76222	76222	9.41	72438	72747	10.86
		76	69	96462	53883	7.02	94268	53115	8.21	91414	52412	9.10	85209	50397	9.66	78022	47604	10.61
			66.2	92731	59919	6.87	89878	58931	7.98	87390	58447	8.92	82706	56996	9.74	76890	54598	10.99
			65	89219	65735	6.76	85927	64528	7.79	83479	64146	8.73	79749	63253	9.66	74838	61269	11.06
			63	85159	74514	6.72	80330	72429	7.56	77780	72192	8.36	74857	71785	9.30	70770	70118	10.71

LEGEND
TC: Total Cooling Capacity
SC: Sensible Cooling Capacity
PI: Total Input Power
DBT: Dry Bulb Temperature
WBT: Wet Bulb Temperature

CENTRAL DUCTED SPLIT UNITS

PRODUCT DATA BOOK - R410A

COOLING PERFORMANCE

3IDH120EC2 + 3ODH120EC2

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPERATURE (°F)														
				85			95			105			115			125		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
3IDH120EC2 + 3ODH120EC2	3500	84.2	66.2	123346	104556	9.51	118043	102481	10.93	115656	103307	12.23	112678	103757	13.64	105712	100824	15.55
		82	69	130378	88532	9.55	124499	86112	10.98	121712	86208	12.23	118300	85792	13.42	110600	82614	15.07
			66.2	125421	94988	9.51	120003	92798	10.98	117556	93214	12.23	114389	93247	13.60	107179	90313	15.47
			65	121617	101674	9.51	115507	98907	10.93	113281	99744	12.23	110356	100090	13.64	103757	97402	15.69
			63	118043	108821	9.51	112740	106400	10.93	110194	106750	12.23	107056	106812	13.69	101435	101435	15.73
		80.6	69	130378	82077	9.55	124499	79771	10.98	121712	79677	12.23	118177	79070	13.42	110600	75893	15.07
			66.2	125421	88532	9.51	120003	86457	10.98	117675	86683	12.23	114389	86403	13.60	107179	83470	15.47
			65	121847	95334	9.51	115507	92567	10.93	113281	93095	12.23	110356	93369	13.64	103757	90680	15.69
			63	116083	105824	9.51	110781	103403	10.93	108413	103782	12.23	105468	104001	13.64	99235	99235	15.73
		78	69	130147	75967	9.55	124383	73662	10.98	121593	73265	12.23	118177	72471	13.42	110478	69293	15.07
			66.2	125306	82307	9.51	119888	80232	10.93	117556	80271	12.23	114389	79926	13.60	107179	76870	15.47
			65	121963	89224	9.51	115507	86457	10.93	113163	86801	12.23	110234	86769	13.69	103634	84081	15.69
			63	115968	99599	9.51	110781	97178	10.93	108413	97370	12.23	105345	97279	13.64	97891	93735	15.73
		76	69	129801	69396	9.55	124037	67206	10.98	121237	66615	12.23	117811	65627	13.47	110234	62572	15.11
			66.2	124960	75852	9.51	119542	73662	10.93	117200	73621	12.23	114022	73082	13.60	106812	70027	15.47
			65	121617	82769	9.51	115507	80117	10.93	112925	80033	12.23	109989	79803	13.69	103390	77115	15.69
			63	115738	93028	9.51	110550	90607	10.93	108057	90720	12.19	105101	90313	13.64	97891	87014	15.73
	4050	84.2	66.2	126574	113432	9.51	120925	111242	10.98	118387	112213	12.23	115000	112678	13.56	107912	107912	15.38
		82	69	133490	94642	9.60	127265	92106	11.03	124324	92264	12.19	120499	91902	13.29	112067	88603	14.80
			66.2	128649	102366	9.55	122885	100060	10.98	120168	100576	12.23	116589	100579	13.51	109012	97524	15.24
			65	123922	109513	9.51	118389	107322	10.93	115894	108175	12.23	112800	108767	13.64	106079	105345	15.55
			63	120810	117351	9.51	115161	115046	10.93	113519	113519	12.23	111456	111456	13.64	105468	105468	15.55
		80.6	69	133490	87380	9.60	127265	84959	11.03	124206	84783	12.19	120499	84203	13.29	112067	81026	14.84
			66.2	128764	94988	9.55	123000	92798	10.98	120168	92976	12.23	116589	92880	13.51	109012	89702	15.24
			65	123922	102250	9.51	118389	100060	10.93	116012	100694	12.23	112800	101068	13.64	105712	98135	15.55
			63	118965	114124	9.51	113432	111588	10.93	111144	111144	12.23	109012	109012	13.69	103268	103268	15.69
		78	69	133375	80348	9.60	127035	77812	11.03	124087	77421	12.19	120377	76748	13.33	111945	73448	14.84
			66.2	128533	87956	9.55	122885	85766	10.98	120050	85733	12.23	116589	85303	13.51	109012	82248	15.29
			65	123807	95218	9.51	118274	93028	10.93	115894	93451	12.23	112800	93491	13.64	105590	90558	15.55
			63	118850	107092	9.51	113432	104556	10.93	110313	104732	12.23	107056	104245	13.69	100946	100946	15.73
		76	69	132914	72970	9.60	126689	70549	11.03	123731	69940	12.19	120011	68927	13.33	111700	65627	14.89
			66.2	128187	80578	9.51	122424	78273	10.98	119693	78133	12.23	116222	77481	13.51	108645	74426	15.29
			65	123576	87725	9.51	118043	85650	10.93	115537	85852	12.23	112434	85670	13.64	105345	82736	15.60
			63	118619	99599	9.51	113201	97178	10.93	110431	97251	12.23	106323	96791	13.64	99724	94102	15.73
	4500	84.2	66.2	128649	120349	9.55	122885	118043	10.98	120287	118743	12.23	117078	117078	13.51	110478	110478	15.07
		82	69	135565	99368	9.65	129110	96832	11.03	125749	96776	12.14	121599	96913	13.24	112434	93369	14.75
			66.2	130839	108129	9.55	124729	105709	10.98	121712	106157	12.23	118055	106323	13.47	110234	103146	15.11
			65	125997	116199	9.51	120349	113893	10.98	117675	114944	12.23	114756	114145	13.60	108156	108156	15.38
			63	123346	123000	9.51	118504	118504	10.93	116725	116725	12.23	114389	114389	13.60	108156	108156	15.38
		80.6	69	135450	91414	9.65	128994	88878	11.03	125749	88701	12.14	121477	88358	13.24	112556	85058	14.75
			66.2	130839	100060	9.55	124729	97639	10.98	121831	97963	12.23	118055	97768	13.47	110234	94591	15.11
			65	125997	108129	9.51	120349	105939	10.98	117793	106632	12.23	114267	106934	13.60	106934	103879	15.47
			63	121156	119657	9.51	115968	115968	10.93	114231	114231	12.23	111945	111945	13.64	105834	105834	15.55
		78	69	135335	83691	9.65	128879	81039	11.03	125631	80746	12.14	121355	80048	13.24	112678	76870	14.71
			66.2	130724	92336	9.55	124614	89916	10.98	121712	89889	12.23	117933	89580	13.47	110112	86403	15.11
			65	125882	100406	9.51	120233	98100	10.98	117675	98676	12.23	114267	98746	13.60	106812	95691	15.47
			63	120464	112740	9.51	114354	110089	10.93	112331	109956	12.23	109501	109501	13.69	103512	103512	15.69
		76	69	134989	75621	9.65	128533	73085	11.03	125512	72434	12.14	120988	71493	13.29	112678	68560	14.71
			66.2	130378	84152	9.55	124268	81846	10.98	121356	81577	12.23	117689	81026	13.47	109867	77848	15.15
			65	125536	92221	9.51	119888	90031	10.93	117319	90245	12.23	113900	90069	13.60	106567	87136	15.51
			63	120233	104671	9.51	114470	102250	10.93	110906	102238	12.23	107790	102657	13.69	101435	99601	15.73

LEGEND
 TC: Total Cooling Capacity
 SC: Sensible Cooling Capacity
 PI: Total Input Power
 DBT: Dry Bulb Temperature
 WBT: Wet Bulb Temperature

