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# 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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### OTHER COOLEX PRODUCTS

- 1. Air Cooled Screw Water Chillers**
- 2. Air Cooled Scroll Water Chillers**
- 3. Air Handling Units**
- 4. Ducted Split Units**
- 5. Concealed Split Units**
- 6. Fan Coil Units**



## About RIC

Refrigeration Industries & Storage and Oil Services Company, occupies a leading position as one of the largest industrial companies in Kuwait which 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 (Cooler) 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 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 Cooler 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.

## نبذة عن الشركة

تتبع شركة صناعات التبريد والتخزين والخدمات النفطية مكانة رائدة باعتبارها واحدة من أكبر الشركات الصناعية في دولة الكويت، والتي تأسست عام 1973 لتؤدي دوراً غير استباقي في تقديم خدمات متعددة وأنشطة متنوعة كالتصنيع والتخزين والخدمات النفطية لتلبية مختلف احتياجات العملاء داخل الكويت وخارجها.

ومنذ انطلاقة الشركة وهي تعمل على إبراز التميز ومواصلة مسيرة التقدم مما مكنها من تأسيس العلامة التجارية (كولكس) عام 1986 والتي جاء ميلادها إنجازاً حقيقياً في السوق الكويتي باعتبارها الأولى في المنطقة في قطاع تصنيع أنظمة التكييف وحلول التبريد في الكويت.

وعلى صعيد متصل، أدت الشركة على تمكين قوتها العاملة وتعزيز السلامة والقدرة التنافسية والاستفادة من التقنيات المبتكرة لإطلاق منتجات جديدة تلبي مختلف القطاعات وتسهم في تحقيق التوسع والذي من شأنه يدعم النمو والازدهار.

ولضمان أعلى أداء في المستقبل، تسخر الشركة بحوثها المستمرة لتعزيز الكفاءة والجودة كما تواصل جهودها لتصنيع منتجات قادرة على التكيف مع تحديات المناخ والبيئة والطاقة.

## حقائق وتواريخ

- 1973 تم إنشاء المستودعات بناء على مرسوم أميري.
- 1979 عهدت وزارة الصحة الكويتية لشركة صناعات التبريد بإنشاء مجمع مستودعات مخازن التبريد الطبية، وقد كان هذا المجمع حينها هو الأضخم من نوعه على مستوى العالم، وقد وصلت تكلفته إلى 12,000,000 دينار كويتي.
- 1980 تم إنشاء مصنع مكيفات الهواء التابع لشركة صناعات التبريد في الصليبية.
- 1981 بدء إنتاج أجهزة التكييف المدمجة والمنفصلة الصغيرة تحت علامة York-Gulf.
- 1984 تم قيد شركة صناعات التبريد في سوق الكويت للأوراق المالية.
- 1986 بدء إنتاج مكيفات علامة كولكس.
- 1991 قامت شركة صناعات التبريد بإعادة بناء مصنعها الذي دمرته الحرب.
- 1997 الحصول على شهادة الأيزو 9001:1994.
- 2002 بدء تشغيل مختبر فحص وحدات التكييف (ETL).
- 2004 خصخصة شركة صناعات التبريد.
- 2010 كانت وحدات كولكس أول وحدات تكييف هواء تجتاز اللوائح التي أقرتها (وزارة الكهرباء والماء).
- 2010 تم تجديد مصنع شركة صناعات التبريد وبدء التوسع والتصدير إلى الدول المجاورة.
- 2012 الحصول على شهادة UL و AHRI لأجهزة التكييف كولكس.
- 2014 الحصول على شهادة SASO لأجهزة التكييف المنفصلة.
- 2014 الحصول على شهادة EUROVENT لأجهزة مناولة الهواء.
- 2014 الحصول على شهادة UL لمبردات الهواء الشيلر.
- 2015 الحصول على شهادة الأيزو 17025 لمختبر السيكرومترية.
- 2016 الحصول على شهادة كفاءة الطاقة لأجهزة التكييف المنفصلة والوحدات المدمجة (مملكة البحرين).
- 2016 الاستحواذ على شركة بارامونت الخليج للخدمات الكهربائية.
- 2021 الاستحواذ على مصنع الشركة الكويتية لصناعة الأنابيب والخدمات النفطية مما أدى على إثره تغيير اسم الشركة من شركة صناعات التبريد والتخزين إلى شركة صناعات التبريد والتخزين والخدمات النفطية.

## 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.

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

## NOMENCLATURE

**PNGC - 076 C 2 H10 A A**

### Unit Series Description

**PNGC** Package New Generation,  
R-407C Refrigerant

### Cooling Capacity Nominal MBH

|     |   |     |
|-----|---|-----|
| 48  | - | 175 |
| 60  | - | 200 |
| 76  | - | 240 |
| 90  | - | 270 |
| 100 | - | 300 |
| 120 | - | 340 |
| 130 | - | 380 |
| 150 | - | 400 |

| Code | Description   |
|------|---------------|
| A    | First Series  |
| B    | Second Series |
| C    | Third Series  |
| D    | Fourth Series |

