

Rooftop Package Series R-407C

48-400 MBH (4 to 33.3 TR)



Packaged Air Conditioning Units With Hermetic Compressor Tropical

50 Hz

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ABOUT THE COMPANY

Refrigeration Industries & Storage and Oil Services Company, occupies a leading position as one of the largest industrial companies in Kuwait which was established in 1973. It plays a proactive role in providing various services and diverse activities such as manufacturing, storage, and oil services to meet the needs of customers both inside and outside Kuwait.

Since its inception, RIC has been committed to excellence and advancing its progress, leading to the establishment of the brand (Coolex) in 1986, a true milestone in the Kuwaiti market as the first in the region in the sector of manufacturing air conditioning systems and cooling solutions.

Furthermore, the company has consistently empowered its workforce, enhanced safety and competitiveness, and utilized innovative technologies to launch new products that meet the needs of various sectors, contributing to company's expansion and supporting growth and prosperity.

To ensure the highest performance in the future, RIC harnesses its continuous research to enhance efficiency and quality, while continuing its efforts to manufacture products capable of adapting to climate, environmental, and energy challenges.



Facts throughout the years

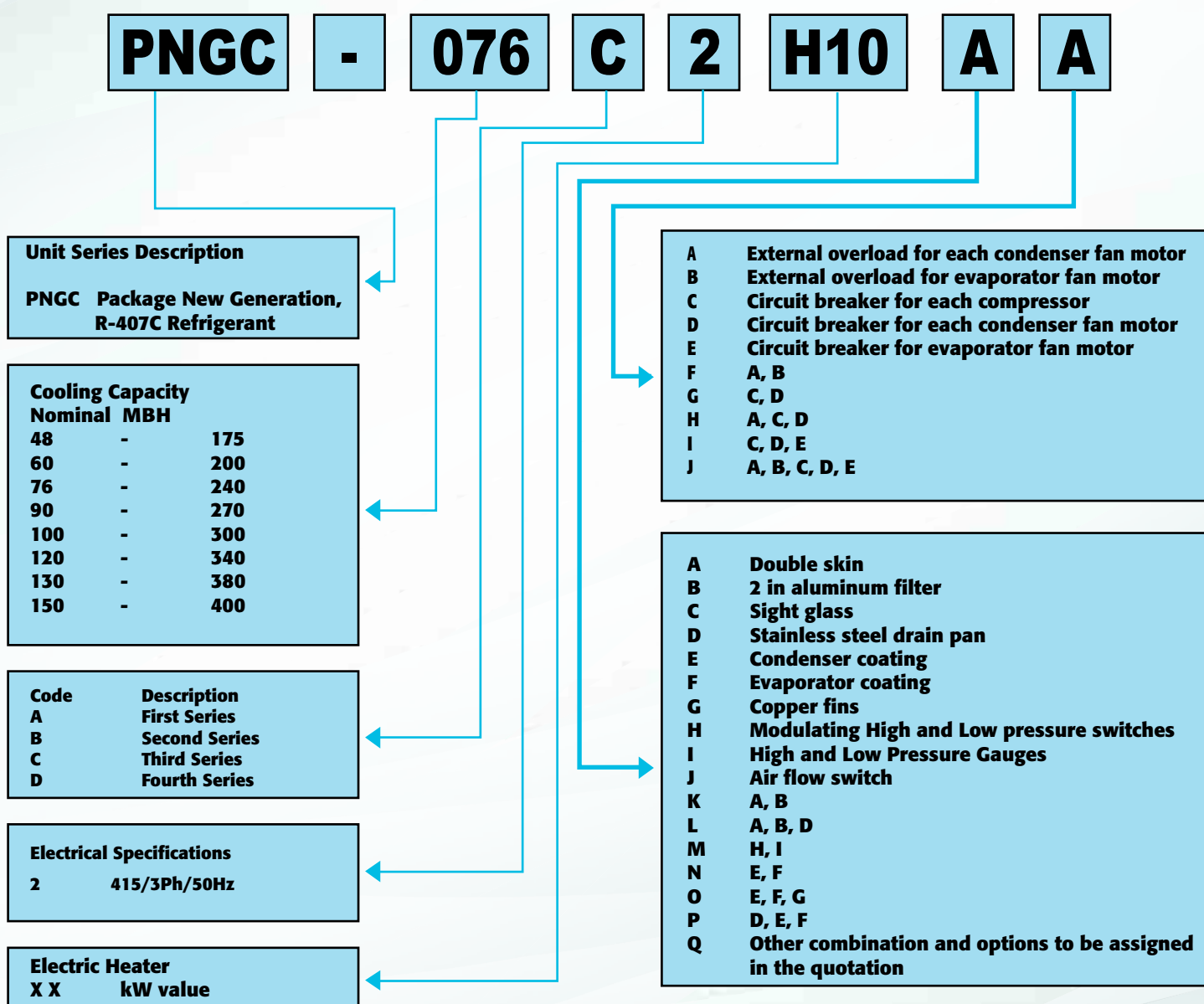
- 1973 Warehouses were established by Amiri Decree.
- 1979 RIC Constructed the Medical Cold Stores Complex, the world's largest at that time.
- 1980 RIC Air Conditioning manufacturing plant set up in Sulaibya.
- 1981 Production of Package & Mini-Split A/Cs started under York-Gulf.
- 1984 RIC was listed in Kuwait Stock Exchange.
- 1986 COOLEX brand Production Launched.
- 1991 RIC rebuilt the manufacturing plant destroyed during the war.
- 1997 Achieved ISO Certification ISO 9001:1994.
- 2002 ETL Designed testing lab became fully operational.
- 2004 Privatization of RIC.
- 2010 COOLEX becomes the first A/C Unit to Pass MEW's new regulations.
- 2010 RIC Factory Renovation and Expansion into neighboring countries.
- 2012 Achieved UL & AHRI Certification for Coolex Units.
- 2014 Achieved SASO Certification for Concealed Ducted Split Series.
- 2014 Achieved EUROVENT Certification for Air Handling Units AHU.
- 2014 Achieved UL Certification for Air Cooled Chillers.
- 2015 Achieved ISO 17025 Certification for Psychrometric Laboratory.
- 2016 Achieved Energy Efficiency Certification for Concealed Ducted Split Series & Rooftop Package units (Kingdom of Bahrain).
- 2016 Acquisition of Gulf Paramount for Electrical Services Company.
- 2021 Acquisition of Kuwait Pipes Industries & Oil Services factory, resulting in a change of the company's name from Refrigeration Industries & Storage Co. to Refrigeration Industries & Storage and Oil Services Co.

INTRODUCTION

COOLEX High Efficiency Package Units are designed for outdoor installation specifically for tropical operation with high performance, low power consumption, easy installation and low noise operations.

Cooler Packaged Units can be used for cooling or heating with optional electric heater.

NOMENCLATURE



UNIT RATING SUMMARY

Model	Air Flow (CFM)	Ambient temp 95°F				Ambient temp 115°F				Ambient temp 118.4°F				Ambient temp 125°F			
		Cooling Capacity	Total Power	kW/Ton	EER	Cooling Capacity	Total Power	kW/Ton	EER	Cooling Capacity	Total Power	kW/Ton	EER	Cooling Capacity	Total Power	kW/Ton	EER
		(Btu/h)	(kW)			(Btu/h)	(kW)			(Btu/h)	(kW)			(Btu/h)	(kW)		
PNGC-048 C2	1828	56,261	4.59	0.98	12.25	51,129	5.55	1.30	9.22	50,160	5.85	1.40	8.57	48,899	5.98	1.47	8.18
PNGC-060 C2	2197	66,217	5.60	1.02	11.82	61,304	6.71	1.31	9.14	59,640	6.95	1.40	8.58	57,600	7.21	1.50	7.99
PNGC-076 C2	2807	82,131	7.04	1.03	11.67	73,906	8.55	1.39	8.64	75,480	8.80	1.40	8.58	70,467	9.07	1.54	7.77
PNGC-090 C2	3227	96,115	8.27	1.03	11.63	91,203	9.83	1.29	9.27	86,760	10.09	1.39	8.60	81,158	10.33	1.53	7.86
PNGC-100 C2	3597	106,315	9.26	1.04	11.48	98,656	11.34	1.38	8.70	99,600	11.65	1.40	8.55	91,597	11.98	1.57	7.65
PNGC120 C2	4189	123,638	10.74	1.04	11.51	116,466	13.01	1.34	8.96	114,720	13.39	1.40	8.57	110,597	13.79	1.50	8.02
PNGC-130 C2	4467	142,268	11.48	0.97	12.39	135,721	13.07	1.16	10.38	131,520	15.23	1.38	8.64	120,770	16.12	1.60	7.49
PNGC-150 C2	5148	155,128	12.52	0.97	12.39	147,989	14.11	1.14	10.49	141,960	16.44	1.38	8.64	131,686	17.58	1.60	7.49
PNGC-175 C2	6381	177,623	15.40	1.04	11.53	169,449	17.36	1.23	9.76	160,920	20.02	1.49	8.04	150,782	21.62	1.72	6.97
PNGC-200 C2	7015	209,627	17.45	1.00	12.01	192,952	19.67	1.22	9.81	183,240	22.69	1.48	8.08	171,696	24.51	1.71	7.01
PNGC-240 C2	7998	242,412	21.15	1.05	11.46	231,229	23.85	1.24	9.69	199,680	25.03	1.50	7.98	188,698	27.43	1.74	6.88
PNGC-270 C2	8583	279,236	21.80	0.94	12.80	257,024	23.93	1.12	10.74	240,480	27.19	1.35	8.84	228,710	29.81	1.56	7.67
PNGC-300 C2	9162	314,012	25.5	1.02	12.29	284,067	27.35	1.16	10.39	264,480	30.93	1.40	8.55	252,774	34.07	1.62	7.42
PNGC-340 C2	9943	363,780	29.90	0.99	12.17	358,517	33.72	1.13	10.63	309,600	35.38	1.37	8.75	292,572	38.78	1.59	7.55
PNGC-380 C2	11500	380,061	33.91	1.07	11.21	341,713	39.98	1.40	8.55	336,337	41.24	1.47	8.16	323,443	43.58	1.62	7.42
PNGC-400 C2	12500	402,496	36.48	1.09	11.03	365,089	43.00	1.41	8.49	359,345	44.36	1.48	8.10	345,569	46.88	1.63	7.37

Rating Conditions: Indoor Temperature DB = 80 °F (26.7 °C).
WB = 67 °F (19.4 °C).

