COOLEX

Rooftop Package Series
R410A 48-350 MBH

Packaged Air Conditioning Units
With Hermetic Compressor Tropical

50 Hz

R410A

For more technical information please visit **www.coolex.com.kw**

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OTHER COOLEX PRODUCTS

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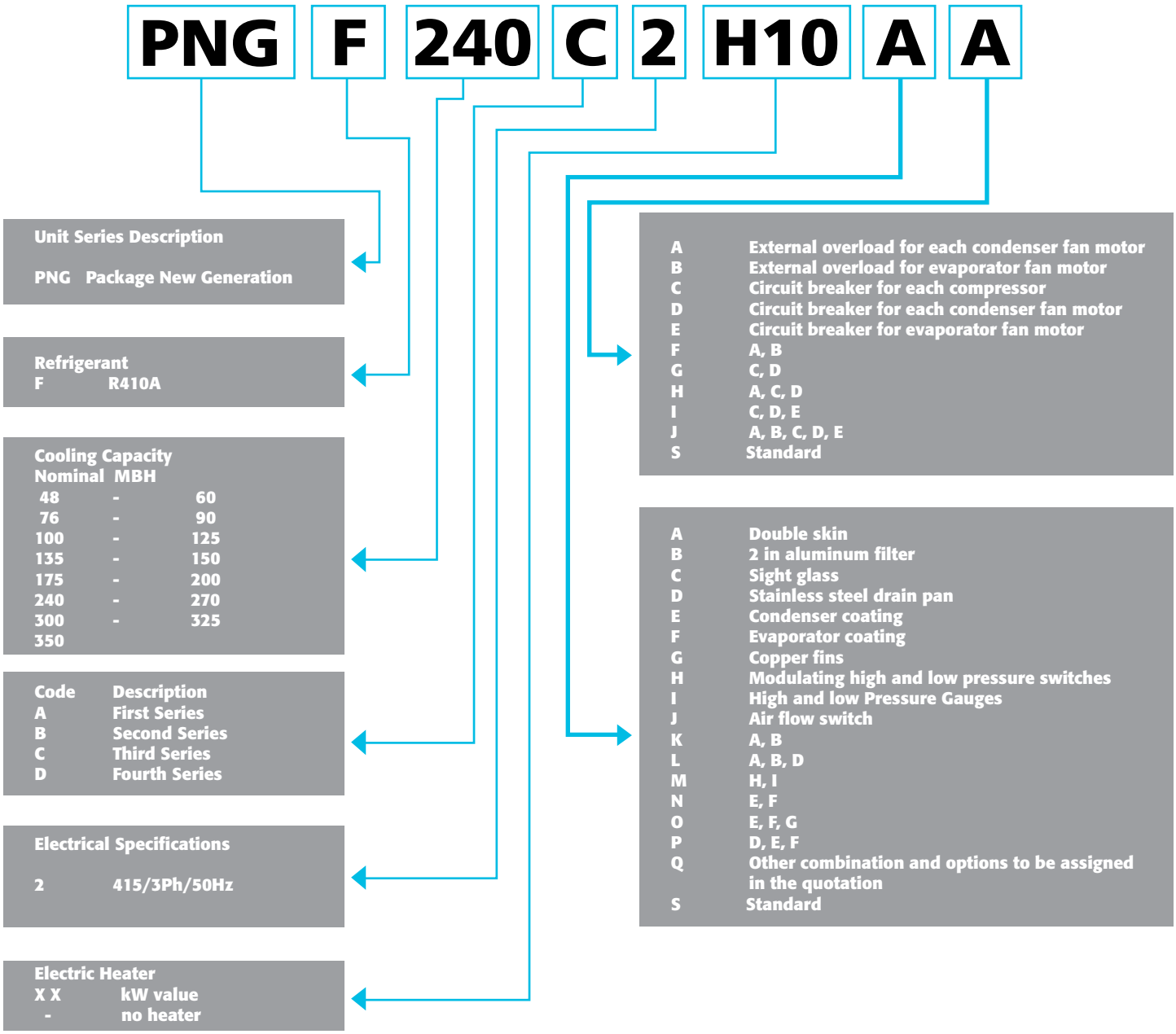
INTRODUCTION

COOLEX UL listed, High Efficiency Commercial Package Units (PNGF) are designed specifically for tropical operation with high performance, low power consumption, easy installation and low noise operations. PNGF Commercial units are available from 048 to 350 nominal MBH at 50Hz.

Quality and Efficiency make COOLEX aircooled package units the preferred choice for DX cooling systems in commercial and industrial applications. Coolex Packaged Units can be used for cooling or heating with optional electric heater.

NOMENCLATURE



COOLEX

OUTSTANDING FEATURES

Superior Efficiency

- High EER (Energy Efficiency Ratio) exceeds the new ASHRAE 90.1 efficiency levels
- Low power consumption
- High volumetric efficiency scroll compressors
- Designed to operate at severe ambient temperature up to 52°C without tripping

Quiet operation

- Low noise level compressors, condenser fans and evaporator blower
- Compact physical footprint
- Special designed refrigerant piping in addition to the insulation for the evaporator section

Controls

- Microprocessor Controller
- Single point power supply
- Color coded wires
- Weather proof Control panel

Quality Assurance

All units in the PNGF series are:

- Factory run tested.
- Produced in an ISO 9001-2000 listed manufacturing facility.
- Constructed in compliance with ASHRAE 15 safety requirements.
- AHRI certified cooling coils

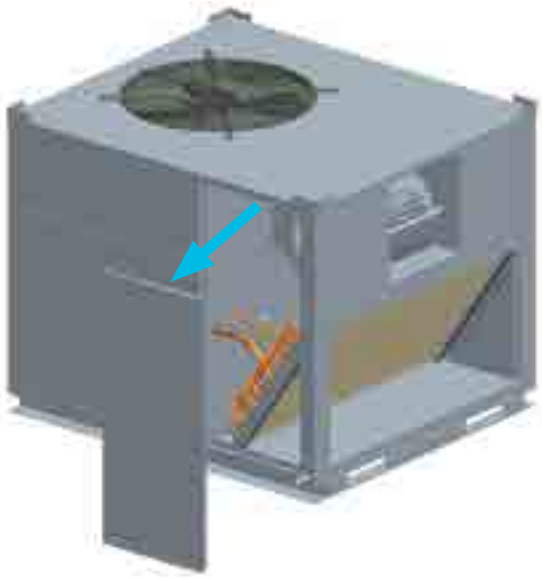
Options & Accessories

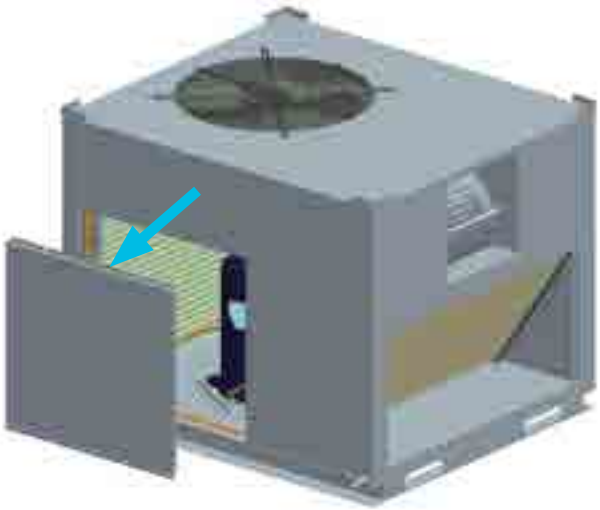
- Totally Enclosed Fan cooled (TEFC) Blower Motor
- Intelligent air Quality System by Economizer control
- Ultra Violet (UV) lamps

OUT STANDING FEATURES

Evaporator's Side

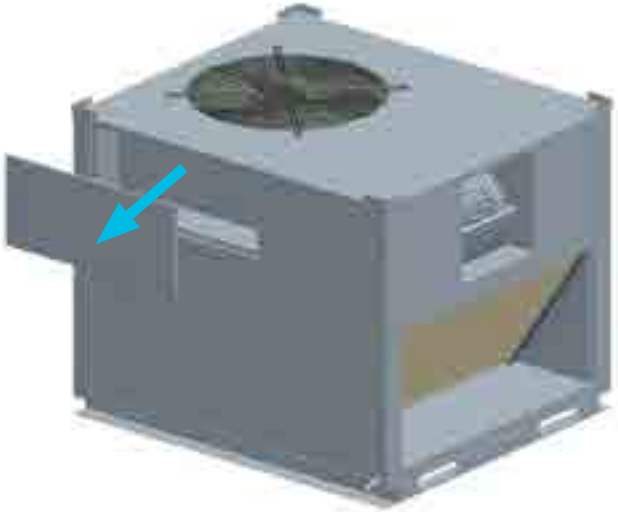
- Easy access to the evaporator side with removable panel for maintenance purpose for the fan, motor, belt, pulleys, and expansion device
- Easy access to drain pan for cleaning





Compressor's Side

- Easy access to the compressor side with removable panel for maintenance purpose for the compressor, and filter drier
- Easy access to condenser fans, and motors



