

**COOLEX**

# New Generation Compact Series R 410A 076-340 MBH



**50 Hz**

**Ducted Split with Hermetic Compressor Tropical**

**R410A**

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## OTHER COOLEX PRODUCTS

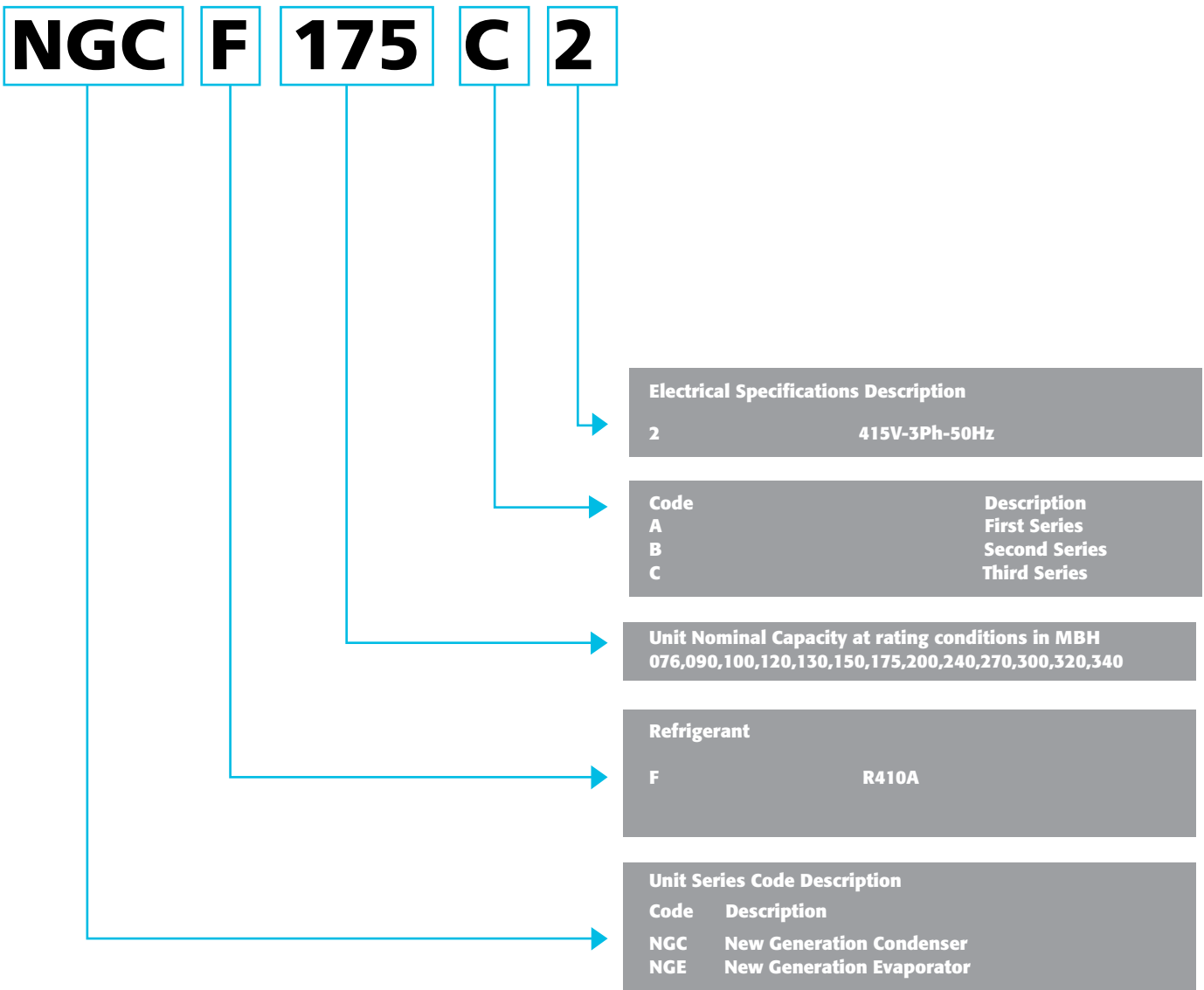
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## INTRODUCTION

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

COOLEX Ducted Split Units can be used for cooling or heating with optional duct electric heater.