OUT STANDING FEATURES

Superior Efficiency

- High EER (Energy Efficiency Ratio)
- 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

Controls

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

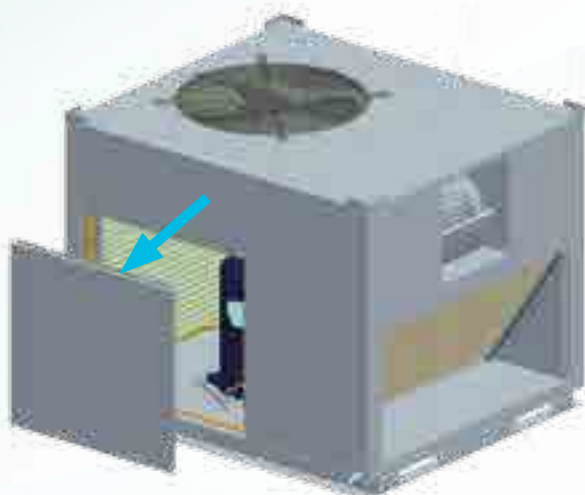
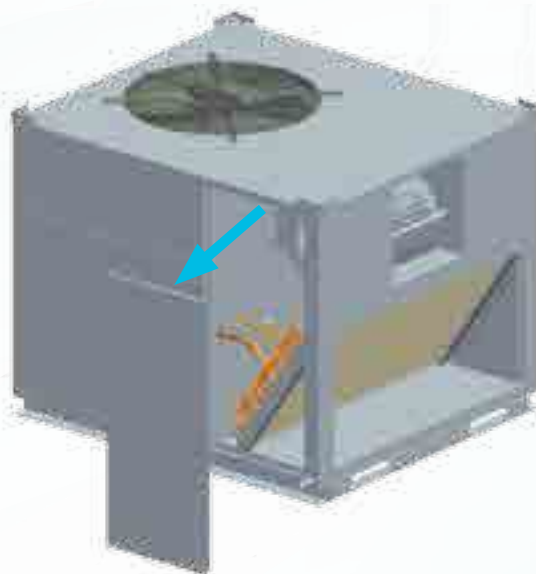
Options & Accessories

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

OUT STANDING FEATURES

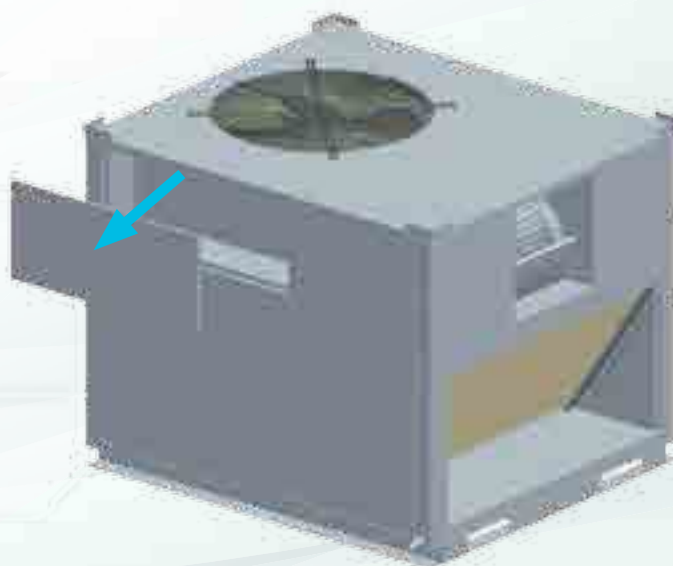
Evaporator's Side

- 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



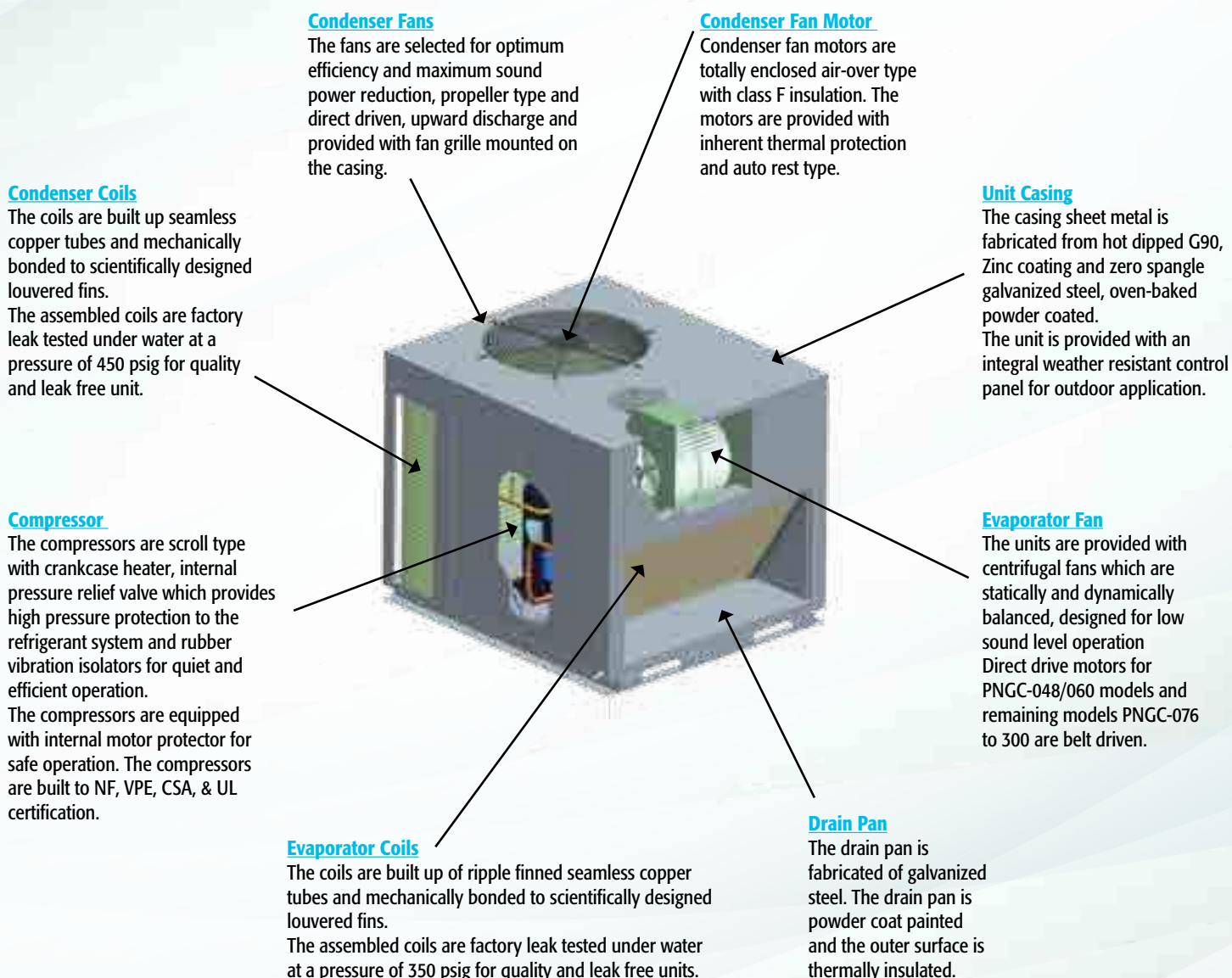
Electrical Panel

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

STANDARD SPECIFICATIONS

General

- The Package New Generation unit is a factory assembled cooling or combination of cooling and heating, 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.
- The units are rated and tested in accordance with AHRI 210/240 & AHRI 340/360 standard.



OPTIONAL SPECIFICATIONS

Construction

- Pump down solenoid valve (pds)
- Hot gas bypass valve
- Condenser coil guard
- Adjustable high pressure switch
- Adjustable low pressure switch
- Muffler
- Replaceable filter drier with mechanical shut-off valve
- Coil coat, tinned copper fins
- Filter and filter box
- Double side drain connections
- Stainless steel drain pan
- Lockable door for the control panel
- Mixing box

Coolex App



Wi Fi Module



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
- Modbus connectivity
- Wi-Fi Thermostat

Typical Thermostat



MICROPROCESSOR BASED CONTROLLER

Microprocessor Based Controller

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

- 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 PNGC unit that meets the design requirements.

Example :

Design requirements

• Total cooling capacity	68	[MBH]
• Sensible cooling capacity	51	[MBH]
• Design ambient temperature	118.4	[°F]
• Evaporator air flow	2500	[CFM]
• Evaporator entering temperature DB/WB	80/67	[°F/°F]
• External static pressure	0.2	[in.wg]
• Altitude	2000	[ft]
• Power supply	415V / 3Ph / 50Hz	

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

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

Corrected capacity

= Required capacity
/corr. factor

Corrected total capacity

= 68 [MBH]/0.99
= 68.69 MBH

Corrected sensible capacity

= 51 [MBH]/0.99
= 51.52 MBH

From the cooling capacity at performance data tables (page 11), the closest selection model to the required capacity is PNGC-076. From the performance table:

Total capacity

= 71.2 [MBH]

Sensible capacity

= 53.9 [MBH]

GENERAL DATA

Model		PNGC-048 C2	PNGC-060 C2	PNGC-076 C2	PNGC-090 C2	PNGC-100 C2	PNGC-120 C2
Compressor	Type	Scroll Hermetic					
	Quantity	1					
	Refrigerant	R - 407C					
	Refrigerant circuits	1					
Condenser Fan	Type	Propeller					
	Diameter, mm	610			762		
	Air flow, m³/min. (CFM)	95 (3360)		102 (3605)	198 (6995)		
	Number of Fans	1					
	Motor Enclosure/Ins Class	Totally Enclosed Air Cooled, Class F					
	Nominal kW (HP)	0.37 (1/2)		0.56 (3/4)	0.75 (1)		1.12 (1.5)
	RPM	900					
Condenser Coil	Type	Enhanced Aluminum Fins & Inner Grooved Copper Tubes					
	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)		1.12 (1.5)	1.5 (2)	2.2 (3)
Evaporator Coil	Type	Hydrophilic Aluminum Fins & Inner Grooved Copper Tubes					
	Number of Rows	3R/4R					
Expansion Device	Type	Thermostatic					
Air Filter	Type	Washable Aluminum Mesh					
	Thickness [inch]	1/2		1			
Operating Weight	kg	180	196	260	277	361	385

GENERAL DATA

Model		PNGC-130 C2	PNGC-150 C2	PNGC-175 C2	PNGC-200 C2	PNGC-240 C2	PNGC-270 C2
Compressor	Type	Scroll Hermetic					
	Quantity	2					
	Refrigerant	R - 407C					
	Refrigerant circuits	2					
Condenser Fan	Type	Propeller					
	Diameter, mm	610		762			
	Air flow, m³/min. (CFM)	345 (12200)		518 (18300)			
	Number of Fans	2					
	Motor Enclosure/Ins Class	Totally Enclosed Air Cooled, Class F					
	Nominal kW (HP)	0.75 (1)		1.12 (1.5)			
	RPM	900					
Condenser Coil	Type	Enhanced Aluminum Fins & Inner Grooved Copper Tubes					
	Number of Rows	3R/4R					
Evaporator Blower	Type	Centrifugal					
	Motor Enclosure/Ins Class	Open Drip-Proof, Class B					
	Nominal kW (HP)	2.2 (3)		3.7 (5)			
Evaporator Coil	Type	Enhanced Aluminum Fins & Inner Grooved Copper Tubes					
	Number of Rows	4R					
Expansion Device	Type	Thermostatic					
Air Filter	Type	Washable Aluminum Mesh					
	Thickness [inch]	2					
Operating Weight	kg	610	635	742	755	1005	1065

