Wind Industries, Inc.
Smart Air conditioners for smart people

Rooftop Packaged Unit

PC Series

- 5 To 40 Tons Nominal

Cooling & H.Pump

www.windind.com

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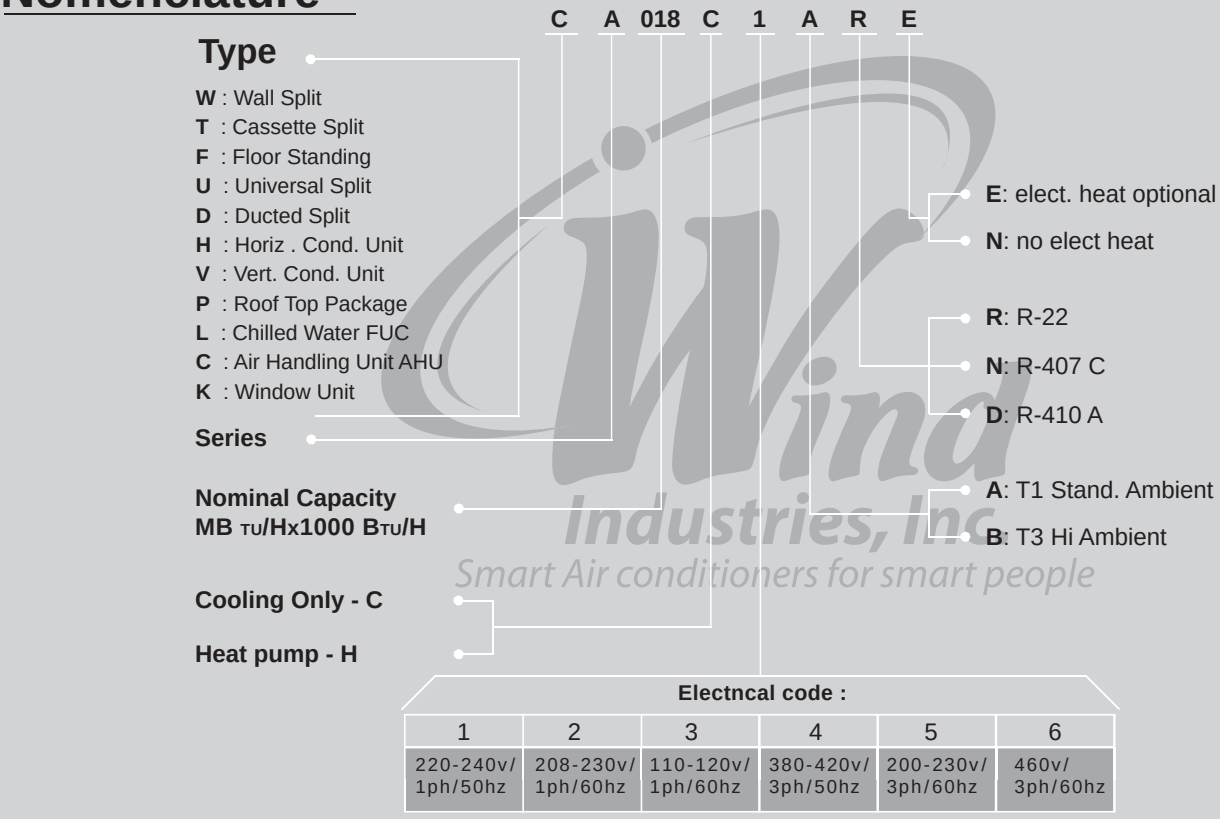
Nomenclature



CONTENTS

DESCRIPTION AND FEATURES

The *WIND* Single Package Units are ruggedly constructed To deliver years of dependable performance under the most Demanding outdoor conditions. Specify ***WIND*** Single Package Units whenever high-efficiency, high-quality, low-Noise, low-cost cooling is a necessity.

COMPONENT DESCRIPTIONS

Compressor : ***WIND*** Single Package Units incorporate the Highest quality scroll Cheapened compressors, which are Specifically designed for applications where high Compression ratios and large variations in temperature are Encountered.
The Models PC060 to PC480 features the hermetic scroll Compressors which offers the following :

- Axial and radial compliance allows the scroll members To separate in the presence of liquid refrigerant, Delivering unparalleled liquid handling capability.
- 70% fewer moving parts offer enhanced performance Without complicated design.
- Ability to start under any system load.
- Scroll compressors operate eight times quieter than any Reciprocating technology.

Motor windings are completely protected from high velocity Entering suction gas by suction screen. Only low velocity Suction gas arrives at the motor windings.

Low heat losses are achieved because the suction gas must Pass over the motor before entering the scroll. This enables The gas to recover the maximum motor heat to transfer to The condenser, giving a high Coefficient of Performance (C.O.P)

100% gas cooled motor maintains a running temperature, Which is up to 35 °F lower than equivalent hermetic compressors : the Lower the temperature the longer the life.

Internal motor protection offers thermal and current Protection cutting out between +220 °F and 230 °F, which Is around 35 °F lower than equivalent compressors.

High temperature operation is possible without external Cooling.

Phase monitor option comprises with phase protector, Voltage and unbalance with pilot lamp.

Time Guard circuit Forestalls compressor short cycling by Requiring a delay of several minutes before compressor can Restart after stopping.

Condenser coils: ***WIND*** Single Package Units use an Aluminum fin on copper tube coil construction, designed For maximum heat transfer and circulated for sub-cooling. Ripple-edged, semisolid patterned aluminum plate fins are Mechanically bonded to seamless copper tubes tested to 450 P.S.I. (3100 Kpa) internal pressure, prior to installation in The unit. All standard coils are 3 or 4 row / 12-14 FPI, 3/8" (9.5mm) O.D. Tubes. An integral sub cooling circuit is provided To increase the cooling capacity, without additional Operating costs.
For different application requirements, other optional Condenser fin materials are available, such as :

- Copper coil golden coating
- Copper fins
- Copper fins electro-tinned after manufacturing

Ample condenser surface and sensible air flow cross the Condenser ensures a low temp. differential between Condensing temperature and the high ambient giving ***WIND*** package units the capability of optimal performance In the demanding climate of the M. East.

Evaporator coils: ***WIND*** Single Package Units use an Aluminum fin on copper tube coil construction, designed For maximum heat transfer, with a 50/50 intertwined circuits. Rippled-corrugated fins in selective 8, 10 or 12 FPI spacing And nominal 3/8" Dia. Copper tubes are mechanically Expanded to fin holes to assure optimum tube-to-fin contact And brazed with return bends.
Each of the manufactured coils are leak tested with 350 Psig .

All-weather cabinets and panels Protected for maximum Durability, casings are constructed of prime grade G60 Galvanized steel, pre-treated and finished in a baked, Weather resistant powder paint. Exterior panels are designed To resist the elements and to create an attractive unit well Suited to any building environment. Panels are also easily Removed to facilitate maintenance without affecting normal Operation of the unit (a serviceman's dream). Openings are Provided for power and drain connections.

Direct drive condenser fans: This feature ensures quiet, Dependable operation via advanced fan and venture design Concepts. Fans are arranged for vertical discharge, all are Propeller type, alum. Alloy blades, directly driven by electric Motors. Motors are totally enclosed air over (TEAO) with class 'F' insulation. The condenser fans are individually statically And dynamically balanced at the factory. Complete fan Assembly is provided with suitable acrylic coated fan guard.

Belt driven evaporator fans : All fans are double inlet double Width (DIDW) centrifugal forward curved impellers for Optimum application to provide required air volume and Static pressure . The belt driven fans allow for maximum on-Site flexibility without changing motors or drive speeds. Internally mounted motors and drives are contained in a Moving air environment where only cool, filtered, Dehumidified air is circulated. The result is longer motor Bearing and belt life with less servicing. Rugged pillow block Bearings are secured to a solid steel fan shaft with an Eccentric clamp locking device(average minimum life of 200,000 hours.)