CENTRAL DUCTED SPLIT UNITS

PRODUCT DATA BOOK - R410A

COOLING PERFORMANCE

3IDH150EC2 + 3ODH150EC2

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPERATURE (°F)														
				85			95			105			115			125		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
3IDH150EC2 + 3ODH150EC2	4000	84.2	66.2	146237	121426	11.91	140455	119101	13.38	133441	115890	14.33	126233	112448	15.35	118485	109294	17.61
		82	69	153549	103804	11.85	149327	102244	13.63	142596	99369	14.74	134102	95629	15.71	123080	90853	17.51
			66.2	148195	110749	11.88	142994	108760	13.44	136170	105735	14.45	128636	102296	15.48	120046	98692	17.66
			65	144401	118825	11.96	138191	115919	13.34	129895	111525	14.15	122870	108273	15.14	116112	105600	17.45
			63	139782	126565	12.11	133112	123384	13.28	125378	119255	13.95	118304	115391	14.80	111246	111246	16.95
		80.6	69	153426	96737	11.85	149205	95085	13.62	142445	92154	14.73	133952	88481	15.70	123020	83975	17.52
			66.2	148134	103743	11.88	142933	101723	13.43	136109	98762	14.45	128576	95418	15.48	119986	91814	17.66
			65	144340	111819	11.96	138283	109005	13.34	129834	104583	14.15	122810	101395	15.13	116082	98722	17.44
			63	137579	123261	12.20	130665	119957	13.28	122680	115708	13.82	115451	111697	14.58	109625	108964	16.75
		78	69	153151	89058	11.85	148899	87375	13.60	142111	84515	14.72	133682	80912	15.69	122870	76497	17.53
			66.2	147920	96920	11.89	142658	94932	13.43	135806	92033	14.43	128336	88751	15.47	119836	85207	17.66
			65	144157	105058	11.96	138252	102366	13.34	129773	97974	14.15	122599	94698	15.12	115872	92055	17.43
			63	137426	116439	12.21	130543	113135	13.28	122528	108918	13.81	115271	104969	14.57	109414	102206	16.72
		76	69	152570	81042	11.85	148256	79360	13.59	141414	76512	14.69	133081	73043	15.67	122569	68748	17.57
			66.2	147400	89302	11.89	142076	87253	13.42	135169	84303	14.41	127795	81062	15.44	119476	77668	17.65
			65	143759	97685	11.98	137671	95176	13.33	129561	91093	14.14	122089	87640	15.09	115451	85057	17.38
			63	137090	109341	12.22	130145	106007	13.28	122104	101854	13.80	114851	97941	14.52	108994	95178	16.67
	5000	84.2	66.2	151989	137304	11.85	147461	135590	13.57	140414	132259	14.65	132000	128216	15.60	121788	121788	17.64
		82	69	159637	115123	11.94	156792	114236	13.90	149932	111282	15.03	139749	106771	15.78	125032	99954	16.90
			66.2	154252	124210	11.85	150061	122649	13.65	143142	119497	14.76	134283	115421	15.71	122960	110496	17.53
			65	148990	132653	11.86	143759	130634	13.46	136746	127348	14.47	128876	123530	15.50	119956	119806	17.66
			63	145227	142229	11.94	138130	138130	13.34	131562	131562	14.23	124431	124431	15.24	118094	118094	17.58
		80.6	69	159484	106649	11.93	156608	105731	13.90	149720	102855	15.03	139569	98422	15.78	125032	91664	16.90
			66.2	154191	115613	11.85	150000	114083	13.64	143051	110979	14.76	134223	106982	15.71	122930	102086	17.53
			65	148960	124087	11.86	143698	122068	13.46	136685	118830	14.47	128816	115121	15.49	119926	111397	17.66
			63	142902	138344	12.00	136416	135285	13.32	128288	128288	14.08	121128	121128	15.01	115421	115421	17.38
		78	69	159209	98205	11.93	156241	97043	13.87	149326	94155	15.01	139268	90313	15.78	124912	83675	16.96
			66.2	153977	107322	11.85	149694	105762	13.64	142748	102734	14.75	133952	98842	15.70	122780	93977	17.54
			65	148776	115766	11.88	143453	113716	13.44	136412	110555	14.46	128606	106952	15.48	119776	103257	17.65
			63	142780	129961	12.00	136264	126871	13.31	128197	122377	14.07	119866	117824	14.92	113439	113439	17.19
		76	69	158597	88262	11.91	155476	87008	13.85	148568	84121	14.98	138668	80401	15.78	124732	75476	17.05
			66.2	153488	98695	11.85	149082	97073	13.62	142081	94124	14.72	133382	90343	15.68	122509	85627	17.57
			65	148317	107047	11.88	142902	104966	13.43	135806	101854	14.43	128096	98392	15.46	119446	94758	17.65
			63	142382	121273	12.01	135835	118152	13.31	128167	114162	14.07	119566	109324	14.90	113048	106741	17.14
	6200	84.2	66.2	156853	154987	11.88	153212	153212	13.76	146385	146385	14.90	137076	137076	15.77	125002	125002	16.92
		82	69	165236	127697	12.11	163675	127422	14.19	156450	124256	15.23	143443	118274	15.69	125753	110946	16.34
			66.2	159178	138864	11.93	156149	137885	13.87	149114	134593	15.00	138848	129808	15.78	124612	123350	17.11
			65	153947	149663	11.85	149541	148042	13.63	142414	142414	14.73	133952	133021	15.70	123440	123440	17.45
			63	151010	150948	11.85	146788	146788	13.54	140626	140626	14.65	133261	133261	15.68	123410	123410	17.46
		80.6	69	165083	117357	12.10	163431	117081	14.18	156177	114041	15.23	143533	108393	15.69	125723	100915	16.37
			66.2	159117	128432	11.93	156058	127422	13.87	149023	124256	15.00	138788	119566	15.78	124612	113078	17.12
			65	153885	139262	11.85	149480	137610	13.63	142323	134199	14.73	133382	129928	15.68	122329	122329	17.60
			63	147920	147797	11.89	143086	143086	13.44	136715	136715	14.47	129747	129747	15.54	121458	121458	17.65
		78	69	164746	107291	12.09	163002	107016	14.17	155722	104037	15.22	143503	98782	15.69	125633	91124	16.44
			66.2	158872	118336	11.91	155721	117326	13.86	148659	114253	14.98	138517	109685	15.78	124491	103287	17.15
			65	153702	129166	11.85	149235	127483	13.62	142081	124165	14.72	133141	120016	15.68	122209	115271	17.61
			63	145931	144218	11.93	140455	140455	13.38	133229	133229	14.31	126263	126263	15.35	119115	119115	17.64
		76	69	164042	96890	12.06	162115	96523	14.13	154873	93670	15.20	142932	88511	15.71	125483	81032	16.59
			66.2	158291	107873	11.90	155017	106802	13.82	147931	103825	14.96	137947	99413	15.78	124311	93196	17.22
			65	153212	118611	11.85	148654	116898	13.60	141475	113677	14.69	132631	109625	15.66	121939	105029	17.63
			63	145839	133877	11.93	139506	131277	13.36	131956	127652	14.26	124311	123891	15.24	116893	116893	17.50

LEGEND
TC: Total Cooling Capacity
SC: Sensible Cooling Capacity
PI: Total Input Power
DBT: Dry Bulb Temperature
WBT: Wet Bulb Temperature

CENTRAL DUCTED SPLIT UNITS

PRODUCT DATA BOOK - R410A

COOLING PERFORMANCE

3IDH180EC2 + 3ODH180EC2

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPERATURE (°F)														
				85			95			105			115			125		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
3IDH180EC2 + 3ODH180EC2	4800	84.2	66.2	174367	143735	14.10	168133	141386	15.85	156007	134219	17.15	143715	126824	18.60	133522	122067	21.12
		82	69	183825	123012	14.24	179157	121325	16.33	166799	114932	17.79	152357	107520	19.10	141551	103487	21.69
			66.2	177078	131235	14.12	171325	129066	15.98	159294	122408	17.35	146380	115208	18.79	135999	110887	21.34
			65	172259	140663	14.10	165181	137259	15.74	151905	129157	16.89	139955	122138	18.30	132099	118996	21.08
			63	166596	149819	14.15	159066	146325	15.56	146407	138058	16.54	134736	130191	17.82	126824	126010	20.42
		80.6	69	183735	114729	14.24	179036	113042	16.31	166653	106933	17.78	152245	99832	19.10	138636	93855	21.09
			66.2	177048	122861	14.12	171325	120693	15.98	159265	114321	17.35	146352	107435	18.79	135999	103114	21.33
			65	172229	132289	14.10	165301	129066	15.74	151847	121070	16.89	139955	114366	18.30	132071	111223	21.08
			63	163976	145904	14.19	156145	142229	15.49	143236	133928	16.34	131481	125982	17.50	124972	122952	20.15
		78	69	183464	106235	14.23	178705	104398	16.30	166333	98468	17.76	151992	91639	19.09	138552	86055	21.11
			66.2	176807	114759	14.12	171024	112560	15.96	158974	106467	17.33	146100	99860	18.77	135859	95595	21.33
			65	172048	124187	14.10	165331	121145	15.74	151672	113303	16.88	139731	106762	18.28	131902	103676	21.06
			63	163855	137741	14.19	155994	134066	15.49	143091	126044	16.33	131341	118378	17.49	124776	115320	20.12
		76	69	182831	96807	14.22	177982	94910	16.27	165606	89305	17.72	151403	82856	19.07	138356	77441	21.16
			66.2	176175	106235	14.11	170361	104066	15.93	158276	98177	17.28	145567	91863	18.73	135550	87767	21.33
			65	171566	115753	14.10	164880	112741	15.73	151410	105275	16.86	139198	98765	18.23	131481	95763	21.00
			63	163464	129277	14.21	155542	125572	15.48	142625	117783	16.30	130864	110410	17.44	124327	107351	20.06
	6000	84.2	66.2	181837	162982	14.19	176747	161114	16.21	164181	153214	17.63	150000	144501	19.00	139062	139872	21.55
		82	69	191777	136807	14.51	188434	135753	16.78	175322	128721	18.22	158277	119865	19.18	146736	116026	21.76
			66.2	184699	147410	14.26	180030	145723	16.36	167410	138378	17.82	152525	129938	19.11	141403	125776	21.68
			65	178042	157380	14.14	172259	155211	16.01	159992	147542	17.39	146605	139282	18.80	135915	134820	21.33
			63	173012	168373	14.10	165392	163855	15.74	153679	152603	17.01	141779	141779	18.46	134231	134231	21.26
		80.6	69	191657	126657	14.50	188283	125572	16.78	175176	118918	18.20	158165	110410	19.18	139815	101768	20.29
			66.2	184669	137139	14.26	180000	135452	16.36	167351	128459	17.82	152497	120370	19.11	138552	114282	21.12
			65	178042	147169	14.14	172229	144970	16.01	159934	137680	17.39	146577	129770	18.80	135887	125281	21.33
			63	170422	163886	14.11	163193	160572	15.67	149985	149985	16.77	138103	138103	18.14	131453	131453	21.00
		78	69	191325	116717	14.49	187892	115633	16.76	174798	109318	18.19	157912	101207	19.20	139815	92621	20.29
			66.2	184428	127229	14.25	179699	125482	16.35	167061	118859	17.80	152245	111139	19.10	138468	105107	21.14
			65	177831	137199	14.14	171988	135030	16.00	159672	128052	17.37	146380	120483	18.79	135774	116049	21.33
			63	170271	153886	14.11	162982	150512	15.66	149723	141695	16.76	136672	133025	18.00	129265	129265	20.75
		76	69	190633	105572	14.46	187048	104187	16.71	173984	98119	18.15	157351	90853	19.20	139759	83333	20.39
			66.2	183855	116867	14.24	179006	115120	16.31	166362	108794	17.77	151712	101515	19.08	138272	95651	21.18
			65	177289	126777	14.12	171355	124548	15.98	159003	117929	17.34	145875	110774	18.75	135494	106453	21.32
			63	169849	143494	14.11	162500	140060	15.65	149665	131979	16.75	136251	123288	17.96	128872	120455	20.70
	7500	84.2	66.2	188283	185120	14.38	184187	183705	16.57	171744	171744	18.04	156033	156033	19.20	134974	144279	19.54
		82	69	199578	152711	14.87	197319	152169	17.24	183002	144313	18.51	161897	133193	19.06	140047	123160	19.40
			66.2	191386	165843	14.50	187892	164699	16.76	174595	156617	18.18	157492	146689	19.20	136236	135639	19.54
			65	184458	178614	14.26	179608	176837	16.34	166741	166741	17.79	152104	152104	19.09	131576	140647	19.43
			63	181205	181175	14.18	176657	176657	16.21	165112	165112	17.69	151964	151964	19.09	131455	140517	19.43
		80.6	69	199428	140271	14.86	197108	139729	17.23	182827	132270	18.50	161953	121801	19.05	140095	112626	19.39
			66.2	191355	153283	14.49	187831	152139	16.76	174537	144458	18.18	157435	134989	19.20	139675	126796	20.46
			65	184458	166084	14.25	179548	164307	16.34	166711	156239	17.78	151712	147082	19.08	138187	138187	21.19
			63	177289	177229	14.12	172078	172078	16.00	160515	160515	17.43	148176	148176	18.91	137682	137682	21.27
		78	69	199036	128133	14.83	196657	127590	17.21	182478	120605	18.49	161953	110746	19.06	140095	101459	19.46
			66.2	191084	141114	14.47	187470	139970	16.73	174217	132706	18.16	157211	123681	19.20	139646	115544	20.51
			65	184217	153946	14.25	179277	152139	16.33	166450	144458	17.77	151515	135746	19.07	138019	129910	21.23
			63	174548	171988	14.10	168735	168735	15.87	156094	156094	17.15	144304	144304	18.65	135522	135522	21.32
		76	69	198193	115512	14.80	195663	114910	17.16	181547	108358	18.46	161756	99242	19.07	140067	89955	19.63
			66.2	190392	128464	14.45	186657	127259	16.70	173460	120459	18.13	156678	111953	19.20	139534	104040	20.62
			65	183705	141235	14.24	178645	139367	16.30	165810	132124	17.73	151010	123906	19.05	137823	118210	21.25
			63	173976	159187	14.10	167289	156657	15.81	154610	148647	17.06	141891	140516	18.46	133249	133249	21.19

LEGEND
TC: Total Cooling Capacity
SC: Sensible Cooling Capacity
PI: Total Input Power
DBT: Dry Bulb Temperature
WBT: Wet Bulb Temperature