GENERAL DATA

Model		PNGC-300 C2	PNGC-340 C2	PNGC-380 C2	PNGC-400 C2
Compressor	Type	Scroll Hermetic			
	Quantity	2	4		
	Refrigerant	R - 407C			
	Refrigerant circuits	2	4		
Condenser Fan	Type	Propeller			
	Diameter, mm	800			
	Air flow, m³/min. (CFM)	595 (21000)	1190 (42000)		
	Number of Fans	2	4		
	Motor Enclosure/Ins Class	Totally Enclosed Air Cooled, Class F			
	Nominal kW (HP)	1.5 (2.0)			
	RPM	900			
Condenser Coil	Type	Enhanced Aluminum Fins & Inner Grooved Copper Tubes			
	Number of Rows	3R/4R			
Evaporator Blower	Type	Centrifugal			
	Motor Enclosure/Ins Class	Open Drip-Proof, Class B			
	Nominal kW (HP)	3.7 (5)		5.5 (7.5)	
Evaporator Coil	Type	Enhanced Aluminum Fins & Inner Grooved Copper Tubes			
	Number of Rows	4R			
Expansion Device	Type	Thermostatic			
Air Filter	Type	Washable Aluminum Mesh			
	Thickness [inch]	2			
Operating Weight	kg	1225	1350	1555	1635

PERFORMANCE DATA TABLES

Model	Air Flow	Condenser Ambient Temperature [°F]													
	CFM	Air Flow		95			115			118.4			125		
		DB	WB	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input
				Total	Sen.		Total	Sen.		Total	Sen.		Total	Sen.	
PNGC-048 C2	1360	86	72	58,491	36,476	4.54	56,949	36,784	5.69	55,754	36,394	5.90	54,488	35,981	6.13
		80	67	54,374	36,556	4.41	49,406	34,328	5.34	48,369	33,965	5.55	47,271	33,580	5.76
		74	62	48,256	35,286	4.22	41,270	31,861	5.00	40,404	31,524	5.19	39,487	31,166	5.39
		68	57	42,376	33,460	4.01	29,727	28,664	4.76	29,103	28,360	4.95	28,443	28,038	5.13
	1530	86	72	59,936	37,349	4.67	58,356	37,659	5.85	57,131	37,260	6.06	55,836	36,838	6.30
		80	67	55,738	37,440	4.54	50,616	35,155	5.49	49,554	34,782	5.70	48,429	34,388	5.92
		74	62	49,450	36,147	4.33	42,270	32,626	5.15	41,383	32,281	5.34	40,444	31,915	5.55
		68	57	43,411	34,265	4.12	34,234	29,369	4.90	33,515	29,057	5.08	32,754	28,728	5.28
	1828	86	72	60,527	37,712	4.73	58,924	38,024	5.91	57,687	37,621	6.14	56,379	37,195	6.37
		80	67	56,261	37,803	4.59	51,129	35,629	5.55	50,160	35,252	5.85	48,899	34,852	5.98
		74	62	49,927	36,487	4.39	42,677	32,930	5.20	41,782	32,582	5.40	40,834	32,213	5.61
		68	57	43,831	34,594	4.17	34,555	29,612	4.96	33,829	29,298	5.14	33,061	28,966	5.34

PNGC-060 C2	1890	86	72	69,922	41,414	5.48	67,890	42,904	6.76	65,904	42,058	7.00	63,802	41,162	7.25
		80	67	65,594	43,264	5.53	60,713	42,904	6.63	58,938	42,058	6.88	57,058	41,162	7.13
		74	62	62,885	44,917	5.32	55,276	41,626	6.40	53,660	40,805	6.63	51,949	39,936	6.88
		68	57	57,891	43,481	5.22	47,843	37,422	6.21	46,444	36,683	6.43	44,962	35,902	6.67
	2000	86	72	70,255	41,828	5.52	68,216	43,307	6.79	66,222	42,453	7.04	64,109	41,550	7.29
		80	67	65,904	43,470	5.56	61,005	43,588	6.67	59,221	42,728	6.91	57,332	41,818	7.17
		74	62	63,183	45,124	5.36	55,532	41,816	6.44	53,909	40,992	6.67	52,189	40,119	6.91
		68	57	58,167	43,688	5.26	48,065	37,590	6.25	46,659	36,849	6.46	45,171	36,063	6.71
	2197	86	72	70,587	41,806	5.54	68,543	43,307	7.02	66,539	42,453	7.28	64,418	41,550	7.55
		80	67	66,217	43,677	5.60	61,304	43,307	6.71	59,640	42,453	6.95	57,600	41,550	7.21
		74	62	63,481	45,330	5.39	55,789	42,007	6.48	54,158	41,179	6.71	52,431	40,301	6.95
		68	57	58,443	43,894	5.29	48,286	37,758	6.28	46,874	37,014	6.50	45,379	36,225	6.74

PNGC-076 C2	2200	86	72	87,903	61,428	6.95	79,113	56,848	8.45	77,326	54,955	8.69	75,434	52,952	8.95
		80	67	80,106	59,604	6.87	72,088	55,169	8.35	70,460	53,332	8.60	68,736	51,389	8.86
		74	62	73,154	57,675	6.72	65,831	53,386	8.16	64,344	51,609	8.41	62,770	49,729	8.66
		68	57	66,795	55,782	6.61	60,108	51,627	8.03	58,750	49,909	8.27	57,313	48,089	8.53
	2500	86	72	88,793	62,048	7.01	79,903	57,422	8.53	78,098	55,511	8.78	76,188	53,488	9.05
		80	67	80,918	60,212	6.94	72,812	55,720	8.43	71,167	53,866	8.68	69,426	51,903	8.94
		74	62	73,890	58,261	6.79	66,499	53,915	8.26	64,997	52,121	8.49	63,407	50,221	8.75
		68	57	67,476	56,345	6.68	60,721	52,156	8.11	59,350	50,420	8.36	57,897	48,582	8.61
	2807	86	72	90,121	62,977	7.12	81,106	58,285	8.66	79,274	56,345	8.92	77,335	54,291	9.19
		80	67	82,131	61,107	7.04	77,130	56,560	8.55	75,480	54,677	8.80	70,467	52,685	9.07
		74	62	74,999	59,133	6.90	67,489	54,732	8.37	65,966	52,910	8.62	64,352	50,981	8.88
		68	57	68,487	57,194	6.78	61,634	52,938	8.24	60,241	51,176	8.48	58,768	49,311	8.74

See Note on pg. 16

PERFORMANCE DATA TABLES

Model	Air Flow	Condenser Ambient Temperature [°F]													
	CFM	Air Flow		95			115			118.4			125		
		DB	WB	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input
				Total	Sen.		Total	Sen.		Total	Sen.		Total	Sen.	
PNGC-090 C2	2600	86	72	105,609	77,926	9.08	100,213	74,553	10.80	92,298	70,033	11.10	89,174	68,435	11.35
		80	67	93,752	69,177	8.06	88,961	66,182	9.59	81,935	62,170	9.85	79,162	60,752	10.07
		74	62	85,463	63,060	7.35	81,096	60,331	8.74	74,691	56,673	8.98	72,163	55,380	9.18
		68	57	76,527	56,467	6.58	72,617	54,023	7.83	66,881	50,748	8.04	64,618	49,590	8.22
	2900	86	72	106,678	78,714	9.17	101,227	75,307	10.91	93,231	70,742	11.21	90,077	69,128	11.46
		80	67	94,698	69,875	8.14	89,859	66,850	9.69	82,762	62,798	9.95	79,961	61,365	10.17
		74	62	86,324	63,695	7.42	81,913	60,938	8.83	75,443	57,244	9.07	72,890	55,938	9.28
		68	57	77,305	57,041	6.65	73,355	54,572	7.91	67,561	51,263	8.12	65,275	50,094	8.31
	3227	86	72	108,275	79,893	9.31	102,742	76,435	11.08	94,627	71,801	11.38	91,425	70,163	11.63
		80	67	96,115	70,920	8.27	91,203	67,850	9.83	86,700	63,737	10.09	81,158	62,283	10.33
		74	62	87,618	64,651	7.54	83,141	61,852	8.96	76,574	58,103	9.21	73,983	56,777	9.41
		68	57	78,459	57,893	6.75	74,450	55,387	8.03	68,570	52,029	8.24	66,250	50,842	8.43

PNGC-100 C2	2800	86	72	119,845	80,560	9.50	111,199	76,757	11.64	107,335	75,176	11.95	103,243	73,502	12.29
		80	67	103,708	74,555	9.03	96,221	71,033	11.06	92,877	69,570	11.36	89,337	68,022	11.69
		74	62	94,369	72,615	8.69	87,560	69,193	10.64	84,517	67,768	10.94	81,296	66,259	11.24
		68	57	82,833	70,122	8.28	76,855	66,813	10.16	74,184	65,437	10.43	71,356	63,980	10.72
	3200	86	72	121,058	81,371	9.61	112,325	77,533	11.75	108,421	75,936	12.08	104,289	74,245	12.41
		80	67	104,750	75,304	9.12	97,197	71,747	11.17	93,819	70,269	11.47	90,243	68,705	11.80
		74	62	95,321	73,352	8.78	88,445	69,894	10.75	85,371	68,454	11.05	82,117	66,930	11.36
		68	57	83,671	70,834	8.37	77,636	67,489	10.26	74,938	66,100	10.54	72,081	64,628	10.84
	3597	86	72	122,872	82,599	9.73	114,001	78,697	11.94	110,040	77,077	12.26	105,846	75,361	12.60
		80	67	106,315	76,434	9.26	102,600	72,824	11.34	99,600	71,324	11.65	91,597	69,737	11.98
		74	62	96,749	74,457	8.91	89,765	70,933	10.92	86,647	69,472	11.21	83,343	67,926	11.54
		68	57	84,918	71,890	8.49	78,796	68,503	10.41	76,058	67,093	10.70	73,159	65,598	11.00

PNGC-120 C2	3200	86	72	133,932	87,051	11.19	126,139	83,861	13.54	123,950	82,773	13.95	119,756	80,885	14.36
		80	67	120,322	80,270	10.52	113,321	77,328	12.74	111,354	76,324	13.11	107,586	74,583	13.51
		74	62	106,054	72,669	9.74	99,884	70,007	11.80	98,151	69,098	12.15	94,830	67,522	12.51
		68	57	92,160	64,927	9.38	86,797	62,549	11.14	85,290	61,737	11.36	82,404	60,329	11.81
	3700	86	72	135,707	88,464	11.49	127,811	85,223	13.92	125,594	84,117	14.33	121,344	82,198	14.76
		80	67	121,920	81,858	10.60	114,826	78,859	12.84	112,833	77,835	13.22	109,015	76,059	13.61
		74	62	107,455	74,177	9.92	101,202	71,460	12.01	99,446	70,533	12.36	96,081	68,924	12.73
		68	57	93,384	66,020	9.32	87,950	63,602	11.24	86,423	62,776	11.56	83,499	61,344	11.93
	4189	86	72	137,609	90,208	11.64	129,603	86,903	14.10	127,355	85,775	14.51	123,045	83,818	14.95
		80	67	123,638	83,386	10.74	116,466	80,354	13.01	114,720	79,317	13.39	110,597	77,508	13.79
		74	62	108,956	75,463	10.05	102,616	72,699	12.16	100,835	71,756	12.52	97,423	70,119	12.90
		68	57	94,696	67,439	9.44	89,185	64,969	11.39	87,637	64,126	11.71	84,671	62,663	12.08