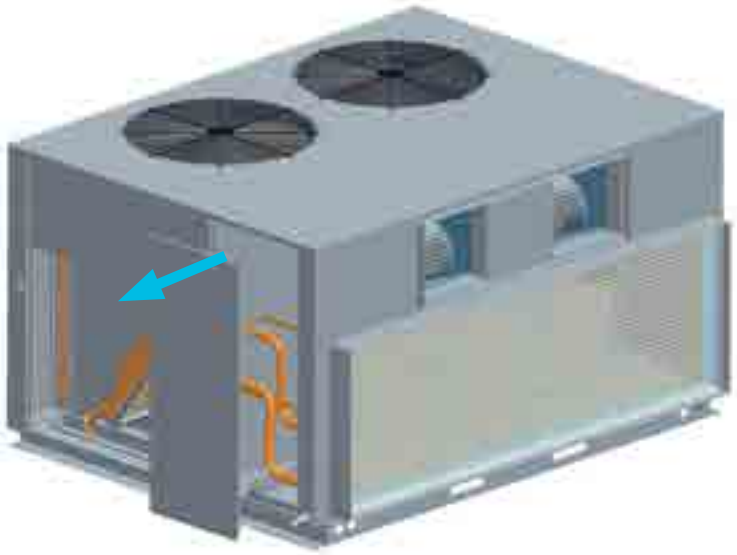
Electrical Panel

- Easy access to the electrical panel with removable panel for microprocessor access and electrical parts

OUTSTANDING FEATURES

Evaporator's Side

- Easy access to the evaporator side with removable panel for maintenance purpose for the fan, motor, belt, pulleys and expansion valve
- Easy access for drain pan for cleaning



Compressor's side

- Easy access to the compressor side for maintenance purpose for the compressors and the filter drier
- Easy access for the condenser fans and motors

Electrical Panel

- Easy access to the electrical panel for microprocessor access and electrical parts

STANDARD SPECIFICATIONS

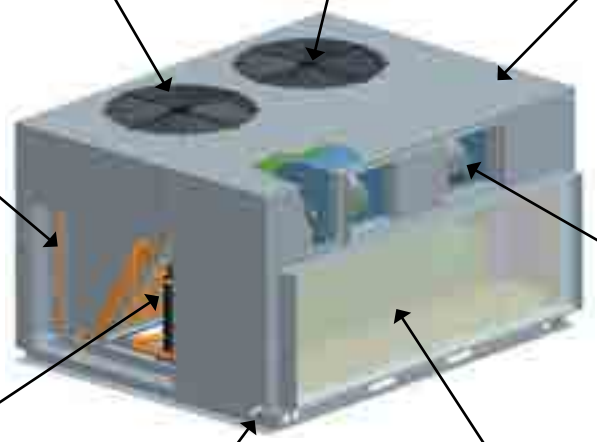
General

- The Package New Generation units (PNGF) are factory assembled cooling or combination of cooling and heating with electric heater, suitable for outdoor installation mounting on the roof or ground.
- The packaged unit consists of scroll compressors, cooling coil, condenser coil, fans, electric heater (optional), control wiring and interconnecting piping-all factory assembled.

Condenser Fans
The fans are selected for optimum efficiency and maximum sound power reduction, propeller type and direct driven, upward discharge and provided with fan grille mounted on the casing.

Condenser Fan Motor
Condenser fan motors are totally enclosed air-over type with class F insulation. The motors are provided with inherent thermal protection and auto rest type.

Condenser Coils
The coils are built up seamless copper tubes and mechanically bonded to scientifically designed louvered fins.
The assembled coils are factory leak tested under water at a pressure of 700 [psig] for quality and leak free unit.



Unit Casing
The casing sheet metal is fabricated from hot dipped G90, Zinc coating and zero spangle galvanized steel, oven-baked powder coated.
The unit is provided with an integral weather resistant control panel for outdoor application. Panels and access doors are provided for inspection and access for all internal parts.

Compressor
The compressors are hermetic scroll type provided with crankcase heater, internal pressure relief valve which provides high pressure protection to the refrigerant system and rubber vibration isolators for quiet and efficient operation.
The compressors are equipped with internal motor protector for safe operation. The compressors are built to NF, VPE, CSA, & UL certification.

Evaporator Fan
The units are provided with centrifugal fans which are statically and dynamically balanced, designed for low sound level operation
Belt driven.

Drain Pan
The drain pan is fabricated of galvanized steel. The drain pan is powder coat painted and the outer surface is thermally insulated.

Evaporator Coils
The coils are built up of ripple finned seamless copper tubes and mechanically bonded to scientifically designed louvered fins.
The assembled coils are factory leak tested under water at a pressure of 350 psig for quality and leak free units.

OPTIONAL SPECIFICATIONS

Construction

- Double skin for evaporator side
- Coil protection materials:
  a) Polyurethane pre-coat Aluminum fins with copper tubes
  b) Tinned copper tubes with copper fins
- Condenser coil guard
- Mesh around perimeter of condenser sections
- Stainless steel drain pan
- Double side drain connections
- Other types of filter: synthetic fiber media for flat filter, 2" or 4" flat filter, bag filter
- Mixing box
- Vibration isolation for the unit :
  a) Neoprene rubber pads
  b) 1" spring isolator
- Lockable door for the control panel

Electrical

- Electric heaters (open coil type)
- Electric heaters (fin type)
- Compressor circuit breaker
- Mild ambient (fan cycling) control
- Duct sensor
- Anti - ice thermostat
- Volt free contacts
- External overload
- Ultra violet light
- Dirty filter indication
- Fire alarm connection
- Economizer controller

Refrigeration

- Pump down solenoid valve (PDS)
- Hot gas bypass valve
- Adjustable high pressure switch
- Adjustable low pressure switch
- Muffler
- Replaceable filter drier with mechanical shut-off valve

Coolex App

Wi Fi Module

Typical Thermostat

MICROPROCESSOR CONTROLLER

Microprocessor Based Controller

The Package New Generation units are provided with technologically advanced Microprocessor based controller, incorporating the following benefits and features:

- ANTI-RECYCLE TIMER
- Compressor lock out function
- Balance loading of compressors
- Compressors lead-lag operation
- Pump down option.
- Fault diagnostics
- Indicator lights for high & low pressure Safeties

SELECTION PROCEDURE

The below example illustrates the selection procedure to assist using this catalog to select the appropriate PNGF unit that meets the design requirements.

Altitude [ft]	Correction factor
Sea level	1
1000	0.996
2000	0.990
3000	0.984
4000	0.980
5000	0.974
6000	0.965
7000	0.960

Example :

Design requirements

- Total cooling capacity 138 [MBH]
- Sensible cooling capacity 127 [MBH]
- Design ambient temperature 115 [°F]
- Evaporator air flow 5000 [CFM]
- Evaporator entering temperature DB/WB 80/67 [°F/°F]
- External static pressure 0.5 [in.wg]
- Altitude 2000 [ft]
- Power supply 415V / 3Ph / 50Hz

*Using the correction factor table at the specified altitude, thereby the required capacity will be:

Corrected capacity = Required capacity /corr. factor

Corrected total capacity = 138 [MBH]/0.99
= 139.39 MBH

Corrected sensible capacity = 127 [MBH]/0.99
= 128.28 MBH

From the cooling capacity at performance data tables (page 12), the closest selection model to the required capacity is PNGF 150. From the performance table:

Total capacity = 140.10 [MBH]

Sensible capacity = 128.89 [MBH]

GENERAL DATA

Model		PNGF-048	PNGF-060	PNGF-076	PNGF-090	PNGF-100	PNGF-125	PNGF-135
Power supply [Volts/Phase/Hz]		415 V/3 Ph/50 Hz						
Compressor	Type	Scroll Hermetic						
	Quantity	1						
	Refrigerant	R410A						
	Refrigeration circuits	1						
	Expansion device type	Thermal expansion Valve						
Condenser Fan	Type	Propeller						
	Diameter, mm	610			762			610
	No. of fans	1						2
	Motor Enclosure/Ins Class	Totally Enclosed Air Over, Class F						
	Nominal kW (HP)	0.37 (0.5)		0.56 (0.75)	0.75 (1)		1.12 (1.5)	2 x 0.56 (0.75)
	RPM	900						
Condenser Coil	Type	Enhanced Fins & Tube						
	Number of Rows	2R/3R						
Evaporator Blower	Type	Centrifugal						
	Motor Enclosure/Ins Class	Open Drip-Proof, Class B						
	Nominal kW (HP)	0.56 (3/4)	0.75 (1)		1.5 (2)			2.2 (3)
Evaporator Coil	Type	Enhanced Fins & Tube						
	Number of Rows	3R/4R						
Air filter	Type	Washable aluminum mesh						
	Thickness [inch]	0.5"		1"				2"
Operating Weight	kg	190	196	260	361	369	385	540

Model		PNGF-150	PNGF-175	PNGF-200	PNGF-240	PNGF-270	PNGF-300	PNGF-325	PNGF-350
Power supply [Volts/Phase/Hz]		415 V/3 Ph/50 Hz							
Compressor	Type	Hermetic Scroll							
	Quantity	2							
	Refrigeration circuits	2							
	Refrigerant	R410A							
	Expansion device type	Thermal expansion							
Condenser Fan	Type	Propeller – Direct Drive							
	Diameter, mm	610	762						800
	No. of fans	2							
	Motor Enclosure/Ins Class	Totally Enclosed Air Over, Class F							
	Nominal kW (HP)	2 x 0.56 (0.75)	2 x 1.10 (1.5)						2 x 1.25 (1.7)
	RPM	900							
Condenser Coil	Type	Enhanced Fins & Tube							
	Number of Rows	2R/3R				3R/ 4R			
Evaporator Blower	Type	Centrifugal - Belt Driven							
	No. of fans	1	2						
	Motor Enclosure/Ins Class	Open Drip-Proof, Class F / Class B							
	Nominal kW (HP)	2.2(3)	3.7(5)						
Evaporator Coil	Type	Enhanced Fins & Tube							
	Number of Rows	3R/ 4R							
Air filter	Type	Washable aluminum mesh							
	Thickness [inch]	2 "							
Operating Weight	kg	610	695	720	755	1005	1065	1225	1240

