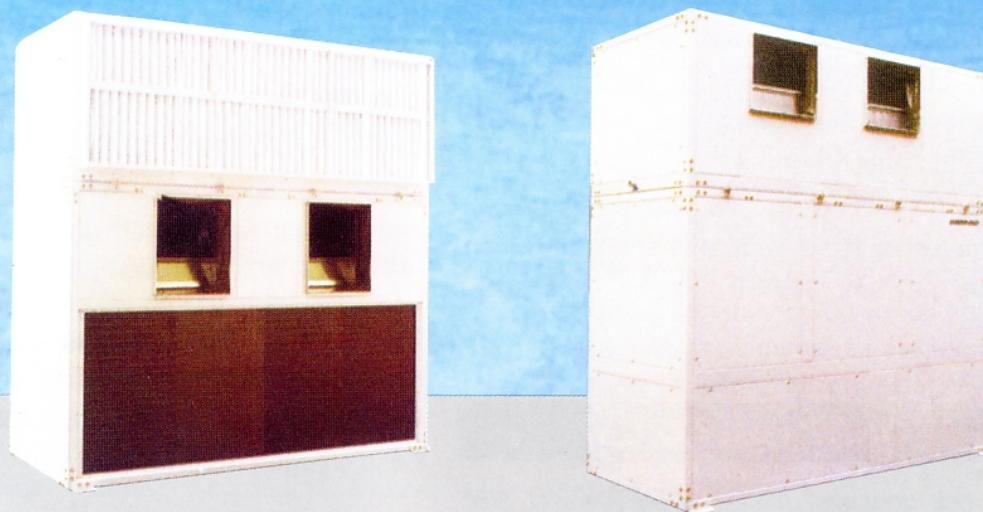


TOPAIRE
air conditioner

Centrifugal Condenser Fan

Air-Cooled Single Package Air Conditioner
with Scroll Compressor



Higher Efficiency • Enhanced Reliability • Low Sound • Scroll Compressor



MS ISO 9002 REG. NO AR0821

M

MECHANICAL SPECIFICATIONS

GENERAL DESCRIPTION

The new TACPS-C series of **Low noise, Compact, Rugged and reliable** air-cooled package units are completely factory packaged, evacuated, dehydrated, precharged with R22 wired and ready for connection to provide years of **Energy Efficient, Quiet and Dependable** cooling performance.

SCROLL COMPRESSOR(S)

The scroll compressor(s) is a new concept of innovative design. This scroll compressor with a high EER, low sound power level, best sound quality and high reliability meets the application requirement and user expectation globally. The high efficiency is realised by a controlled orbit with floating seals and advanced scroll geometry. The reliability is realised by the no-contact scroll design and 100% motor cooled by suction gas. A check valve is located directly above the fixed scroll discharge port. This prevents the compressor from running backwards after the power has been switched off (i.e. no rattling and no shut-down noise). The motor is fitted with a thermostat which protects the compressor if malfunction occurs.

CONDENSER COIL(S)

Each coil consists of staggered rows of 3/8" OD inner ridged copper tubes, mechanically expanded into die-formed corrugated aluminium fins. Each coil is provided with integral subcooling circuit to maximize system efficiency. Coils are leak and pressure tested to 450 psig.

EVAPORATOR COIL(S)

Each coil consists of staggered rows of seamless copper tubes mechanically expanded into die-formed corrugated aluminium fins. The direct expansion coil(s) has one or multiple independent refrigerant circuits each with its own thermo-expansion valve. The thermo-expansion valve promotes efficient cooling and control of superheat. Each coil is leak tested and pressure tested to 450 psig.

EVAPORATOR, CONDENSER BLOWER AND MOTOR

Centrifugal blower(s) is mounted on a rigid shaft in heavy duty pillow block self-aligning ball bearings. Complete blower(s) and drive assembly are resiliently isolated from unit casing. Evaporator blower motor and V-belt pulley drive assembly can be factory fitted to handle the desired cfm and static pressure for all models.

REFRIGERANT CIRCUIT(S)

Each independent refrigerant circuit is constructed of copper pipings with brazed connections; joining compressor, condenser coil, filter drier, sight glass, thermo-expansion valve, distributor and evaporator cooling coil in a completely sealed loop. The refrigerant circuit is factory leak tested, dehydrated, evacuated and charged with R-22.

SAFETY CONTROLS

High pressure and low pressure cut-outs to guard against compressor damage due to high discharge head pressure and system leakage respectively.

M

MECHANICAL SPECIFICATIONS

CASING

All steel parts are coated with epoxy-acrylic Electro-Deposition (ED) paint which gives excellent finishing, weatherability and corrosion resistance. Before ED coating, the part undergoes a complete pretreatment process which involves degreasing, phosphating and rinsing with deionized water. It increases the paint adhesion effect and rust preventing effect to obtain high quality paint film. ED painting is the best painting system which can even coat the inaccessible places like the edges, joints or interior surface of hollow sections. The evaporator section is insulated with 1/2" thick x 1 1/2 lb per cu. ft. mat faced linacoustic fiberglass, tightly fitted with gasket on rigid frame, to guard against leaks of conditioned air.

FILTERS

- * 1" thick washable panel filters.