## NOMENCLATURE



## UNIT RATING SUMMARY

| Model           | Air Flow (MAX)<br>(CFM) | Ambient temp 95°F |                  |        |       | Ambient temp 115°F |                  |        |       | Ambient temp 118.4°F |                  |        |      |
|-----------------|-------------------------|-------------------|------------------|--------|-------|--------------------|------------------|--------|-------|----------------------|------------------|--------|------|
|                 |                         | Cooling Capacity  | Total Power (kW) | kW/Ton | EER   | Cooling Capacity   | Total Power (kW) | kW/Ton | EER   | Cooling Capacity     | Total Power (kW) | kW/Ton | EER  |
|                 |                         | (MBH)             |                  |        |       | (MBH)              |                  |        |       | (MBH)                |                  |        |      |
| NGCF/NGEF-076C2 | 2621                    | 78.70             | 5.94             | 0.91   | 13.25 | 71.23              | 7.09             | 1.19   | 10.05 | 67.92                | 7.35             | 1.30   | 9.24 |
| NGCF/NGEF-090C2 | 2950                    | 95.99             | 7.25             | 0.91   | 13.24 | 87.28              | 8.58             | 1.18   | 10.17 | 85.80                | 8.81             | 1.23   | 9.74 |
| NGCF/NGEF-100C2 | 3556                    | 103.47            | 8.30             | 0.96   | 12.47 | 93.38              | 9.87             | 1.27   | 9.46  | 87.72                | 10.14            | 1.39   | 8.65 |
| NGCF/NGEF-120C2 | 4010                    | 125.66            | 10.41            | 0.99   | 12.07 | 114.26             | 12.11            | 1.27   | 9.43  | 112.32               | 12.40            | 1.33   | 9.06 |
| NGCF/NGEF-130C2 | 4750                    | 137.78            | 10.63            | 0.93   | 12.96 | 125.16             | 12.76            | 1.22   | 9.81  | 117.72               | 13.12            | 1.34   | 8.97 |
| NGCF/NGEF-150C2 | 5100                    | 153.50            | 12.46            | 0.97   | 12.32 | 139.45             | 14.03            | 1.21   | 9.94  | 131.16               | 14.30            | 1.31   | 9.17 |
| NGCF/NGEF-175C2 | 6282                    | 178.20            | 15.52            | 1.05   | 11.48 | 161.89             | 17.49            | 1.30   | 9.26  | 159.12               | 18.39            | 1.39   | 8.65 |
| NGCF/NGEF-200C2 | 6728                    | 202.14            | 17.36            | 1.03   | 11.64 | 183.64             | 19.56            | 1.28   | 9.39  | 178.68               | 20.62            | 1.38   | 8.67 |
| NGCF/NGEF-240C2 | 8000                    | 238.80            | 19.64            | 0.99   | 12.16 | 216.93             | 23.22            | 1.28   | 9.34  | 207.00               | 24.07            | 1.40   | 8.60 |
| NGCF/NGEF-270C2 | 8700                    | 268.77            | 21.14            | 0.94   | 12.72 | 249.81             | 26.78            | 1.29   | 9.33  | 239.40               | 28.02            | 1.40   | 8.54 |
| NGCF/NGEF-300C2 | 9400                    | 294.21            | 24.23            | 0.99   | 12.14 | 275.58             | 29.14            | 1.27   | 9.46  | 264.48               | 30.28            | 1.37   | 8.73 |
| NGCF/NGEF-320C2 | 9987                    | 314.47            | 25.81            | 0.98   | 12.19 | 294.56             | 31.32            | 1.28   | 9.40  | 278.64               | 32.26            | 1.39   | 8.64 |
| NGCF/NGEF-340C2 | 10300                   | 328.83            | 27.47            | 1.00   | 11.97 | 308.01             | 32.97            | 1.28   | 9.34  | 291.36               | 33.91            | 1.34   | 8.59 |

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

## OUT STANDING FEATURES

### Indoor Unit:

- Compact design
- Low profile
- Low sound power level
- For ducted application
- Single speed motors
- Easy maintenance
- Easy installation
- External terminal box

### Outdoor Unit:

- High efficiency tropical design
- Galvanized heavy gauge panels, oven baked powder coated
- Designed to operate at severe ambient temperature up to 52°C without tripping
- External service valve with gauge ports
- Coil guard protection
- Microprocessor controller
- 240Volt controls

### Options & Accessories

- Digital thermostat
- Cleanable air filter

## OUT STANDING FEATURES

### Evaporator's Side

- Easy access to the evaporator side with removable panels 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 coil guard or panel for maintenance purpose for the compressor
- Easy access to condenser fans, and motors



### Electrical Panel

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



## STANDARD SPECIFICATIONS (OUTDOOR UNIT) & (INDOOR UNIT)

### General

The top discharge condensing units are provided with the latest advanced technology to provide quiet, reliable performance. The straight V-coils adds aesthetical appeal and gives optimum heat transfer efficiency. The access panels & guards provide access to the compressor and to the control box. Removal of top panel gives access to fan motor and coil.

### Unit Construction

The indoor unit consists of a coil, motor/blower assembly and a drain pan securely mounted on heavy gauge galvanized steel housing.

#### Condenser Fans

Axial type condenser fan are used which precisely match with extra strong fan motor to ensure efficient hot air dissipation.

#### Condenser Fan Motor

The condenser fan motors are a 4/6 poles electric motor which directly drive the condenser fans conforming to BS/IES standards. They are totally enclosed air over type electric motors with built-in thermal protector class F insulation.

#### Condenser Coils

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

#### Unit Casing

The casing sheet metal is fabricated from hot dipped G90, Zinc coating and zero spangle galvanized steel, oven-baked powder coated.

#### Compressor

The compressors are hermetically sealed type. The compressors are equipped with internal motor protector and necessary accessories for safe operation.

#### Blower Assembly

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

#### Evaporator Coils

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

#### Evaporator Blower Motor

The evaporator blower motor is Belt Drive the evaporator blower. it is open drip proof type electric motors with built-in thermal protector and permanently lubricated ball bearings class B insulation.