See Note on pg. 16

PERFORMANCE DATA TABLES

Model	Air Flow	Condenser Ambient Temperature [°F]													
	CFM	Air Flow		95			115			118.4			125		
		DB	WB	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input
				Total	Sen.		Total	Sen.		Total	Sen.		Total	Sen.	
PNGC-130 C2	4000	86	72	150,641	102,369	11.26	143,708	93,612	12.82	139,260	93,467	14.94	127,877	87,292	15.81
		80	67	138,712	99,872	11.19	132,328	91,329	12.75	128,232	91,187	14.85	117,750	85,163	15.72
		74	62	127,199	96,976	11.12	121,345	88,681	12.67	117,589	88,542	14.76	107,977	82,693	15.62
		68	57	116,518	90,866	11.01	111,155	83,094	12.54	107,715	82,964	14.61	98,910	77,484	15.47
	4300	86	72	152,186	102,789	11.37	145,182	93,996	12.95	140,688	93,850	15.09	129,188	87,650	15.97
		80	67	140,134	100,282	11.31	133,685	91,704	12.88	129,547	91,561	15.00	118,958	85,512	15.88
		74	62	128,503	97,374	11.24	122,589	89,044	12.80	118,795	88,906	14.91	109,084	83,033	15.78
		68	57	117,713	91,239	11.13	112,295	83,435	12.67	108,820	83,305	14.76	99,925	77,802	15.62
	4467	86	72	154,503	104,994	11.55	147,393	96,013	13.15	142,831	95,863	15.32	131,156	89,530	16.22
		80	67	142,268	102,433	11.48	135,721	93,671	13.07	131,520	93,525	15.23	120,770	87,347	16.12
		74	62	130,460	99,462	11.41	124,456	90,954	12.99	120,604	90,813	15.14	110,746	84,814	16.02
		68	57	119,505	93,196	11.29	114,005	85,224	12.86	110,477	85,092	14.99	101,446	79,470	15.86

PNGC-150 C2	4200	86	72	164,258	116,850	12.28	156,698	106,855	13.84	150,314	105,611	16.13	139,436	99,641	17.24
		80	67	151,250	114,000	12.20	144,289	104,249	13.76	138,411	103,035	16.03	128,394	97,211	17.14
		74	62	138,697	110,694	12.13	132,313	101,226	13.68	126,923	100,047	15.93	117,737	94,391	17.04
		68	57	127,050	103,720	12.01	121,203	94,848	13.54	116,265	93,744	15.77	107,851	88,445	16.87
	4600	86	72	165,943	117,330	12.40	158,305	107,293	13.98	151,856	106,044	16.29	140,866	100,050	17.42
		80	67	152,802	114,468	12.33	145,769	104,677	13.90	139,831	103,458	16.19	129,711	97,609	17.31
		74	62	140,119	111,148	12.25	133,670	101,641	13.82	128,225	100,458	16.10	118,945	94,779	17.21
		68	57	128,353	104,146	12.13	122,446	95,238	13.68	117,458	94,129	15.94	108,957	88,808	17.04
	5148	86	72	168,470	119,846	12.59	160,716	109,595	14.20	154,169	108,319	16.54	143,011	102,196	17.68
		80	67	155,128	116,923	12.52	147,989	106,922	14.11	141,960	105,677	16.44	131,686	99,703	17.58
		74	62	142,253	113,533	12.44	135,706	103,821	14.03	130,177	102,612	16.34	120,756	96,812	17.47
		68	57	130,308	106,380	12.32	124,311	97,280	13.89	119,246	96,148	16.18	110,617	90,713	17.30

PNGC-175 C2	5100	86	72	188,077	131,343	15.10	179,421	120,108	17.02	170,390	117,523	19.64	159,656	111,999	21.21
		80	67	173,183	128,139	15.01	165,213	117,179	16.92	156,897	114,656	19.52	147,012	109,267	21.08
		74	62	158,809	124,423	14.92	151,500	113,780	16.82	143,875	111,331	19.40	134,810	106,099	20.95
		68	57	145,474	116,585	14.77	138,779	106,612	16.65	131,793	104,317	19.21	123,490	99,414	20.75
	5700	86	72	190,006	131,882	15.26	181,261	120,601	17.20	172,138	118,005	19.84	161,293	112,458	21.43
		80	67	174,959	128,665	15.16	166,907	117,659	17.10	158,506	115,126	19.72	148,520	109,716	21.30
		74	62	160,438	124,934	15.07	153,054	114,247	16.99	145,350	111,788	19.60	136,193	106,534	21.17
		68	57	146,966	117,063	14.92	140,202	107,050	16.82	133,145	104,745	19.41	124,757	99,822	20.96
	6381	86	72	192,899	134,711	15.49	184,021	123,188	17.46	174,759	120,536	20.14	163,749	114,871	21.75
		80	67	177,623	131,425	15.40	169,449	120,183	17.36	160,920	117,596	20.02	150,782	112,069	21.62
		74	62	162,881	127,614	15.30	155,385	116,698	17.25	147,564	114,186	19.90	138,267	108,819	21.49
		68	57	149,204	119,574	15.15	142,337	109,346	17.08	135,173	106,992	19.70	126,657	101,963	21.28

See Note on pg. 16

PERFORMANCE DATA TABLES

Model	Air Flow	Condenser Ambient Temperature [°F]													
	CFM	Air Flow		95			115			118.4			125		
		DB	WB	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input
				Total	Sen.		Total	Sen.		Total	Sen.		Total	Sen.	
PNGC-200 C2	6000	86	72	221,963	139,374	17.11	204,307	127,453	19.30	194,024	124,709	22.26	181,800	118,848	24.04
		80	67	204,386	135,975	17.01	188,128	124,344	19.18	178,659	121,667	22.12	167,403	115,949	23.89
		74	62	187,422	132,032	16.91	172,513	120,738	19.07	163,830	118,139	21.99	153,509	112,586	23.75
		68	57	171,684	123,714	16.74	158,027	113,132	18.87	150,074	110,696	21.77	140,619	105,493	23.51
	6500	86	72	224,240	139,946	17.29	206,402	127,975	19.49	196,014	125,221	22.48	183,665	119,335	24.28
		80	67	206,482	136,533	17.19	190,057	124,854	19.38	180,491	122,166	22.35	169,120	116,425	24.14
		74	62	189,344	132,574	17.08	174,283	121,233	19.26	165,511	118,624	22.22	155,083	113,048	23.99
		68	57	173,445	124,221	16.91	159,648	113,596	19.07	151,613	111,150	21.99	142,061	105,926	23.75
	7015	86	72	227,654	142,948	17.55	209,546	130,721	19.79	198,999	127,907	22.83	186,462	121,895	24.65
		80	67	209,627	139,462	17.45	192,952	127,532	19.67	183,240	124,787	22.69	171,696	118,922	24.51
		74	62	192,228	135,417	17.34	176,937	123,834	19.55	168,031	121,168	22.55	157,445	115,473	24.36
		68	57	176,086	126,886	17.17	162,079	116,032	19.36	153,922	113,535	22.33	144,225	108,198	24.11

PNGC-240 C2	7000	86	72	256,677	184,602	20.75	244,837	186,717	23.40	211,431	163,037	24.55	199,802	156,521	26.91
		80	67	236,351	180,100	20.62	225,449	182,163	23.26	194,688	159,060	24.40	183,980	152,704	26.75
		74	62	216,734	174,877	20.50	206,736	176,880	23.12	178,529	154,447	24.26	168,710	148,275	26.59
		68	57	198,535	163,860	20.29	189,377	165,736	22.89	163,538	144,717	24.02	154,543	138,934	26.32
	7500	86	72	259,310	186,495	20.96	247,348	188,632	23.64	213,600	164,709	24.80	201,852	158,126	27.18
		80	67	238,775	181,947	20.83	227,761	184,031	23.50	196,685	160,691	24.65	185,867	154,270	27.02
		74	62	218,957	176,670	20.71	208,857	178,694	23.35	180,360	156,031	24.51	170,440	149,796	26.86
		68	57	200,571	165,540	20.50	191,319	167,436	23.12	165,215	146,201	24.26	156,128	140,359	26.59
	7998	86	72	263,259	189,336	21.28	251,115	191,504	24.00	216,852	167,217	25.18	204,926	160,534	27.60
		80	67	242,412	184,718	21.15	231,229	186,833	23.85	199,680	163,139	25.03	188,698	156,619	27.43
		74	62	222,291	179,361	21.02	212,037	181,415	23.71	183,107	158,408	24.88	173,036	152,077	27.27
		68	57	203,626	168,061	20.81	194,233	169,986	23.47	167,731	148,428	24.63	158,506	142,496	27.00

PNGC-270 C2	8000	86	72	295,669	199,746	20.82	272,150	182,660	23.47	254,632	176,087	26.67	242,169	170,328	29.23
		80	67	272,255	194,874	20.69	250,598	178,205	23.33	234,468	171,792	26.51	222,992	166,174	29.06
		74	62	249,658	189,223	20.57	229,799	173,037	23.19	215,007	166,810	26.35	204,484	161,355	28.89
		68	57	228,694	177,302	20.36	210,503	162,136	22.96	196,953	156,301	26.09	187,313	151,189	28.60
	8300	86	72	298,701	200,566	21.03	274,941	183,410	23.71	257,244	176,809	26.94	244,653	171,027	29.53
		80	67	275,047	195,674	20.90	253,168	178,936	23.57	236,873	172,497	26.78	225,279	166,855	29.36
		74	62	252,218	189,999	20.78	232,155	173,747	23.43	217,212	167,494	26.62	206,581	162,017	29.18
		68	57	231,040	178,029	20.57	212,662	162,801	23.19	198,973	156,942	26.36	189,234	151,810	28.89
	8583	86	72	303,250	204,868	21.93	279,128	187,344	24.07	261,161	180,602	27.35	248,379	174,695	29.98
		80	67	279,236	199,871	21.80	257,024	182,774	23.93	240,480	176,197	27.19	228,710	170,434	29.81
		74	62	256,059	194,075	21.67	235,691	177,474	23.78	220,520	171,087	27.03	209,727	165,492	29.63
		68	57	234,558	181,848	21.45	215,900	166,293	23.55	202,003	160,309	26.76	192,116	155,066	29.33

See Note on pg. 16

PERFORMANCE DATA TABLES

Model	Air Flow	Condenser Ambient Temperature [°F]													
	CFM	Air Flow		95			115			118.4			125		
		DB	WB	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input
				Total	Sen.		Total	Sen.		Total	Sen.		Total	Sen.	
PNGC-300 C2	8800	86	72	332,491	218,330	25.06	300,785	199,655	26.83	280,045	191,526	30.34	267,650	186,175	33.42
		80	67	306,162	213,005	24.92	276,966	194,785	26.67	257,868	186,855	30.16	246,455	181,634	33.22
		74	62	280,750	206,828	24.77	253,978	189,136	26.51	236,465	181,436	29.98	225,999	176,367	33.02
		68	57	257,176	193,798	24.52	232,651	177,221	26.24	216,609	170,006	29.68	207,022	165,256	32.69
	9000	86	72	335,902	219,226	25.32	303,870	200,474	27.10	282,917	192,312	30.65	270,395	186,939	33.76
		80	67	309,302	213,879	25.17	279,806	195,584	26.94	260,513	187,621	30.47	248,983	182,379	33.56
		74	62	283,630	207,676	25.02	256,582	189,912	26.78	238,890	182,180	30.28	228,317	177,090	33.36
		68	57	259,813	194,593	24.77	235,037	177,948	26.51	218,831	170,703	29.98	209,145	165,934	33.03
	9162	86	72	341,017	223,928	25.71	308,497	204,774	27.52	287,225	196,437	31.12	274,513	190,949	34.28
		80	67	314,012	218,467	25.55	284,067	199,779	27.35	264,480	191,646	30.93	252,774	186,291	34.07
		74	62	287,949	212,131	25.40	260,490	193,986	27.19	242,528	186,088	30.74	231,794	180,889	33.87
		68	57	263,770	198,767	25.15	238,617	181,765	26.92	222,163	174,365	30.44	212,330	169,493	33.53