OPTIONAL STARTER PANEL AND ACCESSORIES

- 1.) Power panel - Factory wired starters for compressor(s), blower fan motor and condenser fan motor(s), with selectable accessories such as indicating lights, incoming isolator voltage monitor and etc. Starters for compressors can be direct on line or autotransformer type. Anti-recycling timer will be provided to prevent compressor short cycling. (Auto-transformer starter is for remote installation while DOL starters is mounted in the units.)
- 2.) Single stage or multiple stage thermostat for staging of single or multiple compressors operation for capacity modulation.
- 3.) For installation near the sea or in chemically corrosive atmosphere, unit can be provided with either copper fin coils, tinned copper fin coils, or hydrophilic pre-coated aluminum fins.
- 5.) Hot Water Heating Coils - Coils are constructed of 1/2" OD seamless copper tubes mechanically expanded into die-formed corrugated aluminum fins. Factory fit between blower and coil sections.
- 5.) Electric Reheaters - Consists of finned tubes electric heaters, mounted downstream of cooling coils and factory wired with necessary controls.
- 6.) Suction accumulator can be provided for each compressor for application where there is a strong possibility of liquid flood-back to compressor.
- 7.) Suction and discharge pressure gauges.
- 8.) Hot gas by pass can be provided for application where the suction pressure gets very low and there is a possibility that the coil might freeze.
- 9.) Liquid, discharge or suction stop valves for each compressor.
- 10.) Variable frequency drive for condenser fan for low ambient application. Controlled by the head pressure valve.
- 12.) VAV Systems - All models can be factory packaged with inlet guide vanes control for blower fan(s), damper actuators and linkages, suction accumulators, suction pressure regulator, specially circuited evaporator coils for variable-air-volume applications.
- 13.) Double-Skinned Casing - All models can be provided with double-skinned casing, with sandwiched fibreglass insulation and internal GI liner (perforated or non-perforated) for improved sound attenuation.