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PERFORMANCE DATA TABLES

Model	Air On Evaporator			Condenser Ambient Temperature								
	Air Flow	Temp ° F		95			115			125		
	CFM	DB	WB	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input
				Total	Sen.		Total	Sen.		Total	Sen.	
PNGF-048C2	1400	86	72	59,245	46,211	4.56	51,416	47,303	5.16	50,594	40,981	5.68
		80	67	54,553	42,552	4.53	47,345	43,557	5.13	46,587	37,736	5.64
		74	62	50,026	39,020	4.50	43,415	39,942	5.10	42,720	34,603	5.61
		68	57	45,825	35,743	4.46	39,769	36,588	5.05	39,133	31,698	5.55
	1500	86	72	60,025	46,820	4.57	52,093	47,926	5.17	51,260	41,521	5.69
		80	67	55,272	43,112	4.54	47,968	44,131	5.14	47,201	38,233	5.65
		74	62	50,684	39,534	4.51	43,987	40,468	5.11	43,283	35,059	5.62
		68	57	46,428	36,214	4.47	40,293	37,070	5.06	39,649	32,115	5.56
	1600	86	72	60,816	47,436	4.58	52,780	48,557	5.18	51,935	42,067	5.70
		80	67	56,000	43,680	4.55	48,600	44,712	5.15	47,822	38,736	5.67
		74	62	51,352	40,055	4.52	44,566	41,001	5.12	43,853	35,521	5.63
		68	57	47,040	36,691	4.48	40,824	37,558	5.07	40,171	32,538	5.57
PNGF-060C2	1700	86	72	68,767	53,638	5.31	59,774	54,992	5.96	58,818	47,642	6.56
		80	67	63,321	49,390	5.28	55,041	50,637	5.93	54,160	43,870	6.52
		74	62	58,065	45,291	5.25	50,472	46,434	5.89	49,665	40,228	6.48
		68	57	53,190	41,488	5.19	46,234	42,535	5.83	45,494	36,850	6.41
	1800	86	72	69,672	54,344	5.32	60,561	55,716	5.97	59,592	48,270	6.57
		80	67	64,155	50,041	5.29	55,766	51,304	5.94	54,873	44,447	6.53
		74	62	58,830	45,888	5.26	51,137	47,046	5.90	50,319	40,758	6.49
		68	57	53,890	42,034	5.20	46,843	43,096	5.84	46,094	37,336	6.43
	1900	86	72	70,590	55,060	5.33	61,359	56,450	5.99	60,377	48,906	6.58
		80	67	65,000	50,700	5.30	56,500	51,980	5.95	55,596	45,033	6.55
		74	62	59,605	46,492	5.27	51,811	47,666	5.91	50,982	41,295	6.51
		68	57	54,600	42,588	5.22	47,460	43,663	5.86	46,701	37,828	6.44
PNGF-076C2	2000	86	72	81,462	63,540	6.34	70,671	65,017	7.01	69,540	56,328	7.71
		80	67	75,011	58,509	6.30	65,074	59,869	6.97	64,033	51,867	7.67
		74	62	68,785	53,652	6.26	59,673	54,899	6.93	58,719	47,562	7.62
		68	57	63,009	49,147	6.20	54,663	50,290	6.86	53,788	43,568	7.55
	2300	86	72	82,535	64,377	6.35	71,602	65,874	7.03	70,456	57,069	7.73
		80	67	75,999	59,279	6.32	65,932	60,657	6.99	64,877	52,550	7.68
		74	62	69,691	54,359	6.28	60,459	55,623	6.94	59,492	48,188	7.64
		68	57	63,839	49,795	6.22	55,383	50,952	6.87	54,496	44,142	7.56
	2500	86	72	83,622	65,225	6.37	72,545	66,741	7.04	71,384	57,821	7.75
		80	67	77,000	60,060	6.33	66,800	61,456	7.00	65,731	53,242	7.70
		74	62	70,609	55,075	6.29	61,256	56,355	6.96	60,276	48,823	7.65
		68	57	64,680	50,450	6.23	56,112	51,623	6.89	55,214	44,724	7.58

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PERFORMANCE DATA TABLES

Model	Air On Evaporator			Condenser Ambient Temperature								
	Air Flow	Temp ° F		95			115			125		
	CFM	DB	WB	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input
				Total	Sen.		Total	Sen.		Total	Sen.	
PNGF-090C2	2600	86	72	104,843	81,777	8.11	91,195	83,899	9.27	89,736	72,686	10.19
		80	67	96,540	75,301	8.06	83,973	77,255	9.21	82,630	66,930	10.13
		74	62	88,527	69,051	8.02	77,004	70,843	9.16	75,772	61,375	10.07
		68	57	81,094	63,253	7.94	70,538	64,895	9.07	69,409	56,221	9.97
	2800	86	72	106,224	82,854	8.13	92,396	85,005	9.29	90,918	73,643	10.21
		80	67	97,812	76,293	8.08	85,079	78,273	9.23	83,718	67,812	10.15
		74	62	89,693	69,961	8.03	78,018	71,776	9.18	76,770	62,183	10.09
		68	57	82,162	64,086	7.95	71,467	65,749	9.08	70,323	56,962	9.99
	3000	86	72	107,623	83,946	8.15	93,613	86,124	9.31	92,115	74,613	10.24
		80	67	99,100	77,298	8.10	86,200	79,304	9.25	84,821	68,705	10.18
		74	62	90,875	70,882	8.05	79,045	72,722	9.19	77,781	63,002	10.11
		68	57	83,244	64,930	7.97	72,408	66,615	9.10	71,249	57,712	10.01
PNGF-100C2	2900	86	72	121,770	94,980	9.36	105,795	97,331	10.22	104,102	84,323	11.24
		80	67	112,127	87,459	9.31	97,417	89,624	10.16	95,858	77,645	11.17
		74	62	102,820	80,200	9.25	89,331	82,185	10.10	87,902	71,201	11.11
		68	57	94,187	73,466	9.16	81,830	75,284	10.00	80,521	65,222	11.00
	3100	86	72	123,374	96,231	9.39	107,188	98,613	10.24	105,473	85,433	11.26
		80	67	113,604	88,611	9.33	98,700	90,804	10.18	97,121	78,668	11.20
		74	62	104,175	81,256	9.27	90,508	83,267	10.12	89,060	72,138	11.13
		68	57	95,427	74,433	9.18	82,908	76,275	10.02	81,581	66,081	11.02
	3300	86	72	124,999	97,499	9.41	108,600	99,912	10.26	106,862	86,559	11.29
		80	67	115,100	89,778	9.35	100,000	92,000	10.20	98,400	79,704	11.22
		74	62	105,547	82,326	9.29	91,700	84,364	10.14	90,233	73,089	11.15
		68	57	96,684	75,414	9.20	84,000	77,280	10.04	82,656	66,951	11.04
PNGF-125C2	3600	86	72	136,581	106,533	10.67	118,596	109,108	12.14	116,698	94,526	13.36
		80	67	125,765	98,097	10.60	109,204	100,468	12.07	107,457	87,040	13.28
		74	62	115,327	89,955	10.54	100,140	92,129	12.00	98,538	79,816	13.20
		68	57	105,643	82,401	10.43	91,732	84,393	11.88	90,264	73,114	13.07
	3900	86	72	138,380	107,936	10.69	120,158	110,545	12.17	118,235	95,771	13.38
		80	67	127,422	99,389	10.63	110,643	101,791	12.09	108,872	88,187	13.30
		74	62	116,846	91,140	10.56	101,459	93,343	12.02	99,836	80,867	13.22
		68	57	107,034	83,487	10.46	92,940	85,505	11.90	91,453	74,077	13.09
	4200	86	72	140,203	109,358	10.71	121,741	112,001	12.19	119,793	97,032	13.41
		80	67	129,100	100,698	10.65	112,100	103,132	12.12	110,306	89,348	13.33
		74	62	118,385	92,340	10.59	102,796	94,572	12.05	101,151	81,932	13.25
		68	57	108,444	84,586	10.48	94,164	86,631	11.93	92,657	75,052	13.12