Evaporator fan motor : All motors are induction type totally Enclosed fan cooled good for 3-phase, alternating current Totally sealed ball bearings are used.

CONSTRUCTION FEATURES

Compact design: Each machine's compact design allows Not only for a small footprint, but optimizes the use of Container space for shipment.

Sturdy chassis: The tough chassis and base rail have forklift Openings and lifting points to facilitate easy handling and Hoisting.

Coil guards: Attractive backed enamel finished steel coil Guard protects coils from damage during handling and Discourage vandalism.

Evaporator coil section: The full-sized condensate drain pan and entire coil section are completely insulated with 1/2" thick fiberglass insulation material. This prevents outside ambient temperatures from affecting the operation of the thermostatic expansion bulb.

Motor brackets : Sturdy motor brackets are slotted for belt tensioning and can accept various motor frame sizes.

Air filters : ***WIND*** **PC** series package units are supplied with 1 inch thick cleanable air filter. (2 Inch thick for option)

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FACTORY INSTALLED

WIND Single Package Units are factory fitted with the following protective devices:

High pressure switch: Protects the entire refrigerant system from abnormally high operating pressures.

Low pressure switch: Protects against low pressure conditions and loss of refrigerant charge.

Crankcase heater: Optional on all units. Helps keep oil in the crankcase and liquid refrigerant out.

Positive acting timer: Prevents short cycling of the compressor if power supply is interrupted. The timer keeps the compressor off for approximately five minutes after shutdown.

Motor protection: Both temperature and current sensing devices are provided to prevent failure from electrical overload.

Fan safety guards: Fans are provided with safety guards as well as rain shields for fan motor protection.

Head pressure control: Built in through fan cycling. In units with multiple fans, these are cycled by a head pressure sensor. Individual fans are partitioned off to ensure maximum cooling efficiency during cycle. This is also achieved in the WIND Single Package Units by an air sensor switch. Compressor and control panels are physically separated from the condenser area so that system checks may be carried out without affecting unit performance.

ACCESSORIES

Economizer : A fully modulating damper motor positions outside and return air dampers so that outside air will be used to satisfy the building cooling load. Either outdoor air temperature changeover control or enthalpy control is available.

Relief Damper : Gravity operated damper and hood assembly for use with economizer to relieve positive building pressure.

SELECTION PROCEDURE

1) Determine cooling requirements at design conditions.

Example:Given:

Required Cooling Capacity (TC) ..... 240,000 Btuh
Sensible Heat Capacity (SHC)..... 186,000 Btuh
Condenser Entering Air Temperature..... 95 ^{O}F
Indoor Air Temperature ..... 80 ^{O}F edb, 67 ^{O}F ewb
Evaporator Air Quantity ..... 8,000 cfm
External Static Pressure ..... 0.6 in. wg
Electrical Charact eristics (V-Ph-Hz)..... 380-3-50

2.) Select unit based on required cooling capacity.

Enter Cooling Capacities table at condenser entering temperature of 95 ^{O}F. Unit WPA-240-yc4 at 8,000 cfm and air on coil of 80 ^{O}F edb 67 ^{O}F ewb will provide a total capacity of 240,200 Btuh and a SHC of 195,170 Btuh.

3.) Determine fan speed and power requirements at design conditions.

Enter Fan Performance table at 8,000 cfm and 0.6 in. wg. Note that the fan speed is 929 rpm and the power required is 4.64bhp. Therefore the standard motor and drive of 5 Hp is suitable.

MODEL ASSIGNMENT

P - C - 060 - C 4

ELECTRICAL	DESCRIPTION
1	115/1/50-60
2	208-230/1/60
3	220-240/1/50
4	380-415/3/50
5	208-230/3/60

C	COOLING ONLY
H	HEAT PUMP

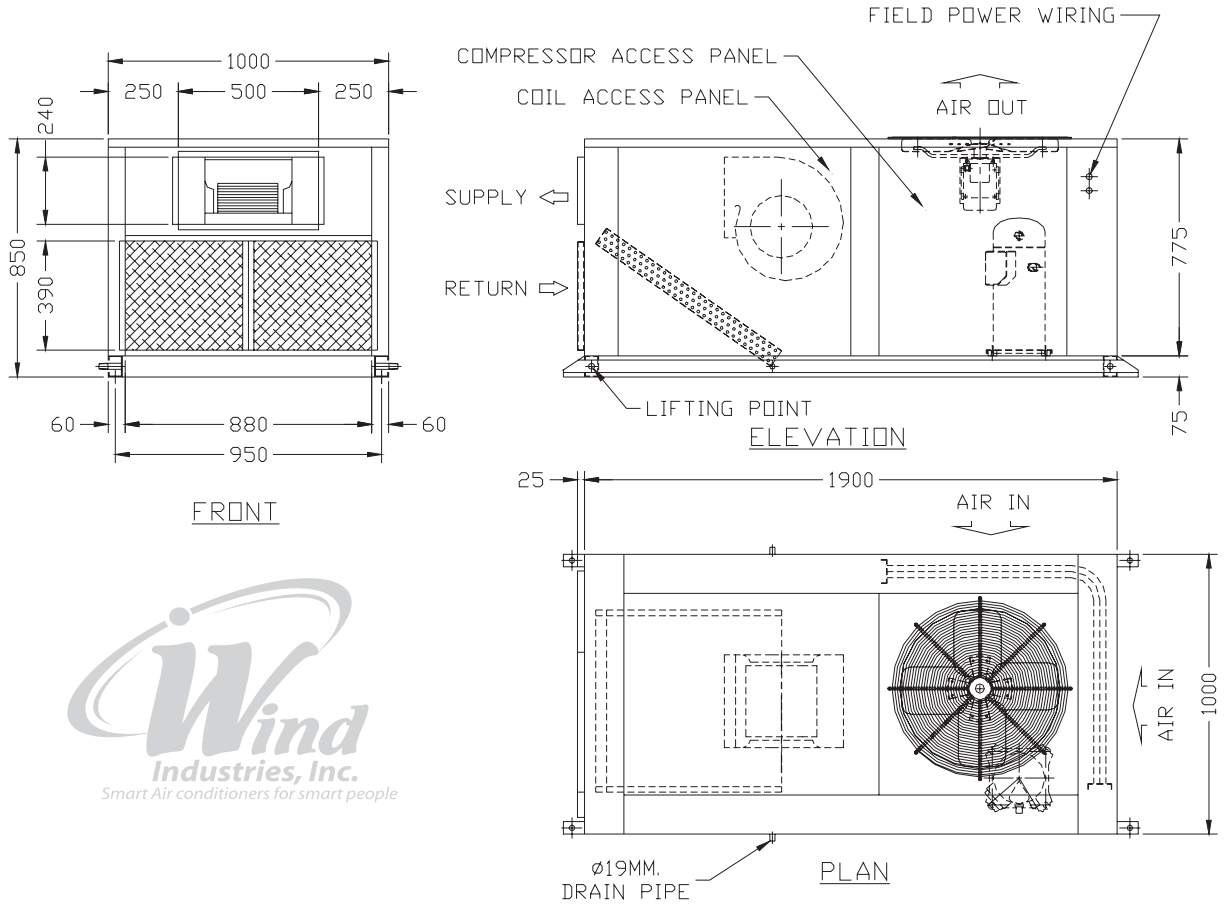
SIZE	NOMINAL COOLING CAPACITY MBH
060	60
096	96
120	120
180	180
240	240
300	300
360	360
480	480

SERIES	DESCRIPTION
A	SERIES A
B	SERIES B
C	SERIES C
D	SERIES D
E	SERIES E
F	SERIES F
G	SERIES G
H	SERIES H
.	.
.	.
.	.
.	.
Z	SERIES Z