S SYSTEM COOLING CAPACITY

PERFORMANCE DATA

UNIT MODEL	STD. CAPACITY MBH	AIR ON EVAP.		AIR TEMPERATURE ON CONDENSER COIL - °F											
		CFM	WB TEMP. °F	75			95			115			125		
				TOTAL MBH¹	SENS MBH²	KW³	TOTAL MBH¹	SENS MBH²	KW³	TOTAL MBH¹	SENS MBH²	KW³	TOTAL MBH¹	SENS MBH²	KW³
TACPS 68C	60.7	2000	72	68.2	36.9	4.2	64.4	35.1	4.5	60.7	31.8	4.7	57.5	30.2	4.9
			67	65.1	49.4	4.1	60.7	46.1	4.4	57.5	43.8	4.6	54.3	41.3	4.8
			62	59.3	59.3	3.9	55.6	55.6	4.3	52.4	52.4	4.5	49.1	49.1	4.7
			57	52.4	52.4	3.9	48.7	48.7	4.3	46.1	46.1	4.5	43.3	43.3	4.6
TACPS 81C	73.0	2400	72	85.2	46.1	5.1	80.4	43.8	5.5	75.8	39.6	5.8	71.7	37.8	6.0
			67	81.3	61.7	5.0	73.0	55.3	5.4	71.7	54.6	5.7	67.9	51.6	5.9
			62	74.1	74.1	4.8	69.4	69.4	5.3	65.4	65.4	5.5	61.4	61.4	5.8
			57	65.5	65.5	4.8	60.8	60.8	5.2	57.6	57.6	5.5	54.0	54.0	5.7
TACPS 95C	85.9	2600	72	96.6	52.9	5.9	91.0	49.9	6.3	85.9	47.1	6.6	76.2	41.9	6.8
			67	92.2	70.3	5.7	85.9	65.6	6.2	81.4	62.2	6.5	72.3	55.2	6.7
			62	84.1	84.1	5.7	78.8	78.8	6.1	74.3	74.3	6.4	65.8	65.7	6.6
			57	74.3	74.3	5.5	69.0	69.0	6.0	65.3	65.3	6.3	57.9	57.6	6.6
TACPS 108C	100.0	3200	72	112.4	61.6	6.9	106.0	58.0	7.3	100.0	54.8	7.7	88.7	48.8	8.0
			67	107.3	81.8	6.7	100.0	76.3	7.2	94.8	72.3	7.6	84.1	64.2	7.9
			62	97.9	97.9	6.6	91.7	91.7	7.1	86.4	86.4	7.5	76.6	76.4	7.8
			57	86.4	86.4	6.4	80.3	80.3	7.1	76.0	76.0	7.4	67.4	67.0	7.7
TACPS 125C	111.6	3500	72	125.5	69.1	7.5	118.3	65.0	8.0	111.6	61.3	8.4	99.4	54.5	8.7
			67	119.8	91.2	7.3	111.6	85.0	8.0	105.8	80.4	8.4	94.2	71.7	8.6
			62	109.2	109.2	7.2	102.3	102.3	7.8	96.5	96.5	8.2	85.9	85.9	8.4
			57	96.5	96.5	7.1	89.5	89.5	7.7	84.8	84.8	8.1	75.7	75.7	8.3
TACPS 145C	130.3	4000	72	145.4	71.6	8.5	133.2	67.4	9.1	129.3	63.5	9.6	115.1	56.5	9.9
			67	138.8	94.5	8.3	130.3	88.1	9.1	122.5	83.3	9.6	109.1	74.3	9.8
			62	126.5	113.2	8.2	119.4	106.0	8.9	111.8	100.0	9.3	99.9	89.4	9.6
			57	111.8	100.0	8.1	104.5	92.8	8.8	98.2	87.9	9.2	89.7	78.5	9.4
TACPS 160C	150.0	4600	72	169.0	99.0	10.3	159.3	93.3	11.0	150.2	87.8	11.5	136.7	80.9	12.0
			67	161.2	129.4	9.9	150.0	120.9	10.9	142.4	118.5	11.4	129.7	107.9	11.9
			62	147.2	147.2	9.8	137.8	137.8	10.7	129.9	129.9	11.1	118.3	118.3	11.7
			57	129.9	129.9	9.7	120.4	120.4	10.5	114.2	114.2	11.0	103.8	103.8	11.5
TACPS 190C	170.0	4800	72	191.4	102.8	11.7	180.3	98.4	12.5	170.0	92.9	13.1	155.4	82.9	13.5
			67	182.6	137.9	11.4	170.0	128.5	12.3	161.3	121.8	12.9	147.4	111.3	13.3
			62	166.5	166.5	11.2	155.9	155.9	12.1	147.2	147.2	12.7	134.6	134.6	13.1
			57	147.2	147.2	11.0	136.5	136.5	11.9	129.3	129.3	12.6	118.3	118.3	12.9
TACPS 220C	200.0	5400	72	226.2	134.9	13.6	213.1	127.2	14.4	200.0	119.1	15.3	179.3	106.8	16.8
			67	212.1	180.0	13.5	200.0	169.7	14.3	187.8	159.3	15.3	168.3	142.7	16.7
			62	196.0	196.0	13.3	185.8	185.8	14.2	173.7	173.7	15.2	155.8	155.7	16.6
			57	177.8	177.8	13.2	167.7	167.7	14.1	151.9	151.9	15.0	135.1	135.1	16.5
TACPS 250C	225.0	6400	72	251.0	136.0	15.2	236.6	128.1	16.2	223.2	120.8	16.9	200.9	108.7	17.6
			67	239.5	178.5	14.7	225.0	168.0	16.1	211.6	159.4	16.8	190.5	143.2	17.4
			62	218.5	210.9	14.5	204.6	204.6	15.7	193.0	193.0	16.5	174.0	172.5	17.1
			57	193.0	193.0	14.3	179.0	179.0	15.5	169.6	169.6	16.3	153.0	153.0	16.8
TACPS 285C	260.0	7500	72	290.0	149.5	17.7	273.1	140.7	18.8	256.4	132.2	20.0	235.7	121.5	21.5
			67	271.9	191.7	17.6	260.0	180.8	18.6	240.9	169.7	19.9	221.3	156.0	21.4
			62	250.9	230.9	17.3	238.2	219.0	18.6	222.7	204.6	19.8	204.6	188.2	21.3
			57	227.9	227.9	17.2	215.0	215.0	18.4	197.5	197.5	19.6	177.6	177.6	21.1
TACPS 320C	300.0	8000	72	339.4	173.8	20.6	319.8	163.8	21.9	300.0	153.8	23.2	268.9	137.8	25.0
			67	318.2	221.5	20.5	300.0	208.7	21.7	281.8	196.1	23.1	252.4	175.7	24.7
			62	294.0	265.2	20.1	278.7	242.4	21.5	251.4	235.3	23.0	233.6	210.9	24.5
			57	266.7	266.7	20.0	251.5	251.5	21.4	227.8	227.8	22.8	202.6	202.6	24.3
TACPS 380C	350.0	9200	72	393.4	209.6	24.1	370.7	197.5	25.5	349.7	186.3	27.1	313.4	166.5	29.0
			67	375.2	276.2	23.9	350.0	257.4	25.4	331.4	244.1	27.0	297.2	218.4	28.8
			62	342.2	334.2	23.5	320.7	313.1	25.2	302.5	295.4	26.8	271.5	264.4	28.6
			57	302.5	302.5	23.3	280.4	280.4	25.0	265.7	265.7	26.6	238.6	238.0	28.4
TACPS 445C	400.9	11500	72	453.5	234.1	27.4	427.1	220.5	29.1	400.8	206.8	30.9	368.6	183.2	33.0
			67	425.0	302.3	27.2	400.9	282.5	29.1	376.5	265.5	30.7	346.0	243.9	32.8
			62	392.7	362.4	26.7	372.4	343.7	28.7	348.2	321.3	30.6	320.2	295.2	32.6
			57	356.3	356.3	26.6	335.9	335.9	28.4	304.5	304.5	30.3	277.7	277.5	32.3

NOTES: 1.) RATINGS ARE GROSS CAPACITIES - FOR NET CAPACITIES, DEDUCT EVAPORATOR BLOWER MOTOR HEAT.
2.) AT 80 °F (26.6°C) AIR ON EVAPORATOR.
3.) COMPRESSOR KW INPUT.