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PERFORMANCE DATA TABLES

Model	Air On Evaporator			Condenser Ambient Temperature								
	Air Flow	Temp ° F		95			115			125		
	CFM	DB	WB	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input
				Total	Sen.		Total	Sen.		Total	Sen.	
PNGF-135C2	3900	86	72	148,218	115,610	11.42	129,704	119,328	13.22	127,629	103,380	14.55
		80	67	136,481	106,455	11.35	119,433	109,878	13.15	117,522	95,193	14.46
		74	62	125,153	97,619	11.28	109,520	100,759	13.07	107,768	87,292	14.37
		68	57	114,644	89,422	11.17	100,324	92,298	12.94	98,719	79,962	14.23
	4200	86	72	150,171	117,133	11.44	131,413	120,900	13.25	129,310	104,741	14.58
		80	67	138,279	107,857	11.37	121,006	111,326	13.17	119,070	96,447	14.49
		74	62	126,802	98,905	11.31	110,963	102,086	13.09	109,187	88,442	14.40
		68	57	116,154	90,600	11.19	101,645	93,514	12.96	100,019	81,015	14.26
	4500	86	72	152,149	118,676	11.47	133,144	122,492	13.28	131,013	106,121	14.61
		80	67	140,100	109,278	11.40	122,600	112,792	13.20	120,638	97,717	14.52
		74	62	128,472	100,208	11.33	112,424	103,430	13.12	110,625	89,607	14.43
		68	57	117,684	91,794	11.22	102,984	94,745	12.99	101,336	82,082	14.29
PNGF-150C2	4400	86	72	170,435	132,940	13.22	148,218	136,361	14.88	145,847	118,136	16.37
		80	67	156,939	122,412	13.14	136,481	125,563	14.79	134,297	108,781	16.27
		74	62	143,913	112,252	13.06	125,153	115,141	14.70	123,151	99,752	16.17
		68	57	131,828	102,826	12.93	114,644	105,473	14.55	112,810	91,376	16.01
	4700	86	72	172,680	134,691	13.25	150,171	138,157	14.91	147,768	119,692	16.40
		80	67	159,006	124,024	13.17	138,279	127,216	14.82	136,066	110,214	16.30
		74	62	145,808	113,730	13.09	126,802	116,657	14.73	124,773	101,066	16.20
		68	57	133,565	104,181	12.96	116,154	106,862	14.58	114,296	92,579	16.04
	5000	86	72	174,955	136,465	13.28	152,149	139,977	14.94	149,714	121,269	16.43
		80	67	161,100	125,658	13.20	140,100	128,892	14.85	137,858	111,665	16.34
		74	62	147,729	115,228	13.12	128,472	118,194	14.76	126,416	102,397	16.24
		68	57	135,324	105,553	12.99	117,684	108,269	14.61	115,801	93,799	16.07
PNGF-175C2	5200	86	72	186,410	145,400	14.82	169,377	155,827	16.88	166,667	135,001	18.57
		80	67	171,649	133,886	14.73	155,964	143,487	16.78	153,469	124,310	18.46
		74	62	157,402	122,773	14.65	143,019	131,578	16.68	140,731	113,992	18.35
		68	57	144,185	112,464	14.50	131,010	120,529	16.51	128,914	104,420	18.16
	5500	86	72	188,866	147,315	14.86	171,608	157,880	16.92	168,863	136,779	18.61
		80	67	173,909	135,649	14.77	158,019	145,377	16.81	155,490	125,947	18.50
		74	62	159,475	124,390	14.68	144,903	133,311	16.71	142,585	115,494	18.39
		68	57	146,084	113,945	14.53	132,736	122,117	16.55	130,612	105,796	18.20
	5800	86	72	191,353	149,255	14.89	173,869	159,959	16.95	171,087	138,580	18.65
		80	67	176,200	137,436	14.80	160,100	147,292	16.85	157,538	127,606	18.54
		74	62	161,575	126,029	14.71	146,812	135,067	16.75	144,463	117,015	18.42
		68	57	148,008	115,446	14.56	134,484	123,725	16.58	132,332	107,189	18.24

COOLEX

PERFORMANCE DATA TABLES

Model	Air On Evaporator			Condenser Ambient Temperature								
	Air Flow	Temp ° F		95			115			125		
	CFM	DB	WB	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input
				Total	Sen.		Total	Sen.		Total	Sen.	
PNGF-200C2	6000	86	72	204,290	159,346	15.82	187,045	172,082	17.83	184,052	149,082	19.62
		80	67	188,112	146,727	15.73	172,233	158,454	17.73	169,477	137,277	19.50
		74	62	172,499	134,549	15.64	157,938	145,303	17.62	155,411	125,883	19.38
		68	57	158,014	123,251	15.48	144,676	133,102	17.44	142,361	115,312	19.19
	6400	86	72	206,980	161,445	15.86	189,509	174,348	17.87	186,477	151,046	19.66
		80	67	190,590	148,660	15.77	174,502	160,541	17.76	171,710	139,085	19.54
		74	62	174,771	136,321	15.67	160,018	147,217	17.66	157,458	127,541	19.42
		68	57	160,095	124,874	15.51	146,581	134,855	17.48	144,236	116,831	19.23
	6800	86	72	209,707	163,571	15.89	192,005	176,644	17.91	188,933	153,036	19.70
		80	67	193,100	150,618	15.80	176,800	162,656	17.80	173,971	140,917	19.58
		74	62	177,073	138,117	15.71	162,126	149,156	17.69	159,532	129,221	19.46
		68	57	162,204	126,519	15.55	148,512	136,631	17.52	146,136	118,370	19.27
PNGF-240C2	7200	86	72	259,515	202,421	19.23	225,660	207,607	23.14	222,050	179,860	25.46
		80	67	238,964	186,392	19.12	207,790	191,167	23.01	204,466	165,617	25.31
		74	62	219,130	170,921	19.00	190,544	175,300	22.87	187,495	151,871	25.15
		68	57	200,729	156,569	18.81	174,544	160,580	22.64	171,751	139,118	24.90
	7600	86	72	262,933	205,087	19.27	228,632	210,342	23.19	224,974	182,229	25.51
		80	67	242,111	188,847	19.16	210,527	193,685	23.05	207,159	167,799	25.36
		74	62	222,016	173,172	19.04	193,053	177,609	22.91	189,964	153,871	25.20
		68	57	203,373	158,631	18.85	176,843	162,695	22.68	174,013	140,951	24.95
	8000	86	72	266,396	207,789	19.32	231,644	213,112	23.24	227,937	184,629	25.56
		80	67	245,300	191,334	19.20	213,300	196,236	23.10	209,887	170,009	25.41
		74	62	224,940	175,453	19.08	195,596	179,948	22.96	192,467	155,898	25.26
		68	57	206,052	160,721	18.89	179,172	164,838	22.73	176,305	142,807	25.00
PNGF-270C2	8200	86	72	304,372	237,410	23.19	274,749	252,769	29.05	270,353	218,986	31.96
		80	67	280,268	218,609	23.05	252,992	232,752	28.88	248,944	201,644	31.77
		74	62	257,006	200,465	22.91	231,993	213,434	28.71	228,281	184,908	31.58
		68	57	235,425	183,632	22.68	212,513	195,512	28.42	209,113	169,381	31.26
	8600	86	72	308,380	240,537	23.24	278,368	256,098	29.11	273,914	221,870	32.02
		80	67	283,960	221,489	23.10	256,324	235,818	28.94	252,223	204,300	31.83
		74	62	260,391	203,105	22.96	235,049	216,245	28.77	231,288	187,343	31.64
		68	57	238,526	186,051	22.73	215,312	198,087	28.48	211,867	171,612	31.33
	9000	86	72	312,442	243,705	23.29	282,034	259,471	29.17	277,522	224,793	32.09
		80	67	287,700	224,406	23.15	259,700	238,924	29.00	255,545	206,991	31.90
		74	62	263,821	205,780	23.01	238,145	219,093	28.83	234,335	189,811	31.71
		68	57	241,668	188,501	22.78	218,148	200,696	28.54	214,658	173,873	31.39

COOLEX

PERFORMANCE DATA TABLES

Model	Air On Evaporator			Condenser Ambient Temperature								
	Air Flow	Temp ° F		95			115			125		
	CFM	DB	WB	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input
				Total	Sen.		Total	Sen.		Total	Sen.	
PNGF-300C2	8700	86	72	322,991	251,933	24.54	288,502	265,422	30.06	283,886	229,948	33.06
		80	67	297,414	231,983	24.39	265,656	244,403	29.88	261,405	211,738	32.86
		74	62	272,728	212,728	24.25	243,606	224,118	29.70	239,709	194,164	32.67
		68	57	249,828	194,866	24.00	223,151	205,299	29.40	219,581	177,860	32.34
	9100	86	72	327,246	255,252	24.59	292,302	268,918	30.12	287,625	232,977	33.13
		80	67	301,331	235,038	24.45	269,155	247,623	29.94	264,848	214,527	32.93
		74	62	276,321	215,530	24.30	246,815	227,070	29.76	242,866	196,721	32.73
		68	57	253,118	197,432	24.06	226,090	208,003	29.46	222,473	180,203	32.41
	9500	86	72	331,556	258,614	24.65	296,152	272,460	30.18	291,414	236,045	33.20
		80	67	305,300	238,134	24.50	272,700	250,884	30.00	268,337	217,353	33.00
		74	62	279,960	218,369	24.35	250,066	230,061	29.82	246,065	199,313	32.80
		68	57	256,452	200,033	24.11	229,068	210,743	29.52	225,403	182,576	32.47
PNGF-325C2	8900	86	72	356,211	277,845	26.34	333,677	306,983	31.56	328,338	265,954	34.72
		80	67	328,003	255,842	26.18	307,253	282,673	31.37	302,337	244,893	34.51
		74	62	300,778	234,607	26.03	281,751	259,211	31.18	277,243	224,567	34.30
		68	57	275,522	214,907	25.77	258,092	237,445	30.87	253,963	205,710	33.96
	9300	86	72	360,903	281,504	26.40	338,072	311,026	31.62	332,662	269,457	34.78
		80	67	332,323	259,212	26.24	311,300	286,396	31.43	306,319	248,118	34.58
		74	62	304,740	237,697	26.08	285,462	262,625	31.25	280,895	227,525	34.37
		68	57	279,151	217,738	25.82	261,492	240,572	30.93	257,308	208,419	34.03
	9700	86	72	365,656	285,212	26.46	342,524	315,122	31.69	337,044	273,006	34.86
		80	67	336,700	262,626	26.30	315,400	290,168	31.50	310,354	251,386	34.65
		74	62	308,754	240,828	26.14	289,222	266,084	31.31	284,594	230,521	34.44
		68	57	282,828	220,606	25.88	264,936	243,741	31.00	260,697	211,165	34.10
PNGF-350C2	9200	86	72	398,846	311,100	30.25	373,561	343,676	35.77	367,584	297,743	39.34
		80	67	367,262	286,464	30.07	343,979	316,461	35.55	338,475	274,165	39.11
		74	62	336,779	262,688	29.89	315,429	290,195	35.34	310,382	251,409	38.87
		68	57	308,500	240,630	29.59	288,942	265,827	34.99	284,319	230,299	38.49
	9600	86	72	404,100	315,198	30.31	378,482	348,203	35.84	372,426	301,665	39.42
		80	67	372,099	290,237	30.13	348,510	320,629	35.63	342,934	277,776	39.19
		74	62	341,215	266,148	29.95	319,583	294,017	35.41	314,470	254,721	38.95
		68	57	312,563	243,799	29.65	292,748	269,328	35.06	288,064	233,332	38.56
	10000	86	72	409,422	319,349	30.38	383,467	352,789	35.91	377,331	305,638	39.51
		80	67	377,000	294,060	30.20	353,100	324,852	35.70	347,450	281,435	39.27
		74	62	345,709	269,653	30.02	323,793	297,889	35.49	318,612	258,076	39.03
		68	57	316,680	247,010	29.72	296,604	272,876	35.13	291,858	236,405	38.64