### Electrical Specifications

**2** 415/3Ph/50Hz

### Electric Heater

**X X** kW value

|   |                                                |
|---|------------------------------------------------|
| A | External overload for each condenser fan motor |
| B | External overload for evaporator fan motor     |
| C | Circuit breaker for each compressor            |
| D | Circuit breaker for each condenser fan motor   |
| E | Circuit breaker for evaporator fan motor       |
| F | A, B                                           |
| G | C, D                                           |
| H | A, C, D                                        |
| I | C, D, E                                        |
| J | A, B, C, D, E                                  |

|   |                                                               |
|---|---------------------------------------------------------------|
| A | Double skin                                                   |
| B | 2 in aluminum filter                                          |
| C | Sight glass                                                   |
| D | Stainless steel drain pan                                     |
| E | Condenser coating                                             |
| F | Evaporator coating                                            |
| G | Copper fins                                                   |
| H | Modulating High and Low pressure switches                     |
| I | High and Low Pressure Gauges                                  |
| J | Air flow switch                                               |
| K | A, B                                                          |
| L | A, B, D                                                       |
| M | H, I                                                          |
| N | E, F                                                          |
| O | E, F, G                                                       |
| P | D, E, F                                                       |
| Q | Other combination and options to be assigned in the quotation |

## UNIT RATING SUMMARY

| Model       | Air Flow<br>(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

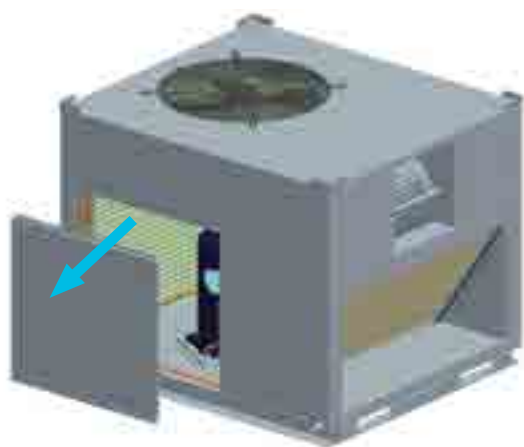
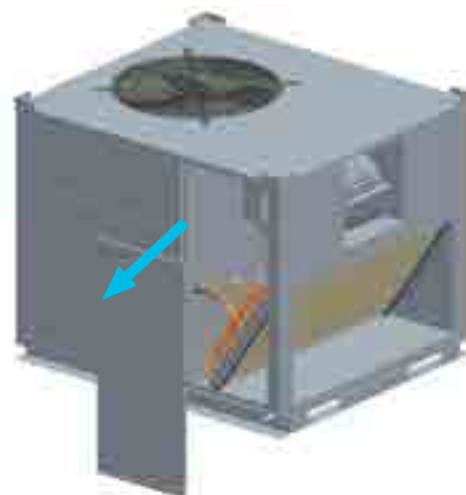
### Options & Accessories

- 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

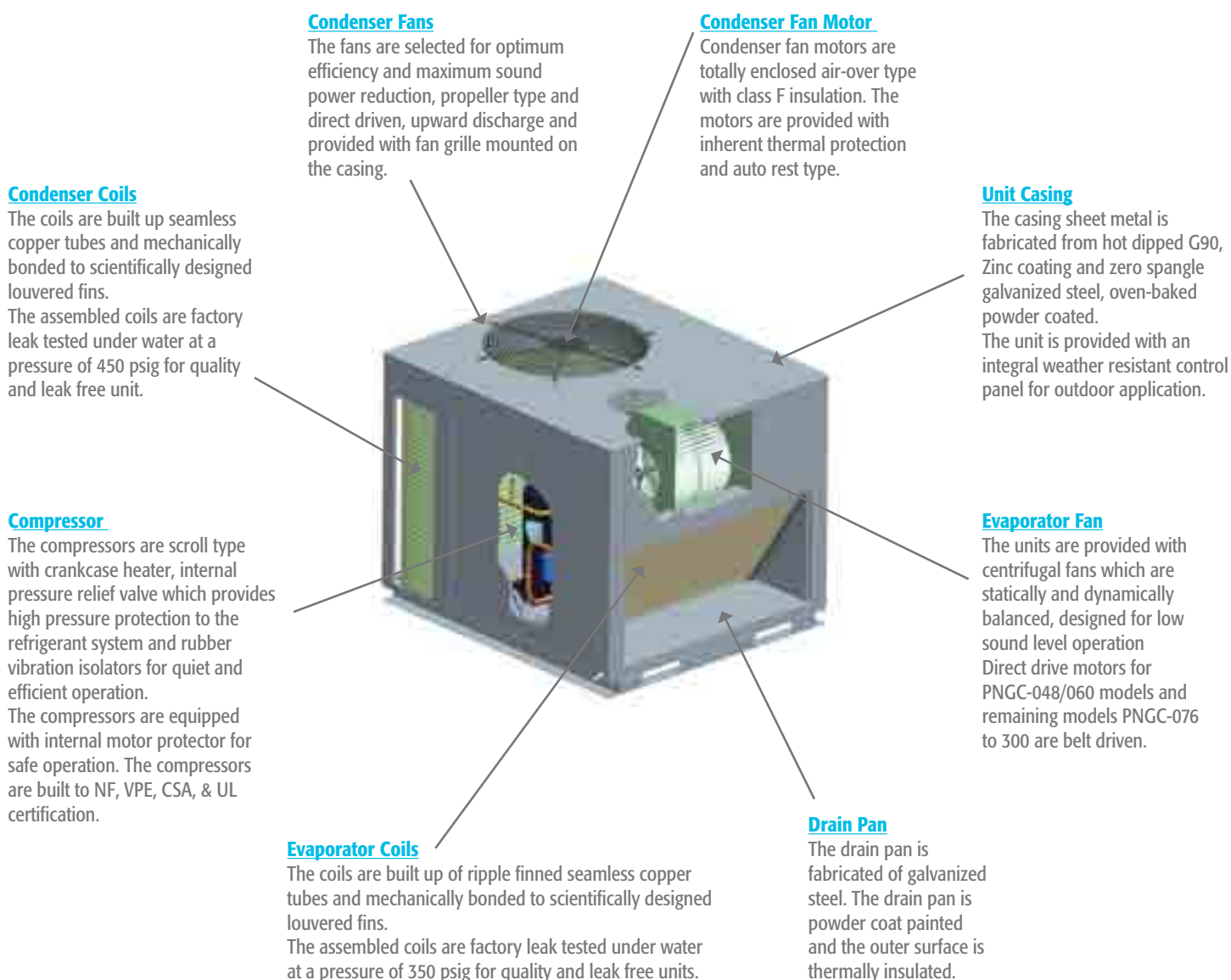
- Easy access to the electrical panel with hinged door for microprocessor access and electrical parts