#### Drain Pan

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

## MICROPROCESSOR CONTROLLER

### Microprocessor Based Controller

The new generation of condensing units is provided with technologically advanced microprocessor based controller, incorporating the following benefits and features:

- Anti-recycle timer
- Compressor lock out function
- Balance loading of compressors
- Compressor lead-lag operation
- Pump down option
- Fault diagnostics
- Indicator lights for high & low pressure safeties

## OPTIONAL SPECIFICATIONS

### Construction & Refrigeration

- Double skin for evaporator side.
- Coil protection materials:
  - a) Polyurethane pre-coat Aluminum fins with copper tubes.
  - b) Tinned copper tubes with copper fins.
- Condenser coil guard.
- Mesh around perimeter of condenser sections.
- Stainless steel drain pan.
- Sight glass
- Vibration isolation for the unit:
  - a) Neoprene rubber pads.
  - b) 1" spring isolator.
- Lockable door for the control panel.
- Pump down solenoid valve (PDS)
- Hot gas bypass valve
- Muffler
- Replaceable filter drier with mechanical shut-off valve

### Electrical

- Electric heaters (open coil type)
- Electric heaters (fin type)
- Compressor circuit breaker
- Mild ambient (fan cycling) control
- Duct sensor
- Adjustable high/low pressure switch
- Anti-ice thermostat
- Volt free contacts
- External overload
- Ultra violet light
- Dirty filter indication
- Fire alarm connection
- Modbus
- Wi-Fi Thermostat

Cooler App



Wi Fi Module



Typical Thermostat



## SELECTION PROCEDURE

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

### Example :

#### Design requirements

|                                         |                   |         |
|-----------------------------------------|-------------------|---------|
| • Total cooling capacity                | 195               | [MBH]   |
| • Sensible cooling capacity             | 150               | [MBH]   |
| • Design ambient temperature            | 118.4             | [°F]    |
| • Evaporator air flow                   | 7500              | [CFM]   |
| • Evaporator entering temperature DB/WB | 80/67             | [°F/°F] |
| • External static pressure              | 0.2               | [in.wg] |
| • Altitude                              | 2000              | [ft]    |
| • Power supply                          | 415V / 3Ph / 50Hz |         |

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

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

#### Corrected capacity

= Required capacity  
/corr. factor

#### Corrected total capacity

= 195 [MBH]/0.99  
= 196.97 MBH

#### Corrected sensible capacity

= 150 [MBH]/0.99  
= 151.51 MBH

From the cooling capacity at performance data tables (page 14), the closest selection model to the required capacity is NGCF/NGEF-240 C2 From the performance table:

#### Total capacity

= 203.95 [MBH]

#### Sensible capacity

= 154.68 [MBH]

## GENERAL DATA

| Outdoor Units      |                        | NGCF 076                           | NGCF 090 | NGCF 100 | NGCF 120   | NGCF 130      | NGCF 150    |
|--------------------|------------------------|------------------------------------|----------|----------|------------|---------------|-------------|
| Compressor         | Type                   | Scroll Hermetic                    |          |          |            |               |             |
|                    | Quantity               | 1                                  | 1        | 1        | 1          | 1             | 2           |
|                    | Refrigerant            | R 410A                             |          |          |            |               |             |
| Condenser Fan      | Type                   | Propeller                          |          |          |            |               |             |
|                    | Diameter, mm/Qty       | 762                                |          |          |            | 610x2         | 762x2       |
|                    | Motor Encl./Ins. Class | Totally Enclosed Air Over, Class F |          |          |            |               |             |
|                    | Nominal kW (HP)        | 0.75(1)                            |          |          | 1.12 (1.5) | 0.56 (0.75)x2 | 1.1 (1.5)x2 |
|                    | RPM                    | 900                                |          |          |            |               |             |
| Condenser Coil     | Type                   | Enhanced Fins and Tubes            |          |          |            |               |             |
|                    | Number of Rows         | 2R/3R                              |          |          |            |               |             |
| Refrigerant Charge | kg                     | 7.2                                | 7.7      | 9.1      | 9.3        | 9.2           | 6.5/5.9     |
| Weight             | kg                     | 190                                | 195      | 206      | 217        | 241           | 540         |

| Indoor Units      |                           | NGEF 076                       | NGEF 090  | NGEF 100 | NGEF 120 | NGEF 130 | NGEF 150 |
|-------------------|---------------------------|--------------------------------|-----------|----------|----------|----------|----------|
| Evaporator Blower | Type                      | Centrifugal Forward Curve DWDI |           |          |          |          |          |
|                   | Motor Encl./Ins. Class    | Open Drip-Proof, Class B       |           |          |          |          |          |
|                   | Nominal kW (HP)           | 0.75 (1)                       | 1.5 (2.0) |          |          |          | 2.2 (3)  |
| Evaporator Coil   | Type                      | Enhanced Fins and Tubes        |           |          |          |          |          |
|                   | Row/FPI                   | 3R/4R                          |           |          |          |          |          |
| Air Filter        | Min. filter Thickness, mm | 25                             |           |          |          |          |          |
|                   | Type                      | Washable Aluminum Mesh         |           |          |          |          |          |
| Expansion Devices | Type                      | Thermal Expansion Valve        |           |          |          |          |          |
| Operating Weight  | kg                        | 127                            | 160       | 166      | 176      | 181      | 185      |