CENTRAL DUCTED SPLIT UNITS

PRODUCT DATA BOOK - R410A

COOLING PERFORMANCE

3IDH216EC2 + 3ODH216EC2

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPERATURE (°F)														
				85			95			105			115			125		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
3IDH216E C2 + 3ODH216E C2	6300	84.2	66.2	231344	193720	18.30	220818	189464	20.72	207166	182244	22.64	193886	174949	24.89	182373	170215	28.77
		82	69	240862	164270	17.98	233807	161694	21.00	221328	155566	23.30	206905	148589	25.56	191734	142133	29.02
			66.2	234143	176475	18.21	224513	172556	20.77	211338	165886	22.81	197867	158918	25.10	185278	153646	28.93
			65	229216	189800	18.40	216787	183642	20.68	201896	175547	22.42	188614	168386	24.51	178177	164190	28.47
			63	222610	202678	18.72	210180	196631	20.68	195199	187734	22.15	181082	178823	24.01	170861	170861	27.76
		80.6	69	240638	153184	17.98	233583	150497	21.00	221109	144588	23.30	206690	137722	25.56	191627	131481	29.02
			66.2	234143	165166	18.21	224401	161246	20.77	211228	154798	22.81	197759	148051	25.10	185171	142886	28.93
			65	229216	178491	18.40	216899	172556	20.68	201786	164459	22.42	188506	157519	24.51	178070	153323	28.47
			63	219250	197415	18.91	206597	191256	20.72	191247	182135	22.02	177424	173658	23.72	167633	167633	27.39
		78	69	240414	141538	17.98	233135	138739	20.96	220560	132841	23.26	206152	126209	25.51	191304	120291	29.02
			66.2	233807	154192	18.21	224065	150273	20.77	210789	144039	22.81	197329	137506	25.05	184848	132342	28.93
			65	228880	167629	18.40	217011	161918	20.68	201347	153590	22.42	188184	146975	24.51	177747	142778	28.43
			63	219026	186441	18.91	206373	180282	20.72	190917	171376	21.98	177209	163006	23.72	167633	158487	27.39
		76	69	239742	128549	18.02	232240	125638	20.96	219462	119996	23.21	205184	113620	25.47	190551	107703	29.02
			66.2	233023	142770	18.26	223169	138851	20.77	209801	132731	22.77	196468	126316	25.01	184203	121367	28.89
			65	228320	156207	18.44	216787	150609	20.68	200798	142392	22.37	187323	135785	24.43	176994	131696	28.35
			63	218466	175019	18.91	205701	168749	20.72	190369	160068	21.98	176563	151924	23.64	166880	147405	27.31
	7100	84.2	66.2	239518	221602	18.02	231792	218690	20.91	218693	211118	23.17	204000	202816	25.43	189905	189905	29.02
		82	69	244445	172892	17.88	239406	171212	21.19	227366	165228	23.57	212070	157734	25.76	194854	150310	28.85
			66.2	238286	187001	18.02	230000	183866	20.91	217156	177084	23.08	202816	169570	25.35	188722	163652	29.02
			65	231568	199878	18.30	221042	195623	20.72	207276	188173	22.64	193671	180652	24.85	182051	175918	28.77
			63	226865	215331	18.49	215107	209732	20.68	198602	198602	22.29	185924	185924	24.35	176671	176671	28.35
		80.6	69	244333	160463	17.88	239182	158783	21.19	227037	152932	23.57	211854	145791	25.72	194639	138367	28.85
			66.2	238174	174460	18.02	230000	171212	20.91	217046	164679	23.08	202709	157411	25.35	188614	151601	29.02
			65	231568	187449	18.30	220930	183082	20.72	207166	175877	22.64	193671	168601	24.85	181943	163867	28.77
			63	223617	209732	18.67	211076	203685	20.68	195968	194540	22.20	181620	181620	24.05	172152	172152	27.89
		78	69	243997	148369	17.93	238622	146465	21.14	226488	140745	23.52	211316	133848	25.72	194316	126854	28.89
			66.2	237838	162254	18.07	229552	159007	20.86	216607	152712	23.08	202278	145684	25.35	188291	139873	29.02
			65	231568	175467	18.30	220594	170876	20.72	206727	163800	22.64	193241	156766	24.85	181728	152139	28.72
			63	223393	197527	18.67	210852	191368	20.68	195638	182464	22.15	181190	173443	24.01	170000	168278	27.64
		76	69	243437	134036	17.93	237614	131685	21.10	225280	126144	23.48	210241	119538	25.68	193671	113835	28.93
			66.2	237278	149601	18.07	228656	146241	20.86	215619	140196	23.04	201310	133418	25.30	187646	127823	29.02
			65	231456	163038	18.30	219922	157999	20.72	205958	151175	22.59	192380	144392	24.76	180975	139873	28.68
			63	222833	184761	18.72	210180	178603	20.68	194980	169839	22.15	181082	161608	24.01	169247	155797	27.60
	8100	84.2	66.2	235487	206485	18.12	226081	202790	20.82	212984	195528	22.90	199051	187753	25.18	185924	182266	28.97
		82	69	247916	183082	17.88	245341	182522	21.42	233734	176645	23.87	217449	168494	25.89	197329	159778	28.60
			66.2	242093	199542	17.93	235487	197079	21.05	222865	190259	23.34	207873	182266	25.60	191949	175487	29.02
			65	235823	214547	18.12	226305	210852	20.82	212984	203323	22.90	198835	195285	25.14	185601	185601	28.93
			63	229888	229552	18.35	219138	219138	20.72	205958	205958	22.59	193886	193886	24.89	183880	183880	28.85
		80.6	69	247804	169085	17.88	245117	168525	21.42	233405	162812	23.83	217127	155044	25.89	197329	146329	28.60
			66.2	242093	185321	17.93	235487	182858	21.05	222755	176316	23.34	207766	168601	25.60	191842	161823	29.02
			65	235711	200438	18.12	226305	196631	20.82	212875	189380	22.90	198728	181620	25.14	185494	176133	28.93
			63	227760	224289	18.44	215331	215331	20.68	200688	200688	22.37	188614	188614	24.51	179361	179361	28.56
		78	69	247580	155424	17.88	244557	154752	21.38	232746	149418	23.83	216589	141918	25.89	197006	133310	28.64
			66.2	241870	171660	17.93	235039	169085	21.05	222316	162812	23.34	207335	155367	25.56	191519	148696	29.02
			65	235487	186665	18.12	225857	182858	20.82	212435	175877	22.90	198405	168386	25.14	185171	162899	28.93
			63	227648	210516	18.49	215555	204581	20.68	198712	194431	22.29	184848	184848	24.26	174949	174949	28.18
		76	69	246908	140755	17.88	243437	139411	21.33	231538	134378	23.74	215513	127930	25.85	196576	119968	28.68
			66.2	241310	157439	17.98	234143	154864	21.00	221218	148760	23.30	206367	141595	25.51	190873	135139	29.02
			65	234927	172332	18.16	225073	168413	20.77	211557	161605	22.86	197544	154506	25.10	184525	149127	28.89
			63	227089	196183	18.49	214995	190360	20.68	198493	180598	22.29	183880	172367	24.22	173551	168278	28.01

LEGEND
TC: Total Cooling Capacity
SC: Sensible Cooling Capacity
PI: Total Input Power
DBT: Dry Bulb Temperature
WBT: Wet Bulb Temperature

CENTRAL DUCTED SPLIT UNITS

PRODUCT DATA BOOK - R410A

COOLING PERFORMANCE

3IDH240EC2 + 3ODH240EC2

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPERATURE (°F)														
				85			95			105			115			125		
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW
3IDH240EC2 + 3ODH240EC2	7000	84.2	66.2	248618	208299	21.77	236784	203377	24.37	223013	196819	26.81	208985	189949	29.82	194657	184013	34.67
		82	69	259928	177405	21.50	250922	173844	24.78	238026	168140	27.68	222392	161088	30.78	203561	153515	35.00
			66.2	251760	189972	21.68	240764	185678	24.46	227258	179529	27.07	213079	172858	30.11	197420	166206	34.88
			65	246314	204633	21.86	233119	197931	24.33	217422	189571	26.50	203459	182888	29.32	190256	177463	34.21
			63	238774	217829	22.18	225683	211441	24.28	210796	203238	26.11	195476	194043	28.56	183502	183502	33.29
		80.6	69	259614	164000	21.50	250608	160439	24.78	237611	154784	27.64	222085	147989	30.74	203356	140415	35.00
			66.2	251550	178138	21.68	240554	173739	24.46	227051	167726	27.03	212874	161191	30.11	197318	154641	34.88
			65	246209	192799	21.86	233433	186411	24.33	217319	177769	26.46	203356	171220	29.32	190052	165796	34.17
			63	235004	212174	22.32	221704	205681	24.28	206448	197233	25.89	192099	189131	28.23	178896	178896	32.62
		78	69	259195	150909	21.54	249980	147349	24.74	236990	141842	27.59	221471	135093	30.70	202947	127622	35.05
			66.2	251132	165361	21.72	240031	161068	24.46	226533	155095	27.03	212363	148705	30.07	196909	142462	34.84
			65	245895	180023	21.86	233538	175206	24.33	216697	166276	26.46	202845	159963	29.27	189745	154538	34.13
			63	234690	200549	22.36	221390	194056	24.28	206137	185741	25.84	191791	177770	28.19	178896	171118	32.62
		76	69	258253	137295	21.54	248723	133630	24.69	235748	128176	27.55	220345	121686	30.66	202231	114420	35.05
			66.2	250608	151852	21.72	239088	147349	24.42	225394	141532	26.94	211237	135298	29.99	196192	129157	34.80
			65	245057	166409	21.91	232805	161696	24.33	216283	154266	26.41	201923	147784	29.19	188926	142667	34.04
			63	234061	187773	22.36	220656	181699	24.28	205412	173731	25.80	190973	165899	28.10	178794	159860	32.58
	7800	84.2	66.2	253017	220656	21.63	242020	216258	24.51	228500	209761	27.11	214000	202538	30.20	197830	195681	34.92
		82	69	264746	186935	21.50	256682	184107	25.01	243616	178286	27.99	227100	170709	30.99	206017	161293	34.84
			66.2	256368	200549	21.59	246209	196674	24.60	232952	190503	27.38	217889	183399	30.49	200388	175826	35.00
			65	248304	213430	21.82	236575	208718	24.37	222599	201996	26.76	208269	194964	29.73	193941	189028	34.59
			63	243277	230291	22.00	230605	224322	24.28	213799	213591	26.28	201207	201207	29.11	188926	188926	34.04
		80.6	69	264432	172692	21.50	256368	169446	24.97	243202	163688	27.99	226793	156483	30.99	205813	148705	34.84
			66.2	256158	187458	21.59	246000	183479	24.60	232745	177561	27.38	217684	170504	30.45	200286	163033	35.00
			65	248618	200654	21.77	236470	195627	24.37	222392	189054	26.76	208166	182069	29.73	193838	176133	34.59
			63	239402	224217	22.14	226207	217724	24.28	211107	209347	26.15	196090	196090	28.61	184116	184116	33.37
		78	69	263908	158135	21.50	255739	154889	24.97	242581	149193	27.94	226179	142155	30.95	205505	134786	34.88
			66.2	255739	174473	21.59	245476	170493	24.60	232124	164516	27.33	217173	157711	30.45	199979	150649	35.00
			65	248828	188506	21.77	235946	182851	24.37	221874	176423	26.72	207655	169583	29.69	193429	163749	34.54
			63	239193	211441	22.14	225893	204948	24.28	210796	196612	26.11	195578	187698	28.56	181352	180636	33.00
		76	69	262966	142950	21.50	254483	139599	24.92	241235	134077	27.86	224951	127213	30.91	204891	119946	34.92
			66.2	254902	159287	21.59	244324	155203	24.55	230882	149400	27.24	216149	142871	30.36	199263	136014	34.96
			65	249142	175729	21.77	234899	169341	24.37	220942	163067	26.68	206631	156483	29.61	192610	150649	34.46
			63	238460	198140	22.18	225160	191648	24.28	209968	183463	26.06	195476	175314	28.56	180534	167331	32.87
	8800	84.2	66.2	257625	235737	21.54	247676	231862	24.65	234402	225291	27.46	218810	217480	30.53	201616	201616	35.05
		82	69	269249	197407	21.50	262651	195208	25.28	249621	189364	28.34	231910	181250	31.20	207757	169890	34.54
			66.2	261080	213221	21.50	252179	209870	24.83	238750	203549	27.73	222597	195783	30.78	203152	187288	35.00
			65	253017	227987	21.63	241916	223589	24.51	228086	216801	27.11	213386	209395	30.15	197216	197216	34.88
			63	247047	244429	21.82	234899	234899	24.37	220735	220735	26.68	208166	208166	29.73	195578	195578	34.75
		80.6	69	269040	182955	21.50	262232	180232	25.24	249207	174766	28.29	231501	167127	31.16	207962	156176	34.50
			66.2	260976	198559	21.50	251969	195208	24.83	238543	189054	27.68	222392	181455	30.78	203049	172960	35.05
			65	252912	213326	21.63	241706	208927	24.51	227879	202306	27.07	213181	195066	30.15	197011	188209	34.88
			63	244010	238564	21.95	230920	230920	24.28	216490	216490	26.41	202742	202742	29.23	190973	190973	34.29
		78	69	268516	166513	21.50	261604	163791	25.19	248483	158408	28.25	230887	151775	31.16	207859	142769	34.50
			66.2	260452	184421	21.50	251341	180966	24.78	237922	174973	27.68	221880	167638	30.74	202742	159246	35.05
			65	252493	199083	21.68	241287	194685	24.46	227362	188122	27.07	212670	181148	30.11	196704	174393	34.84
			63	243696	224322	21.95	230920	218143	24.28	213695	207794	26.28	198956	198956	28.90	187391	187391	33.83
		76	69	267573	149443	21.50	260243	146616	25.15	247033	141117	28.16	229761	134786	31.12	207245	127110	34.63
			66.2	259614	168398	21.54	250084	164733	24.74	236783	158822	27.59	220857	151775	30.66	202128	144202	35.05
			65	251760	184317	21.68	240345	179709	24.46	226326	173420	26.98	211646	166513	30.03	195988	159963	34.80
			63	243068	209451	22.00	229977	203063	24.28	214006	194023	26.28	197625	185037	28.77	184525	179817	33.46