PERFORMANCE DATA TABLES

LEGEND:

CFM : Air flow rate (Ft^3/minute)
DB : Dry bulb temperature (°F)
WB : Wet bulb temperature (°F)
P.I : Power input is Total Power (kW)

*Note: Capacity in kW= (Btu/hr/12000)*3.517. Cooling capacities are gross ratings*

UNIT ELECTRICAL DATA

MODEL	POWER SUPPLY	VOLTAGE RANGE		FM	COMPRESSOR		BLOWER MOTOR		MCA	MOCP
	(V-PH-HZ)	MIN.	MAX.	FLA	RLA	LRA	HP	FLA		
PNGF-048	415/3/50	374	457	1.3	10.7	64	0.75	2.5	17.2	25
PNGF-060	415/3/50	374	457	1.3	10	64	1	3.3	17.1	25
PNGF-076	415/3/50	374	457	1.6	12.5	75	1	2.4	17.6	30
PNGF-090	415/3/50	374	457	2.4	14.5	101	2	4.3	24.8	35
PNGF-100	415/3/50	374	457	2.4	16.4	128	2	4.3	27.2	40
PNGF-125	415/3/50	374	457	3	18	139	2	4.3	29.8	45
PNGF-135	415/3/50	374	457	1.6	20.8	144	3	4.6	33.8	50
PNGF-150	415/3/50	374	457	1.6	13.6	100	3	4.6	38.4	50
PNGF-175	415/3/50	374	457	3	12.5 14.5	75 101	5	7.2	43.8	50
PNGF-200	415/3/50	374	457	3	13.6 14.5	100 101	5	7.2	44.9	50
PNGF-240	415/3/50	374	457	3	16.4 18	128 139	5	7.2	52.1	70
PNGF-270	415/3/50	374	457	3	18	139	5	7.2	53.7	70
PNGF-300	415/3/50	374	457	3	18 20.8	139 144	5	7.2	57.2	70
PNGF-325	415/3/50	374	457	3	20.8	144	5	7.2	60.0	80
PNGF-350	415/3/50	374	457	3.8	25.0 28.6	140 174	5	7.2	75.6	100

LEGEND:

FLA - Full Load Amps
HP - Horse Power
LRA - Locked Rotor Amps
RLA - Rated Load Amps
MCA - Minimum Circuit Amps
MOCP - Maximum Over Current Protection

FAN PERFORMANCE

DIRECT DRIVEN MOTOR (CFM)

MODEL	External Static Pressure [in.wg]					
	0.0	0.1	0.2	0.3	0.4	0.5
PNGF-048	1400	1361	1323	1287	-	-
	1500	1415	1325	1237	1143	-
	1613	1573	1481	1395	1295	1210
PNGF-060	1800	1692	1359	1240	-	-
	1900	1780	1661	1543	1415	-
	2004	1897	1771	1643	1499	1350

BELT DRIVEN MOTOR

Model	CFM	External Static Pressure [in.wg]																			
		0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
PNGF-076	2200	770	0.55	810	0.60	848	0.64	886	0.70	923	0.75	-	-	-	-	-	-	-	-	-	-
	2350	775	0.60	813	0.66	850	0.71	887	0.76	922	0.82	-	-	-	-	-	-	-	-	-	-
	2514	780	0.67	818	0.72	854	0.78	889	0.83	93	0.88	-	-	-	-	-	-	-	-	-	-
PNGF-090	2600	784	0.71	821	0.76	856	0.82	891	0.87	925	0.92	958	1.00	991	1.04	1023	1.11	1055	1.17	1086	1.23
	2800	793	0.80	829	0.86	863	0.91	897	0.98	930	1.03	962	1.10	994	1.15	1025	1.22	1055	1.29	1085	1.35
	3014	803	0.90	838	0.97	872	1.03	905	1.09	937	1.15	968	1.22	999	1.27	1029	14.09	1058	1.41	1087	1.47
PNGF-100	2800	793	0.80	829	0.86	863	0.91	897	0.98	930	1.03	962	1.10	994	1.15	1025	1.22	1055	1.29	1085	1.35
	3000	803	0.90	838	0.97	872	1.03	905	1.09	937	1.15	968	1.22	999	1.27	1029	1.34	1058	1.41	1087	1.47
	3273	821	1.07	855	1.14	887	1.21	919	1.27	950	1.34	980	1.42	1009	1.49	1038	1.55	1067	1.62	1095	1.69

BELT DRIVEN MOTOR

Model	CFM	External Static Pressure [in.wg]																			
		0.30		0.40		0.60		0.80		1.00		1.20		1.40		1.60		1.80		2.00	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
PNGF-125	3200	708	0.84	738	1.00	798	1.15	857	1.34	-	-	-	-	-	-	-	-	-	-	-	-
	3700	714	1.10	743	1.18	799	1.35	853	1.53	905	1.72	956	1.90	1006	2.12	1055	2.33	-	-	-	-
	4172	725	1.34	753	1.40	806	1.58	857	1.77	906	1.96	954	2.16	1000	2.35	1046	2.57	1090	2.80	1134	3.03
PNGF-135	4000	721	1.23	749	1.34	803	1.49	855	1.68	905	1.86	953	2.05	1001	2.27	1048	2.48	1094	2.71	1139	2.94
	4400	731	1.45	758	1.53	810	1.72	860	1.90	908	2.09	955	2.29	1000	2.49	1044	2.72	1088	2.94	1130	3.18
	4825	744	1.69	770	1.78	821	1.97	869	2.17	916	2.37	960	2.59	1004	2.80	1046	3.02	1087	3.24	1128	3.47
PNGF-150	4200	726	1.34	753	1.42	806	1.60	857	1.78	906	1.97	954	2.17	1000	2.37	1045	2.59	1090	2.82	1134	3.04
	4600	737	1.55	764	1.65	815	1.84	864	2.02	911	2.23	957	2.43	1001	2.63	1045	2.86	1087	3.07	1129	3.31
	5077	752	1.85	778	1.96	828	2.14	875	2.36	921	2.56	965	2.77	1007	2.99	1049	3.22	1089	3.44	1129	3.69
PNGF-175	5100	859	1.80	892	1.90	954	2.10	1014	2.32	1071	2.52	1126	2.74	1179	2.94	1231	3.16	1281	3.38	1329	3.60
	5700	878	2.20	909	2.30	968	2.54	1025	2.78	1080	3.00	1133	3.24	1185	3.46	1235	3.70	1283	3.94	1330	4.18
	6306	902	2.66	931	2.78	987	3.04	1041	3.30	1093	3.54	1145	3.80	1194	4.06	1243	4.32	1289	4.58	1335	4.84

See Note on pg. 18

FAN PERFORMANCE

BELT DRIVEN MOTOR

Model	CFM	External Static Pressure [in.wg]																			
		0.30		0.40		0.60		0.80		1.00		1.20		1.40		1.60		1.80		2.00	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
PNGF-200	5700	878	2.20	909	2.30	968	2.54	1025	2.78	1080	3.00	1133	3.24	1185	3.46	1235	3.70	1283	3.94	1330	4.18
	6200	898	2.56	926	2.70	983	2.94	1038	3.20	1091	3.44	1142	3.70	1192	3.96	1241	4.20	1288	4.46	1334	4.72
	6747	915	2.90	950	3.18	1003	3.44	1055	3.72	1106	4.00	1155	4.26	1204	4.54	1251	4.82	1296	5.10	1341	5.36
PNGF-240	6800	879	2.54	910	2.66	970	2.94	1027	3.22	1081	3.50	1134	3.78	1186	4.08	1236	4.36	1284	4.66	1332	4.96
	7000	884	2.66	915	2.82	975	3.10	1031	3.38	1085	3.66	1137	3.96	1188	4.24	1237	4.54	1286	4.84	1333	5.16
	7302	893	2.88	923	3.04	982	3.32	1038	3.62	1091	3.92	1142	4.22	1192	4.46	1241	4.84	1288	5.14	1334	5.46
PNGF-270	8000	709	2.66	737	2.84	791	3.20	843	3.58	893	3.96	942	4.36	989	4.78	1035	5.20	1080	5.62	1124	6.08
	8500	715	2.94	742	3.12	795	3.28	845	3.88	894	4.28	941	4.64	987	5.12	1032	5.54	1076	6.00	1119	6.44
	9578	756	3.82	782	4.02	807	4.22	854	4.64	901	5.06	945	5.50	989	5.94	1031	6.40	1073	6.86	1114	7.34

BELT DRIVEN MOTOR

Model	CFM	External Static Pressure [in.wg]																			
		0.40		0.50		0.60		0.80		1.00		1.20		1.40		1.60		1.80		2.00	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
PNGF-300	9000	748	3.42	774	3.62	799	3.80	849	4.20	896	4.62	942	5.04	987	5.46	1031	5.92	1074	6.38	1116	6.84
	9200	751	3.54	776	3.74	802	3.94	850	4.34	897	4.76	943	5.18	988	5.62	1031	6.08	1073	6.54	1115	6.96
	9557	756	3.82	782	4.02	807	4.22	854	4.64	901	5.06	945	5.50	989	5.94	1031	6.40	1073	6.86	1114	7.34
PNGF-325	9200	751	3.54	776	3.74	802	3.94	850	4.34	897	4.76	943	5.18	988	5.62	1031	6.08	1073	6.54	1115	6.96
	9400	753	3.68	779	3.88	804	4.08	852	4.48	899	4.90	944	5.34	988	5.78	1031	6.24	1073	6.70	1114	7.18
	9598	756	3.82	782	4.02	807	4.22	854	4.64	901	5.06	945	5.50	989	5.94	1031	6.40	1073	6.86	1114	7.34
PNGF-350	9400	753	3.68	779	3.88	804	4.08	852	4.48	899	4.90	944	5.34	988	5.78	1031	6.24	1073	6.70	1114	7.18
	9800	759	3.96	785	4.16	809	4.36	857	4.78	902	5.22	947	5.66	990	6.10	1032	6.56	1073	7.04	1114	7.52
	10297	766	4.18	790	4.46	814	4.64	861	5.10	906	5.54	950	6.00	992	6.46	1034	6.92	1074	7.40	1114	7.90