TYPE	DESCRIPTION
P	PACKAGED UNIT

DIMENSIONS UNIT

PC-060-C4

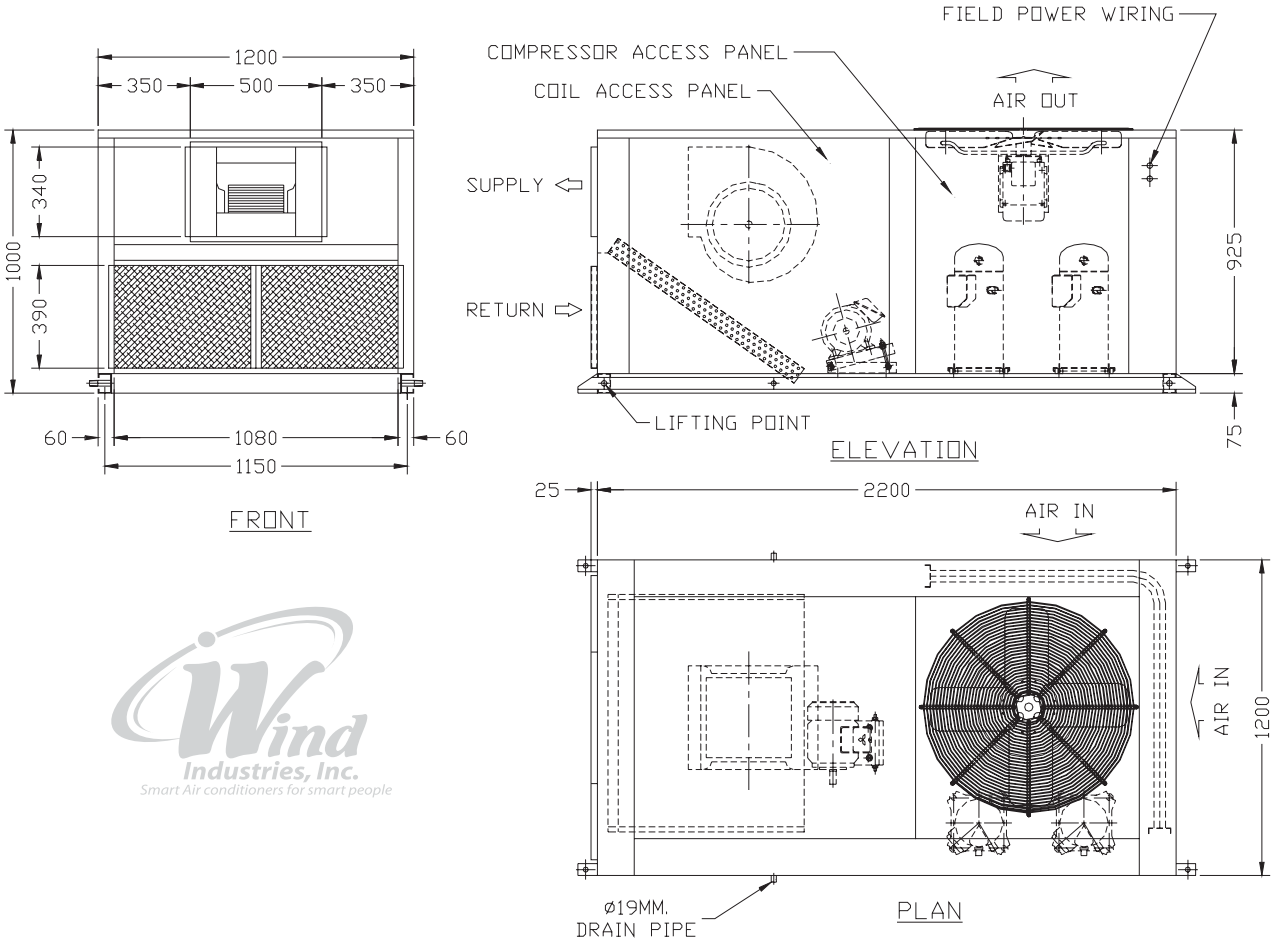


NOTES :

1. Dimensions are in millimeters.
2. ⇨Direction of airflow.
3. Ductwork to be attached to flanges on discharge openings.
4. Minimum clearance (local codes or jurisdiction may prevail):
   (a) Bottom to combustible surfaces is 1 in. on horizontal discharge units.
   (b) Condenser coil, for proper airflow, 36 in. one side, 12 in. the other. The side getting the greater clearance is optional.
   (c) Overhead, 60 in. to ensure proper condenser fan operation.
   (d) Horizontal supply and return and, 0 in.
   (e) Between units, control box side, 42 in. per NEC (National Electrical Code.)
   (f) Between unit and ungrounded surfaces, control box side, 36 in. per NEC.
   (g) Between unit and block or concrete walls and other grounded surfaces, control box side, 42 in. per NEC.
5. With the exception of the clearance for the condenser coil as stated in notes 4 (b) and (c), a removable fence or barricade requires no clearance.
6. Units may be installed on combustible floors made from wood or class A, B, or C roof covering material.

DIMENSIONS UNIT

PC-096-120-C4



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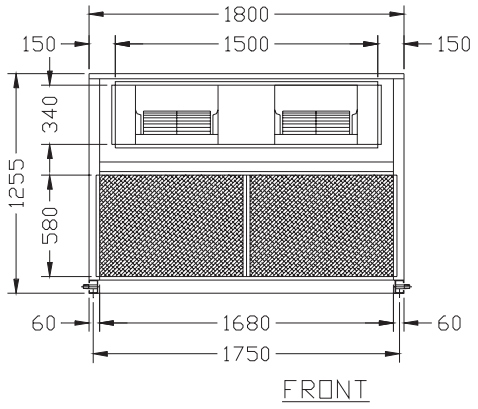
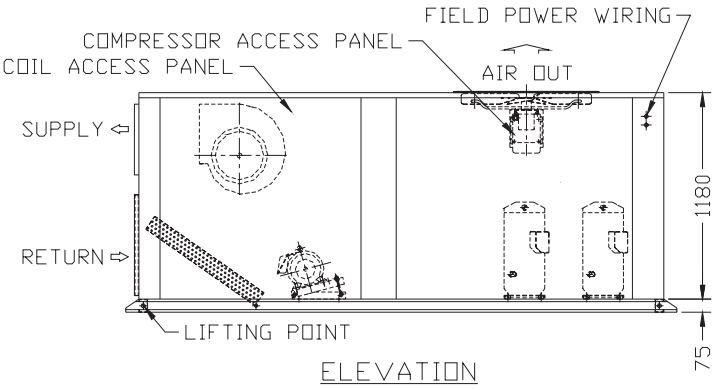
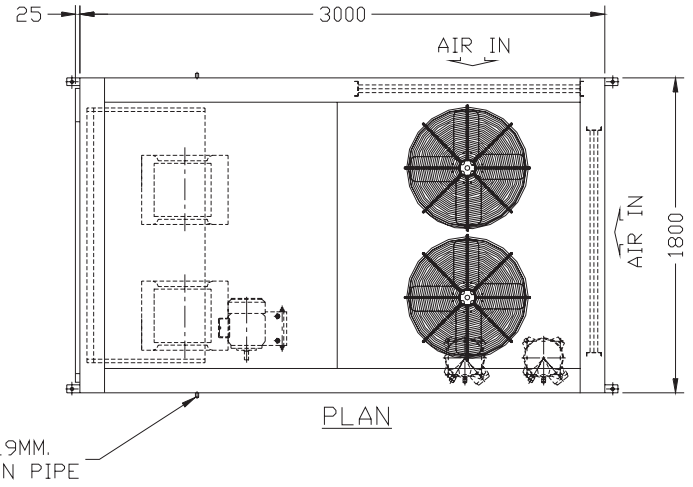
DIMENSIONS UNIT