## GENERAL DATA

| Outdoor Units      |                        | NGCF 175                           | NGCF 200  | NGCF 240    | NGCF 270    | NGCF 300  | NGCF 320    | NGCF 340       |
|--------------------|------------------------|------------------------------------|-----------|-------------|-------------|-----------|-------------|----------------|
| Compressor         | Type                   | Scroll Hermetic                    |           |             |             |           |             |                |
|                    | Quantity               | 2                                  | 2         | 2           | 2           | 2         | 2           | 2              |
|                    | Refrigerant            | R 410A                             |           |             |             |           |             |                |
| Condenser Fan      | Type                   | Propeller                          |           |             |             |           |             |                |
|                    | Diameter, mm/Qty       | 762/2                              |           |             |             |           |             | 800x2          |
|                    | Motor Encl./Ins. Class | Totally Enclosed Air Over, Class F |           |             |             |           |             |                |
|                    | Nominal kW (HP)        | 2 x 1.10 (1.5)                     |           |             |             |           |             | 2 x 1.25 (1.7) |
|                    | RPM                    | 900                                |           |             |             |           |             |                |
| Condenser Coil     | Type                   | Enhanced Fins and Tubes            |           |             |             |           |             |                |
|                    | Number of Rows         | 2R/3R                              |           |             |             |           |             |                |
| Refrigerant Charge | kg                     | 6/5.3                              | 12.3/11.3 | 12.1/System | 12.5/System | 13/System | 13.2/System | 13.5/System    |
| Weight             | kg                     | 550                                | 700       | 718         | 757         | 861       | 920         | 942            |

| Indoor Units      |                           | NGEF 175                       | NGEF 200  | NGEF 240  | NGEF 270  | NGEF 300 | NGEF 320 | NGEF 340 |
|-------------------|---------------------------|--------------------------------|-----------|-----------|-----------|----------|----------|----------|
| Evaporator Blower | Type                      | Centrifugal Forward Curve DWDI |           |           |           |          |          |          |
|                   | Motor Encl./Ins. Class    | Open Drip-Proof, Class B       |           |           |           |          |          |          |
|                   | Nominal kW (HP)           | 3.73(5.0)                      | 3.73(5.0) | 3.73(5.0) | 3.73(5.0) | 5.6(7.5) | 5.6(7.5) | 5.6(7.5) |
| Evaporator Coil   | Type                      | Enhanced Fins and Tubes        |           |           |           |          |          |          |
|                   | Row/FPI                   | 3R/4R                          |           |           |           |          |          |          |
| Air Filter        | Min. filter Thickness, mm | 50                             | 50        | 50        | 50        | 50       | 50       | 50       |
|                   | Type                      | Washable Aluminum Mesh         |           |           |           |          |          |          |
| Expansion Devices | Type                      | Thermal Expansion Valve        |           |           |           |          |          |          |
| Operating Weight  | kg                        | 295                            | 299       | 387       | 408       | 464      | 508      | 508      |

## PERFORMANCE DATA TABLES

| Model           | Air On Evaporator |      |          | Condenser Ambient Temperature |                 |      |          |                 |      |          |                 |      |          |                 |      |          |
|-----------------|-------------------|------|----------|-------------------------------|-----------------|------|----------|-----------------|------|----------|-----------------|------|----------|-----------------|------|----------|
|                 | Air Flow          |      | Temp ° F | 95° F                         |                 |      | 115° F   |                 |      | 118.4° F |                 |      | 125° F   |                 |      |          |
|                 | CFM               | 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. |          |
| NGCF/NGEF-076C2 | 2200              | 84.2 | 66.2     | 75,413                        | 64,101          | 5.85 | 67,919   | 57,731          | 6.98 | 64,696   | 54,991          | 7.17 | 61,562   | 52,327          | 7.6  |          |
|                 |                   | 80.0 | 67.0     | 76,592                        | 52,197          | 5.85 | 69,305   | 49,141          | 6.98 | 66,016   | 44,880          | 7.17 | 62,818   | 43,057          | 7.60 |          |
|                 |                   | 74.0 | 62.0     | 67,510                        | 47,255          | 5.53 | 61,087   | 44,488          | 6.59 | 57,947   | 38,272          | 6.77 | 55,142   | 36,709          | 7.18 |          |
|                 |                   | 68.0 | 57.0     | 58,665                        | 42,220          | 5.35 | 53,083   | 39,749          | 6.32 | 50,087   | 32,044          | 6.45 | 47,676   | 30,742          | 6.89 |          |
|                 | 2400              | 84.2 | 66.2     | 76,326                        | 67,930          | 5.88 | 69,064   | 61,467          | 7.02 | 65,813   | 58,573          | 7.21 | 62,614   | 55,727          | 7.64 |          |
|                 |                   | 80.0 | 67.0     | 77,609                        | 53,230          | 5.88 | 70,225   | 50,113          | 7.02 | 66,919   | 45,842          | 7.21 | 63,667   | 43,981          | 7.64 |          |
|                 |                   | 74.0 | 62.0     | 68,401                        | 48,235          | 5.60 | 61,894   | 45,411          | 6.68 | 58,738   | 39,048          | 6.86 | 55,894   | 37,467          | 7.27 |          |
|                 |                   | 68.0 | 57.0     | 59,444                        | 42,931          | 5.38 | 53,789   | 40,418          | 6.37 | 50,779   | 32,850          | 6.53 | 48,334   | 31,045          | 6.93 |          |
|                 | 2621              | 84.2 | 66.2     | 77,814                        | 73,923          | 5.94 | 70,424   | 66,903          | 7.09 | 67,153   | 63,795          | 7.35 | 63,892   | 60,697          | 7.72 |          |
|                 |                   | 80.0 | 67.0     | 78,703                        | 54,223          | 5.94 | 71,229   | 51,064          | 7.09 | 67,920   | 46,876          | 7.35 | 64,622   | 44,886          | 7.72 |          |
|                 |                   | 74.0 | 62.0     | 69,357                        | 49,072          | 5.65 | 62,758   | 46,199          | 6.74 | 59,587   | 39,883          | 6.93 | 56,701   | 38,262          | 7.34 |          |
|                 |                   | 68.0 | 57.0     | 60,280                        | 43,854          | 5.40 | 54,544   | 41,286          | 6.43 | 51,521   | 33,752          | 6.60 | 49,039   | 32,053          | 7.00 |          |