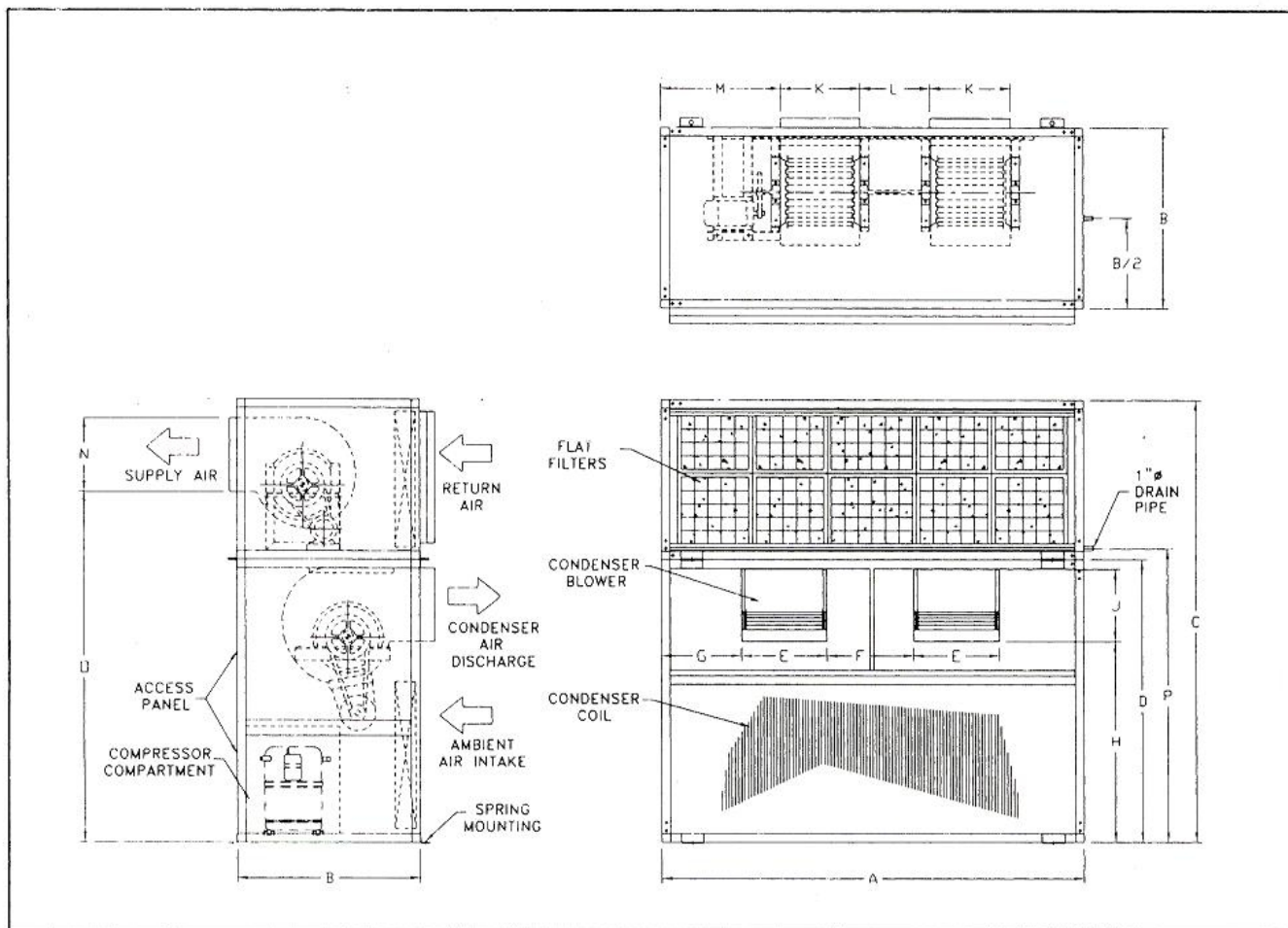
E VAPORATOR BLOWER PERFORMANCE

AVAILABLE EXTERNAL STATIC PRESSURE - IWG - FOR ACCESSORIES AND DUCT SYSTEM STATIC RESISTANCE (ALLOWANCE MADE FOR WET COIL AND FILTERS)