PNGC-340 C2	9200	86	72	386,828	278,206	29.32	379,616	289,501	33.07	327,820	252,785	34.70	309,790	242,683	38.03
		80	67	356,195	271,420	29.15	349,554	282,440	32.87	301,860	246,620	34.50	285,258	236,764	37.81
		74	62	326,631	263,549	28.97	320,541	274,249	32.68	276,806	239,468	34.29	261,581	229,898	37.58
		68	57	299,204	246,946	28.68	293,625	256,971	32.35	253,562	224,381	33.95	239,616	215,414	37.20
	9600	86	72	392,451	282,250	29.73	383,509	292,470	33.41	331,182	255,378	35.06	312,967	245,172	38.42
		80	67	361,373	275,366	29.55	353,139	285,336	33.21	304,956	249,149	34.85	288,183	239,192	38.19
		74	62	331,379	267,381	29.37	323,829	277,062	33.01	279,645	241,924	34.64	264,264	232,256	37.97
		68	57	303,553	250,536	29.08	296,637	259,607	32.68	256,163	226,683	34.29	242,074	217,624	37.59
	9943	86	72	395,065	284,130	30.08	389,349	296,924	33.92	336,226	259,267	35.59	317,733	248,906	39.01
		80	67	363,780	277,200	29.90	358,517	289,682	33.72	309,600	252,943	35.38	292,572	242,835	38.78
		74	62	333,586	269,162	29.72	328,760	281,281	33.51	283,903	245,608	35.17	268,289	235,793	38.54
		68	57	305,575	252,204	29.42	301,154	263,560	33.18	260,064	230,135	34.82	245,760	220,938	38.16

PNGC-380 C2	10000	86	72	402,427	282,107	33.26	361,823	268,134	39.21	356,130	266,019	40.45	342,478	260,972	42.75
		80	67	370,559	275,226	33.07	333,170	261,594	38.98	327,929	259,530	40.21	315,357	254,607	42.49
		74	62	339,803	267,245	32.87	305,517	254,008	38.74	300,711	252,004	39.97	289,182	247,223	42.24
		68	57	311,270	250,408	32.54	279,863	238,005	38.35	275,460	236,128	39.57	264,900	231,648	41.82
	10800	86	72	406,555	283,264	33.61	365,534	269,234	39.61	359,783	267,110	40.87	345,990	262,043	43.19
		80	67	374,360	276,355	33.41	336,588	262,667	39.38	331,292	260,595	40.62	318,591	255,652	42.93
		74	62	343,288	268,341	33.21	308,651	255,050	39.14	303,795	253,038	40.38	292,148	248,238	42.67
		68	57	314,462	251,435	32.87	282,734	238,982	38.75	278,285	237,096	39.97	267,617	232,599	42.24
	11500	86	72	412,746	289,340	34.12	371,101	275,009	40.22	365,262	272,840	41.49	351,259	267,664	43.84
		80	67	380,061	282,283	33.91	341,713	268,301	39.98	336,337	266,185	41.24	323,443	261,135	43.58
		74	62	348,516	274,097	33.71	313,351	260,521	39.74	308,421	258,466	40.99	296,597	253,562	43.32
		68	57	319,251	256,829	33.37	287,039	244,108	39.34	282,523	242,182	40.58	271,692	237,588	42.89

See Note on pg. 16

PERFORMANCE DATA TABLES

Model	Air Flow CFM	Condenser Ambient Temperature [°F]													
		Air Flow		95			115			118.4			125		
		DB	WB	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input	Capacity Btu/Hr		kw Input
				Total	Sen.		Total	Sen.		Total	Sen.		Total	Sen.	
PNGC-400 C2	11000	86	72	426,183	301,906	35.78	386,574	286,953	42.18	380,492	284,689	43.51	365,906	279,288	45.98
		80	67	392,434	294,543	35.57	355,962	279,954	41.93	350,361	277,745	43.25	336,930	272,476	45.71
		74	62	359,862	286,001	35.35	326,417	271,835	41.67	321,281	269,691	42.99	308,965	264,575	45.43
		68	57	329,644	267,983	35.00	299,008	254,709	41.26	294,304	252,700	42.56	283,021	247,906	44.98
	11800	86	72	430,554	303,145	36.15	390,539	288,130	42.61	384,395	285,857	43.96	369,659	280,434	46.45
		80	67	396,459	295,751	35.93	359,613	281,102	42.36	353,955	278,885	43.69	340,385	273,594	46.18
		74	62	363,552	287,174	35.72	329,765	272,950	42.10	324,577	270,797	43.43	312,133	265,660	45.90
		68	57	333,025	269,082	35.36	302,075	255,754	41.68	297,322	253,737	43.00	285,924	248,923	45.44
	12500	86	72	437,111	309,647	36.70	396,487	294,310	43.26	390,249	291,989	44.63	375,288	286,450	47.16
		80	67	402,496	302,095	36.48	365,089	287,132	43.00	359,345	284,867	44.36	345,569	279,463	46.88
		74	62	369,089	293,334	36.26	334,787	278,805	42.74	329,519	276,606	44.09	316,887	271,359	46.60
		68	57	338,097	274,854	35.90	306,675	261,240	42.31	301,850	259,180	43.65	290,278	254,263	46.13

LEGEND:

CFM : Air flow rate (Ft³/minute)
 DB : Dry bulb temperature (°F)
 WB : Wet bulb temperature (°F)
 KW : Total Power Input (Kilowatts)

Note:

1. Cooling capacities are based on 80°F DBT & 67°F WBT Evaporator Air Entering Temperature and 118.4°F Condenser Air Entering Temperature.
2. Direct interpolation is permissible – Do not extrapolate.
3. Capacity in KW = (Btu/Hr/12000)*3.517. Cooling capacities are gross rating.

UNIT ELECTRICAL DATA

Model	Power Supply	VOLTAGE RANGE		FM	Compressor-1		Compressor-2		Blower Motor		MCA	MOCP
	(V-PH-Hz)	MIN.	MAX.	FLA	RLA	LRA	HP	FLA	HP	FLA		
PNGC-048	415-3-50	374	457	1.3	8.3	61.8	-	-	0.75	2.5	14.2	20
PNGC-060	415-3-50	374	457	1.3	10	65.5	-	-	1	3.3	17.1	25
PNGC-076	415-3-50	374	457	1.6	12.1	101	-	-	1	2.4	19.1	30
PNGC-090	415-3-50	374	457	2.4	16.4	95	-	-	1.5	2.9	25.8	40
PNGC-100	415-3-50	374	457	2.4	17.3	111	-	-	2	4.3	28.3	45
PNGC-120	415-3-50	374	457	3(2ea)	19.2	118	-	-	3	4.6	34.6	50
PNGC-130	415-3-50	374	457	3.2(2ea)	10	74	10	74	3	4.6	33.5	40
PNGC-150	415-3-50	374	457	3.2(2ea)	12.1	101	12.1	101	3	4.6	38.2	50
PNGC-175	415-3-50	374	457	3(2ea)	16.4	95	16.4	95	5	7.2	50.1	60
PNGC-200	415-3-50	374	457	3(2ea)	17.3	111	17.3	111	5	7.2	52.1	60
PNGC-240	415-3-50	374	457	3(2ea)	17.3	111	19.2	118	5	7.2	54.5	70
PNGC-270	415-3-50	374	457	3(2ea)	19.2	118	22.1	118	5	7.2	60.0	80
PNGC-300	415-3-50	374	457	3.8(2ea)	22.1	118	22.9	118	5	7.2	65.5	80
PNGC-340	415-3-50	374	457	3(4ea)	12.1(3ea)	101	16.4	95	5	7.2	79.2	90
PNGC-380	415-3-50	374	457	3(4ea)	16.4(2ea)	95	17.3(2ea)	111	7.5	10.7	97.6	110
PNGC-400	415-3-50	374	457	3(4ea)	17.3(2ea)	111	17.3(2ea)	111	7.5	10.7	99.4	110

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
PNGC-048	1360	1321	1283	1247	-	-
	1530	1445	1355	1267	1173	-
	1828	1603	1481	1395	1295	1210
PNGC-060	1890	1782	1449	1330	-	-
	2000	1880	1761	1643	1515	-
	2197	1907	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
PNGC-076	2200	770	0.55	810	0.60	848	0.64	886	0.70	923	0.75	-	-	-	-	-	-	-	-	-	-
	2500	780	0.67	818	0.72	854	0.78	889	0.83	923	0.88	-	-	-	-	-	-	-	-	-	-
	2807	793	0.80	829	0.86	863	0.91	897	0.98	930	1.03	-	-	-	-	-	-	-	-	-	-
PNGC-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
	2900	798	0.84	833	0.91	868	0.97	901	1.03	933	1.10	965	1.15	996	1.22	1027	1.29	1057	1.34	1086	1.41
	3227	815	1.00	849	1.07	882	1.14	914	1.21	945	1.27	976	1.34	1006	1.41	1035	1.47	1064	1.55	1092	1.62
PNGC-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
	3200	815	1.00	849	1.07	882	1.14	914	1.21	945	1.27	976	1.34	1006	1.41	1035	1.47	1064	1.55	1092	1.62
	3597	841	1.26	873	1.34	905	1.41	935	1.49	965	1.55	994	1.64	1023	1.72	1051	1.78	1078	1.86	1105	1.94

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
PNGC-120	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	-	-	-	-
	4189	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
PNGC-130	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
	4300	728	1.39	756	1.47	808	1.65	859	1.84	907	2.02	954	2.22	1000	2.44	1045	2.65	1089	2.87	1132	3.10
	4467	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
PNGC-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
	5148	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
PNGC-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
	6381	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. 19

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
PNGC-200	6000	889	2.42	919	2.54	977	2.78	1032	3.02	1086	3.26	1139	3.50	1189	3.76	1238	4.00	1286	4.24	1332	4.50
	6500	925	2.32	939	2.94	993	3.20	1047	3.48	1099	3.74	1149	4.00	1198	4.26	1246	4.54	1292	4.80	1338	5.06
	7015	944	3.32	961	3.42	1013	3.70	1064	4.00	1114	4.26	1162	4.52	1210	4.82	1256	5.12	1301	5.40	1345	5.68
PNGC-240	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
	7500	898	3.04	929	3.18	987	3.50	1042	3.80	1095	4.10	1146	4.40	1195	4.76	1243	5.02	1290	5.34	1336	5.66
	7998	914	3.44	943	3.60	1001	3.92	1055	4.24	1107	4.58	1156	4.90	1204	5.22	1251	5.56	1297	5.88	1342	6.22
PNGC-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
	8300	712	2.82	740	3.00	793	3.36	844	3.76	893	4.14	941	4.56	988	4.98	1033	5.40	1078	5.84	1121	6.30
	8583	719	3.10	969	3.30	797	3.68	847	4.06	895	4.48	942	4.90	987	5.32	1031	5.76	1075	6.22	1117	6.68