PC-180-240-C4







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4. Minimum clearance (local codes or jurisdiction may prevail):
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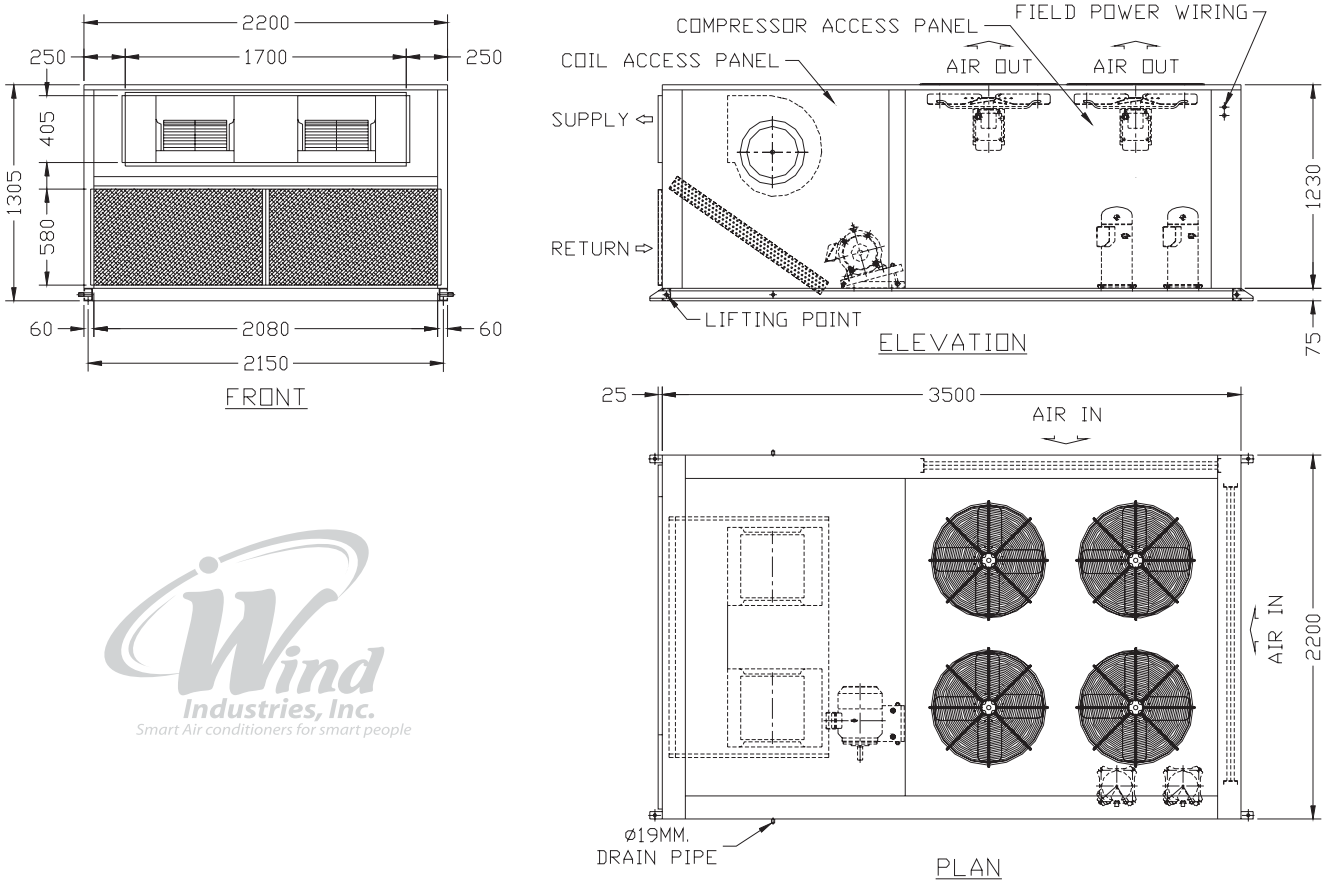
DIMENSIONS UNIT

PC-300-360-C4



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   (d) Horizontal supply and return and, 0 in.
   (e) Between units, control box side, 42 in. per NEC (National Electrical Code.)
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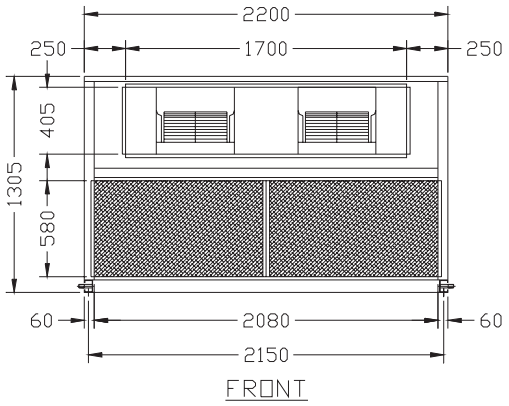
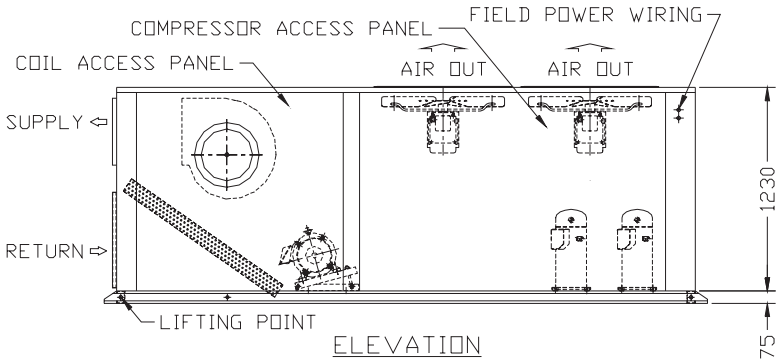
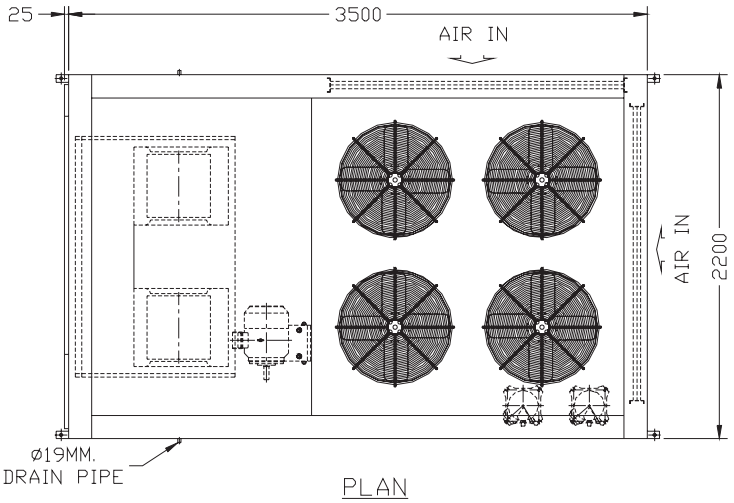
DIMENSIONS UNIT

PC-480-C4







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4. Minimum clearance (local codes or jurisdiction may prevail):
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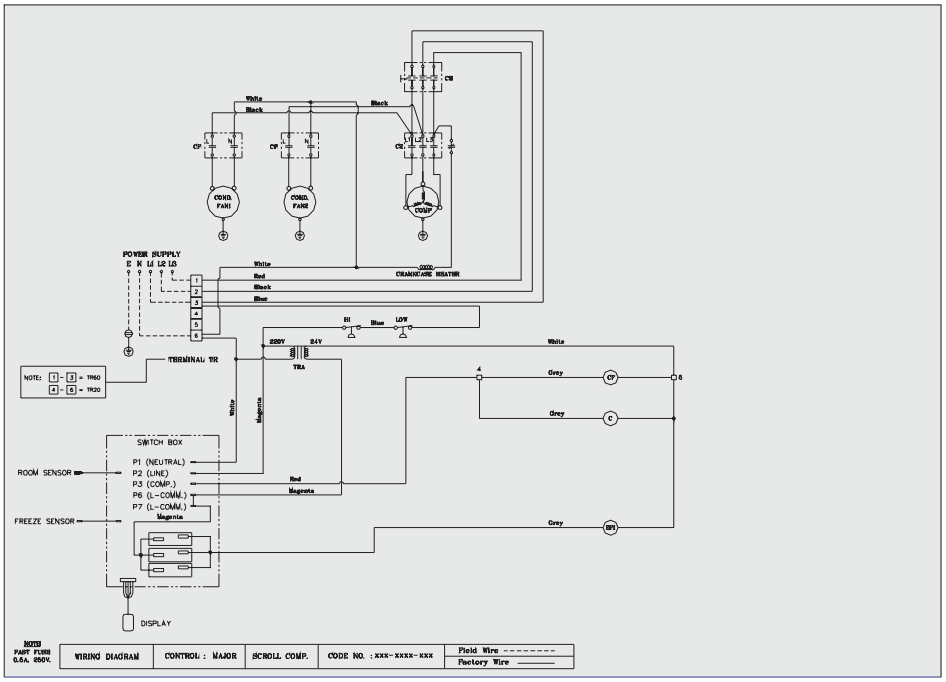
6. Units may be installed on combustible floors made from wood or class A, B, or C roof covering material.