RPM	CFM										FAN MODEL
	SP	BHP	SP	BHP	SP	BHP	SP	BHP	SP	BHP	
TACPS 68C											
	1600		1800		2000		2200		2400		ONE A10 - 10A
800	0.31	0.32	0.22	0.40	0.20	0.45	0.10	0.50	-	-	
900	0.49	0.36	0.42	0.44	0.40	0.51	0.31	0.61	0.25	0.68	
1000	0.70	0.44	0.65	0.52	0.60	0.62	0.59	0.70	0.50	0.79	
1100	0.91	0.56	0.90	0.63	0.86	0.73	0.92	0.82	0.78	0.88	
TACPS 81C											
	2000		2200		2400		2600		2800		ONE A10 - 10A
1000	0.59	0.62	0.50	0.71	0.40	0.81	0.27	0.90	0.13	1.00	
1100	0.85	0.73	0.77	0.83	0.67	0.93	0.57	1.05	0.44	1.17	
1200	1.10	0.84	1.05	0.96	0.96	1.07	0.87	1.20	0.72	1.33	
1300	1.39	0.97	1.35	1.10	1.27	1.23	1.18	1.37	1.07	1.52	
TACPS 95C											
	2400		2600		2800		3000		3200		ONE A12 - 12A
700	0.45	0.55	0.43	0.63	0.30	0.70	0.17	0.75	0.15	0.80	
800	0.65	0.68	0.63	0.75	0.50	0.82	0.47	0.87	0.42	1.00	
900	0.95	0.75	0.93	0.88	0.85	1.00	0.77	1.10	0.74	1.23	
1000	1.15	1.00	1.13	1.10	1.10	1.20	1.05	1.30	1.00	1.40	
TACPS 108C											
	2800		3000		3200		3400		3600		ONE A12 - 12A
800	0.55	0.82	0.47	0.89	0.45	1.00	0.40	1.11	0.29	1.19	
900	0.86	1.00	0.79	1.09	0.76	1.20	0.72	1.33	0.64	1.44	
1000	1.18	1.20	1.12	1.30	1.07	1.41	1.02	1.54	0.97	1.68	
1100	1.50	1.40	1.47	1.53	1.45	1.67	1.42	1.83	1.38	1.98	
TACPS 125C											
	3100		3300		3500		3700		3900		ONE A12 - 12A
900	0.85	1.17	0.77	1.26	0.73	1.38	0.67	1.51	0.58	1.62	
1000	1.15	1.36	1.08	1.47	1.05	1.61	0.97	1.73	0.90	1.86	
1100	1.54	1.63	1.47	1.75	1.40	1.87	1.37	2.04	1.32	2.20	
1200	1.88	1.86	1.85	2.02	1.80	2.17	1.74	2.33	1.70	2.51	
TACPS 145C											
	3500		3700		3900		4100		4300		ONE A12 - 12A
900	0.92	1.51	0.89	1.65	0.85	1.80	0.79	1.92	1.11	2.09	
1000	1.23	1.78	1.22	1.93	1.19	2.08	1.16	2.25	1.11	2.43	
1100	1.54	2.09	1.54	2.24	1.54	2.43	1.52	2.60	1.49	2.79	
1200	1.86	2.43	1.88	2.60	1.88	2.80	1.88	2.96	1.87	3.19	
TACPS 160C											
	4000		4400		4600		4800		5000		ONE A15 - 15A
650	0.44	0.80	0.39	1.10	0.32	1.25	0.24	1.45	0.12	1.70	
750	0.82	1.20	0.74	1.35	0.69	1.50	0.64	1.75	0.57	2.00	
850	1.20	1.50	1.16	1.70	1.10	1.90	1.02	2.20	0.94	2.40	
950	1.59	1.80	1.53	2.10	1.47	2.40	1.44	2.60	1.39	2.85	
TACPS 190C											
	4000		4400		4800		5000		5200		ONE A15 - 15A
700	0.55	1.21	0.44	1.38	0.36	1.59	0.29	1.68	0.24	1.80	
800	0.91	1.51	0.82	1.71	0.74	1.94	0.67	2.05	0.62	2.17	
900	1.31	1.87	1.24	2.10	1.16	2.35	1.10	2.48	1.04	2.61	
1000	1.73	2.27	1.68	2.53	1.62	2.82	1.57	2.97	1.51	3.11	
TACPS 220C											
	4600		5000		5400		5800		6200		ONE A15 - 15A
800	0.97	1.83	0.88	2.05	0.79	2.29	0.70	2.57	0.62	2.89	
900	1.37	2.21	1.31	2.48	1.21	2.74	1.15	3.07	1.05	3.37	
1000	1.84	2.68	1.77	2.96	1.69	3.26	1.61	3.60	1.52	3.94	
1100	2.30	3.17	2.26	3.50	2.21	3.85	2.13	4.21	2.05	4.60	
TACPS 250C											
	5600		6000		6400		6800		7200		TWO A15 - 11A
600	0.23	1.27	0.18	1.42	0.11	1.57	0.02	1.71	-	-	
700	0.55	1.63	0.49	1.79	0.43	1.97	0.37	2.17	0.30	2.36	
800	0.93	2.00	0.88	2.27	0.82	2.47	0.75	2.68	0.67	2.88	
900	1.39	2.58	1.28	2.75	1.23	2.95	1.16	3.26	1.10	3.51	
TACPS 285C											
	6500		7000		7500		8000		8500		TWO A15 - 11A
700	0.69	2.02	0.44	2.25	0.58	2.49	0.50	2.73	0.42	3.01	
800	1.09	2.54	0.83	2.79	0.96	3.04	0.90	3.34	0.83	3.66	
900	1.49	3.00	1.22	3.35	1.35	3.63	1.30	3.97	1.25	4.35	
1000	1.91	3.67	1.67	4.73	1.83	4.37	1.80	4.78	1.75	5.20	
TACPS 320C											
	7200		7600		8000		8400		8800		TWO A15 - 11A
700	0.51	2.32	0.43	2.48	0.39	2.72	0.28	2.87	0.22	3.12	
800	0.91	2.88	0.85	3.10	0.80	3.34	0.71	3.55	0.62	3.78	
900	1.31	3.47	1.27	3.73	1.23	4.02	1.16	4.29	1.10	4.59	
1000	1.77	4.29	1.73	4.45	1.70	4.78	1.65	5.11	1.60	5.46	
TACPS 380C											
	7600		8400		9200		10000		10800		TWO A15 - 11A
800	0.89	3.10	0.79	3.60	0.64	4.12	0.47	4.67	0.29	5.26	
900	1.32	3.75	1.21	4.29	1.09	4.90	0.94	5.56	0.79	6.27	
1000	1.77	4.45	1.70	5.11	1.59	5.80	1.45	6.53	1.29	7.29	
1100	2.27	5.24	2.21	5.99	2.12	6.78	1.96	7.53	-	-	
TACPS 445C											
	9200		10400		11500		12400		13200		TWO A15 - 15A
800	1.01	3.67	0.89	4.33	0.79	5.10	0.68	5.77	0.52	6.36	
900	1.41	4.42	1.32	5.22	1.22	6.04	1.11	6.75	1.02	7.48	
1000	1.88	5.83	1.79	6.22	1.69	7.12	1.58	7.88	1.50	8.68	
1100	2.33	6.35	2.29	7.45	2.21	8.35	2.11	9.20	2.03	10.00	