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
PNGC-300	8800	746	3.30	772	3.48	797	3.68	847	4.06	895	4.48	942	4.90	987	5.32	1031	5.76	1075	6.22	1117	6.68
	9000	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
	9162	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
PNGC-340	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
	9600	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
	9943	762	4.10	787	4.32	812	4.46	859	4.94	904	5.38	948	5.82	991	6.28	1033	6.74	1074	7.22	1114	7.72
PNGC-380	10000	762	4.10	787	4.32	812	4.46	859	4.94	904	5.38	948	5.82	991	6.28	1033	6.74	1074	7.22	1114	7.72
	10800	776	4.74	800	4.96	823	5.18	869	5.62	913	6.08	957	6.54	997	7.02	1038	7.50	1077	8.00	1115	8.50
	11500	789	5.38	812	5.60	835	5.82	880	6.28	923	6.76	964	7.24	1005	7.72	1044	8.22	1082	8.74	1120	9.26
PNGC-400	11000	779	4.92	803	5.14	827	5.36	872	5.80	916	6.26	958	6.72	999	7.20	1039	7.70	1078	8.20	1116	8.70
	11800	795	5.66	818	5.90	840	6.12	884	6.58	927	7.06	968	7.56	1008	8.06	1047	8.56	1085	9.08	1122	9.60
	12500	808	6.28	832	6.62	844	6.32	888	6.80	930	7.28	971	7.78	1011	8.28	1049	8.78	1087	9.32	1124	9.84

LEGEND:

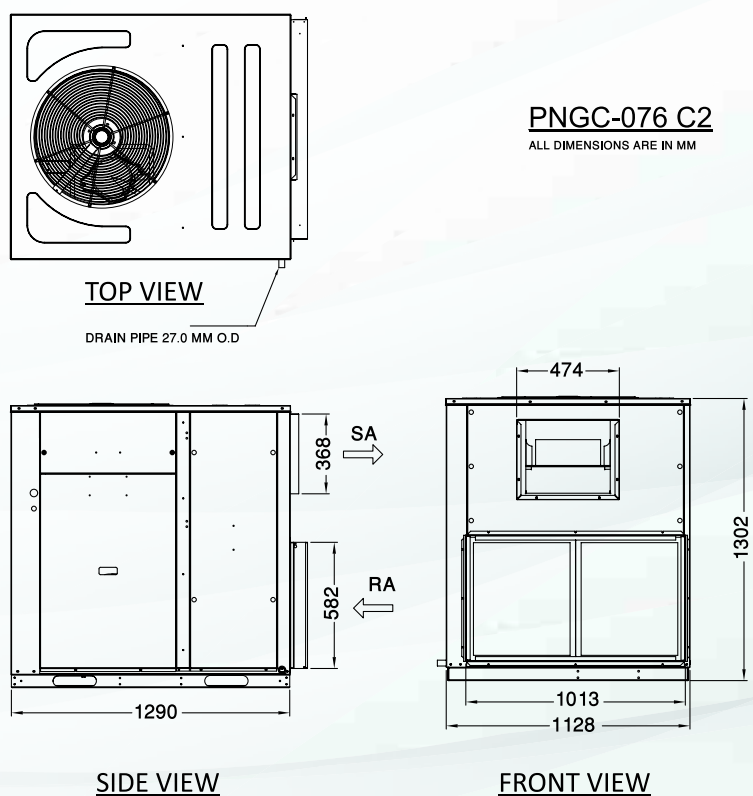
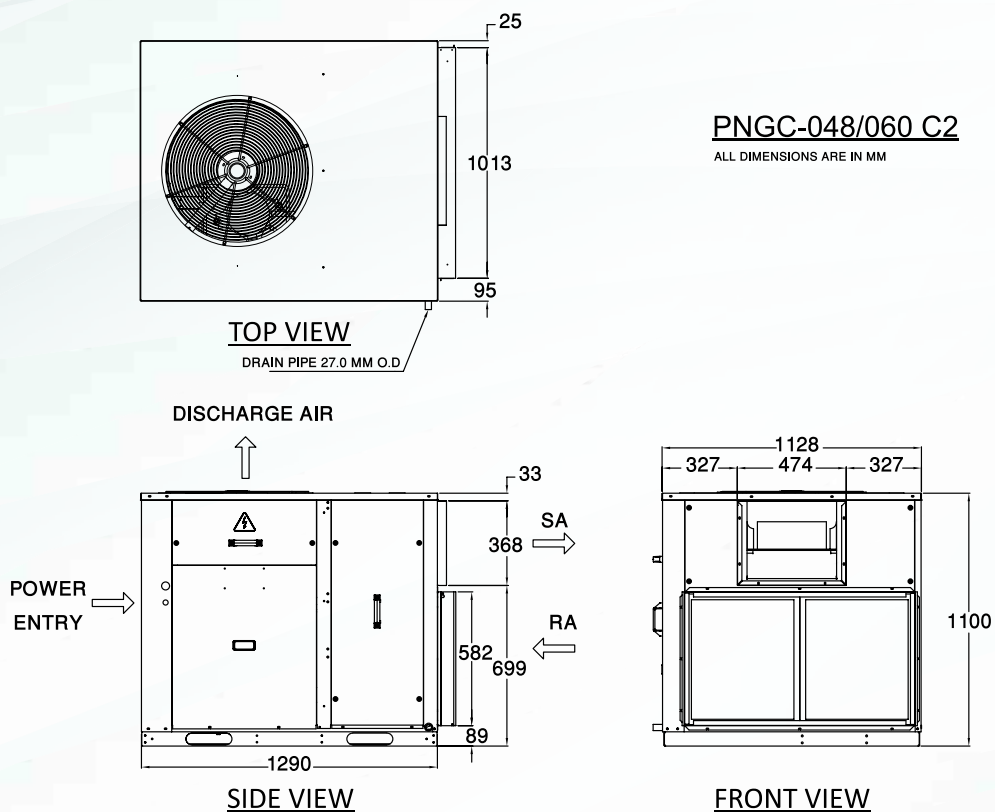
RPM : Fan Speed in revolution per minute

BHP : Fan absorbed power

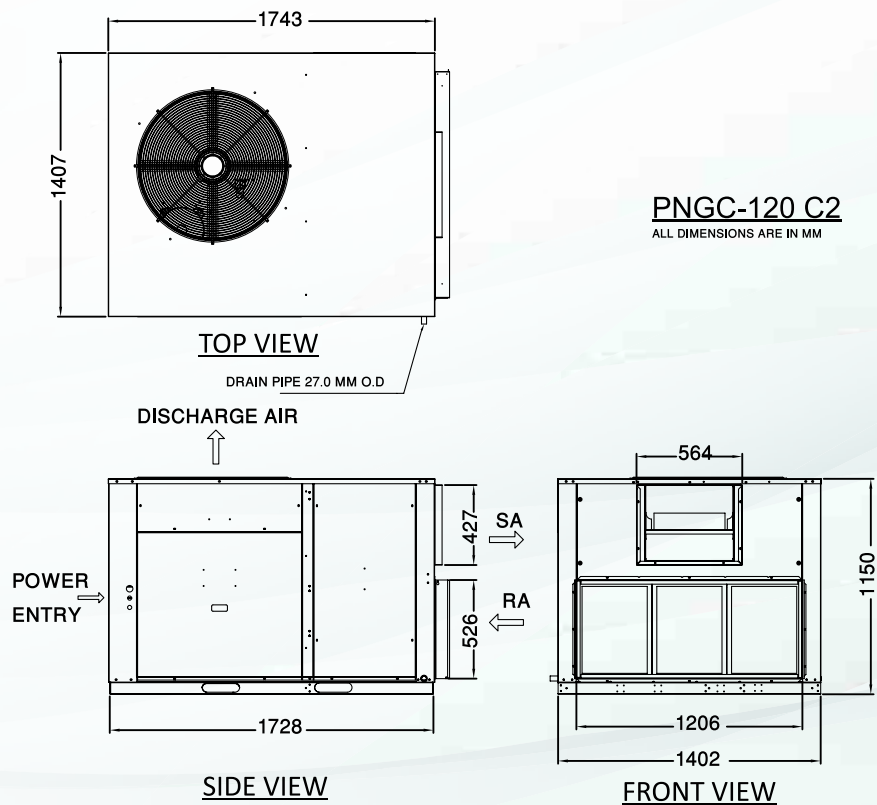
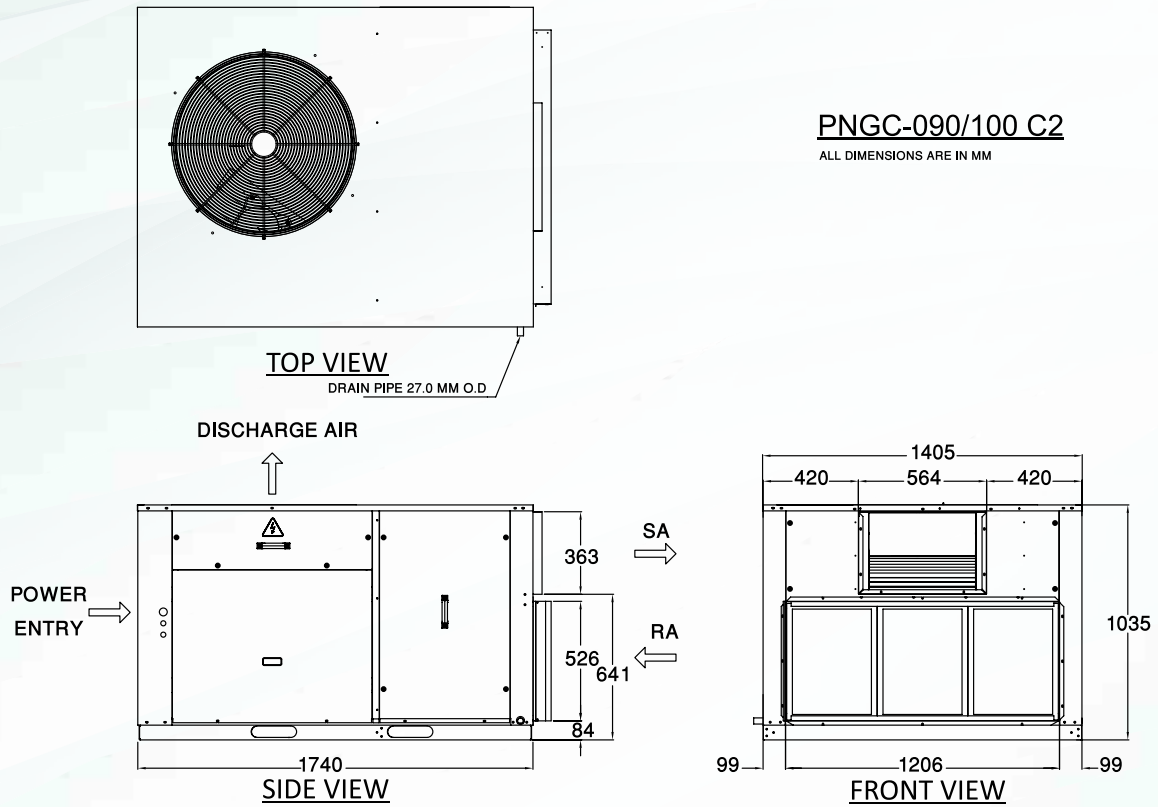
Note:

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.