## 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

### 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

Coollex 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:

- 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:

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:

#### Corrected capacity

= Required capacity  
/corr. factor

#### Corrected total capacity

= 68 [MBH]/0.99  
= 68.69 MBH

#### Total capacity

= 71.2 [MBH]

#### Corrected sensible capacity

= 51 [MBH]/0.99  
= 51.52 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 | 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-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 ( Ft<sup>3</sup>/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 | 769  | 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:

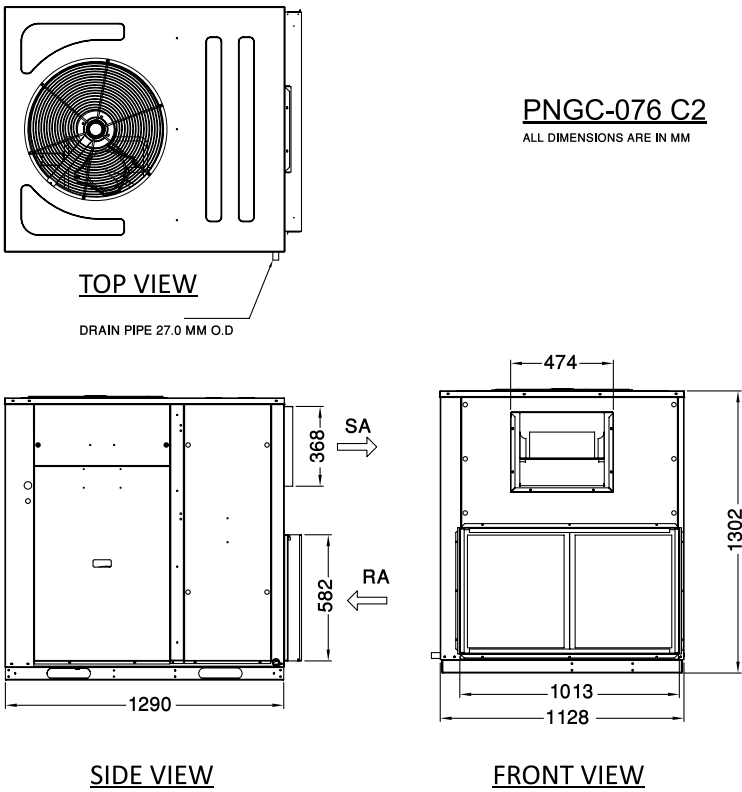
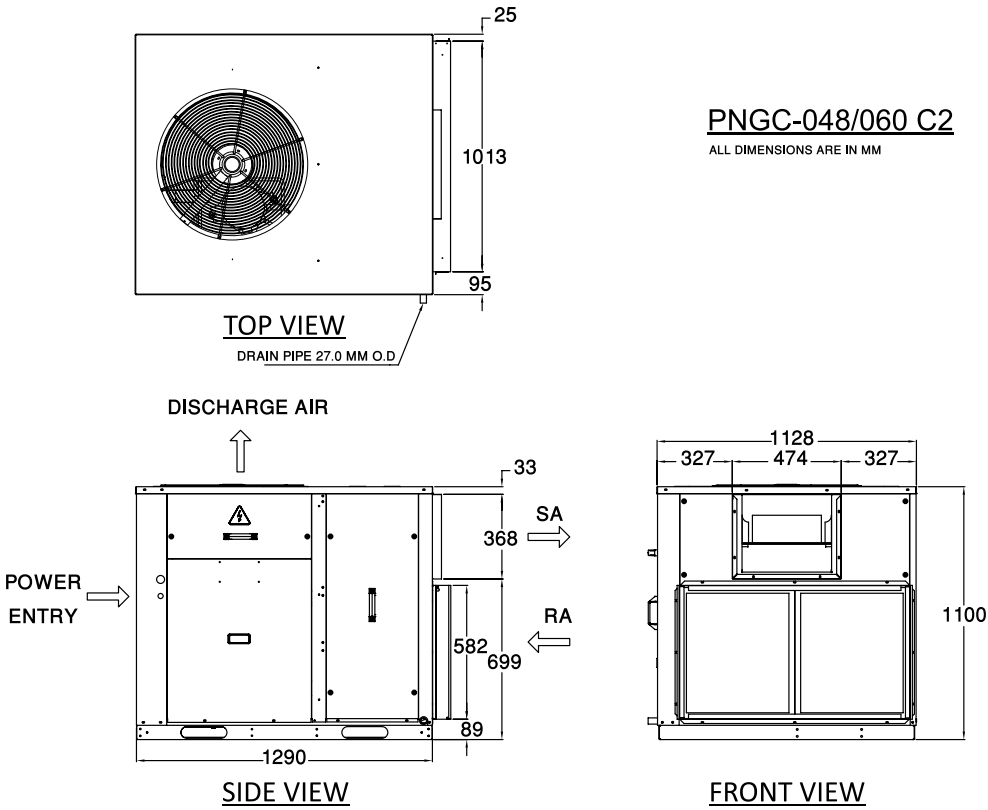
RPM : Fan Speed in revolution per minute  
BHP : Fan absorbed power