DIMENSIONAL DATA

TOPAIRE CENTRIFUGAL CONDENSER FAN PACKAGE AIR-CONDITIONER FOR DUCTED CONDENSER AIR DISCHARGE



DIMENSION - Inches

MODEL TACPS-C	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P
68	47	38	77	50	16	-	15 1/2	35	11 1/2	13 1/2	-	17	11 1/2	57	52
81	47	38	77	50	19	-	14	37	13 1/2	13 1/2	-	17	11 1/2	57	52
95	58	38	81	54	19	-	19 1/2	35	13 1/2	16	-	21	13 1/2	65	56
108	58	38	81	54	19	-	19 1/2	35	16	16	-	21	13 1/2	65	56
125	58	38	89	58	19	-	19 1/2	39	16	16	-	21	13 1/2	71	60
145	58	38	89	58	19	-	19 1/2	39	16	16	-	21	13 1/2	71	60
160	72 1/2	41 1/2	89	58	15	14	14	39	16	19	-	27	16	69	60
190	72 1/2	41 1/2	89	58	15	14	14	39	16	19	-	27	16	69	60
220	72 1/2	41 1/2	95	64	19	14	10	45	16	19	-	27	16	75	66
250	81 1/2	41 1/2	95	64	19	14	15	45	16	15	14	23	16	75	66
285	87 1/2	45 1/2	105	66	17 1/2	20	16	44	19	15	14	25	16	85	68
320	87 1/2	45 1/2	115	76	22	18	13	54	19	15	14	26	16	95	78
380	116	48	125	83	23	24	23	55	25	15	14	36	16	100	85
445	116	48	125	83	23	24	23	55	25	19	16	36	16	100	85

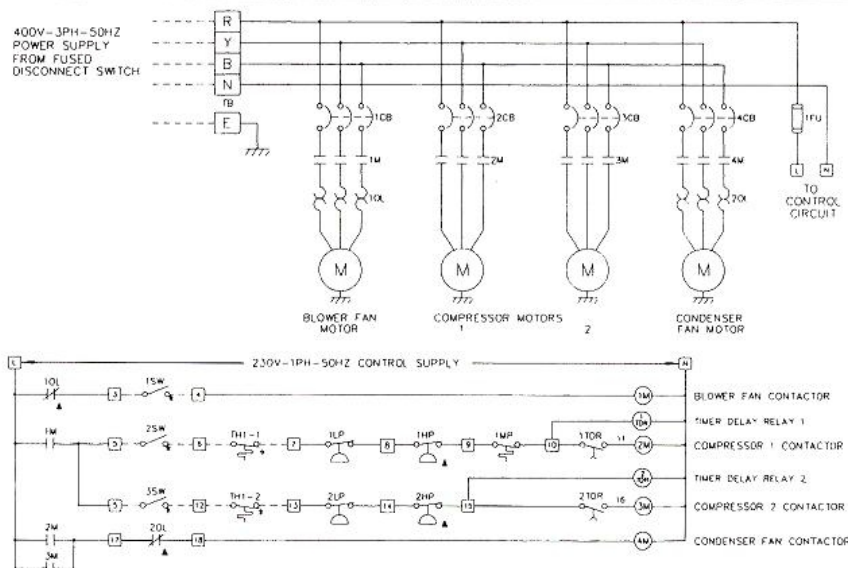
- NOTES: 1.) TACPS 68C TO 145C — ONE EVAPORATOR BLOWER AND ONE CONDENSER BLOWER.
2.) TACPS 160C AND 220C — ONE EVAPORATOR BLOWER AND TWO CONDENSER BLOWERS.
3.) TACPS 250C AND ABOVE — TWO EVAPORATOR BLOWERS AND TWO CONDENSER BLOWERS.
4.) UNIT WILL BE DELIVERED IN ONE SECTION UNLESS SPECIFIED. FOR SPLIT CONDENSING SECTION, PIPING HAVE TO BE CONNECTED AT SITE.