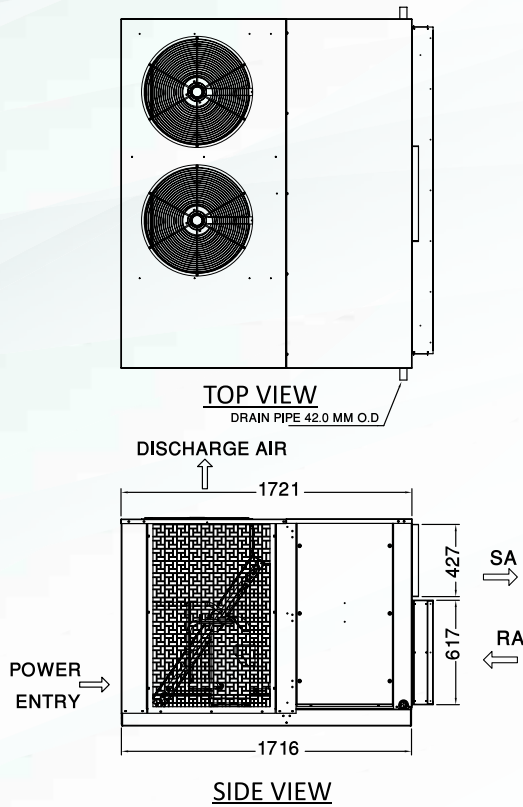
UNIT DIMENSIONS



UNIT DIMENSIONS

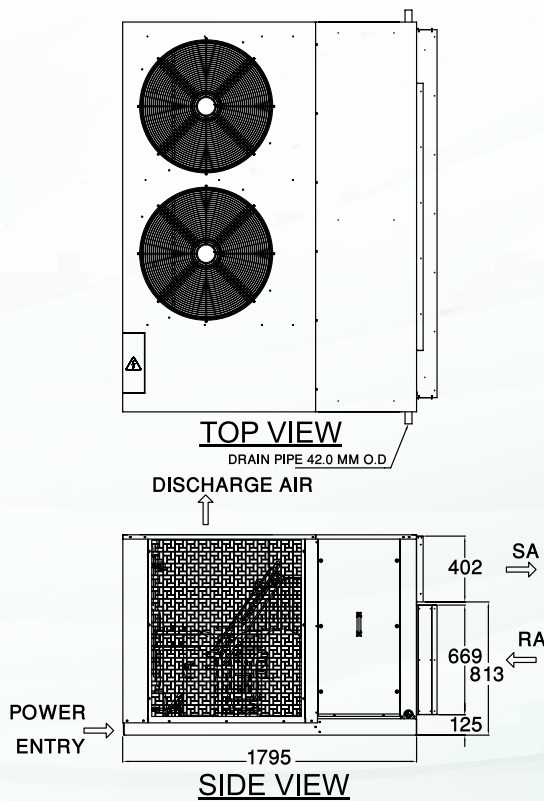
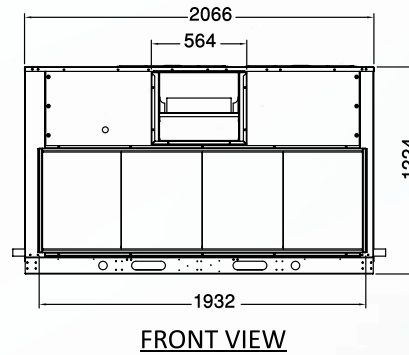


UNIT DIMENSIONS



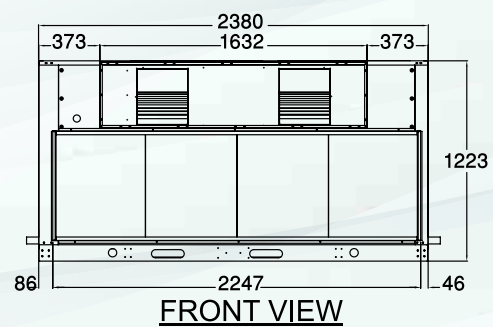
PNGC-130/150 C2

ALL DIMENSIONS ARE IN MM

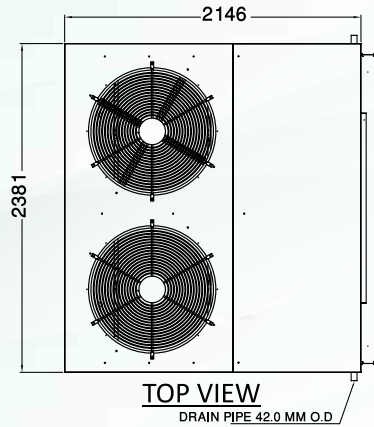


PNGC-175/200 C2

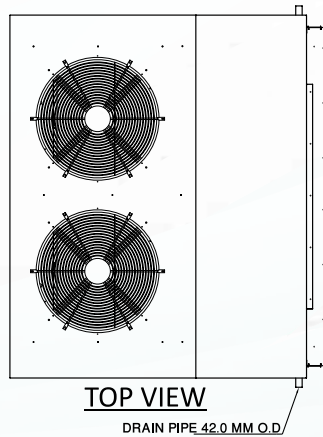
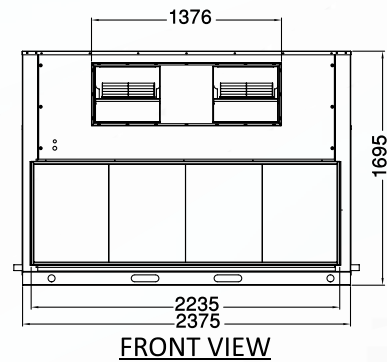
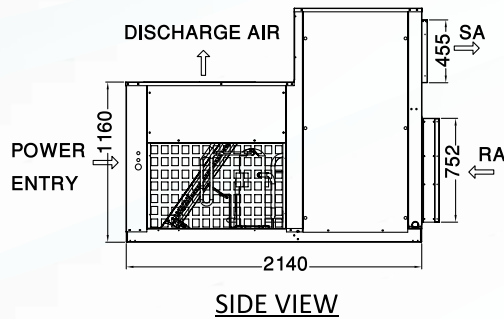
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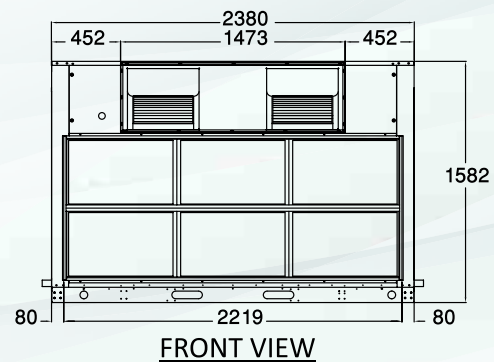
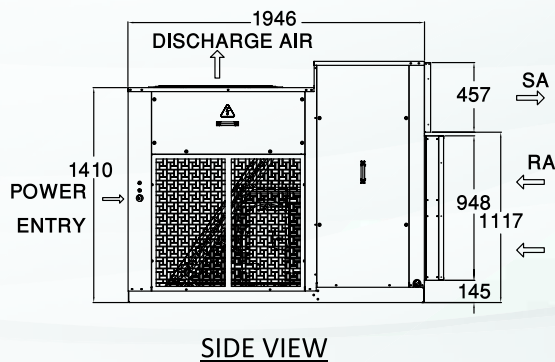
UNIT DIMENSIONS



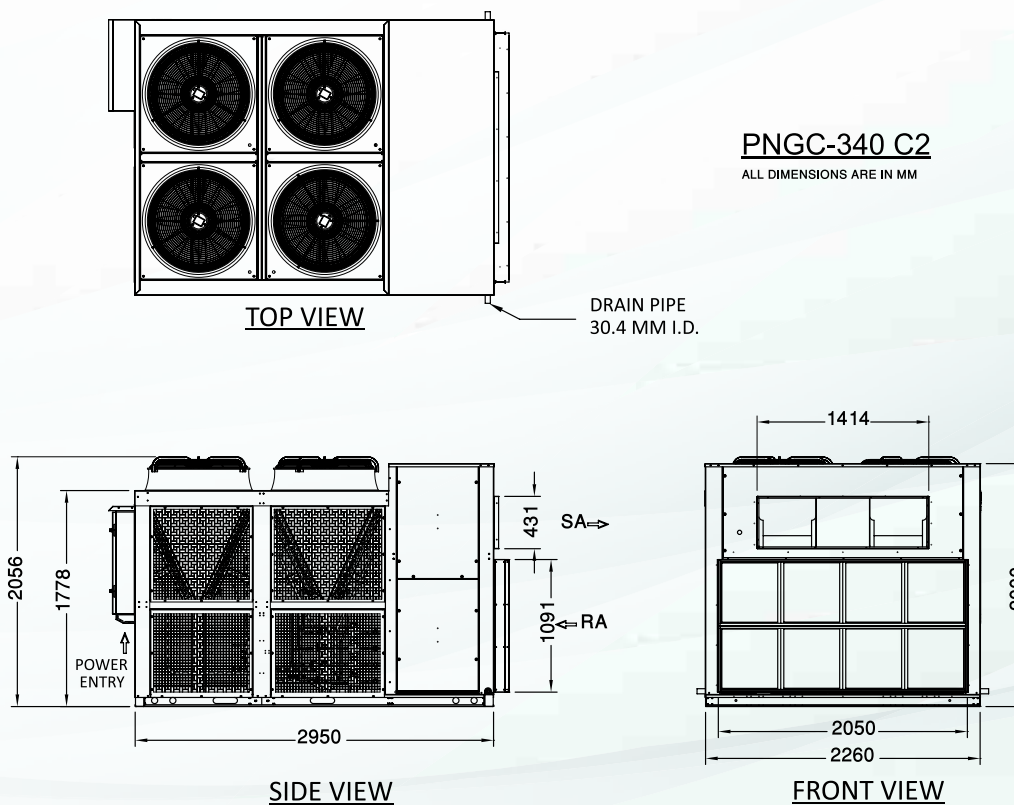
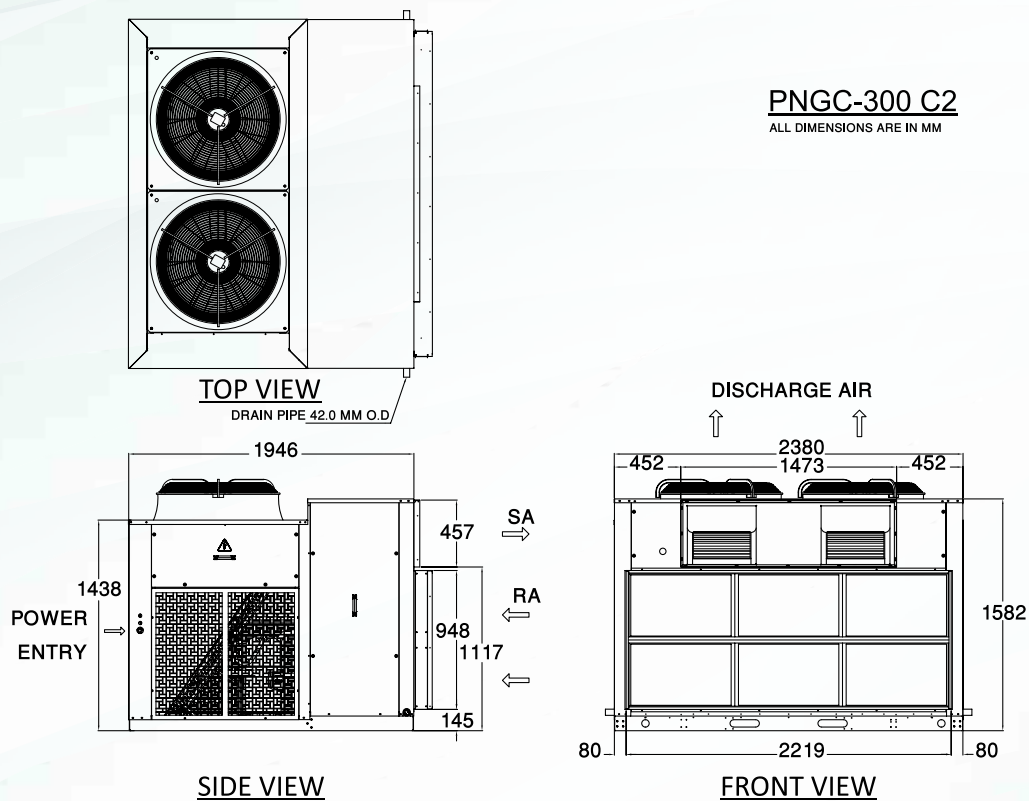
PNGC-240 C2
ALL DIMENSIONS ARE IN MM