|                 |      |      |      |        |        |      |        |        |      |        |        |      |        |        |      |
|-----------------|------|------|------|--------|--------|------|--------|--------|------|--------|--------|------|--------|--------|------|
| NGCF/NGEF-090C2 | 2600 | 84.2 | 66.2 | 91,550 | 77,817 | 7.14 | 83,226 | 70,742 | 8.45 | 81,796 | 69,526 | 8.67 | 77,699 | 66,044 | 9.19 |
|                 |      | 80.0 | 67.0 | 93,418 | 65,640 | 7.14 | 84,924 | 61,593 | 8.45 | 83,465 | 60,904 | 8.67 | 79,285 | 58,469 | 9.19 |
|                 |      | 74.0 | 62.0 | 82,341 | 59,425 | 6.74 | 74,854 | 55,761 | 7.98 | 73,568 | 55,137 | 8.20 | 69,884 | 52,933 | 8.69 |
|                 |      | 68.0 | 57.0 | 71,553 | 53,094 | 6.53 | 65,047 | 49,821 | 7.66 | 63,928 | 49,264 | 7.81 | 60,727 | 47,294 | 8.33 |
|                 | 2800 | 84.2 | 66.2 | 93,094 | 82,854 | 7.18 | 84,629 | 75,320 | 8.50 | 83,175 | 74,025 | 8.72 | 79,010 | 70,319 | 9.25 |
|                 |      | 80.0 | 67.0 | 94,659 | 66,939 | 7.18 | 86,052 | 62,812 | 8.50 | 84,573 | 62,109 | 8.72 | 80,338 | 59,626 | 9.25 |
|                 |      | 74.0 | 62.0 | 83,428 | 60,658 | 6.83 | 75,842 | 56,919 | 8.09 | 74,539 | 56,282 | 8.30 | 70,806 | 54,032 | 8.80 |
|                 |      | 68.0 | 57.0 | 72,504 | 53,988 | 6.56 | 65,911 | 50,659 | 7.71 | 64,778 | 50,093 | 7.91 | 61,533 | 48,090 | 8.39 |
|                 | 2950 | 84.2 | 66.2 | 94,909 | 90,163 | 7.25 | 86,295 | 81,980 | 8.58 | 84,831 | 80,589 | 8.81 | 80,589 | 76,560 | 9.34 |
|                 |      | 80.0 | 67.0 | 95,993 | 68,188 | 7.25 | 87,281 | 64,003 | 8.58 | 85,800 | 62,452 | 8.81 | 81,510 | 60,760 | 9.34 |
|                 |      | 74.0 | 62.0 | 84,594 | 61,710 | 6.90 | 76,902 | 57,906 | 8.17 | 75,580 | 57,258 | 8.38 | 71,795 | 54,969 | 8.89 |
|                 |      | 68.0 | 57.0 | 73,522 | 55,148 | 6.59 | 66,837 | 51,749 | 7.79 | 65,688 | 51,170 | 7.98 | 62,398 | 49,124 | 8.47 |