WIRING DIAGRAMS

PC-060-C4



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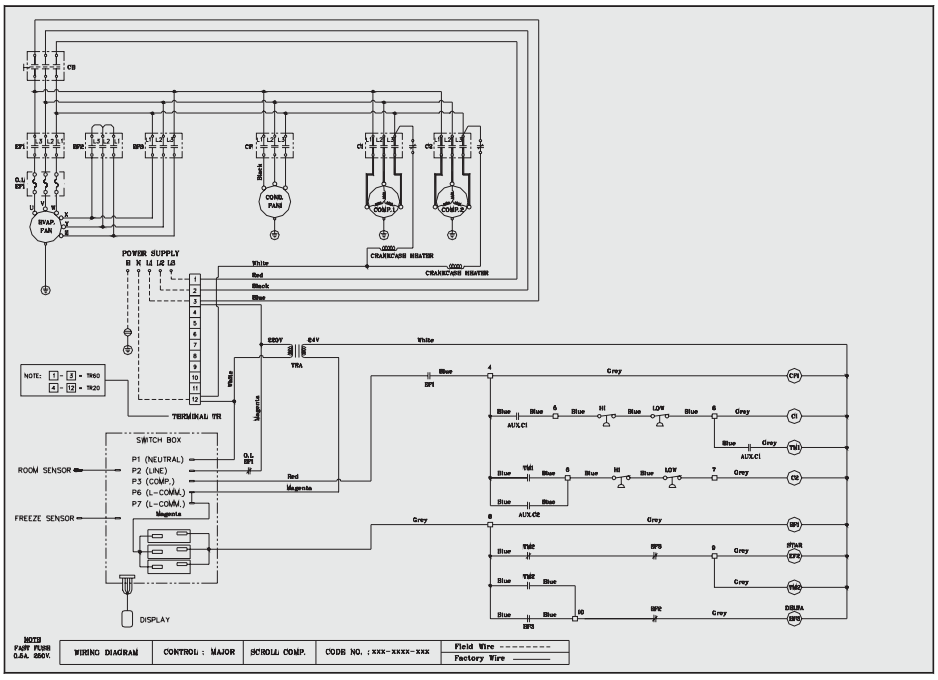
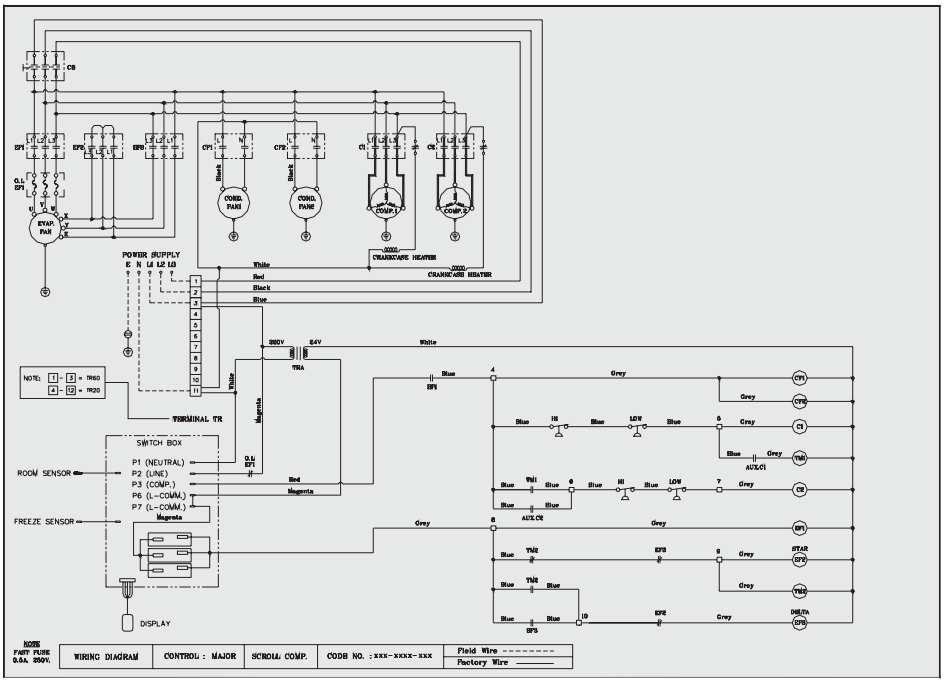
PC-096-120-C4



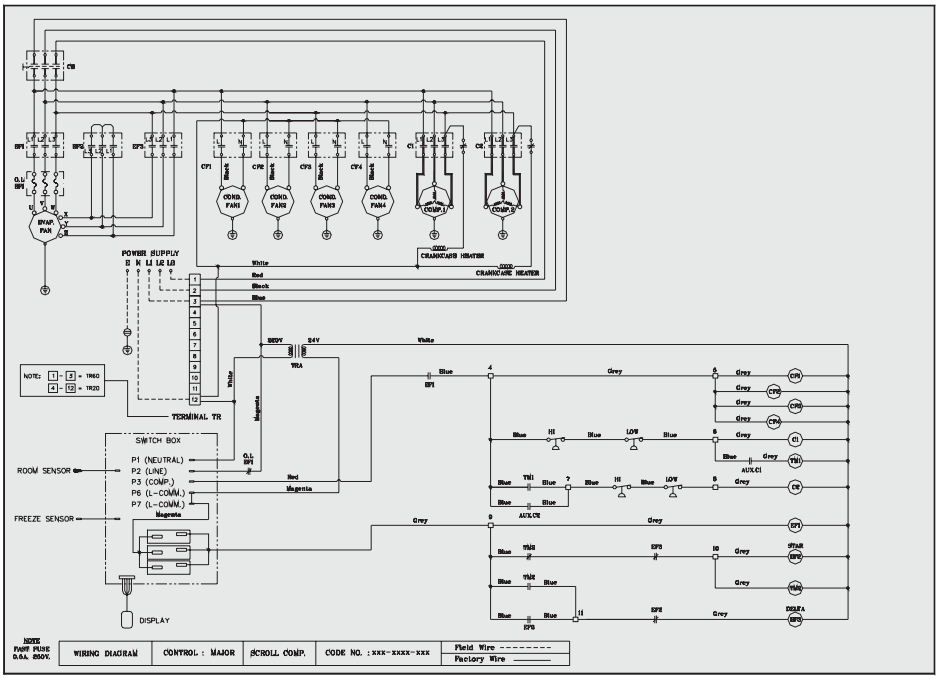
SYM	DESCRIPTION	SYM	DESCRIPTION	REMARK
- - -	FIELD WIRING	HI	HI PRESSURE SWITCH	
———	FACTORY WIRING	LO	LO PRESSURE SWITCH	
CB	CIRCUIT BREAKER	TM	TIMER DELAY 3 SEC.	
AUX.CF	AUXILIARY CONTACT FOR COND.FAN	TRA	TRANFORMER	
AUX.C	AUXILIARY CONTACT FOR COMP.			
C	CONTACTOR OF COMP.			
CF	CONTACTOR CONDENSOR FAN			
EF1	CONTACTOR EVAP. FAN			
EF2	CONTACTOR EVAP. FAN START STAR			
EF3	CONTACTOR EVAP. FAN RUN DELTA			