Note:

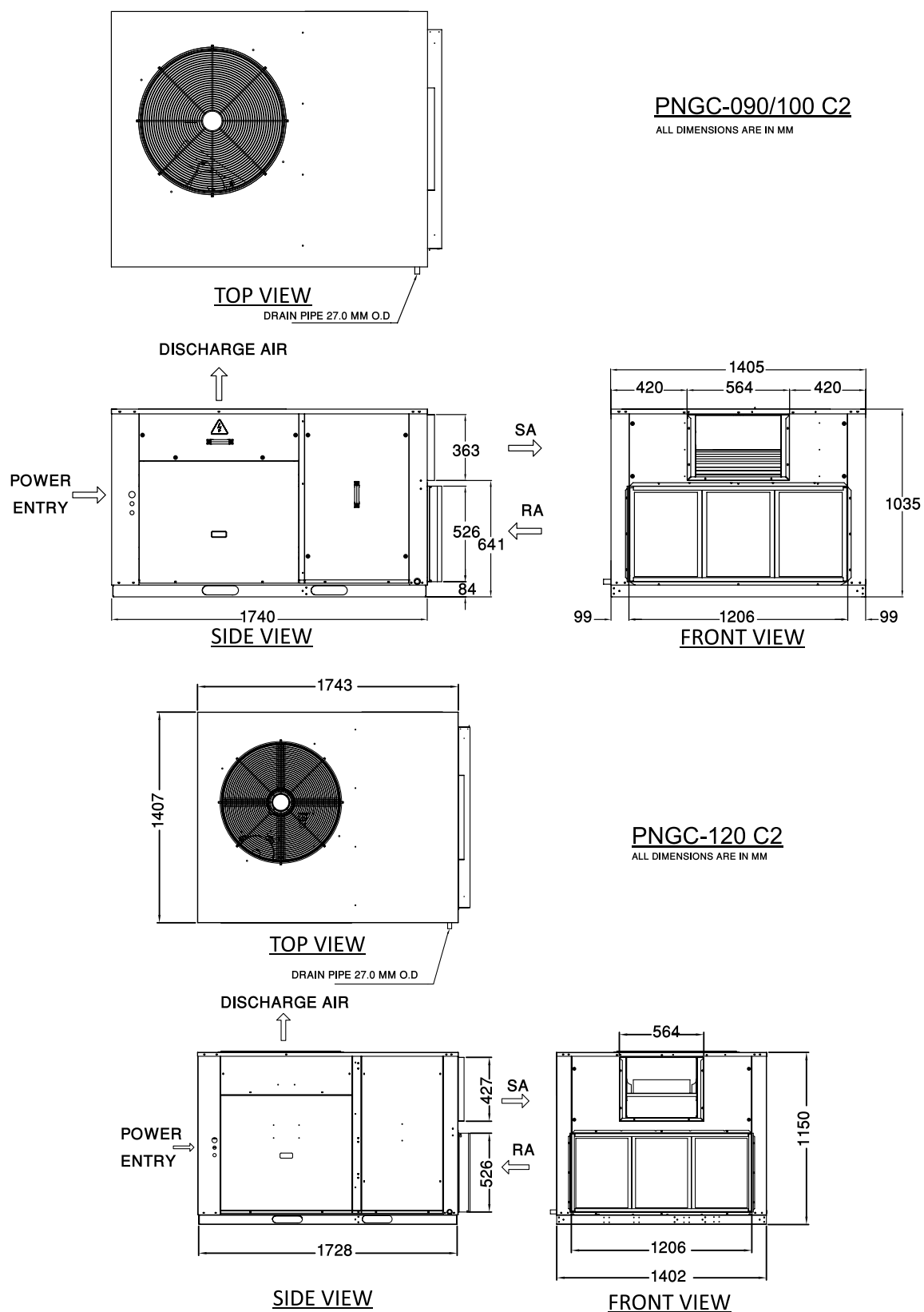
1. Internal Static pressure is based on pressure drops through evaporator coil, fan casing and 2" washable filters.
2. Blue shaded area indicates the operating range of a standard motor and drive combination.
3. Green shaded area indicates the operating range of a standard motor with non standard drive 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.