P HYSICAL DATA

TACPS-C MODEL	68	81	95	108	125	145	160	190	220	250	285	320	380	445
COMPRESSOR														
QTY	1	1	1	1	1	1	1	1	2	2	2	2	2	3
POWER SUPPLY	400V - 3 - 50HZ													
MRA EACH	1x14.0	1x17.0	1x19.0	1x20.0	1x29.0	1x27.4	1x29.0	1x35.0	2x20.0	2x29.0	1x29.0 1x29.0	2x29.0	2x35.0	1x29.0 2x29.0
LRA EACH	1x74.0	1x86.0	1x98.0	1x130.0	1x130.0	1x125.0	1x150.0	1x175.0	2x130.0	2x130.0	1x130.0 1x150.0	2x150.0	2x175.0	1x130.0 2x150.0
NRA EACH	1x7.8	1x10.4	1x12.2	1x13.7	1x15.7	1x16.3	1x19.0	1x23.3	2x13.7	2x15.7	1x15.7 1x19.0	2x19.0	2x23.3	1x15.7 2x19.0
CONDENSER SECTION														
(QTY) DIA. x WIDTH (INCH)	(1) 12x12	(1) 12x15	(1) 12x12	(1) 15x15	(1) 15x15	(1) 15x15	(2) 15x11	(2) 15x11	(2) 15x15	(2) 15x15	(2) 18x13	(2) 18x18	(2) FDA500	(2) FDA500
AIR FLOW CFM	3800	4100	4900	5400	6400	6400	8000	8400	10200	11000	13000	14500	17000	18000
MOTOR HP	2.0	3.0	4.0	3.0	4.0	4.0	4.0	5.0	5.5	7.5	7.5	7.5	7.5	10.0
CONDENSER COIL														
FACE AREA (FT ²)	6.1	6.9	7.9	10.4	11.8	11.8	15.1	15.1	17.8	20.3	22.2	27.8	36.1	36.1
ROWS / FPI	4/14	4/14	4/14	4/14	4/14	5/14	4/14	5/14	5/14	5/14	5/14	5/14	5/14	6/14
EVAPORATOR SECTION														
BLOWER (QTY) DIA. x WIDTH (INCH)	1 10x10	1 10x10	1 12x12	1 12x12	1 12x12	1 12x12	1 15x15	1 15x15	1 15x15	2 15x11	2 15x11	2 15x11	2 15x11	2 15x15
MOTOR MAX HP	2.0	2.0	2.0	4.0	4.0	4.0	4.0	5.5	5.5	7.5	10.0	10.0	15.0	15.0
AIR FLOW MIN- MAX CFM	1600 2800	1600 2800	2000 3700	2200 4000	3100 4300	3100 4300	2700 5000	2800 5200	3500 6400	4000 7300	5400 10000	5400 10000	6400 11800	7000 12800
EVAPORATOR COIL														
ROWS / FPI	3/12	3/13	3/12	3/12	3/12	4/12	3/12	4/12	4/12	4/12	3/12	4/12	4/12	4/12
NOM. FACE AREA (FT ²)	5.0	5.0	6.7	7.3	7.9	7.9	9.3	9.3	11.7	13.2	18.0	18.0	21.4	23.3
FILTERS														
(QTY.) SIZE (INCH)	(2) 20x20x1	(2) 20x20x1	(2) 20x20x1	(2) 25x25x1	(2) 25x25x1	(2) 25x25x1	(2) 25x25x1	(2) 25x25x1	(1) 25x16x1 (1) 25x20x1 (1) 25x25x1	(2) 25x16x1 (2) 25x20x1	(4) 16x16x1 (4) 25x16x1	(4) 16x16x1 (4) 25x16x1	(1) 16x16x1 (1) 16x25x1 (3) 25x16x1 (3) 25x20x1	(4) 16x20x1 (1) 16x25x1 (4) 20x20x1 (1) 20x25x1
REFRIGERANT CHARGE														
QTY. PER COMPRESSOR (LBS)	1x8.8	1x10.3	1x10.3	1x11.0	1x11.4	1x16.0	1x12.1	1x19.4	1x10.3 1x11.4	2x11.4	1x11.4 1x12.1	2x12.1	2x19.4	1x11.4 2x12.1
APPROX OPERATING WEIGHT (LBS)	590	630	770	920	1060	1100	1240	1600	1750	1930	2100	2800	3200	3800

- NOTES: 1.) CONDENSER FAN MOTOR HP SELECTED BASED ON EXTERNAL STATIC PRESSURE OF NOT EXCEEDING 0.6" WG. FOR ESP ABOVE 0.6" WG. REFER TO NEAREST TOPAIRE SALES OFFICE FOR CONDENSER FAN PERFORMANCE CURVES
2.) MINIMUM - MAXIMUM VOLTAGE IS 360V TO 440V.
3.) MTA - MAXIMUM MUST TRIP AMP FOR TACPS 81C TO TACPS 445C.
4.) RLA - RATED LOAD AMP FOR TACPS 68C.
5.) LRA - LOCKED ROTOR AMP.
6.) NRA - NOMINAL RUNNING AMP.
7.) FLA - FULL LOAD AMP.