WIRING DIAGRAMS

PC-180-240-C4



PC-300-480-C4



SYM	DESCRIPTION	SYM	DESCRIPTION	REMARK
– – –	FIELD WIRING	HI	HI PRESSURE SWITCH	
———	FACTORY WIRING	LO	LO PRESSURE SWITCH	
		TM	TIMER DELAY 3 SEC.	
AUX.CF	AUXILIARY CONTACT FOR COND.FAN	TRA	TRANFORMER	
AUX.C	AUXILIARY CONTACT FOR COMP.	CB	CIRCUIT BREAKER	
C	CONTACTOR OF COMP.	CF1	CONTACTOR CONDENSOR FAN 1	
OL	OVERLOAD EVAP. FAN	CF2	CONTACTOR CONDENSOR FAN 2	
EF1	CONTACTOR EVAP. FAN	CF3	CONTACTOR CONDENSOR FAN 3	
EF2	CONTACTOR EVAP. FAN START STAR	CF4	CONTACTOR CONDENSOR FAN 4	
EF3	CONTACTOR EVAP. FAN RUN DELTA			

GENERAL SPECIFICATION

Nominal ton		(Ton)	5	8	10	15	20	25	30	40
Models			PC-060-C4	PC-096-C4	PC-120-C4	PC-180-C4	PC-240-C4	PC-300-C4	PC-360-C4	PC-480-C4
Capacity	ARI Nominal Cooling Capacity	(BTU/hr)	60,000	96,000	120,000	180,000	240,000	300,000	360,000	480,000
		(W)	17,585	28,136	35,170	52,755	70,340	87,925	105,510	140,680
		(Kcal/h)	15,121	24,194	30,242	45,363	60,484	75,605	90,726	120,968
Electrical Data	Voltage	(V,PH)	380-420/3/50	380-420/3/50	380-420/3/50	380-420/3/50	380-420/3/50	380-420/3/50	380-420/3/50	380-420/3/50
Compressor	Type		ZR 68 KC-TFD	ZR 57 KC-TFD	ZR 68 KC-TFD	ZR 108 KC-TFD	ZR 144 KC-TFD	ZR 19 M3-TWD	ZRT 216 KC-TFD	ZRT 288 KC-TFD
	Quantity		1	2	2	2	2	2	2	2
	Oil (oz) (each compressor)		60	66	60	110	114	140	220	220
Condenser Coil	Type		High efficiency							
	Tube size (O.D)	(inch)	3/8"							
		(mm)	9.52							
	Face area	(sq.ft)	12.0	17.5	17.5	32	33.4	46.6	46.6	66.6
		(m^2)	1.1	1.6	1.6	3	3	4.4	4.4	6.2
Evaporator Coil	Type		High efficiency							
	Tube size (O.D)	(inch)	3/8"							
		(mm)	9.52							
	CFM		3000		4000	5500	8000	9000	10000	16000
	Row/FPI		3/14	3/14	4/14	4/14	4/14	4/14	4/14	4/14
	Face area	(sq.ft)	5	8	9	11.7	16.8	16.8	19.2	27.8
		(m^2)	0.5	0.7	0.8	1.1	1.6	1.6	1.8	2.6
Condenser Fan	Type		Propeller							
	No. Used…..Diameter (in)		1…24	1…30	1…30	2…26	2…26	4…26	4…26	4…26
	Drive Type		Direct drive							
	CFM		5000	9000	9000	14000	14000	28000	28000	28000
	No. Motor….Motor output (Hp)		1….3/4	1….1	1…..1	2….3/4	2….3/4	4….3/4	4….3/4	4….3/4
	Power input (watt)		768	1320	1320	1536	1536	3072	3072	3072
	Motor RPM		900	900	900	900	900	900	900	900
Evaporator Fan	Type		Centrifugal Blower Fan							
	No. Used		1	1	1	2	2	2	2	2
	Diameter/Width(in.)		10x10	12x12	15x15	12x12	15x15	15x15	18X13	18X18
	Dirive Type /Motor Step		Direct drive	Belt/1						
	No.motors		1							
	Motor output(standard/oversized)		3/4 Hp	2 Hp	3 Hp	3 Hp	5 Hp	7.5 Hp	10 Hp	15 HP
	Motor rpm(Standard/oversized)		1300	1420	1420	1420	1430	1440	1440	1440
Drain Connection Size (in)			3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Refrigerant Type			HCFC-22							
Operating Charge (lb)										
Circuit 1			5.51	8.81	11.02	16.52	22.03	27.54	33.04	44.06
Circuit 2			-	8.81	11.02	16.52	22.03	27.54	33.04	44.06
Operating Weight (lb)										
Unit			507	705	727	1322	1828	2423	2863	3304
Unit with Economiser			557	771	793	1454	2004	2643	3150	3634

FAN PERFORMANCE DATA

PC-060-C4	EXTERNAL STATIC PRESSURE (IN.Wg)									
AIRFLOW	0.2		0.6		1		1.4		1.8	
(Cfm)	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
1000	342	0.3	424	0.5	519	1.0	592	1.3	614	1.6
2000	350	0.4	455	0.6	539	1.0	619	1.4	637	1.8
2250	358	0.4	461	0.7	545	1.0	620	1.4	663	1.9
2500	389	0.5	483	0.8	564	1.1	633	1.5	703	2.0
2700	407	0.6	502	0.9	580	1.3	648	1.7	708	2.1
3000	440	0.7	532	1.1	605	1.5	672	1.9	728	2.4

PC-096-C4	EXTERNAL STATIC PRESSURE (IN.Wg)									
AIRFLOW	0.2		0.6		1		1.4		1.8	
(Cfm)	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
2000	450	0.5	585	0.8	693	1.2	796	1.8	819	2.4
2250	460	0.5	593	0.9	700	1.3	797	1.8	852	2.4
2500	500	0.6	621	1.0	725	1.5	814	2.0	904	2.6
2700	523	0.7	645	1.2	745	1.6	833	2.2	911	2.7
3000	566	1.0	684	1.4	778	1.9	864	2.5	936	3.1
3200	597	1.1	707	1.6	798	2.2	882	2.7	-	-
3500	642	1.4	743	1.9	835	2.6	913	3.1	-	-
3750	680	1.7	778	2.2	868	2.9	-	-	-	-
4000	716	2.0	778	2.2	-	-	-	-	-	-

PC-120-C4	EXTERNAL STATIC PRESSURE (IN.Wg)									
AIRFLOW	0.2		0.6		1		1.4		1.8	
(Cfm)	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
3000	479	0.6	603	0.9	700	1.2	787	1.4	877	1.9
3200	502	0.7	623	1.0	718	1.3	799	1.6	889	2.0
3500	537	0.8	650	1.2	743	1.5	824	1.9	898	2.2
3700	560	1.0	671	1.4	761	1.7	842	2.1	912	2.4
4000	596	1.2	700	1.6	791	2.0	864	2.4	939	2.8
4300	632	1.4	734	1.9	817	2.3	895	2.7	-	-
4500	655	1.6	752	2.1	837	2.6	915	3.0	-	-
4700	680	1.9	776	2.3	857	2.8	-	-	-	-
5000	717	2.2	809	2.7	-	-	-	-	-	-

PC-180-C4	EXTERNAL STATIC PRESSURE (IN.Wg)									
AIRFLOW	0.2		0.6		1		1.4		1.8	
(Cfm)	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
4000	627	1.2	725	1.6	806	1.9	880	2.4	954	2.7
4300	666	1.5	762	1.9	838	2.3	911	2.7	979	3.1
4500	693	1.7	785	2.1	860	2.5	931	2.9	997	3.4
4700	720	1.9	809	2.4	884	2.8	950	3.2	1016	3.7
5000	759	2.3	844	2.8	918	3.2	983	3.6	1046	4.1
5200	786	2.5	866	3.1	941	3.5	1004	4.0	1065	4.4
5500	826	3.0	905	3.5	976	4.0	1037	4.5	1095	5.0
5800	867	3.4	941	4.1	1012	4.6	1072	5.1	-	-
6000	897	3.9	964	4.5	1037	5.0	1099	5.6	-	-