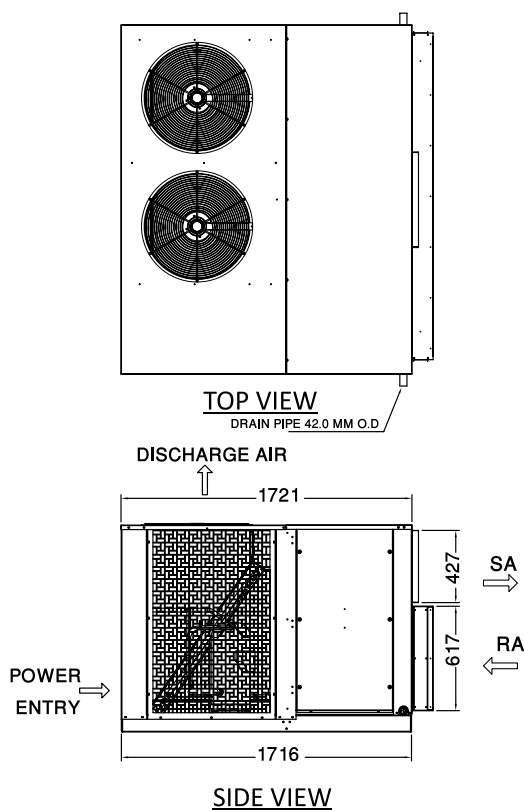
## UNIT DIMENSIONS



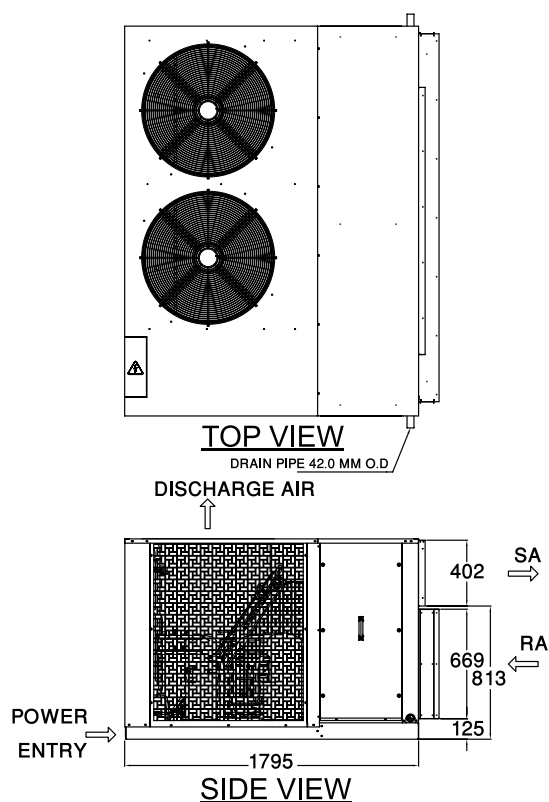
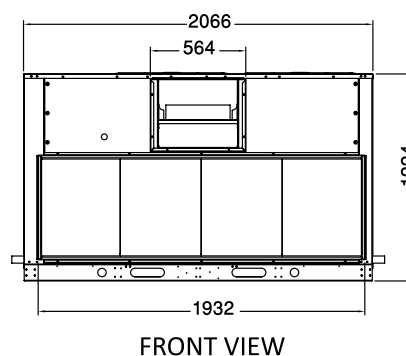
## UNIT DIMENSIONS



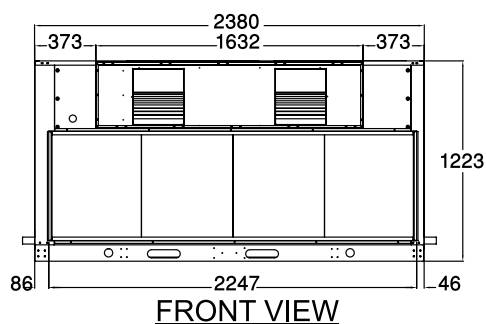
## UNIT DIMENSIONS



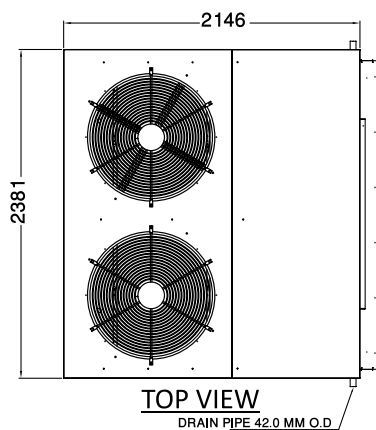
**PNGC-130/150 C2**  
ALL DIMENSIONS ARE IN MM



**PNGC-175/200 C2**  
ALL DIMENSIONS ARE IN MM

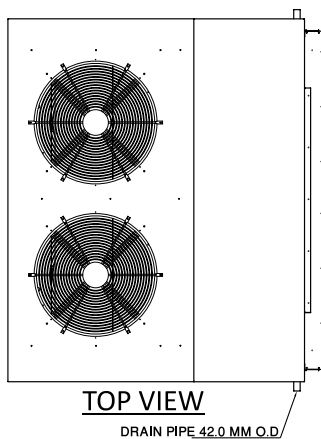
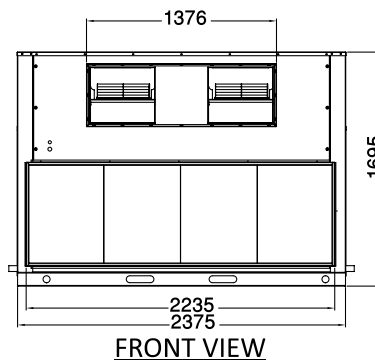
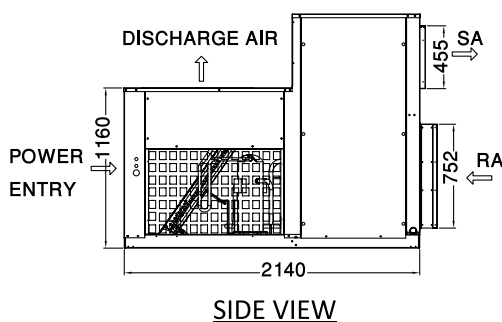