|                 |      |      |      |         |        |      |        |        |      |        |        |       |        |        |       |
|-----------------|------|------|------|---------|--------|------|--------|--------|------|--------|--------|-------|--------|--------|-------|
| NGCF/NGEF-100C2 | 2800 | 84.2 | 66.2 | 98,685  | 83,882 | 8.17 | 89,044 | 75,687 | 9.72 | 83,521 | 70,992 | 9.98  | 79,144 | 67,272 | 10.58 |
|                 |      | 80.0 | 67.0 | 100,699 | 66,347 | 8.17 | 90,861 | 62,757 | 9.72 | 85,225 | 65,102 | 9.98  | 80,759 | 62,617 | 10.58 |
|                 |      | 74.0 | 62.0 | 88,758  | 60,064 | 7.72 | 80,087 | 56,815 | 9.18 | 74,652 | 55,615 | 9.43  | 70,715 | 53,479 | 10.00 |
|                 |      | 68.0 | 57.0 | 77,129  | 53,665 | 7.47 | 69,594 | 50,763 | 8.81 | 64,353 | 46,644 | 8.99  | 60,842 | 44,708 | 9.59  |
|                 | 3200 | 84.2 | 66.2 | 100,349 | 89,311 | 8.22 | 90,545 | 80,585 | 9.78 | 84,980 | 75,632 | 10.04 | 80,531 | 71,673 | 10.64 |
|                 |      | 80.0 | 67.0 | 102,036 | 67,660 | 8.22 | 92,067 | 63,999 | 9.78 | 86,409 | 66,332 | 10.04 | 81,885 | 63,798 | 10.64 |
|                 |      | 74.0 | 62.0 | 89,930  | 61,311 | 7.82 | 81,144 | 57,995 | 9.30 | 75,689 | 56,608 | 9.56  | 71,700 | 54,430 | 10.13 |
|                 |      | 68.0 | 57.0 | 78,154  | 54,568 | 7.51 | 70,518 | 51,617 | 8.87 | 65,260 | 47,671 | 9.10  | 61,794 | 45,823 | 9.66  |
|                 | 3556 | 84.2 | 66.2 | 102,305 | 97,190 | 8.30 | 92,328 | 87,712 | 9.87 | 86,729 | 82,393 | 10.14 | 82,188 | 78,079 | 10.75 |
|                 |      | 80.0 | 67.0 | 103,474 | 68,922 | 8.30 | 93,383 | 65,213 | 9.87 | 87,720 | 67,539 | 10.14 | 83,127 | 64,955 | 10.75 |
|                 |      | 74.0 | 62.0 | 91,186  | 62,374 | 7.90 | 82,278 | 59,001 | 9.39 | 76,801 | 57,671 | 9.65  | 72,757 | 55,453 | 10.23 |
|                 |      | 68.0 | 57.0 | 79,252  | 55,741 | 7.55 | 71,509 | 52,727 | 8.96 | 66,232 | 48,381 | 9.19  | 62,717 | 46,505 | 9.75  |

Note: Capacity in KW= (Btu/hr)\*0.0003. Cooling capacities are gross ratings  
Power Input is Total Power (kW)