TYPICAL WIRING SCHEMATIC



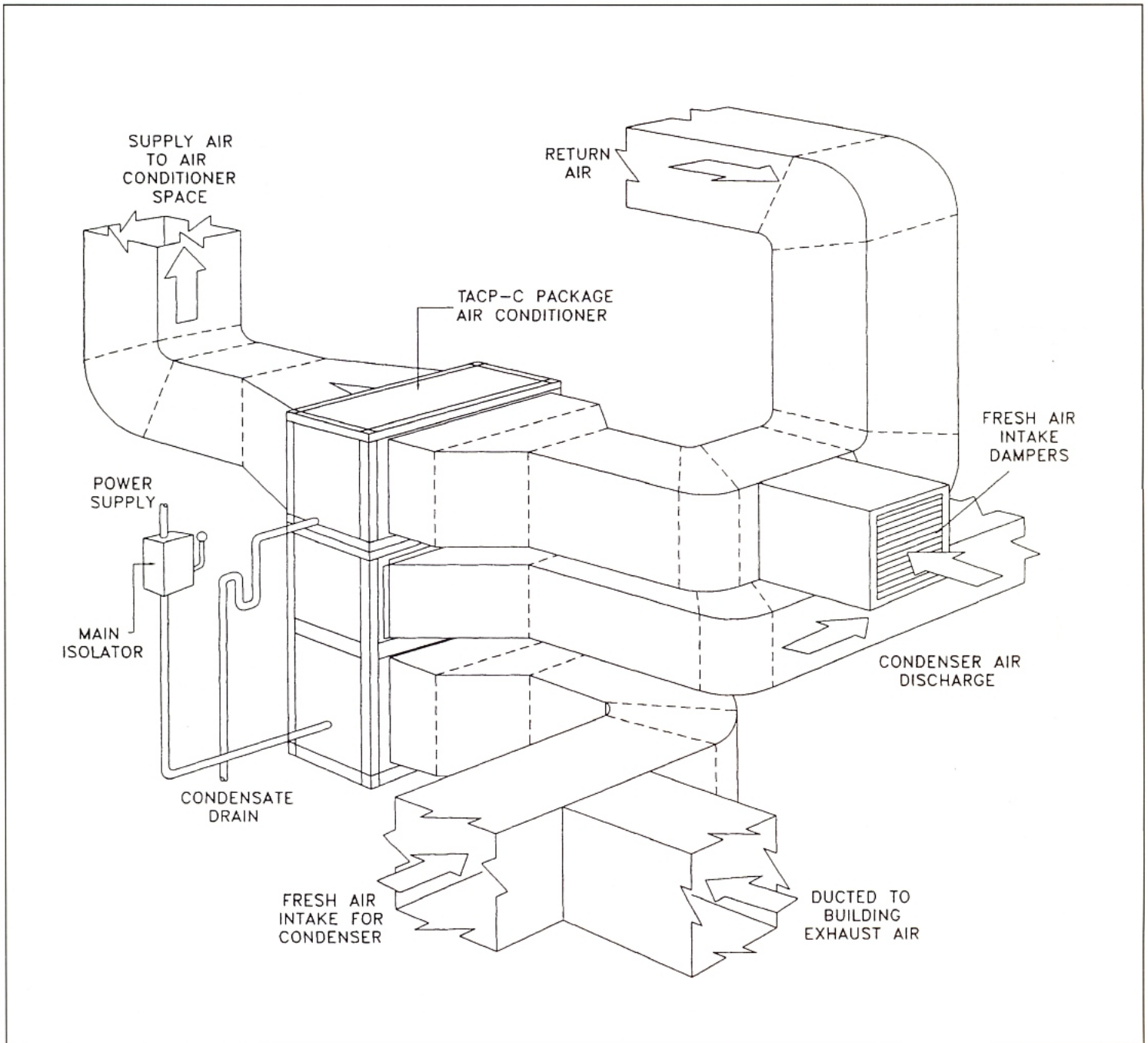
LEGEND

- ATH = AMBIENT THERMOSTAT
M = CONTACTOR
CB = CIRCUIT BREAKER
FLA = FULL LOAD AMPERE
FU = FUSE
HP = MOTOR HORSE POWER
HP = HIGH PRESSURE SWITCH
LP = LOW PRESSURE SWITCH
LRA = LOCKED ROTOR AMPERE
MCA = MINIMUM CIRCUIT AMPERE
MFS = MAXIMUM FUSE SIZE
MP = MOTOR PROTECTOR
MRA = MAXIMUM RUNNING AMPERE
MTA = MAXIMUM MUST TRIP AMPERE
NRA = NOMINAL RUNNING AMPERE
OL = OVERLOAD PROTECTOR
RLA = RATED LOAD AMPERE
SW = SWITCH
TB = TERMINAL BLOCK
TDR = TIMER DELAY RELAY
TH = THERMOSTAT
* = FIELD SUPPLY
▲ = MANUAL RESET
--- = FIELD WIRING
— = FACTORY WIRING



air conditioner

TYPICAL INSTALLATION WITH AIR DUCTS



ALL SPECIFICATIONS ARE SUBJECT TO CHANGE BY MANUFACTURER WITHOUT PRIOR NOTICE

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Lot 8, Jalan P/7 Seksyen 13, Kawasan Perusahaan Bangi,
43650 Bandar Baru Bangi, Selangor Darul Ehsan.

Tel: 8925 2022 Fax: 8925 5605 E-mail: topaire@tm.net.my

• **PENANG BRANCH** - No. 4, Lengkok Kikik 2, Taman Inderawasih, 13600 Prai, Pulau Pinang. Tel: 04-399 2050/1 Fax: 04-398 2050

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