Wind Industries, Inc.
Smart Air conditioners for smart people

FAN PERFORMANCE DATA

PC-240-C4	EXTERNAL STATIC PRESSURE (IN.Wg)									
AIRFLOW	0.2		0.6		1		1.4		1.8	
(Cfm)	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
6000	711	1.85	782	2.47	860	2.99	929	3.71	974	4.12
7000	783	2.78	861	3.40	948	3.91	1023	4.64	1073	5.36
8000	845	3.91	929	4.64	1022	5.15	1104	5.87	1157	6.80
9000	906	5.36	997	5.97	1097	6.70	1184	7.83	1242	8.86
10000	958	6.90	1054	7.83	1159	8.86	1252	9.89	1313	10.82

PC-300-C4	EXTERNAL STATIC PRESSURE (IN.Wg)									
AIRFLOW	0.2		0.6		1		1.4		1.8	
(Cfm)	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
7000	564	2.21	637	2.69	708	3.17	786	3.74	884	4.42
8000	619	2.98	700	3.65	777	4.32	949	4.80	970	5.47
9000	672	4.22	759	4.70	843	5.38	936	5.95	1053	6.91
10000	720	5.47	814	6.05	903	6.91	1002	8.06	1128	9.22
11000	768	6.72	868	7.68	963	8.64	1069	9.60	1203	10.66

PC-360-C4	EXTERNAL STATIC PRESSURE (IN.Wg)									
AIRFLOW	0.2		0.6		1		1.4		1.8	
(Cfm)	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
8000	654	2.74	725	3.14	806	3.72	861	4.12	941	4.90
9000	706	3.43	783	4.12	869	4.70	930	5.29	1016	5.98
10000	757	4.80	840	5.29	932	5.98	998	6.47	1089	7.45
11000	807	5.98	896	6.57	994	7.55	1063	8.72	1161	9.90
12000	853	7.15	938	8.33	1050	9.21	1124	10.19	1227	11.27

PC-480-C4	EXTERNAL STATIC PRESSURE (IN.Wg)									
AIRFLOW	0.2		0.6		1		1.4		1.8	
(Cfm)	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp	Rpm	Bhp
12000	694	2.04	755	2.29	838	2.80	897	3.01	950	3.69
13000	749	2.55	815	3.01	905	3.54	968	3.87	1025	4.49
14000	803	3.57	874	3.87	971	4.49	1037	4.74	1099	5.61
15000	856	4.43	932	4.81	1034	5.68	1106	6.38	1172	7.45
16000	905	5.31	985	6.10	1094	6.93	1170	7.45	1239	8.48
17000	950	6.36	1034	7.30	1155	8.30	1236	8.94	1309	10.16
18000	998	7.62	1086	8.75	1222	9.95	1306	10.71	-	-
19000	1047	9.13	1140	10.48	1292	11.92	-	-	-	-
20000	1100	10.94	1198	12.55	-	-	-	-	-	-

Wind Industries, Inc.
Smart Air conditioners for smart people

SYSTEM COOLING PERFORMANCE DATA

RATED AIR FLOW CFM	AIR ON COOLING COIL DB °F	AIR ON COOLING COIL WB °F	EVAP. POWER INPUT W	EVAP. RATED AMPS	TEMPERATURE OF AIR ON CONDENSER 95°F TOTAL. CAP. MBH	95°F SENS. CAP MBH	95°F COMP. INPUT UNIT - KW	105°F TOTAL. CAP. MBH	105°F SENS. CAP MBH	105°F COMP. INPUT UNIT - KW	115°F TOTAL. CAP. MBH	115°F SENS. CAP MBH	115°F COMP. INPUT UNIT - KW	125°F TOTAL. CAP. MBH	125°F SENS. CAP MBH	125°F COMP. INPUT UNIT - KW
PC-060-C4																
3000	80	67	0.64	3.3	61.42	54.93	4.46	59.03	54.25	4.96	55.96	53.23	5.60	53.57	52.20	6.14
	76	63			57.66	51.18	4.36	55.27	50.16	4.87	52.54	49.47	5.51	49.82	48.11	6.03
	72	59			53.57	50.84	4.32	51.52	50.16	4.80	49.47	49.13	5.45	47.43	47.43	5.98
2000	80	67	0.58	2.7	57.66	44.36	4.39	55.62	43.67	4.89	52.89	42.65	5.52	50.84	41.97	6.05
	76	63			53.91	41.63	4.32	51.86	40.94	4.80	49.47	39.92	5.44	47.09	38.90	5.98
	72	59			50.16	41.63	4.26	48.45	40.94	4.74	46.06	39.92	5.39	44.01	38.90	5.92
1000	80	67	0.49	2.3	49.82	32.07	4.26	48.45	31.39	4.74	46.40	30.71	5.39	44.70	29.68	5.93
	76	63			46.40	30.71	4.20	45.04	30.03	4.68	42.99	29.00	5.34	41.29	28.32	5.89
	72	59			43.33	30.71	4.15	42.31	30.03	4.61	40.26	29.00	5.29	38.56	27.98	5.84
PC-096-C4																
4000	80	67	1.32	3.5	98.95	81.21	7.56	94.85	79.16	8.06	89.39	75.81	8.80	85.98	76.43	9.68
	76	63			92.12	75.75	7.42	88.03	74.38	7.98	82.57	72.33	8.48	77.79	70.97	8.90
	72	59			85.98	75.75	7.26	83.25	73.70	8.04	78.48	71.65	8.84	73.70	70.29	9.30
3000	80	67	1.13	3.5	94.17	70.29	7.46	90.08	68.24	7.98	84.62	66.88	8.50	80.52	64.83	9.02
	76	63			88.03	65.51	7.32	84.62	64.83	8.02	79.84	62.78	8.68	75.06	61.42	9.04
	72	59			81.89	65.51	7.18	79.16	64.15	8.04	75.75	62.10	9.22	72.33	60.73	9.54
2000	80	67	0.8	3.5	86.66	58.00	7.28	83.94	56.64	8.04	791.58	54.59	8.74	75.06	53.23	9.06
	76	63			80.52	54.59	7.16	77.79	53.91	8.04	75.06	52.54	9.26	71.65	50.50	10.00
	72	59			75.06	54.59	7.16	73.02	53.23	7.88	70.29	52.54	9.38	68.24	49.13	10.64
PC-120-C4																
5000	80	67	2.03	4.9	122.83	109.87	8.78	118.06	108.50	9.76	111.91	105.77	11.04	107.14	104.41	12.10
	76	63			114.64	103.72	8.64	110.55	100.31	9.58	105.09	99.63	10.84	100.31	96.22	11.90
	72	59			107.14	102.36	8.52	103.04	100.31	9.46	98.95	98.95	10.74	94.85	94.85	11.82
4000	80	67	1.56	4.9	118.06	96.90	8.68	113.96	95.54	9.66	108.50	92.81	10.92	103.72	91.44	12.00
	76	63			110.55	90.08	8.56	106.45	88.71	9.52	101.00	86.66	10.80	96.22	84.62	11.84
	72	59			103.04	88.71	8.44	99.63	88.71	8.42	94.17	86.66	10.66	90.08	84.62	11.74
3000	80	67	1.08	4.9	111.91	83.25	8.60	107.82	81.21	9.54	103.04	79.16	10.82	98.95	77.79	11.88
	76	63			104.41	77.79	8.46	101.00	76.43	9.40	96.22	74.38	10.68	92.12	73.02	11.76
	72	59			97.58	77.79	8.36	94.17	76.43	9.28	89.39	74.38	10.60	85.98	72.33	11.66