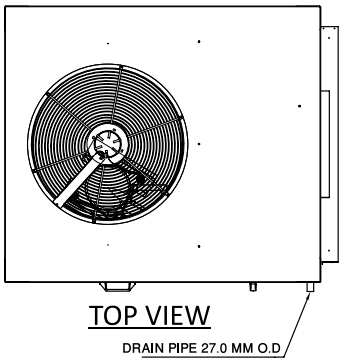
LEGEND:

RPM : Fan Speed in revolution per minute
BHP : Fan absorbed power

Note:

1. Internal Static pressure is based on pressure drops through evaporator coil, fan casing and 2" washable filters.
2. Blue shaded area indicates the operating range of a standard motor and drive combination.
3.Green shaded area indicates the operating range of a standard motor with non standard drive combination.
4. Gray shaded area indicates operating range using non standard motor and drive combination.
5. To determine the power of motor to be installed, just multiply the value of the absorbed power indicated above by 1.2.

UNIT DIMENSIONS

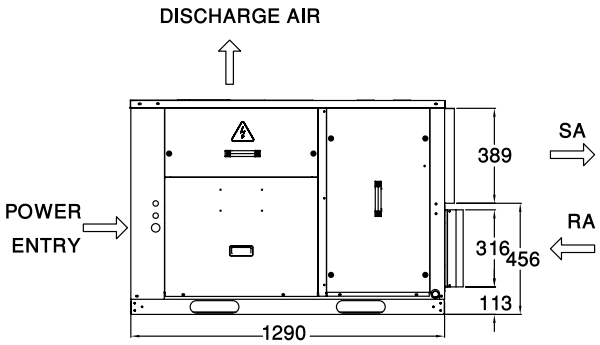


TOP VIEW

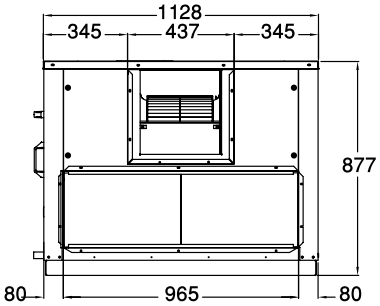
DRAIN PIPE 27.0 MM O.D

PNGF-048/060

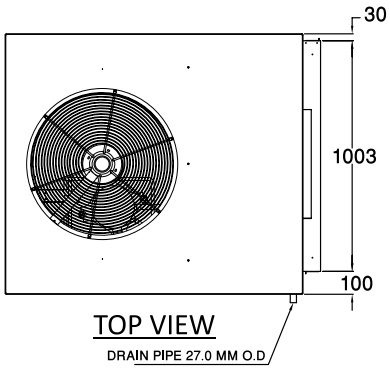
ALL DIMENSIONS ARE IN MM



SIDE VIEW



FRONT VIEW

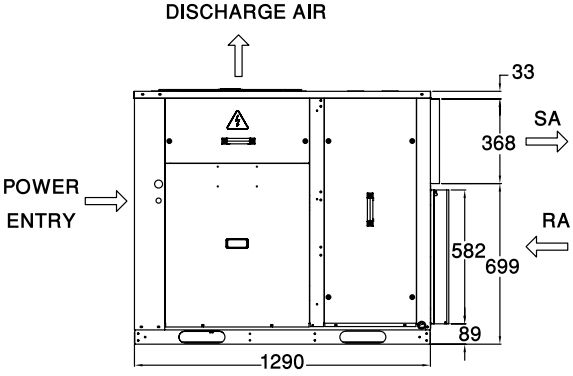


TOP VIEW

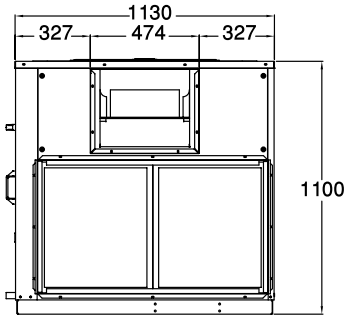
DRAIN PIPE 27.0 MM O.D

PNGF-076

ALL DIMENSIONS ARE IN MM

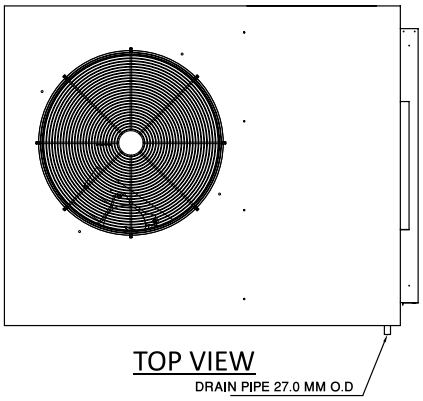


SIDE VIEW



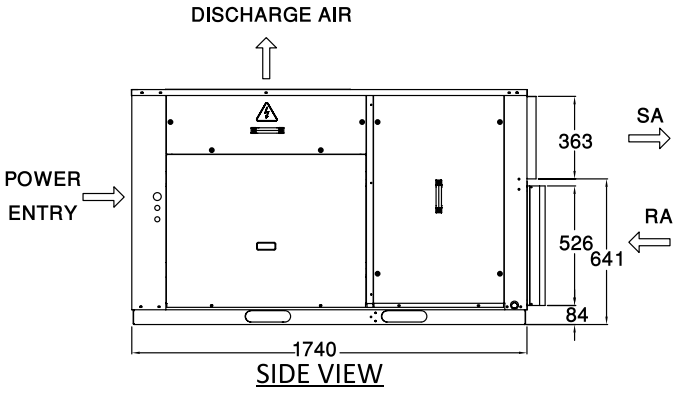
FRONT VIEW

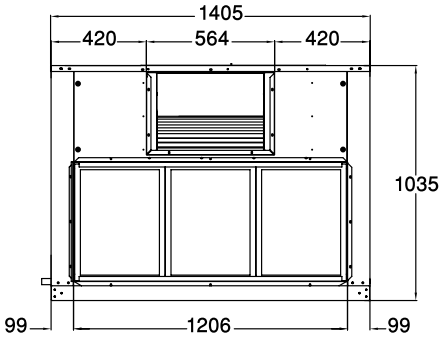
UNIT DIMENSIONS

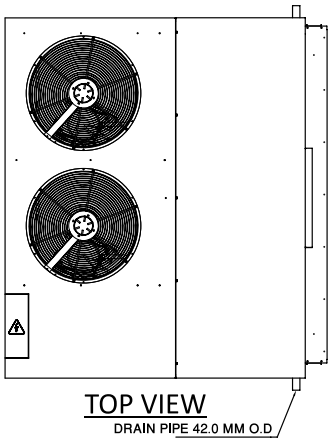


PNGF-090/100/125

ALL DIMENSIONS ARE IN MM

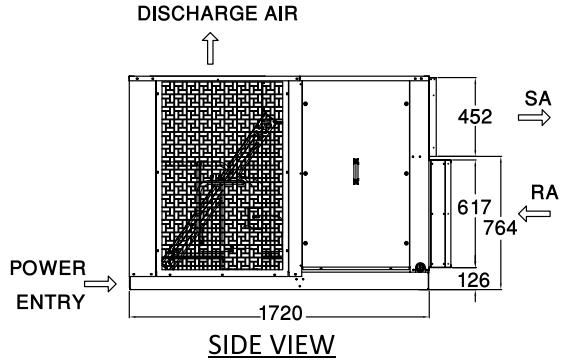


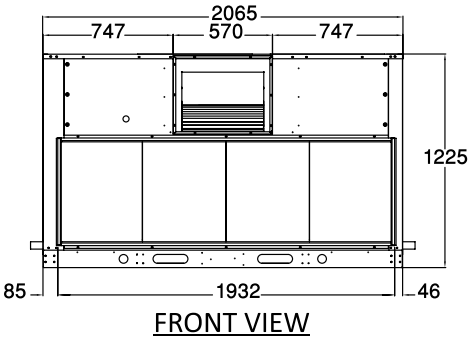




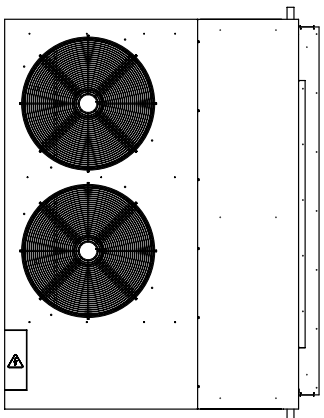
PNGF-135/150

ALL DIMENSIONS ARE IN MM





UNIT DIMENSIONS

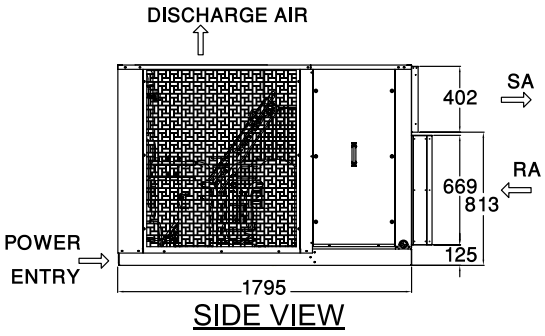


TOP VIEW

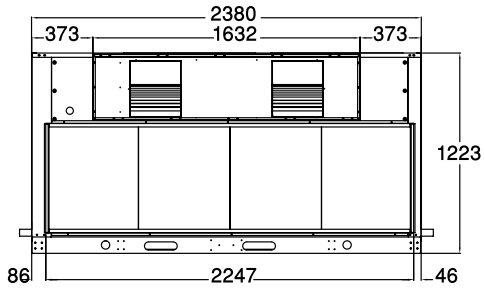
DRAIN PIPE 42.0 MM O.D

PNGF-175/200

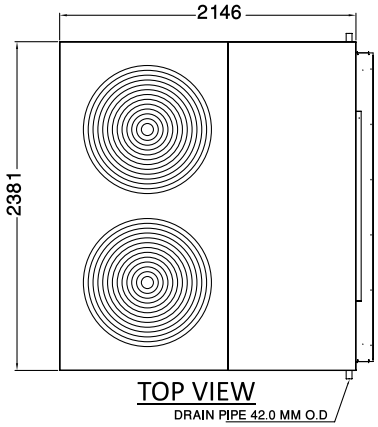
ALL DIMENSIONS ARE IN MM



SIDE VIEW



FRONT VIEW

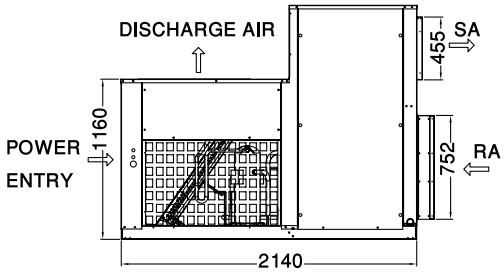


TOP VIEW