LEGEND
TC: Total Cooling Capacity
SC: Sensible Cooling Capacity
PI: Total Input Power
DBT: Dry Bulb Temperature
WBT: Wet Bulb Temperature

CENTRAL DUCTED SPLIT UNITS
PRODUCT DATA BOOK - R410A

COOLING PERFORMANCE

3IDH300EC2 + 3ODH300EC2

MODEL	EVAPORATOR CFM	DBT (°F)	WBT (°F)	AMBIENT AIR TEMPERATURE (°F)																	
				85			95			105			115			125					
				TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW	TC Btu/hr	SC Btu/hr	PI KW			
3IDH300EC2 + 3ODH300EC2	8750	84.2	66.2	303132	215230	24.81	288912	209521	27.64	255592	189958	30.26	223661	170623	33.07	209069	164449	36.59			
		82	69	292467	230204	24.54	278679	224710	27.38	246935	204554	30.04	216272	184467	32.81	202053	178387	36.38			
			66.2	282880	244746	24.32	268984	238929	27.16	238177	217943	29.78	208695	197189	32.60	195224	191483	36.20			
			65	276201	263382	24.14	262844	257027	26.98	231130	231130	29.60	203269	203269	32.47	190734	190734	36.07			
			63	302701	198102	24.81	288482	192608	27.64	255189	174354	30.26	223381	156872	33.03	208788	151633	36.59			
		80.6	69	292252	215230	24.54	278463	209736	27.38	246733	190562	30.04	216084	171464	32.81	201866	165384	36.38			
			66.2	283311	230419	24.32	268768	224063	27.11	238076	204051	29.78	208507	184186	32.60	195037	178574	36.16			
			65	271354	256272	24.05	258211	249917	26.89	228311	227305	29.52	199060	199060	32.34	186525	186525	35.95			
			63	301947	181190	24.76	287835	175804	27.60	254686	158650	30.26	222820	142185	33.03	208227	137228	36.59			
		78	69	291606	199826	24.54	277817	194440	27.38	246129	176468	29.99	215617	158649	32.81	201398	152849	36.38			
			66.2	283742	216954	24.32	268230	209413	27.11	237573	190461	29.78	208040	171651	32.60	194570	165945	36.16			
			65	271030	241622	24.01	257781	235267	26.85	228009	213614	29.52	198966	191857	32.34	184186	183999	35.86			
			63	300654	163631	24.76	286435	158245	27.60	253579	142242	30.21	221884	126751	32.99	207291	121793	36.55			
		76	69	290421	182267	24.50	276632	176881	27.33	245123	160060	29.99	214775	143495	32.77	200556	137695	36.33			
			66.2	284280	201549	24.36	267476	194440	27.11	236667	176267	29.73	207198	158462	32.56	193821	152756	36.16			
			65	270061	226433	24.01	256919	220078	26.85	227204	199420	29.52	198779	179228	32.34	183531	170716	35.86			
			63	288266	252718	24.45	274585	247331	27.29	243311	225694	29.91	213185	204298	32.73	199247	198405	36.29			
	9400	84.2	66.2	307010	222663	24.90	292036	216630	27.73	258310	196400	30.34	226000	176516	33.12	211127	170248	36.68			
		82	69	296130	238821	24.63	282126	233112	27.47	249854	212305	30.13	218517	191483	32.90	204017	185309	36.46			
			66.2	286004	254226	24.36	272215	248624	27.20	240995	226902	29.86	211033	205421	32.69	197282	197282	36.25			
			65	279648	273616	24.23	264675	264029	27.02	234955	234955	29.69	206169	206169	32.56	194476	194476	36.16			
			63	306579	205320	24.90	291606	199503	27.73	257907	181200	30.34	225626	162858	33.12	210846	156591	36.63			
		80.6	69	295914	222878	24.63	281803	217169	27.47	249653	197407	30.08	218329	177638	32.90	203830	171371	36.42			
			66.2	285789	238175	24.36	272000	232681	27.20	240794	212003	29.86	210846	191483	32.69	197095	185776	36.25			
			65	274801	265968	24.10	261335	259504	26.93	230526	230526	29.60	201679	201679	32.43	190173	190173	36.03			
			63	305825	187114	24.85	290959	181405	27.69	257303	164288	30.30	225065	147798	33.12	210285	142840	36.63			
		78	69	295268	207366	24.63	281156	201765	27.47	249049	183012	30.08	217862	164262	32.90	203363	158088	36.42			
			66.2	285034	222555	24.36	271461	217169	27.20	240291	197507	29.86	210378	178106	32.64	196721	172306	36.25			
			65	274370	250348	24.10	260905	243884	26.93	230727	221567	29.60	199340	197282	32.34	187086	187086	35.95			
			63	304425	168263	24.85	289774	162661	27.64	256196	146570	30.30	224129	131334	33.07	209349	126283	36.59			
		76	69	294083	188515	24.59	279971	183021	27.42	247941	165697	30.04	217020	148546	32.86	202521	142653	36.42			
			66.2	284604	206828	24.36	270492	201011	27.16	239385	182408	29.82	209536	163981	32.64	195879	158275	36.20			
			65	273508	234189	24.10	260043	227726	26.93	229821	206366	29.56	199527	184093	32.34	185496	177732	35.90			
			63	291929	262951	24.54	277925	257350	27.38	246129	235056	29.99	215523	212810	32.81	201211	201211	36.38			
	10500	84.2	66.2	312073	234297	25.03	296669	228049	27.86	262337	206869	30.47	229368	186151	33.24	212343	178574	36.68			
		82	69	301516	252825	24.76	287081	247008	27.60	253780	224889	30.21	221697	202895	32.99	206917	196627	36.55			
			66.2	291175	270169	24.50	276955	264459	27.33	245123	241499	29.99	214494	214494	32.77	201492	201492	36.38			
			65	283957	283311	24.32	270169	270169	27.16	240693	240693	29.86	212343	212343	32.73	200182	200182	36.33			
			63	311750	216846	25.03	296345	210598	27.82	261934	190662	30.43	228993	170997	33.20	212717	163794	36.72			
		80.6	69	301301	235159	24.76	286758	229342	27.60	253478	208379	30.21	221510	187554	32.99	206637	181286	36.50			
			66.2	290851	252610	24.50	276740	246793	27.33	244921	225090	29.95	214307	203550	32.77	199808	197376	36.33			
			65	279971	279541	24.23	265860	265860	27.07	235559	235559	29.73	207572	207572	32.60	195692	195692	36.20			
			63	310996	197133	24.99	295591	191962	27.82	261330	174556	30.43	228432	156310	33.20	212998	149856	36.72			
		78	69	300654	218139	24.76	286112	212214	27.55	252975	192474	30.21	221042	172774	32.99	206262	166507	36.50			
			66.2	290313	235374	24.50	276201	229665	27.33	244418	209084	29.95	213839	188676	32.77	199434	182502	36.29			
			65	279325	264567	24.23	264675	257134	27.02	232237	232036	29.65	204204	204204	32.47	191202	191202	36.07			
			63	309703	175804	24.99	294299	170848	27.78	260122	154724	30.39	227403	138911	33.16	212062	133673	36.68			
		76	69	299362	198749	24.72	284927	193147	27.55	251968	174958	30.17	220107	156872	32.94	205327	151166	36.46			
			66.2	289236	217492	24.45	275232	211783	27.29	243411	192374	29.95	212998	173148	32.73	198685	167068	36.29			
			65	278463	246685	24.19	264890	240330	27.02	231331	215728	29.60	201866	194944	32.43	188302	188302	35.99			
			63	297207	279756	24.67	282880	273939	27.47	250357	250357	30.13	219265	219265	32.94	205233	205233	36.46			

LEGEND
TC: Total Cooling Capacity
SC: Sensible Cooling Capacity
PI: Total Input Power
DBT: Dry Bulb Temperature
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CENTRAL DUCTED SPLIT UNITS