## UNIT DIMENSIONS



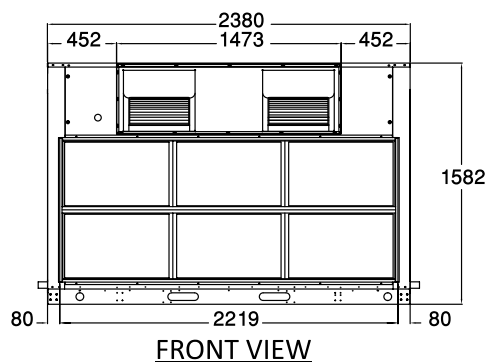
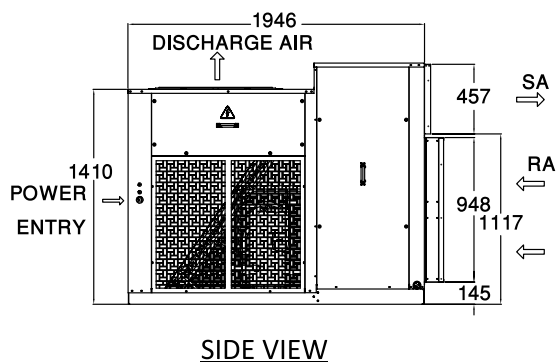
### PNGC-240 C2