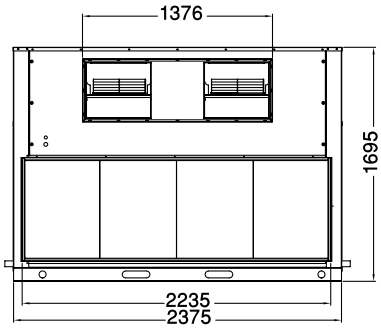
DRAIN PIPE 42.0 MM O.D

PNGF-240

ALL DIMENSIONS ARE IN MM

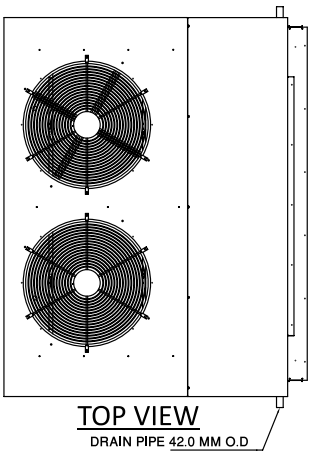


SIDE VIEW



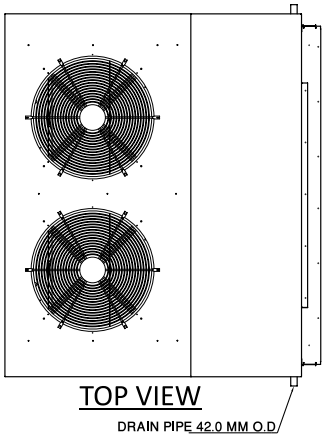
FRONT VIEW

UNIT DIMENSIONS



PNGF-270

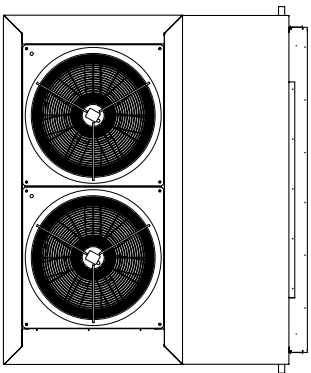
ALL DIMENSIONS ARE IN MM



PNGF-300/325

ALL DIMENSIONS ARE IN MM

UNIT DIMENSIONS

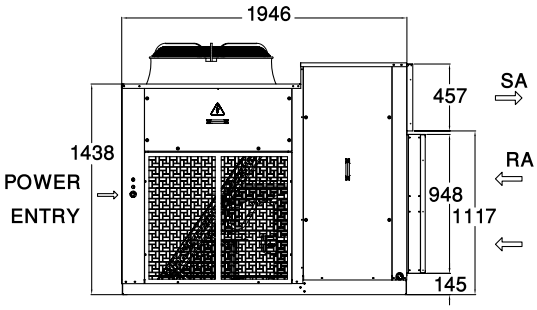


TOP VIEW

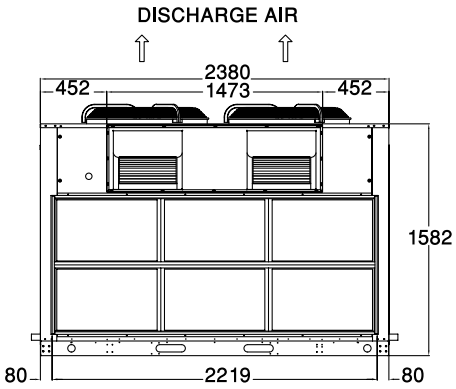
DRAIN PIPE 42.0 MM O.D

PNGF-350

ALL DIMENSIONS ARE IN MM

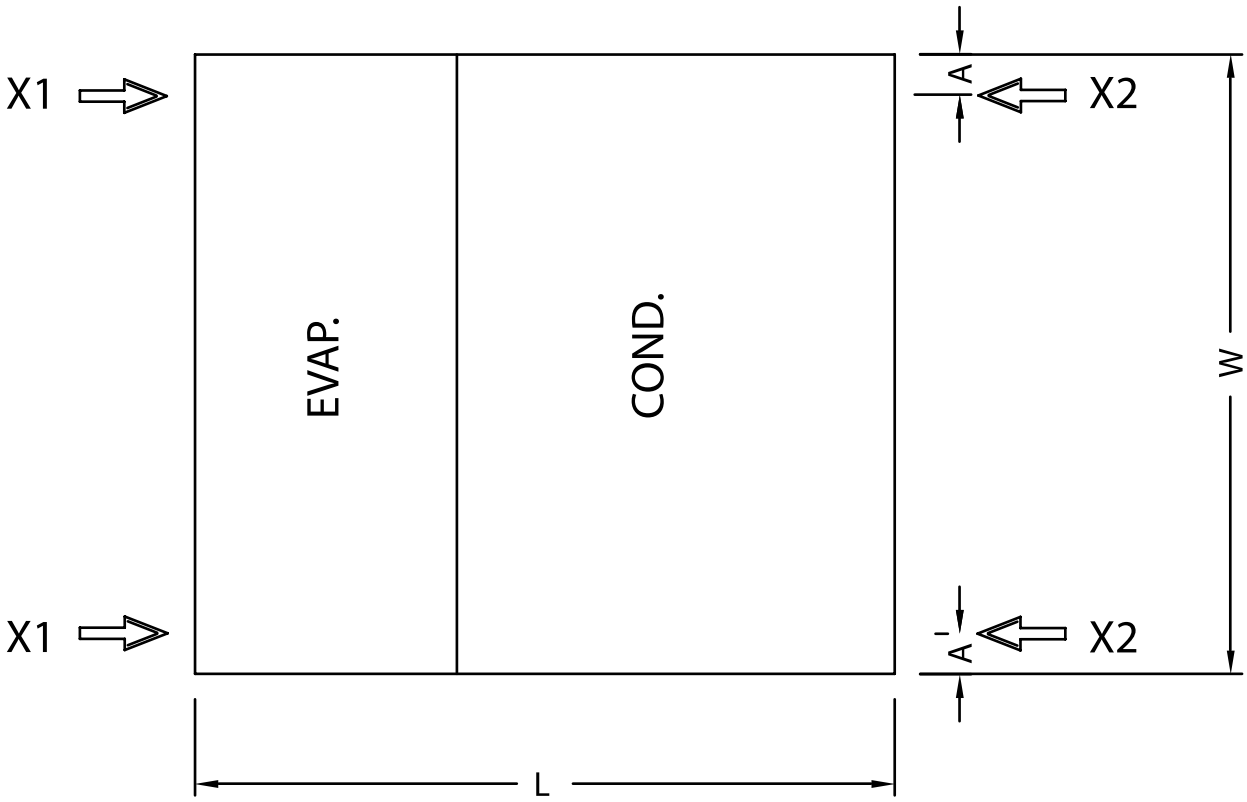


SIDE VIEW



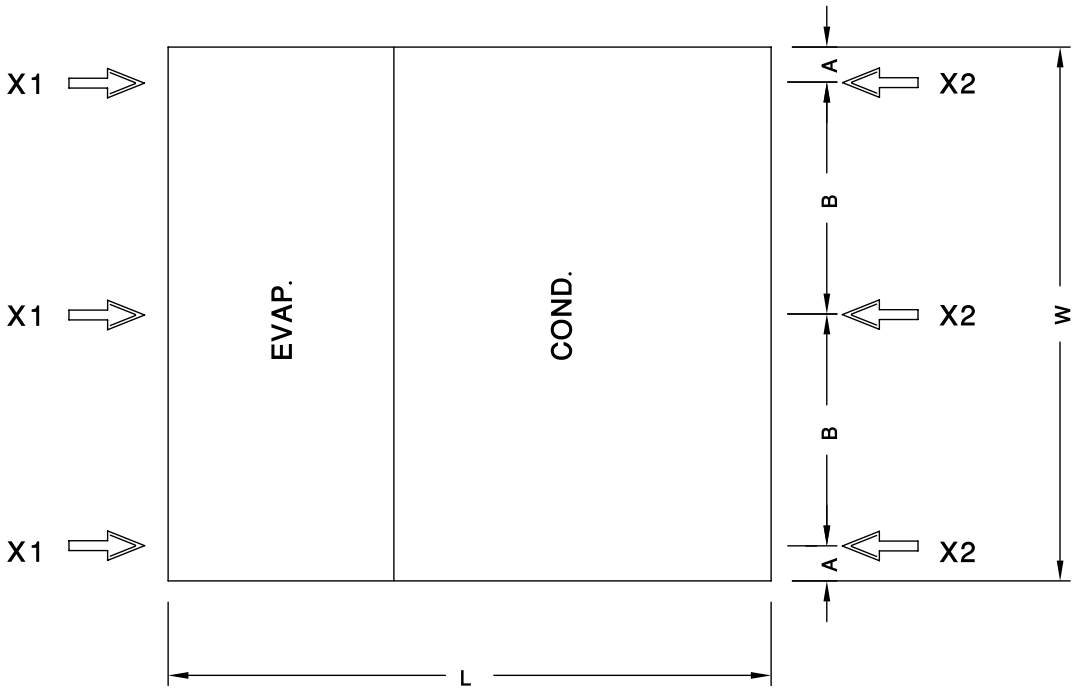
FRONT VIEW

LOAD DISTRIBUTION



LOAD DISTRIBUTION					
MODEL	L (mm)	W (mm)	A (mm)	X1 (kg)	X2 (kg)
PNGF-048	1290	1130	75	50.0	45.0
PNGF-060	1290	1130	75	51.0	47.0
PNGF-076	1290	1130	75	67.5	60.5
PNGF-090	1745	1410	75	108.7	72.2
PNGF-100	1745	1410	75	110.7	73.8
PNGF-125	1745	1410	75	115.0	77.5

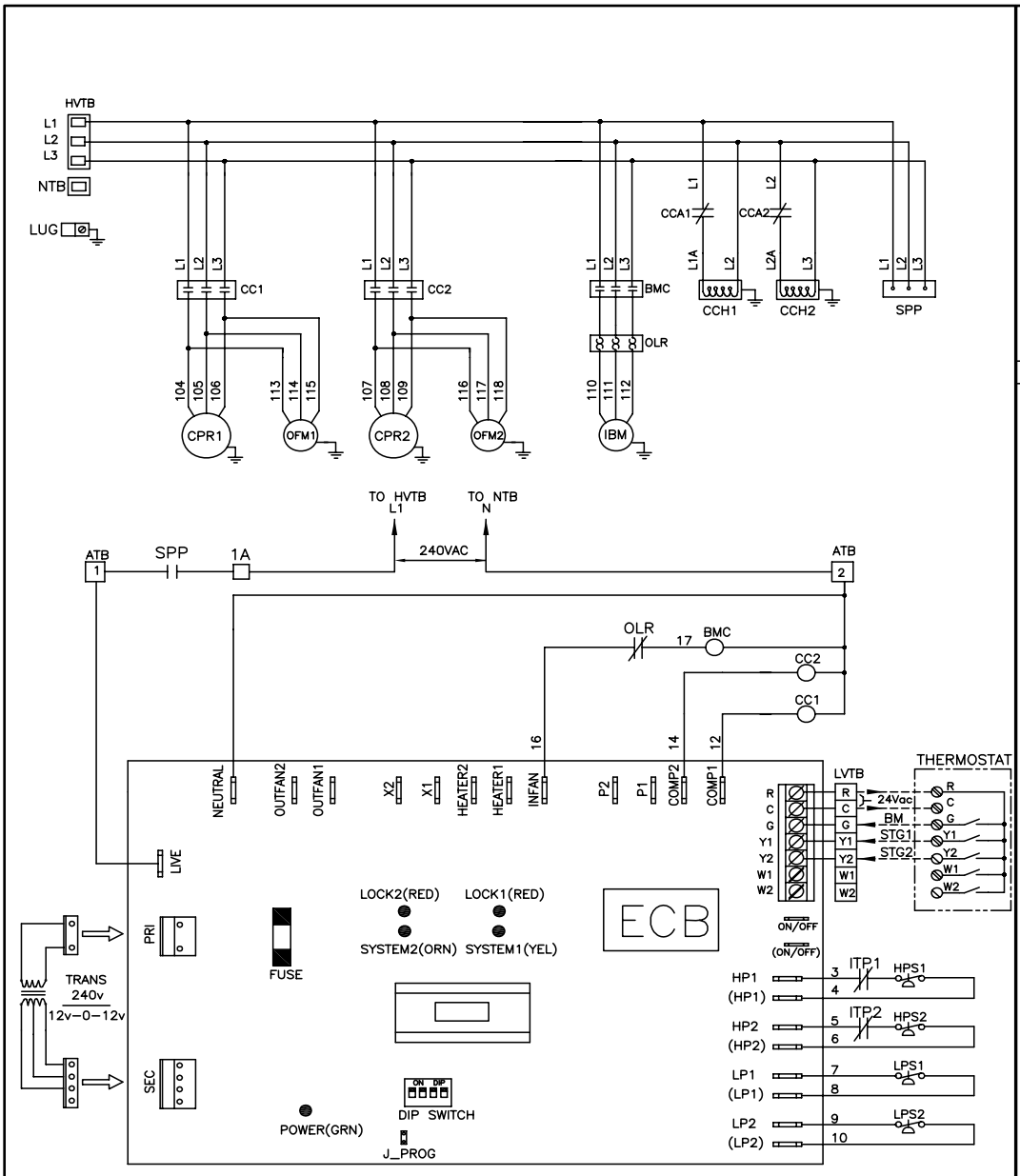
LOAD DISTRIBUTION



	LOAD DISTRIBUTION					
MODEL	L (mm)	W (mm)	A (mm)	B (mm)	X1 (kg)	X2 (kg)
PNGF-135	1600	2210	125	980	108.0	72.0
PNGF-150	1600	2210	125	980	122.0	81.3
PNGF-175	1800	2400	125	1075	150.6	81.1
PNGF-200	1800	2400	125	1075	156.0	84.0
PNGF-240	2150	2400	125	1075	163.8	88.1
PNGF-270	1800	2400	125	1075	217.8	118.2
PNGF-300	1940	2400	125	1075	230.8	124.3
PNGF-325	1940	2400	125	1075	265.4	142.9
PNGF-350	1940	2400	125	1075	268.7	144.7

TYPICAL WIRING DIAGRAM

WITH MICROPROCESSOR BASED CONTROLLER (STANDARD)



LEGEND:

ATB	–	AUXILIARY TERMINAL BLOCK
BMC	–	BLOWER MOTOR CONTACTOR
CCH	–	CRANKCASE HEATER
CC	–	COMPRESSOR CONTACTOR
CCA	–	COMPRESSOR CONTACTOR AUXILIARY
CPR	–	COMPRESSOR MOTOR
FC	–	FAN CONTACTOR
HP	–	HIGH PRESSURE CONTROL
HVTB	–	TERMINAL BLOCK, HIGH VOLTAGE
IBM	–	INDOOR BLOWER MOTOR
ITP	–	INTERNAL THERMAL PROTECTOR–OFM