PRODUCT DATA BOOK - R410A

FAN PERFORMANCE

Unit	Air Flow CFM	Available External static Pressure (in wg)																										
		0		0.2		0.25		0.3		0.4		0.6		0.8		1		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	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
3IDH072	2100	476	0.27	561	0.38	580	0.41	598	0.44	635	0.50	697	0.55	751	0.73	815	0.94	864	1.07	908	1.10							
	2200	477	0.28	562	0.40	581	0.43	599	0.46	636	0.52	698	0.58	753	0.76	816	0.97	866	1.09	909	1.11							
	2300	479	0.30	563	0.42	582	0.45	600	0.48	637	0.54	700	0.62	755	0.79	818	0.99	869	1.12	911	1.15							
	2400	480	0.32	564	0.43	583	0.46	601	0.50	638	0.56	701	0.66	756	0.81	819	1.01	871	1.14	912	1.19							
	2500	482	0.34	565	0.45	583	0.48	602	0.52	639	0.58	702.5	0.70	758	0.84	821	1.03	874	1.17	913.5	1.23							
	2600	484	0.36	565	0.47	583	0.49	602	0.53	640	0.6	704	0.74	759	0.87	822	1.05	876	1.19									
	2700	486	0.38	566	0.50	584	0.50	603	0.54	640	0.63	705	0.77	761	0.91	823	1.08	878	1.22									
3IDH090	2600	484	0.36	565	0.47	584	0.50	603	0.54	640	0.6	704	0.74	759	0.87	822	1.05	876	1.19	915	1.27	961	1.47	1006	1.92			
	2800	488	0.40	567	0.52	585	0.56	604	0.59	640	0.66	706	0.79	762	0.95	824	1.11	880	1.24	917	1.38	963	1.58	1009	1.96			
	3050	494	0.46	571	0.58	589	0.61	606	0.65	641	0.71	707	0.84	764	1.01	826	1.17	882	1.36	919	1.47	966	1.68	1012	2.01			
	3200	500	0.51	575	0.63	592	0.66	610	0.70	644	0.76	708	0.91	766	1.07	828	1.23	885	1.42	921	1.59	969	1.77	1015	2.07			
	3300	503	0.54	578	0.67	595	0.70	612	0.73	646	0.80	709	0.95	767	1.11	829	1.27	882	1.46	922	1.64	970	1.81	1017	2.10			
	3400	506	0.56	580	0.70	597	0.73	614	0.77	647	0.83	710	0.98	768	1.14	830	1.31	879	1.49	923	1.68	971	1.85	1018	2.12			
	3600	514	0.63	586	0.76	602	0.80	619	0.84	651	0.91	713	1.06	770	1.22	832	1.39	881	1.57	925	1.76	973	1.96	1021	2.17			
3IDH120	3500	510	0.60	583	0.73	600	0.77	616	0.80	649	0.87	712	1.02	769	1.18	831	1.35	880	1.53	924	1.72	972	1.91	1020	2.15	1063	2.34	
	3600	514	0.63	586	0.76	602	0.80	619	0.84	651	0.91	713	1.06	770	1.22	832	1.39	881	1.57	925	1.76	973	1.96	1021	2.17	1064	2.39	
	3800	521	0.70	592	0.85	608	0.89	624	0.92	656	0.99	716	1.15	773	1.31	834	1.49	883	1.66	927	1.85	975	2.05	1022	2.27	1064	2.49	
	4000	529	0.76	598	0.92	614	0.96	630	1.00	662	1.07	721	1.23	776	1.41	836	1.58	885	1.77	929	1.96	976	2.16	1023	2.37	1066	2.59	
	4200	538	0.86	605	1.00	621	1.04	637	1.09	668	1.17	726	1.34	780	1.51	838	1.69	887	1.88	931	2.06	978	2.27	1024	2.48	1068	2.69	
	4400	547	0.94	613	1.10	628	1.14	644	1.19	674	1.27	731	1.45	785	1.62	840	1.81	889	2.00	933	2.18	979	2.40	1028	2.60	1071	2.83	
	4500	552	0.99	617	1.16	632	1.20	647	1.24	678	1.33	734	1.50	788	1.68	841	1.87	890	2.06	934	2.25	981	2.47	1029	2.67			
3IDH150	4000	417	0.59	479	0.69	494	0.75	508	0.82	538	0.95	593	1.16	644	1.41	692	1.68	736	1.86	778	2.27	813	2.36	852	2.83			
	4200	422	0.66	483	0.79	498	0.85	512	0.91	541	1.02	595	1.23	646	1.48	694	1.75	738	1.95	779	2.34	815	2.46	854	2.92			
	4400	428	0.72	488	0.9	502	0.95	516	1.00	544	1.10	597	1.31	647	1.55	696	1.81	740	2.04	781	2.4	817	2.56					
	4600	433	0.79	492	0.97	506	1.02	520	1.07	547	1.17	599	1.38	649	1.62	698	1.88	742	2.16	782	2.47	819	2.68					
	4800	439	0.85	497	1.1	510	1.14	524	1.18	550	1.25	601	1.46	650	1.69	700	1.94	744	2.23	784	2.53	821	2.77					
	5000	444	0.93	501	1.11	514	1.17	528	1.22	554	1.33	603	1.54	651	1.78	702	2.04	746	2.31	785	2.6	823	2.92					
	5200	450	0.99	506	1.19	519	1.25	532	1.30	558	1.41	606	1.64	653	1.86	703	2.12	748	2.40	786	2.68							
	5400	456	1.07	512	1.29	525	1.34	537	1.40	562	1.5	610	1.73	655	1.96	705	2.21	750	2.49	788	2.77							
	5600	463	1.15	517	1.37	530	1.43	542	1.49	567	1.6	614	1.82	658	2.06	706	2.32	752	2.59	791	2.88							
	5800	450	1.23	506	1.46	519	1.52	532	1.58	558	1.69	618	1.91	653	2.16	708	2.42	754	2.68									
	6000	456	1.31	512	1.55	524.5	1.61	537	1.67	562	1.79	622	2.01	655	2.26	709	2.52	756	2.78									
	6200	463	1.39	517	1.64	529.5	1.70	542	1.76	567	1.89	626	2.10	658	2.35	711	2.62	758	2.87									
	3IDH180	4800	501	0.69	594	0.91	611.5	0.97	629	1.03	664	1.16	725	1.48	805	1.82	867	2.19	908	2.57								
		5000	504	0.73	596	0.96	613.5	1.03	631	1.09	666	1.22	728	1.54	805	1.87	866	2.25	910	2.61								
5200		507	0.78	597	1.02	615.5	1.08	634	1.15	671	1.28	731	1.59	806	1.93	868	2.30	912	2.65									
5400		510	0.82	594	1.07	613	1.14	631	1.21	668	1.34	733	1.65	805	1.98	868	2.36	914	2.69									
5600		513	0.87	596	1.13	615	1.20	633	1.26	670	1.39	738	1.7	807	2.04	870	2.41	916	2.74									
5800		516	0.91	597	1.18	616	1.25	635	1.32	672	1.46	739	1.76	808	2.09	872	2.47	918	2.77									
6000		518	0.97	599	1.23	618	1.30	636	1.37	673	1.51	740	1.82	809	2.16	873	2.52	921	2.80									
6200		522	1.02	601	1.3	619	1.37	638	1.44	674	1.58	741	1.89	810	2.23	876	2.59											
6400		525	1.09	604	1.35	622	1.43	640	1.50	676	1.65	743	1.96	813	2.29	879	2.65											
6600		528	1.14	606	1.42	624	1.50	642	1.57	678	1.72	744	2.04	816	2.37	882	2.73											
6800		525	1.19	604	1.49	623	1.57	642	1.64	680	1.79	745	2.12	819	2.45	885	2.81											
7000		535	1.27	612	1.57	630	1.65	647	1.73	682	1.88	747	2.2	819	2.55	888	2.91											
7200		525	1.35	604	1.65	624	1.73	644	1.81	684	1.97	749	2.28	820	2.65													
7500		545	1.46	620	1.76	637	1.84	654	1.92	688	2.08	751	2.41	823	2.77													
3IDH216	6300	522	1.04	602	1.31	620	1.38	639	1.46	675	1.60	742	1.91	812	2.25	877	2.61	926	3.00	1009	3.43	1065	3.88	1114	4.37			
	6500	526	1.11	605	1.39	623	1.47	641	1.54	677	1.69	743	2	814	2.33	881	2.69	928	3.08	1019	3.50	1075	3.94	1129	4.44			
	7000	535	1.27	612	1.57	630	1.65	647	1.73	682	1.88	747	2.2	819	2.55	888	2.91	932	3.28	1034	3.70	1089	4.13	1143	4.60			
	7500	545	1.46	620	1.76	637	1.84	654	1.92	688	2																	

CENTRAL DUCTED SPLIT UNITS PRODUCT DATA BOOK - R410A

ELECTRICAL DATA

INDOOR

MODEL	V/PH/Hz	OPERATING VOLTAGE		BLOWER MOTOR		MCA	MOCP
		MIN	MAX	HP	FLA	AMPS	AMPS
3IDH072EC1	380/400/3/60	342	440	1 1/2	2.7	5	10
3IDH090EC1	380/400/3/60	342	440	1 1/2	2.7	10	15
3IDH120EC2	380/400/3/60	342	440	3	4.7	10	15
3IDH150EC2	380/400/3/60	342	440	3	4.9	10	15
3IDH180EC2	380/400/3/60	342	440	5	7.2	10	15
3IDH216EC2	380/400/3/60	342	440	5	7.2	10	15
3IDH240EC2	380/400/3/60	342	440	5	7.2	10	15
3IDH300EC2	380/400/3/60	342	440	5	7.2	10	15

OUTDOOR

MODEL	V/PH/Hz	OPERATING VOLTAGE		COMPRESSOR				CONDENSER MOTOR			MCA	MOCP
		MIN	MAX	TYPE	RLA	LRA	QTY	HP	FLA	QTY	AMPS	AMPS
3ODH072EC1	380/400/3/60	342	440	SCR	10.5	78.0	1	1/2	2.9	1	16	25
3ODH090EC1	380/400/3/60	342	440	SCR	13	94.3	1	3/4	6.3	2	29	40
3ODH120EC2	380/400/3/60	342	440	SCR	8.6	65.6	2	3/4	6.3	2	32	40
3ODH150EC2	380/400/3/60	342	440	SCR	11	88.0	2	3/4	6.3	2	38	50
3ODH180EC2	380/400/3/60	342	440	SCR	13	94.3	2	3/4	6.3	2	42	55
3ODH216EC2	380/400/3/60	342	440	SCR	17.8	140.0	2	3/4	6.3	4	65	85
3ODH240EC2	380/400/3/60	342	440	SCR	20.4	145.0	2	3/4	6.3	4	72	90
3ODH300EC2	380/400/3/60	342	440	SCR	22.6	145.0	2	3/4	6.3	4	76	100

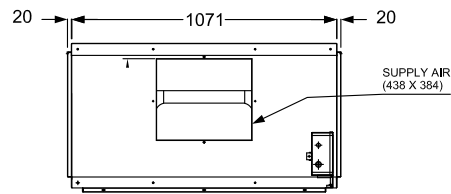
NOTE:

FLA - Full Load Amps. **LRA** - Lock Rotor Amps. **RLA** - Running Load Amps. **MCA** - Minimum Circuit Amps.

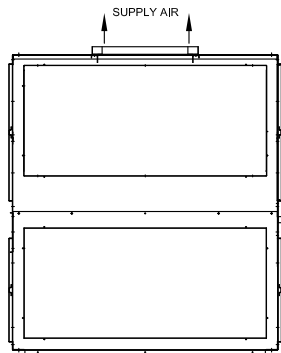
MOCP - Maximum Over Current Protection.

GENERAL ARRANGEMENT DRAWINGS - INDOOR

3IDH072



TOP VIEW

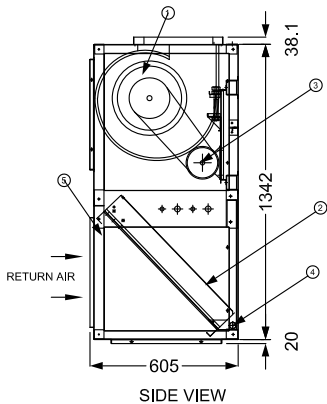


FRONT VIEW

LEGENDS:

- 1.BLOWER
- 2.EVAPORATOR COIL
- 3.MOTOR
- 4.DRAIN PAN
- 5. PRE FILTER

VERTICAL MOUNTING POSITION SHOWN
HORIZONTAL MOUNTING POSITION ALSO APPLICABLE



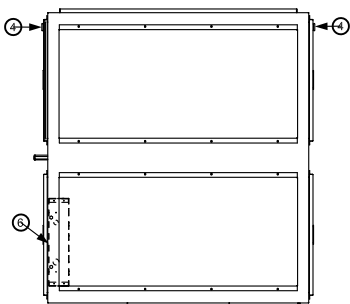
SIDE VIEW

3IDH090 & 3IDH120

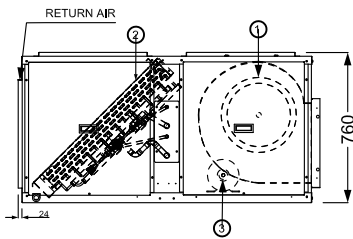
LEGENDS:

- 1.BLOWER
- 2.EVAPORATOR COIL
- 3.MOTOR
- 4.DRAIN PAN
- 5.PRE FILTER
- 6.CONTROL PANEL

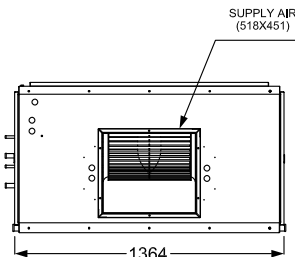
HORIZONTAL MOUNTING POSITION ONLY



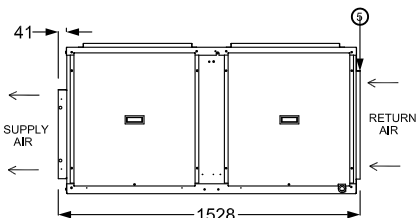
TOP VIEW



LHS VIEW



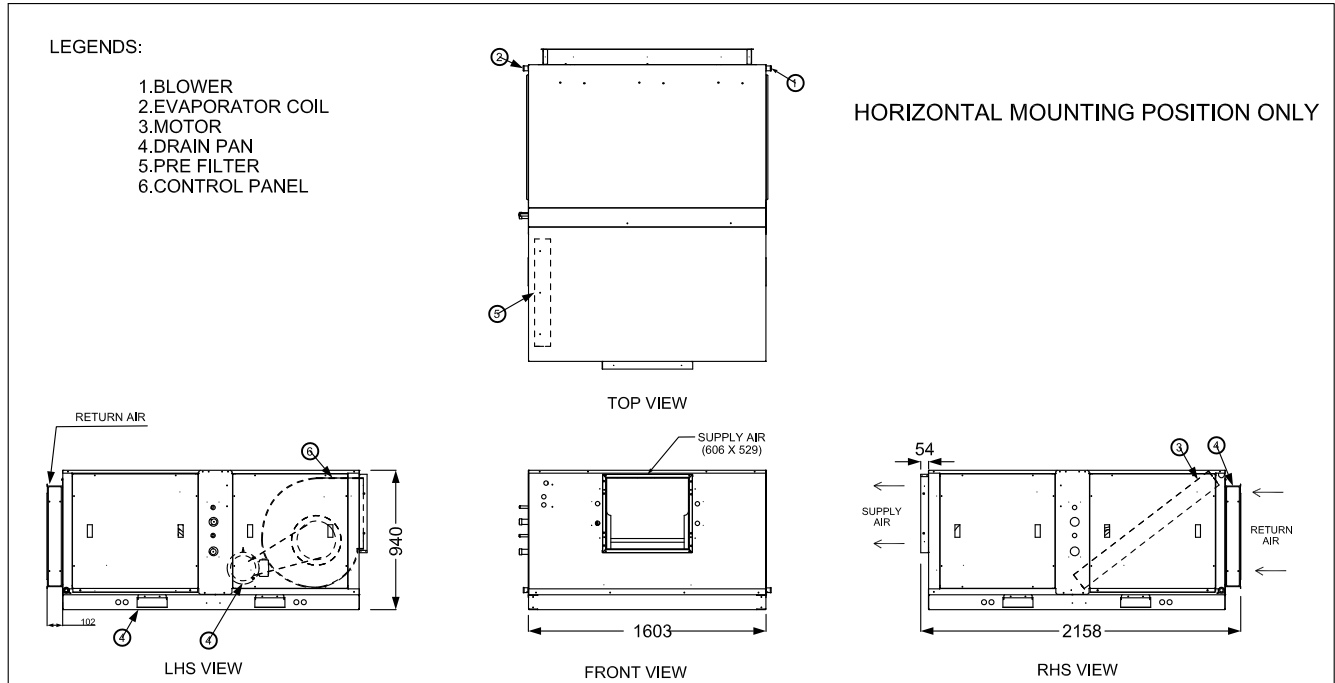
FRONT VIEW



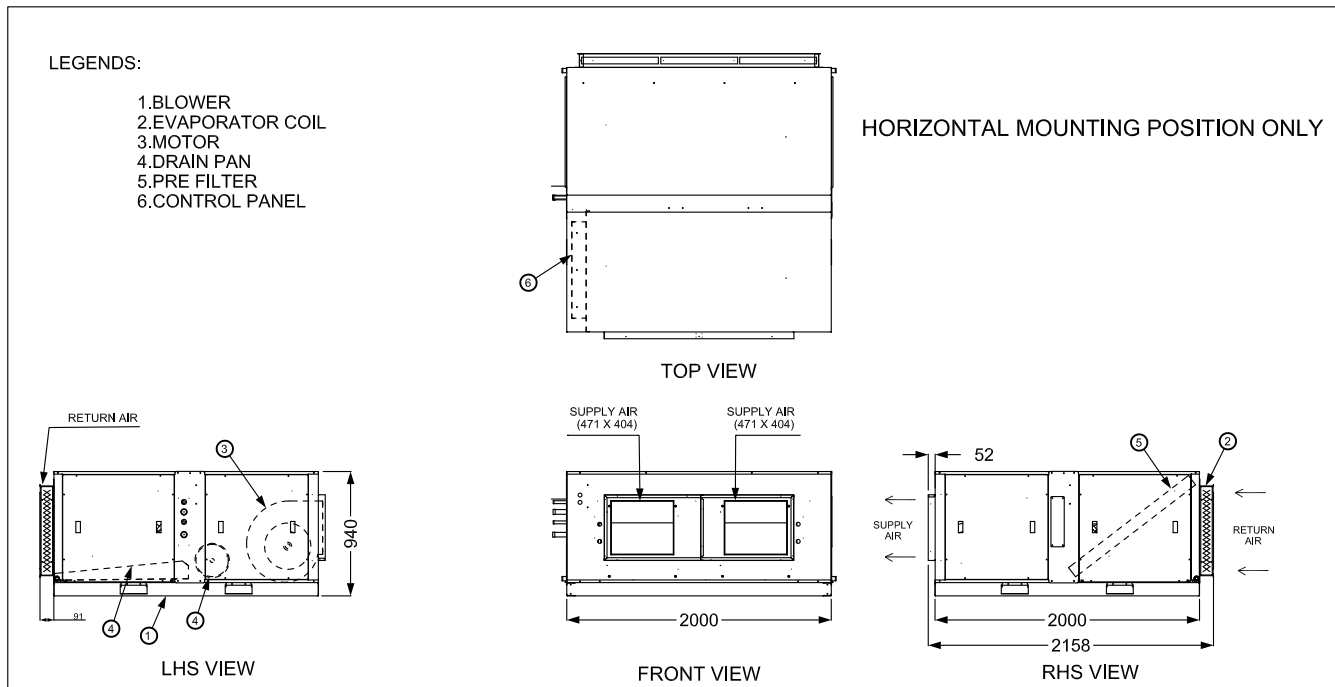
RHS VIEW

GENERAL ARRANGEMENT DRAWINGS - INDOOR

3IDH150



3IDH180 / 3IDH216 / 3IDH240 / 3IDH300

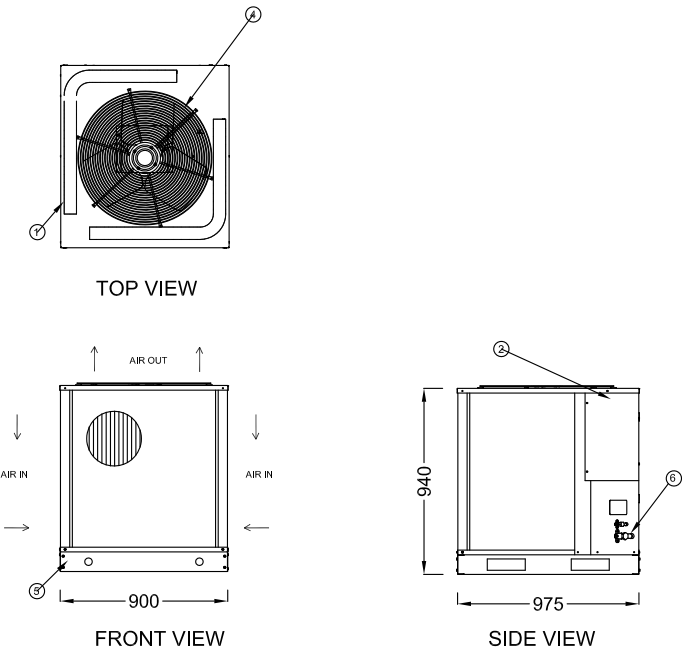


GENERAL ARRANGEMENT DRAWINGS - OUTDOOR

30DH072 / 30DH090

LEGENDS:

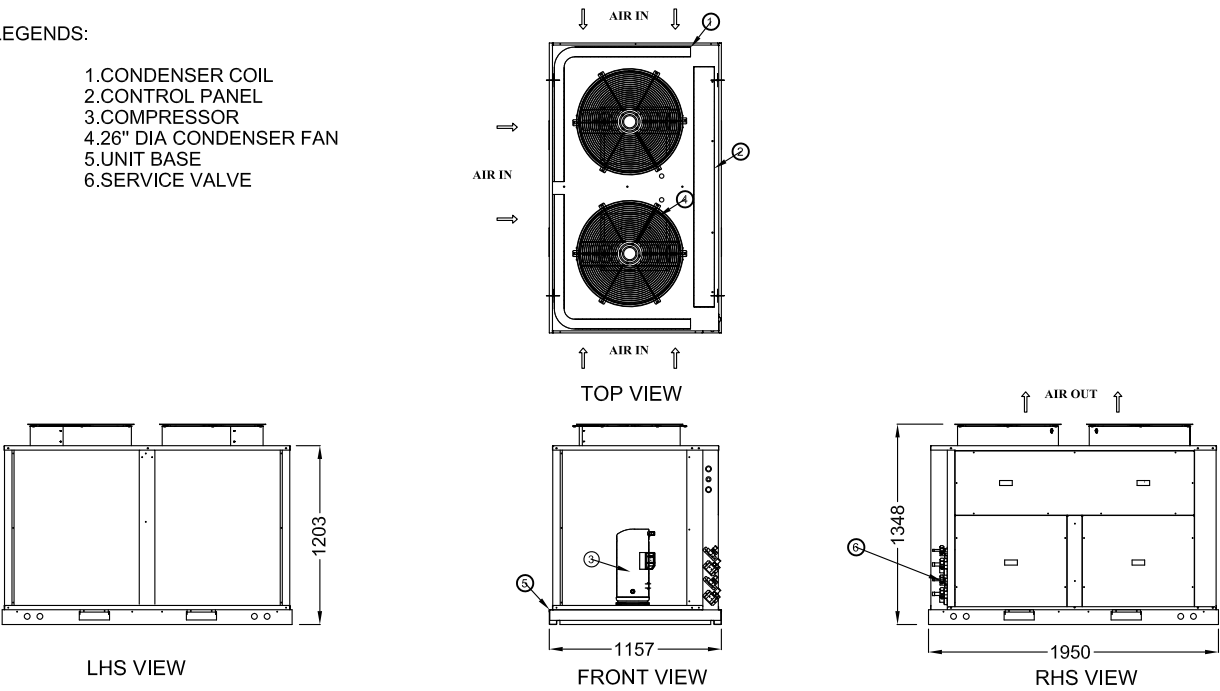
- 1.CONDENSER COIL
- 2.CONTROL PANEL
- 3.COMPRESSOR
- 4.26" DIA CONDENSER FAN
- 5.UNIT BASE
- 6.SERVICE VALVE



30DH120 / 30DH150

LEGENDS:

- 1.CONDENSER COIL
- 2.CONTROL PANEL
- 3.COMPRESSOR
- 4.26" DIA CONDENSER FAN
- 5.UNIT BASE
- 6.SERVICE VALVE

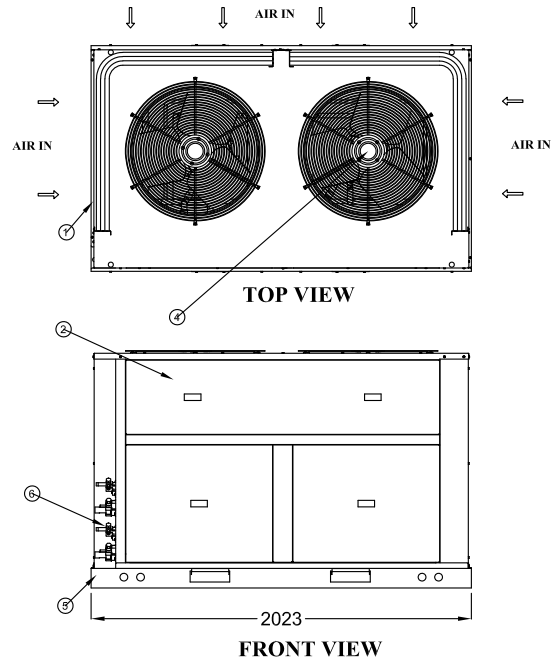
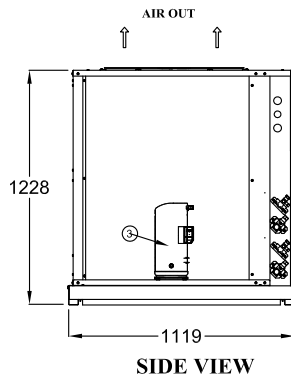


GENERAL ARRANGEMENT DRAWINGS - OUTDOOR

3ODH180

LEGENDS:

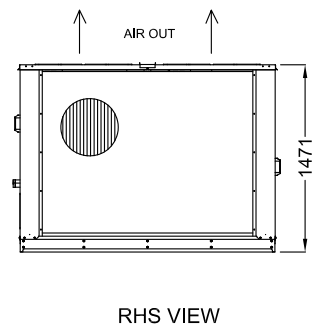
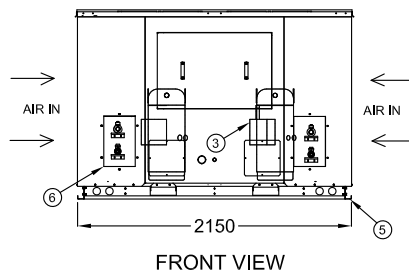
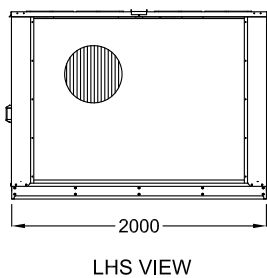
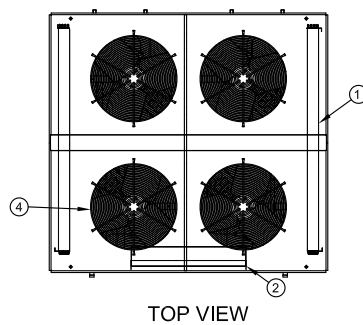
- 1.CONDENSER COIL
- 2.CONTROL PANEL
- 3.COMPRESSOR
- 4.26" DIA CONDENSER FAN
- 5.UNIT BASE
- 6.SERVICE VALVE



3ODH216 / 3ODH240 / 3ODH300

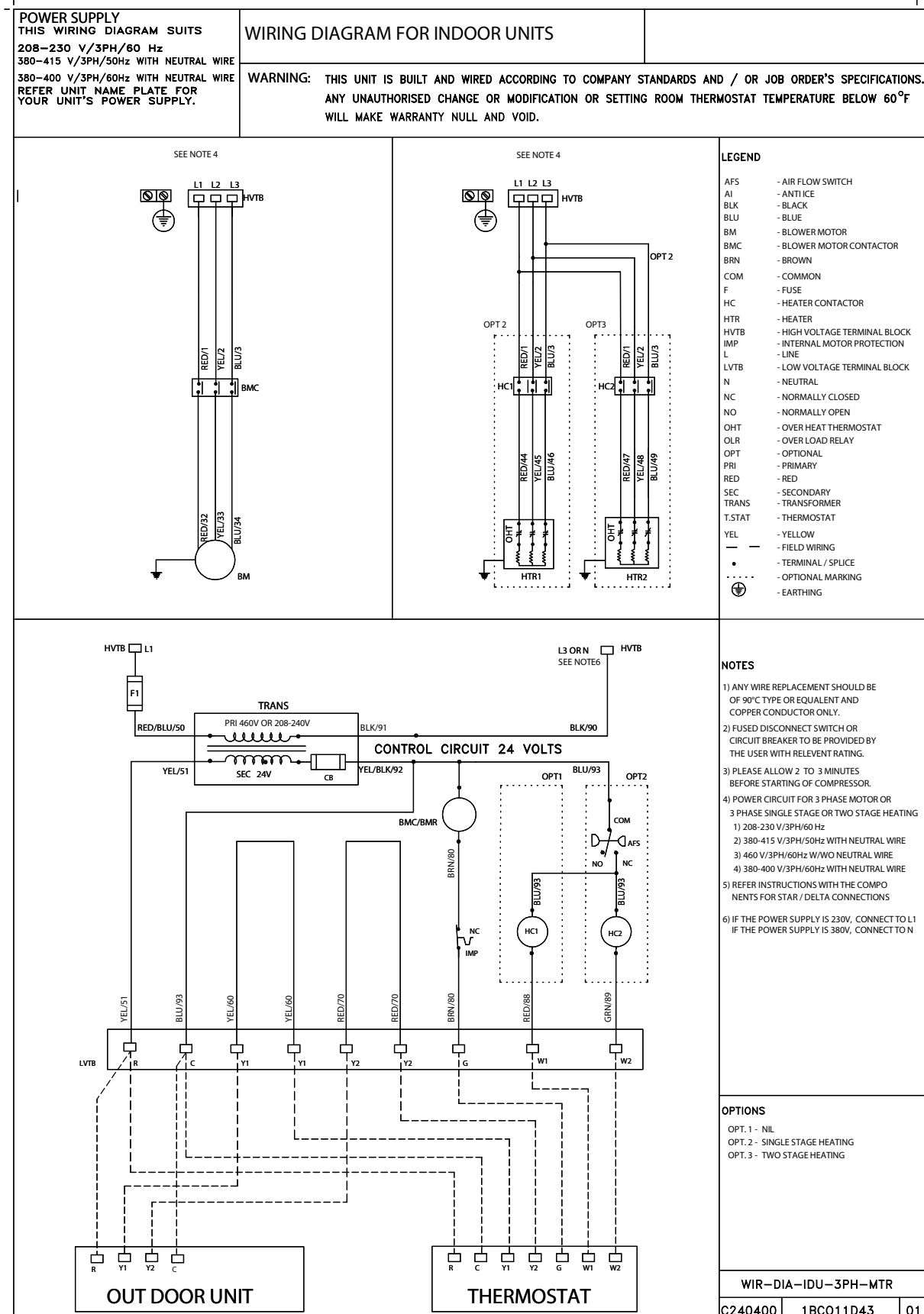
LEGENDS:

- 1.CONDENSER COIL
- 2.CONTROL PANEL
- 3.COMPRESSOR
- 4.26" DIA CONDENSER FAN
- 5.UNIT BASE
- 6.SERVICE VALVE



CENTRAL DUCTED SPLIT UNITS PRODUCT DATA BOOK - R410A

WIRING DIAGRAM - INDOOR



CENTRAL DUCTED SPLIT UNITS PRODUCT DATA BOOK - R410A

WIRING DIAGRAM - OUTDOOR

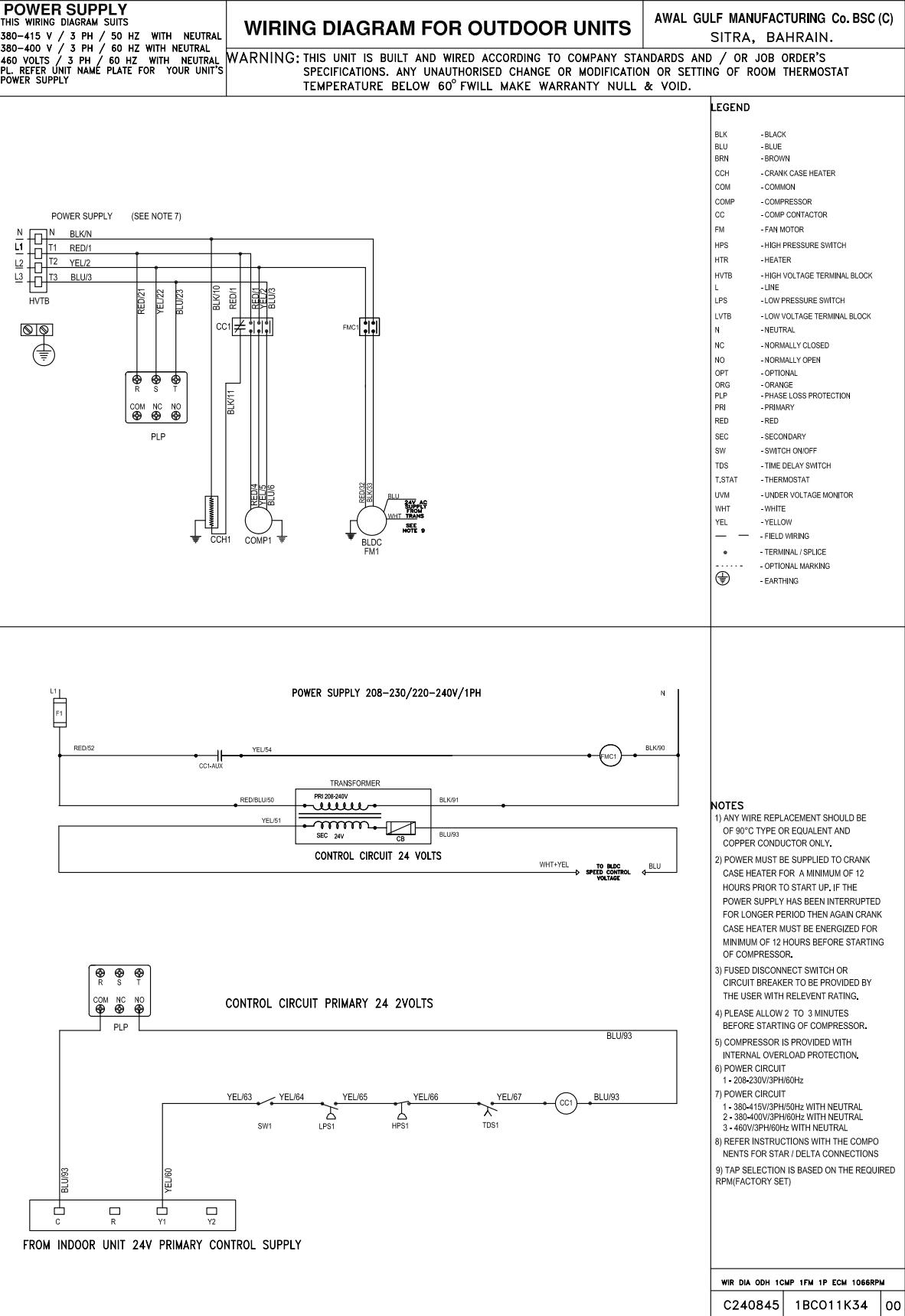
30DH072

POWER SUPPLY THIS WIRING DIAGRAM SUITS 380-415 V / 3 PH / 50 HZ WITH NEUTRAL 380-400 V / 3 PH / 60 HZ WITH NEUTRAL 460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S POWER SUPPLY	WIRING DIAGRAM FOR OUTDOOR UNITS	AWAL GULF MANUFACTURING Co. BSC (C) SITRA, BAHRAIN.
WARNING: THIS UNIT IS BUILT AND WIRED ACCORDING TO COMPANY STANDARDS AND / OR JOB ORDER'S SPECIFICATIONS. ANY UNAUTHORISED CHANGE OR MODIFICATION OR SETTING OF ROOM THERMOSTAT TEMPERATURE BELOW 60° F WILL MAKE WARRANTY NULL & VOID.		
LEGEND BLK - BLACK BLU - BLUE BRN - BROWN CCH - CRANK CASE HEATER COM - COMMON COMP - COMPRESSOR CC - COMP CONTACTOR FM - FAN MOTOR HPS - HIGH PRESSURE SWITCH HTR - HEATER HVTB - HIGH VOLTAGE TERMINAL BLOCK L - LINE LPS - LOW PRESSURE SWITCH LVTB - LOW VOLTAGE TERMINAL BLOCK N - NEUTRAL NC - NORMALLY CLOSED NO - NORMALLY OPEN OPT - OPTIONAL PLP - PHASE LOSS PROTECTION PRI - PRIMARY RED - RED SEC - SECONDARY SW - SWITCH ON/OFF TDS - TIME DELAY SWITCH T,STAT - THERMOSTAT UVM - UNDER VOLTAGE MONITOR YEL - YELLOW — — — — — FIELD WIRING • — — — — — TERMINAL / SPLICE - - - - - OPTIONAL MARKING ⊕ — — — — — EARTHING		
NOTES 1) ANY WIRE REPLACEMENT SHOULD BE OF 90°C TYPE OR EQUIVALENT AND COPPER CONDUCTOR ONLY. 2) POWER MUST BE SUPPLIED TO CRANK CASE HEATER FOR A MINIMUM OF 12 HOURS PRIOR TO START UP. IF THE POWER SUPPLY HAS BEEN INTERRUPTED FOR LONGER PERIOD THEN AGAIN CRANK CASE HEATER MUST BE ENERGIZED FOR MINIMUM OF 12 HOURS BEFORE STARTING OF COMPRESSOR. 3) FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER WITH RELEVANT RATING. 4) PLEASE ALLOW 2 TO 3 MINUTES BEFORE STARTING OF COMPRESSOR. 5) COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD PROTECTION. 6) POWER CIRCUIT 1 - 208-230V/3PH/60Hz 7) POWER CIRCUIT 1 - 380-415V/3PH/50Hz WITH NEUTRAL 2 - 380-400V/3PH/60Hz WITH NEUTRAL 3 - 460V/3PH/60Hz WITH NEUTRAL 8) REFER INSTRUCTIONS WITH THE COMPONENTS FOR STAR / DELTA CONNECTIONS		
FROM INDOOR UNIT 24V PRIMARY CONTROL SUPPLY		
WIR.DIA ODD 1COMP 1 FAN STD		
C240423	1BC011D98	00

CENTRAL DUCTED SPLIT UNITS
PRODUCT DATA BOOK - R410A

WIRING DIAGRAM - OUTDOOR

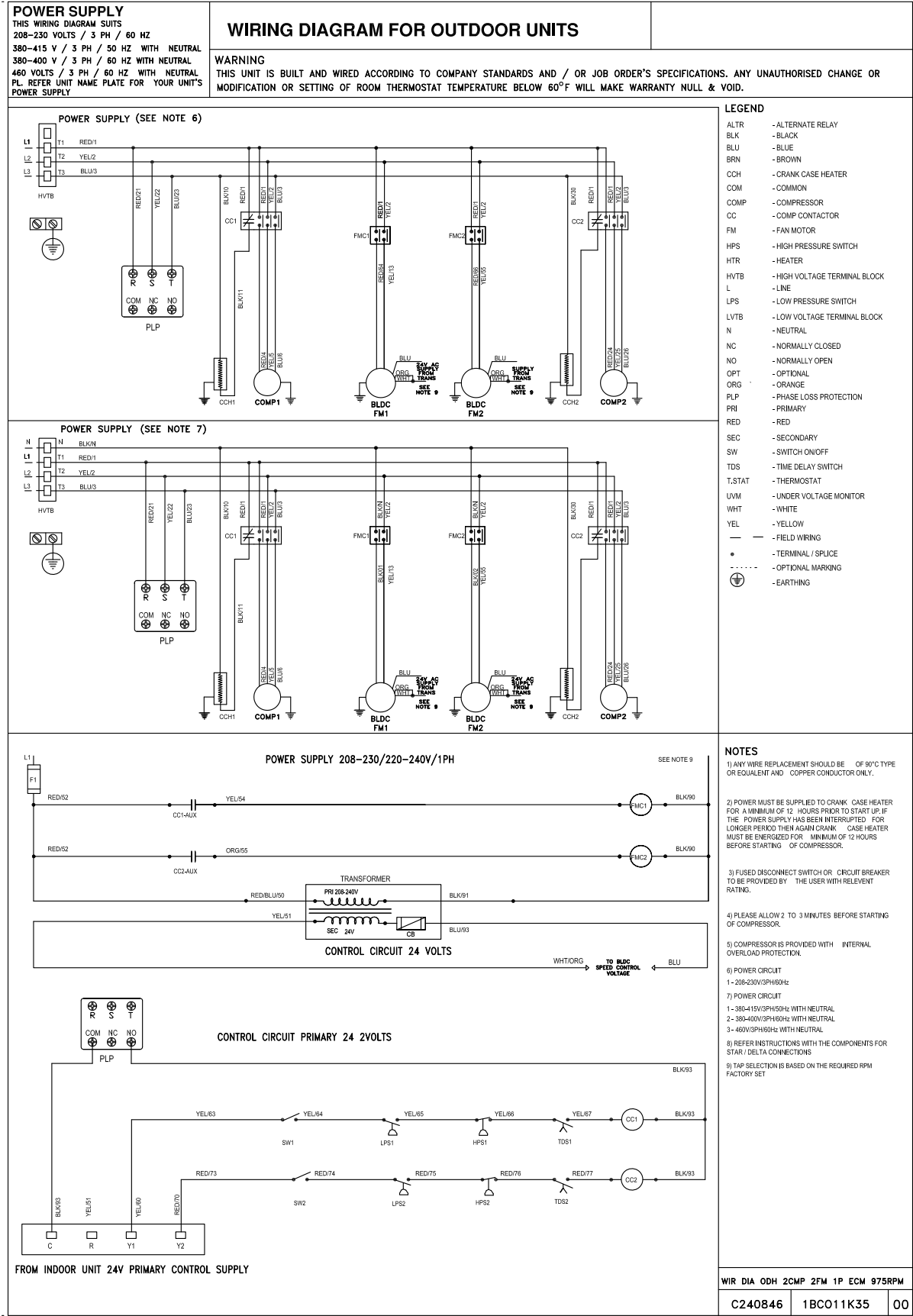
30DH090



CENTRAL DUCTED SPLIT UNITS
PRODUCT DATA BOOK - R410A

WIRING DIAGRAM - OUTDOOR

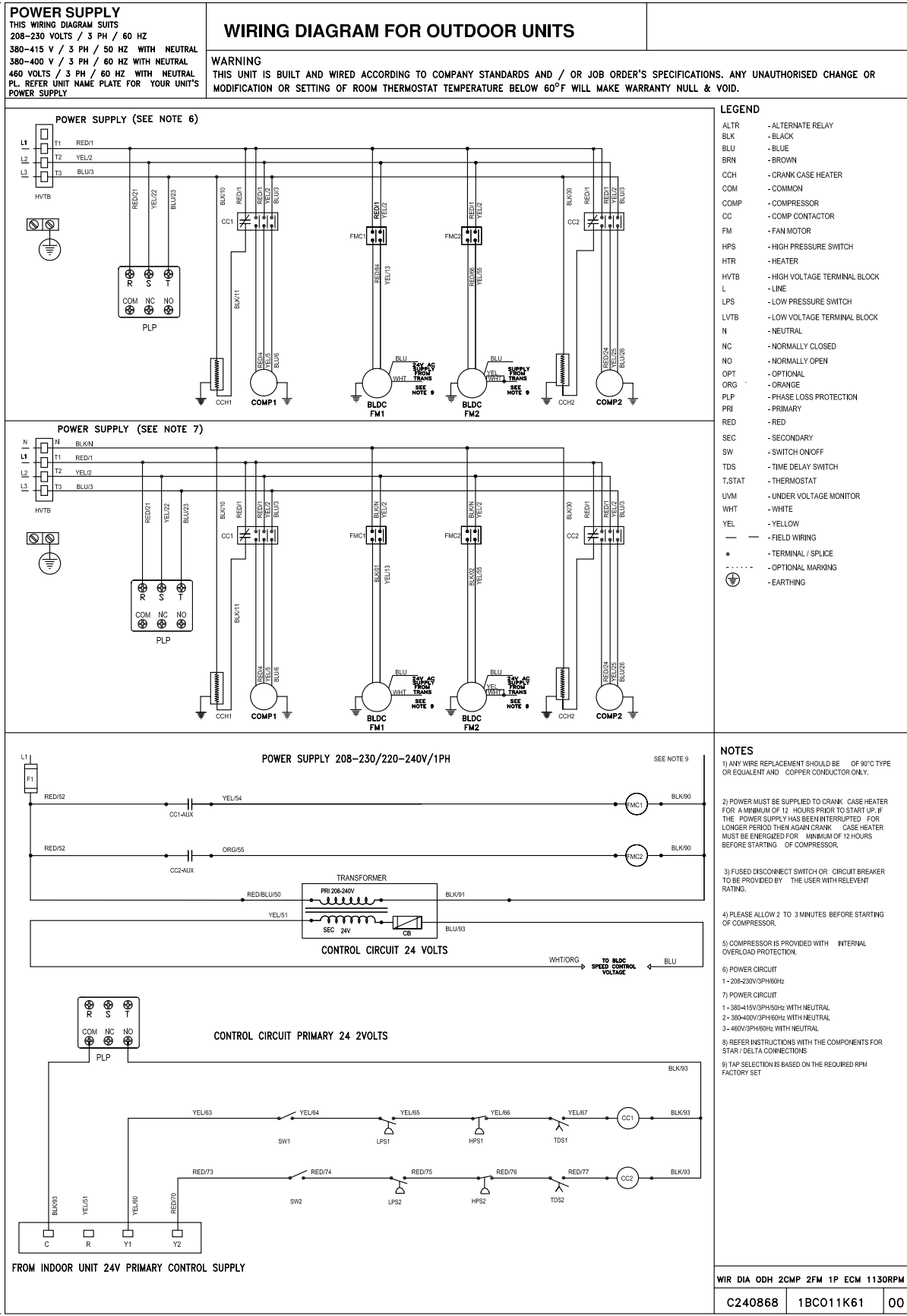
30DH120



CENTRAL DUCTED SPLIT UNITS PRODUCT DATA BOOK - R410A

WIRING DIAGRAM - OUTDOOR

30DH150 / 30DH180



WIRING DIAGRAM - OUTDOOR

POWER SUPPLY
THIS WIRING DIAGRAM SUITS
208-230 VOLTS / 3 PH / 60 HZ
380-415 V / 3 PH / 50 HZ WITH NEUTRAL
380-400 V / 3 PH / 60 HZ WITH NEUTRAL
460 VOLTS / 3 PH / 60 HZ WITH NEUTRAL
PL. REFER UNIT NAME PLATE FOR YOUR UNIT'S
POWER SUPPLY

WARNING
THIS UNIT IS BUILT AND WIRED ACCORDING TO COMPANY STANDARDS AND / OR JOB ORDER'S SPECIFICATIONS. ANY UNAUTHORISED CHANGE OR MODIFICATION OR SETTING OF ROOM THERMOSTAT TEMPERATURE BELOW 60°F WILL MAKE WARRANTY NULL & VOID.



CENTRAL DUCTED SPLIT UNITS
PRODUCT DATA BOOK - R410A

WIRING DIAGRAM - OUTDOOR

30DH240 / 30DH300