ALL DIMENSIONS ARE IN MM

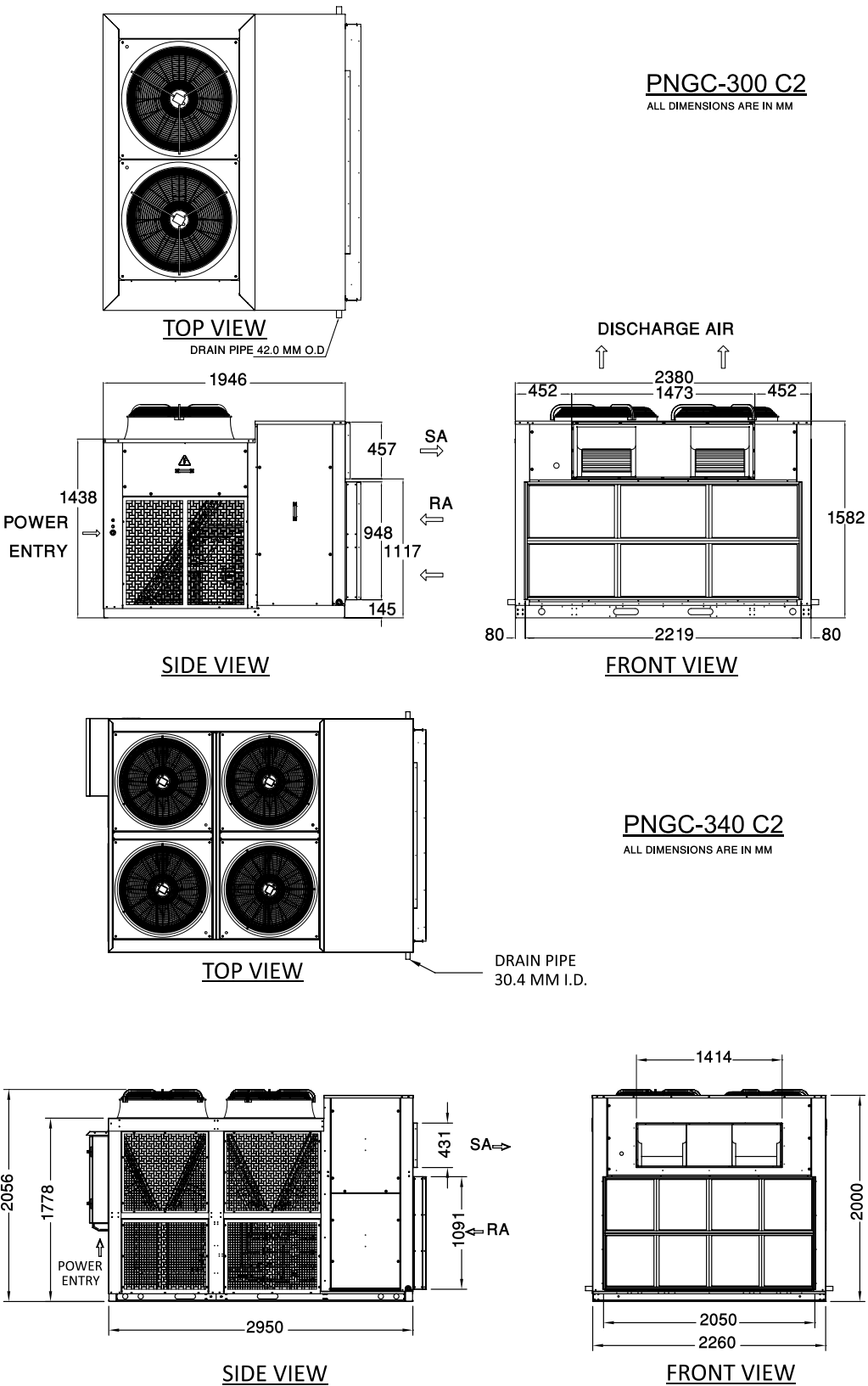


### PNGC-270 C2

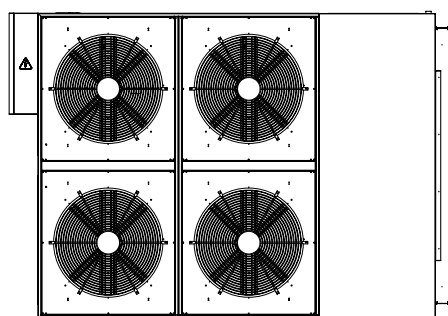
ALL DIMENSIONS ARE IN MM



## UNIT DIMENSIONS



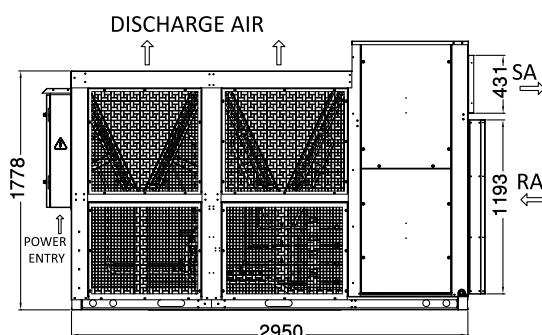
## UNIT DIMENSIONS



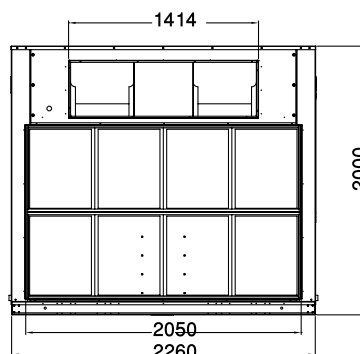
**TOP VIEW**  
DRAIN PIPE 30.4 MM I.D

### PNGC-380 C2

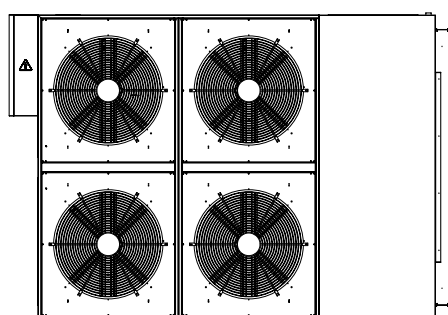
ALL DIMENSIONS ARE IN MM



**SIDE VIEW**



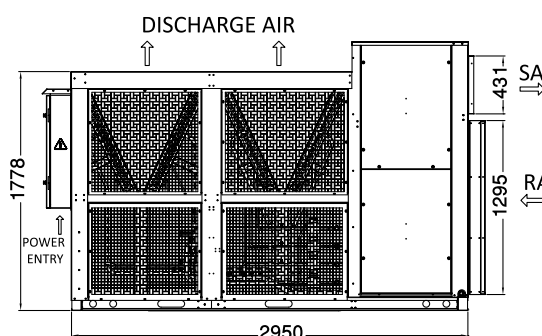
**FRONT VIEW**



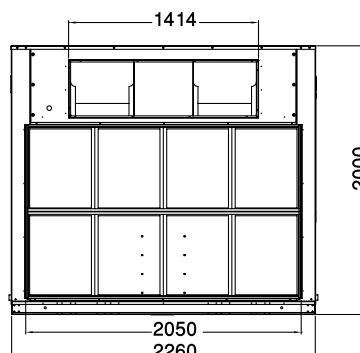