SYSTEM COOLING PERFORMANCE DATA

RATED AIR FLOW CFM	AIR ON COOLING COIL DB °F	AIR ON COOLING COIL WB °F	EVAP. POWER INPUT W	EVAP. RATED AMPS	TEMPERATURE OF AIR ON CONDENSER 95°F TOTAL. CAP. MBH	95°F SENS. CAP MBH	95°F COMP. INPUT UNIT - KW	105°F TOTAL. CAP. MBH	105°F SENS. CAP MBH	105°F COMP. INPUT UNIT - KW	115°F TOTAL. CAP. MBH	115°F SENS. CAP MBH	115°F COMP. INPUT UNIT - KW	125°F TOTAL. CAP. MBH	125°F SENS. CAP MBH	125°F COMP. INPUT UNIT - KW
PC-180-C4																
6000	80	67	2.2	4.9	185.61	147.40	14.80	178.79	145.35	16.28	169.92	141.94	18.04	163.09	142.62	19.54
	76	63			173.33	138.53	14.52	166.51	135.80	16.04	159.00	132.39	17.82	152.18	135.80	19.28
	72	59			161.73	137.84	14.24	156.27	135.12	15.78	148.76	131.70	17.64	141.94	127.61	19.16
5000	80	67	1.6	4.9	178.79	133.75	14.66	172.65	131.70	16.16	164.46	128.29	17.94	158.32	126.24	19.40
	76	63			167.19	126.24	14.38	161.05	123.51	15.88	153.54	120.10	17.72	147.40	117.37	19.22
	72	59			155.59	125.56	14.14	150.13	122.83	15.68	143.30	120.10	17.58	137.16	117.37	19.12
4000	80	67	1.1	4.9	169.92	119.42	14.44	164.46	117.37	15.96	157.63	114.64	17.78	151.49	111.91	19.26
	76	63			159.00	112.60	14.20	153.54	110.55	15.74	146.72	107.82	17.64	140.57	105.09	19.16
	72	59			148.08	112.60	13.98	143.30	110.55	15.48	136.48	107.14	17.44	131.02	104.41	19.04
PC-240-C4																
10000	80	67	4.05	7.3	248.39	221.10	19.34	238.16	211.54	21.26	224.51	212.23	23.54	214.27	208.13	25.44
	76	63			233.38	206.08	18.96	223.14	201.99	20.92	210.86	197.21	23.24	199.94	191.75	25.14
	72	59			218.37	205.40	18.56	208.81	201.31	20.52	197.21	195.85	22.90	191.07	191.07	24.94
8000	80	67	3.12	7.3	240.20	195.17	19.14	229.97	191.75	21.08	217.69	186.98	23.40	207.45	182.88	25.30
	76	63			225.19	183.57	18.70	215.64	180.15	20.68	203.36	175.38	23.04	193.80	169.92	25.00
	72	59			210.86	182.88	18.42	201.99	178.79	20.36	190.39	174.01	22.76	180.84	169.24	24.72
6000	80	67	2.16	7.3	227.24	167.87	18.78	218.37	164.46	20.74	207.45	159.68	23.12	197.90	155.59	25.08
	76	63			212.91	158.32	18.46	204.72	155.59	20.44	193.80	154.90	22.84	184.25	147.40	24.80
	72	59			198.58	157.63	18.16	191.07	154.90	20.06	180.84	150.13	22.50	171.96	146.03	24.52
PC-300-C4																
10000	80	67	4.2	12.5	310.49	265.45	26.12	296.84	244.30	28.80	275.69	252.49	31.94	253.85	244.30	34.54
	76	63			292.07	247.71	25.72	280.47	243.62	28.44	265.45	238.16	31.72	251.12	237.48	34.38
	72	59			271.60	247.71	25.42	262.04	242.93	28.18	249.08	236.79	31.54	238.84	229.97	34.28
9000	80	67	3.8	12.5	304.35	248.39	25.98	292.07	243.62	28.66	273.64	236.79	31.84	253.85	229.29	34.46
	76	63			284.56	233.38	25.62	274.32	229.97	28.40	260.68	223.83	31.70	247.71	217.00	34.36
	72	59			265.45	232.70	25.30	256.58	228.60	28.02	244.98	223.14	31.42	234.75	215.64	34.22
8000	80	67	3.2	12.5	296.84	231.33	25.84	285.24	227.24	28.60	269.55	220.42	31.82	253.85	214.96	34.42
	76	63			277.74	217.00	25.52	268.18	212.91	28.24	255.22	209.50	31.58	244.30	204.04	34.32
	72	59			258.63	217.00	25.18	249.76	212.91	27.92	238.84	208.13	31.34	229.29	203.36	34.16

SYSTEM COOLING PERFORMANCE DATA

RATED AIR FLOW CFM	AIR ON COOLING COIL		EVAP POWER INPUT W	EVAP RATER AMPS	TEMPERATURE OF AIR ON CONDENSER											
					95^0F			105^0F			115^0F			125^0F		
	DB ^{0}F	WB ^{0}F			TOTAL. CAP. MBH	SENS. CAP MBH	COMP INPUT UNIT - KW	TOTAL. CAP. MBH	SENS. CAP MBH	COMP INPUT UNIT - KW	TOTAL. CAP. MBH	SENS. CAP MBH	COMP INPUT UNIT - KW	TOTAL. CAP. MBH	SENS. CAP MBH	COMP INPUT UNIT - KW
PC-360-C4																
12000	80	67	5.6	16	359.62	287.29	28.08	347.34	282.51	30.96	333.01	277.05	34.66	320.73	272.96	37.74
	76	63			335.06	268.87	27.58	324.14	264.09	30.42	310.49	258.63	34.22	326.19	253.85	37.30
	72	59			312.54	267.50	27.08	303.67	256.58	29.84	290.02	257.95	33.72	279.78	253.17	36.90
11000	80	67	5.2	16	352.12	273.64	27.98	342.56	268.87	30.86	326.87	264.09	34.6	315.95	259.31	37.64
	76	63			329.60	256.58	27.44	319.36	252.49	30.24	305.72	246.35	34.06	294.80	242.25	37.20
	72	59			307.08	255.90	26.98	297.53	251.81	29.76	285.24	246.35	33.64	275.01	241.57	36.82
10000	80	67	4.4	16	341.20	259.99	27.8	334.38	255.90	30.64	321.41	250.44	34.4	309.81	246.35	37.52
	76	63			322.09	244.30	27.3	339.84	267.50	30.12	299.57	234.75	33.98	288.66	230.65	37.10
	72	59			300.94	243.62	26.84	292.07	239.52	29.58	279.78	234.06	33.48	269.55	229.97	36.72
PC-480-C4																
12000	80	67	6.6	24	456.53	354.17	37.36	438.78	347.34	41.3	416.95	339.15	46.04	398.52	328.23	49.98
	76	63			423.09	329.60	36.74	407.39	323.46	40.68	3798.92	314.59	45.5	368.50	307.76	49.42
	72	59			391.70	329.60	36.12	377.37	322.78	39.96	358.26	314.59	44.9	341.88	307.08	48.96
13000	80	67	5.8	22	448.34	339.84	37.24	431.28	333.69	41.22	410.12	325.50	45.98	393.06	318.68	49.88
	76	63			416.26	318.00	36.58	398.32	311.17	40.46	380.78	302.30	45.32	363.72	295.48	49.32
	72	59			385.56	317.32	36.04	371.23	310.49	39.9	352.80	302.30	44.84	337.11	295.48	48.9
14000	80	67	5.4	20	440.83	326.19	37.04	423.77	319.36	40.98	403.98	311.86	45.76	386.24	305.03	49.72
	76	63			408.08	305.03	36.46	393.74	298.21	40.38	373.96	290.02	45.26	356.90	283.20	49.24
	72	59			377.37	304.35	35.88	365.08	298.21	39.68	346.66	290.02	44.68	330.96	282.51	48.78

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