## PERFORMANCE DATA TABLES

| Model           | Air On Evaporator |      |          | Condenser Ambient Temperature |         |          |                 |         |          |                 |         |          |                 |         |          |
|-----------------|-------------------|------|----------|-------------------------------|---------|----------|-----------------|---------|----------|-----------------|---------|----------|-----------------|---------|----------|
|                 | Air Flow          |      | Temp ° F | 95° F                         |         |          | 115° F          |         |          | 118.4° F        |         |          | 125° F          |         |          |
|                 | CFM               | 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.    |          |
| NGCF/NGEF-120C2 | 3200              | 84.2 | 66.2     | 119,847                       | 101,870 | 10.24    | 108,950         | 92,607  | 11.91    | 107,078         | 91,016  | 12.20    | 101,715         | 86,458  | 12.93    |
|                 |                   | 80.0 | 67.0     | 122,293                       | 81,130  | 10.25    | 111,173         | 75,733  | 11.92    | 109,263         | 74,814  | 12.21    | 103,791         | 71,823  | 12.94    |
|                 |                   | 74.0 | 62.0     | 107,792                       | 73,448  | 9.69     | 97,991          | 68,562  | 11.27    | 96,307          | 67,731  | 11.54    | 91,484          | 65,023  | 12.23    |
|                 |                   | 68.0 | 57.0     | 93,670                        | 65,623  | 9.38     | 85,152          | 61,258  | 10.81    | 83,688          | 60,515  | 10.99    | 79,497          | 58,096  | 11.73    |
|                 | 3600              | 84.2 | 66.2     | 121,869                       | 108,464 | 10.30    | 110,787         | 98,601  | 11.98    | 108,882         | 96,905  | 12.27    | 103,431         | 92,054  | 13.09    |
|                 |                   | 80.0 | 67.0     | 123,918                       | 82,736  | 10.31    | 112,650         | 77,232  | 11.99    | 110,713         | 76,295  | 12.28    | 105,170         | 73,245  | 13.02    |
|                 |                   | 74.0 | 62.0     | 109,215                       | 74,972  | 9.81     | 99,284          | 69,985  | 11.41    | 97,578          | 69,137  | 11.69    | 92,691          | 66,373  | 12.39    |
|                 |                   | 68.0 | 57.0     | 94,914                        | 66,727  | 9.42     | 86,283          | 62,289  | 10.88    | 84,800          | 61,534  | 11.13    | 80,553          | 59,074  | 11.81    |
|                 | 4010              | 84.2 | 66.2     | 124,244                       | 118,032 | 10.40    | 112,968         | 107,320 | 12.10    | 111,051         | 105,499 | 12.39    | 105,499         | 100,224 | 13.13    |
|                 |                   | 80.0 | 67.0     | 125,664                       | 84,279  | 10.41    | 114,259         | 78,696  | 12.11    | 112,320         | 79,591  | 12.40    | 106,704         | 74,637  | 13.14    |
|                 |                   | 74.0 | 62.0     | 110,741                       | 76,272  | 9.91     | 100,672         | 71,199  | 11.52    | 98,941          | 70,336  | 11.80    | 93,986          | 67,524  | 12.51    |
|                 |                   | 68.0 | 57.0     | 96,248                        | 68,162  | 9.47     | 87,495          | 63,628  | 10.99    | 85,991          | 62,857  | 11.24    | 81,684          | 60,343  | 11.92    |
| NGCF/NGEF-130C2 | 4000              | 84.2 | 66.2     | 131,402                       | 111,692 | 10.46    | 119,346         | 101,444 | 12.55    | 112,084         | 95,271  | 12.91    | 107,241         | 91,155  | 13.68    |
|                 |                   | 80.0 | 67.0     | 134,084                       | 86,247  | 10.47    | 121,782         | 83,828  | 12.56    | 114,371         | 89,254  | 12.92    | 109,430         | 86,786  | 13.69    |
|                 |                   | 74.0 | 62.0     | 118,184                       | 78,080  | 9.89     | 107,342         | 75,891  | 11.87    | 100,182         | 76,288  | 12.21    | 95,951          | 74,264  | 12.94    |
|                 |                   | 68.0 | 57.0     | 102,701                       | 69,762  | 9.57     | 93,277          | 67,806  | 11.39    | 86,361          | 64,020  | 11.63    | 82,822          | 62,411  | 12.41    |
|                 | 4300              | 84.2 | 66.2     | 133,619                       | 118,921 | 10.52    | 121,359         | 108,009 | 12.62    | 114,043         | 101,498 | 12.98    | 109,106         | 97,104  | 13.76    |
|                 |                   | 80.0 | 67.0     | 135,865                       | 87,954  | 10.53    | 123,399         | 85,487  | 12.63    | 115,960         | 90,905  | 12.99    | 110,940         | 88,372  | 13.77    |
|                 |                   | 74.0 | 62.0     | 119,745                       | 79,700  | 10.02    | 108,759         | 77,466  | 12.02    | 101,574         | 77,621  | 12.37    | 97,273          | 75,542  | 13.11    |
|                 |                   | 68.0 | 57.0     | 104,065                       | 70,936  | 9.62     | 94,517          | 68,948  | 11.46    | 87,579          | 65,400  | 11.78    | 83,978          | 63,739  | 12.50    |
|                 | 4750              | 84.2 | 66.2     | 136,223                       | 129,411 | 10.63    | 123,748         | 117,561 | 12.75    | 116,390         | 110,571 | 13.11    | 111,348         | 105,780 | 13.90    |
|                 |                   | 80.0 | 67.0     | 137,779                       | 89,594  | 10.63    | 125,162         | 87,109  | 12.76    | 117,720         | 92,525  | 13.12    | 112,620         | 89,925  | 13.91    |
|                 |                   | 74.0 | 62.0     | 121,418                       | 81,082  | 10.11    | 110,278         | 78,810  | 12.14    | 103,067         | 79,046  | 12.48    | 98,691          | 76,898  | 13.23    |
|                 |                   | 68.0 | 57.0     | 105,527                       | 72,461  | 9.67     | 95,845          | 70,430  | 11.57    | 88,883          | 66,350  | 11.89    | 85,218          | 64,640  | 12.62    |
| NGCF/NGEF-150C2 | 4200              | 84.2 | 66.2     | 146,391                       | 124,433 | 12.25    | 132,970         | 113,025 | 13.80    | 124,880         | 106,148 | 14.07    | 119,859         | 101,880 | 14.91    |
|                 |                   | 80.0 | 67.0     | 149,379                       | 98,781  | 12.26    | 135,684         | 90,935  | 13.81    | 127,429         | 94,937  | 14.08    | 122,305         | 91,879  | 14.92    |
|                 |                   | 74.0 | 62.0     | 131,666                       | 89,427  | 11.59    | 119,596         | 82,325  | 13.05    | 111,620         | 81,126  | 13.30    | 107,287         | 78,622  | 14.10    |
|                 |                   | 68.0 | 57.0     | 114,416                       | 79,901  | 11.22    | 103,926         | 73,555  | 12.52    | 96,221          | 68,062  | 12.67    | 92,659          | 66,079  | 13.53    |
|                 | 4700              | 84.2 | 66.2     | 148,860                       | 132,486 | 12.33    | 135,213         | 120,339 | 13.89    | 127,063         | 113,086 | 14.15    | 121,938         | 108,525 | 14.99    |
|                 |                   | 80.0 | 67.0     | 151,363                       | 100,736 | 12.34    | 137,486         | 92,735  | 13.90    | 129,199         | 96,710  | 14.16    | 123,988         | 93,582  | 15.01    |
|                 |                   | 74.0 | 62.0     | 133,404                       | 91,283  | 11.74    | 121,174         | 84,034  | 13.22    | 113,171         | 82,557  | 13.48    | 108,760         | 79,994  | 14.29    |
|                 |                   | 68.0 | 57.0     | 115,935                       | 81,245  | 11.27    | 105,306         | 74,793  | 12.61    | 97,578          | 69,544  | 12.83    | 93,948          | 67,505  | 13.62    |
|                 | 5100              | 84.2 | 66.2     | 151,762                       | 144,174 | 12.45    | 137,875         | 130,981 | 14.02    | 129,678         | 123,194 | 14.29    | 124,438         | 118,216 | 15.14    |
|                 |                   | 80.0 | 67.0     | 153,496                       | 102,615 | 12.46    | 139,450         | 94,494  | 14.03    | 131,160         | 98,450  | 14.30    | 125,860         | 95,250  | 15.16    |
|                 |                   | 74.0 | 62.0     | 135,268                       | 92,866  | 11.85    | 122,867         | 85,492  | 13.35    | 114,834         | 84,089  | 13.61    | 110,340         | 81,450  | 14.42    |
|                 |                   | 68.0 | 57.0     | 117,565                       | 82,991  | 11.33    | 106,786         | 76,401  | 12.73    | 99,031          | 70,564  | 12.96    | 95,329          | 68,471  | 13.75    |