**TOP VIEW**  
DRAIN PIPE 30.4 MM I.D

### PNGC-400 C2

ALL DIMENSIONS ARE IN MM

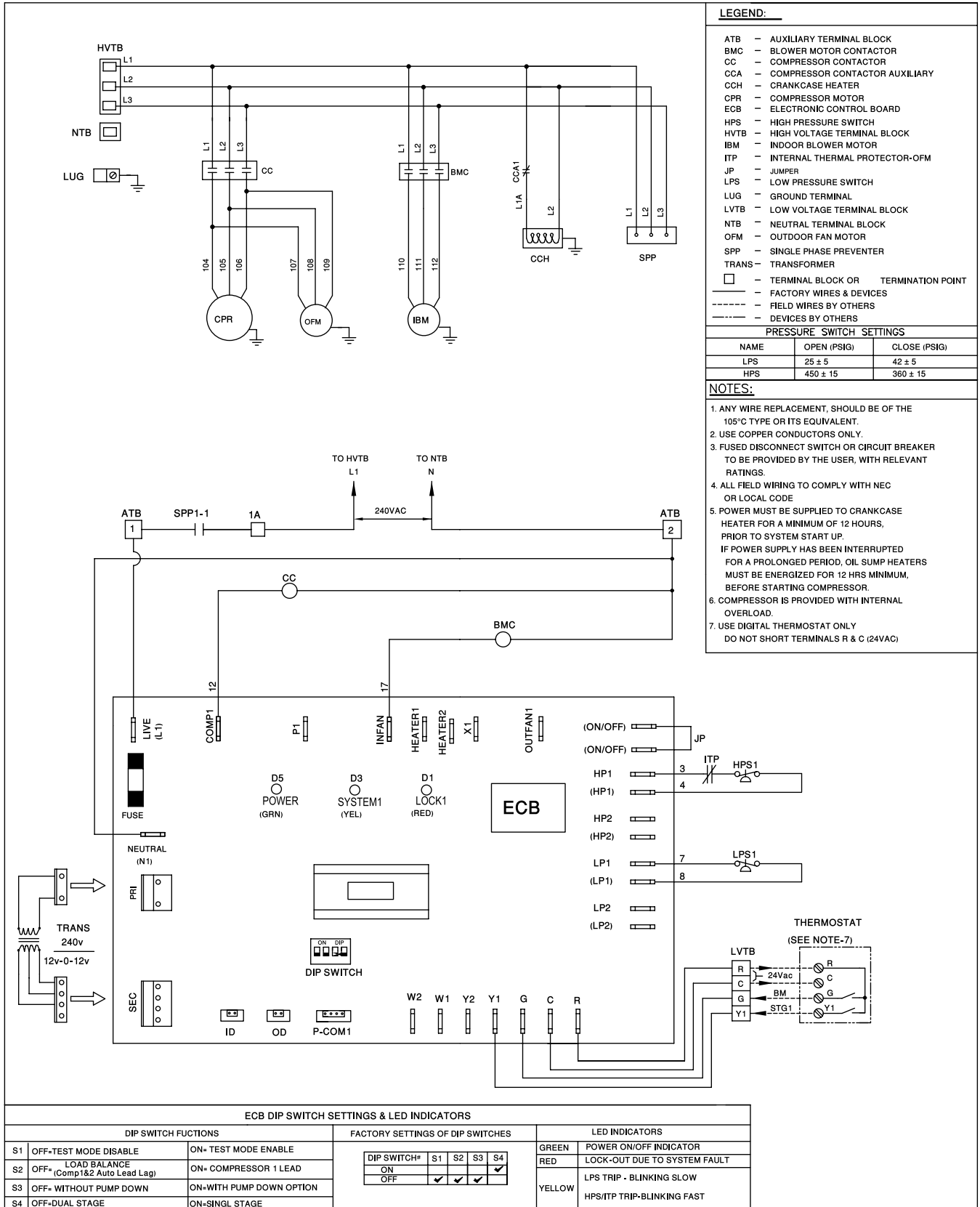


**SIDE VIEW**



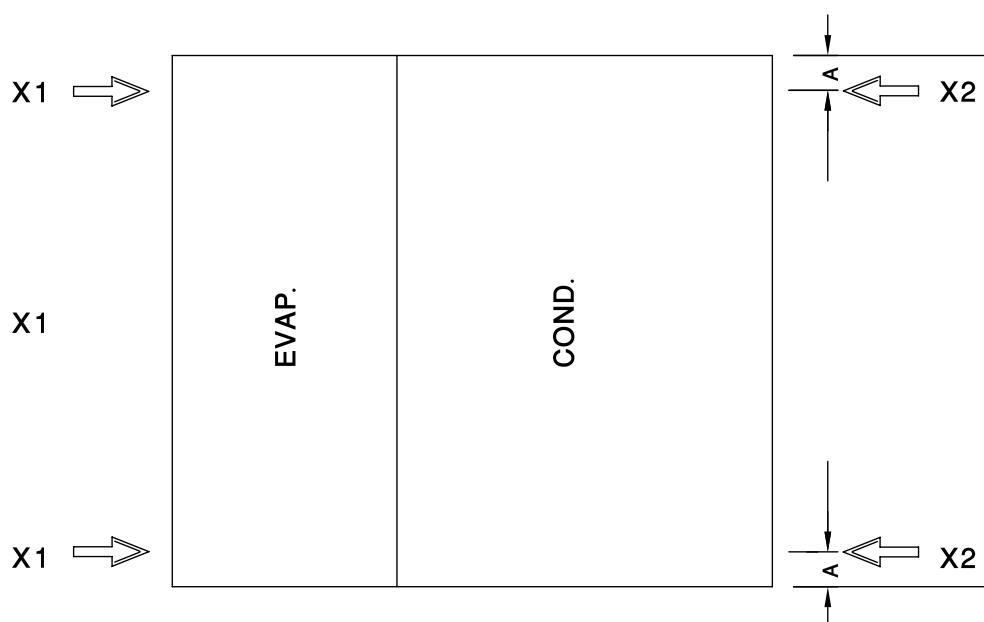
**FRONT VIEW**

## TYPICAL WIRING DIAGRAM



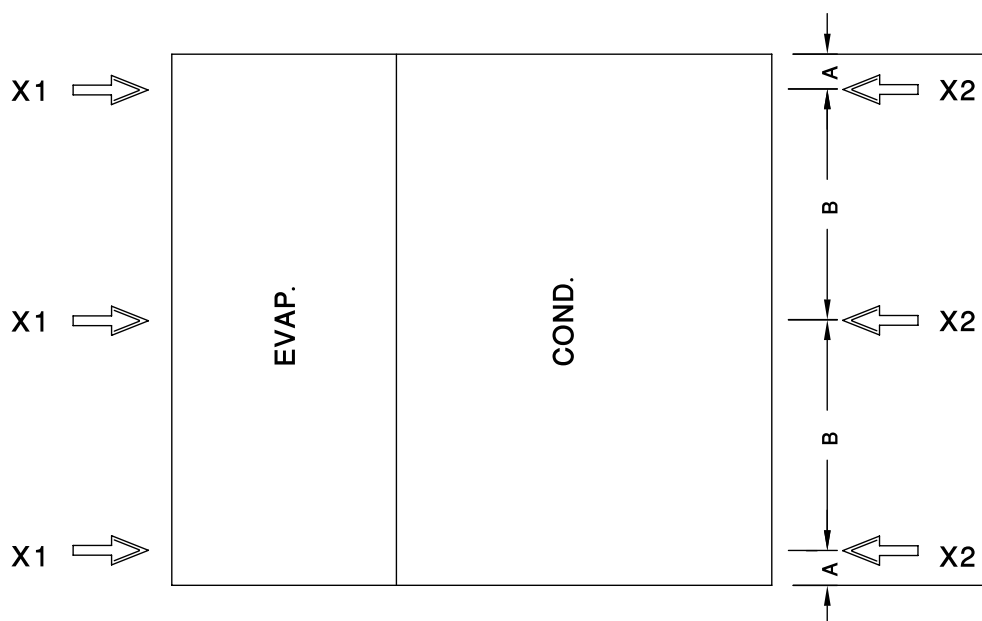


## LOAD DISTRIBUTION



| LOAD DISTRIBUTION |        |         |         |
|-------------------|--------|---------|---------|
| MODEL             | 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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