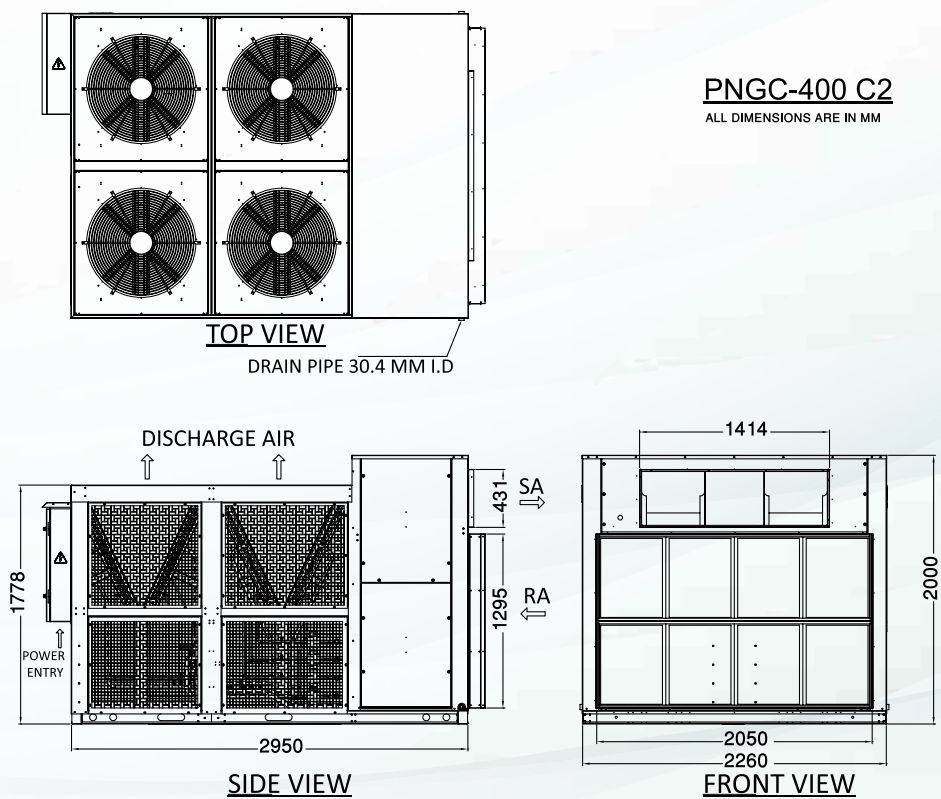
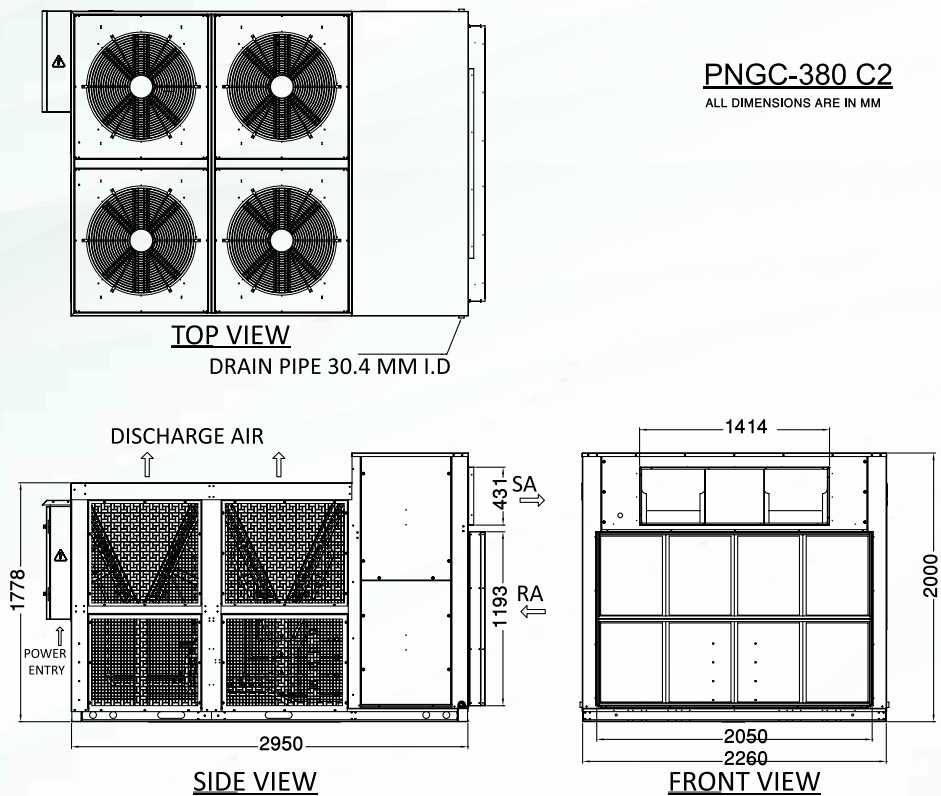
PNGC-270 C2
ALL DIMENSIONS ARE IN MM



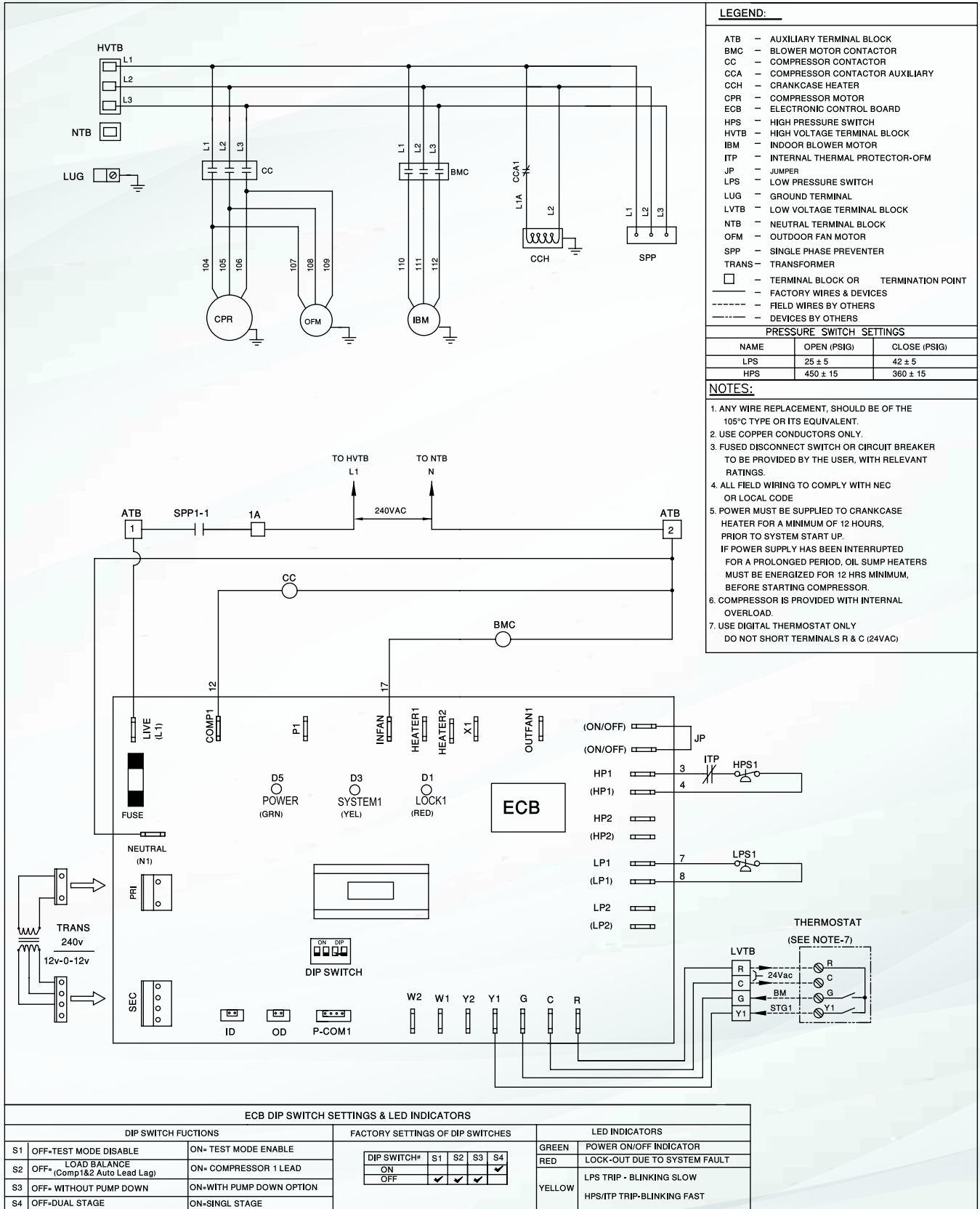
UNIT DIMENSIONS



UNIT DIMENSIONS



TYPICAL WIRING DIAGRAM



LOAD DISTRIBUTION



MODEL	LOAD DISTRIBUTION		
	A (mm)	X1 (kg)	X2 (kg)
PNGC-048 C2	75	50.0	45.0
PNGC-060 C2	75	51.0	47.0
PNGC-076 C2	75	67.5	60.5
PNGC-090 C2	75	71.0	68.0
PNGC-100 C2	75	94.0	87.0
PNGC-120 C2	75	115.0	77.5

LOAD DISTRIBUTION



	LOAD DISTRIBUTION			
MODEL	A [mm]	B [mm]	X1 [kg]	X2 [kg]
PNGC-130	125	980	97.6	105.7
PNGC-150	125	980	101.6	110.1
PNGC-175	125	1075	118.7	128.6
PNGC-200	125	1075	120.8	130.9
PNGC-240	125	1075	160.8	174.2
PNGC-270	125	1075	170.4	184.6
PNGC-300	125	1075	196.0	212.3
PNGC-340	125	1005	216.0	234.0
PNGC-380	125	1005	248.0	268.7
PNGC-400	125	1005	261.6	283.4



شركة صناعات التبريد والتخزين والخدمات النفطية

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