LP	–	LOW PRESSURE CONTROL
MAC	–	MILD AMBIENT CONTROL
NTB	–	NEUTRAL TERMINAL BLOCK
OFM	–	OUTDOOR FAN MOTOR
OLR	–	OVER LOAD RELAY
SPP	–	SINGLE PHASE PREVENTER
TRANS	–	TRANSFORMER
□	–	TERMINAL BLOCK OR TERMINATION POINT
———	–	FACTORY WIRES & DEVICES
- - - -	–	FIELD WIRES BY OTHERS
- - - -	–	DEVICES BY OTHERS

NOTES

1. ANY WIRE REPLACEMENT, SHOULD BE OF THE 105'C TYPE OR ITS EQUIVALENT.
2. USE COPPER CONDUCTORS ONLY.
3. POWER MUST BE SUPPLIED TO CRANKCASE HEATER FOR A MINIMUM OF 12 HOURS, PRIOR TO SYSTEM START UP. IF POWER SUPPLY HAS BEEN INTERRUPTED FOR A PROLONGED PERIOD, OIL SUMP HEATERS MUST BE ENERGIZED FOR 12 HRS MINIMUM, BEFORE STARTING COMPRESSOR.
4. FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER TO BE PROVIDED BY THE USER, AS PER ELEC. DATA IN INSTALLATION MAN'L.
5. COMPRESSOR IS PROVIDED WITH INTERNAL OVERLOAD.
6. IF ANY CHANGE IN DIP SWITCH SETTING IS REQUIRED, TURN OFF POWER FIRST & SET REQUIRED SETTING.

ECB DIP SWITCH SETTINGS & LED INDICATORS

DIP SWITCH FUCTIONS			FACTORY SETTINGS OF DIP SWITCHES	LED INDICATORS	
S1	OFF=TEST MODE DISABLE	ON= TEST MODE ENABLE	DIP SWITCH# / S1 / S2 / S3 / S4 ON / / / / ✔ OFF / ✔ / ✔ / ✔ /	Green	power on/off indicator
S2	OFF= LOAD BALANCE (Comp1&2 Auto Lead Lag)	ON= COMPRESSOR 1 LEAD		Red	Lock–out due to system fault
S3	OFF= WITHOUT PUMP DOWN	ON=WITH PUMP DOWN OPTION		Yellow	blinking slow – LPS1 Trip blinking fast – HPS1 Trip
S4	OFF=SINGLE STAGE	ON=DUAL STAGE		Orange	blinking slow – LPS2 Trip blinking fast – HPS2 Trip

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Please contact Sales and Marketing Department sales@ric.com.kw or www.coolex.com.kw for specific information on the current design and specifications. **Ref no.: CPCFE 22-5-000**

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