Note: Capacity in KW= (Btu/hr)\*0.0003. Cooling capacities are gross ratings  
Power Input is Total Power (kW)

## PERFORMANCE DATA TABLES

| Model           | Air On Evaporator |          |      | Condenser Ambient Temperature |         |          |                 |         |          |                 |         |          |                 |         |          |
|-----------------|-------------------|----------|------|-------------------------------|---------|----------|-----------------|---------|----------|-----------------|---------|----------|-----------------|---------|----------|
|                 | Air Flow          | Temp ° F |      | 95° F                         |         |          | 115° F          |         |          | 118.4° F        |         |          | 125° F          |         |          |
|                 | CFM               | 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.    |          |
| NGCF/NGEF-175C2 | 5100              | 84.2     | 66.2 | 169,951                       | 144,458 | 15.25    | 154,370         | 131,214 | 17.19    | 151,693         | 128,939 | 17.50    | 144,096         | 122,482 | 18.56    |
|                 |                   | 80.0     | 67.0 | 173,419                       | 122,132 | 15.28    | 157,520         | 112,431 | 17.22    | 154,789         | 110,780 | 17.54    | 147,037         | 106,351 | 18.60    |
|                 |                   | 74.0     | 62.0 | 152,855                       | 110,567 | 14.44    | 138,843         | 101,786 | 16.27    | 136,435         | 100,292 | 16.58    | 129,602         | 96,282  | 17.57    |
|                 |                   | 68.0     | 57.0 | 132,829                       | 98,788  | 14.05    | 120,651         | 90,943  | 15.60    | 118,558         | 89,608  | 15.79    | 112,621         | 86,026  | 16.86    |
|                 | 5700              | 84.2     | 66.2 | 172,818                       | 153,808 | 15.34    | 156,973         | 139,706 | 17.29    | 154,290         | 137,318 | 17.61    | 146,528         | 130,410 | 18.67    |
|                 |                   | 80.0     | 67.0 | 175,723                       | 124,549 | 15.37    | 159,612         | 114,657 | 17.32    | 156,844         | 112,973 | 17.65    | 148,991         | 108,457 | 18.71    |
|                 |                   | 74.0     | 62.0 | 154,874                       | 112,861 | 14.63    | 140,675         | 103,899 | 16.48    | 138,235         | 102,374 | 16.79    | 131,312         | 98,281  | 17.80    |
|                 |                   | 68.0     | 57.0 | 134,593                       | 100,451 | 13.98    | 122,254         | 92,474  | 15.71    | 120,133         | 91,116  | 15.99    | 114,116         | 87,473  | 16.97    |
|                 | 6282              | 84.2     | 66.2 | 176,185                       | 167,376 | 15.49    | 160,053         | 152,051 | 17.46    | 157,322         | 149,456 | 18.35    | 149,456         | 141,983 | 18.85    |
|                 |                   | 80.0     | 67.0 | 178,198                       | 126,873 | 15.52    | 161,892         | 116,831 | 17.49    | 159,120         | 114,795 | 18.39    | 151,164         | 110,519 | 18.89    |
|                 |                   | 74.0     | 62.0 | 157,037                       | 114,819 | 14.77    | 142,640         | 105,701 | 16.64    | 140,167         | 104,150 | 16.96    | 133,147         | 99,985  | 17.97    |
|                 |                   | 68.0     | 57.0 | 136,485                       | 102,610 | 14.11    | 123,971         | 94,462  | 15.86    | 121,821         | 93,075  | 16.15    | 115,719         | 89,353  | 17.13    |

|                 |      |      |      |         |         |       |         |         |       |         |         |       |         |         |       |
|-----------------|------|------|------|---------|---------|-------|---------|---------|-------|---------|---------|-------|---------|---------|-------|
| NGCF/NGEF-200C2 | 6000 | 84.2 | 66.2 | 192,786 | 163,868 | 17.06 | 175,111 | 148,845 | 19.21 | 172,075 | 146,264 | 19.58 | 163,458 | 138,939 | 20.76 |
|                 |      | 80.0 | 67.0 | 196,720 | 142,871 | 17.09 | 178,685 | 131,523 | 19.25 | 175,587 | 129,592 | 19.62 | 166,794 | 124,410 | 20.80 |
|                 |      | 74.0 | 62.0 | 173,394 | 129,343 | 16.15 | 157,498 | 119,070 | 18.19 | 154,767 | 117,322 | 18.54 | 147,016 | 112,631 | 19.65 |
|                 |      | 68.0 | 57.0 | 150,677 | 115,563 | 15.71 | 136,862 | 106,386 | 17.45 | 134,487 | 104,824 | 17.66 | 127,753 | 100,634 | 18.85 |
|                 | 6300 | 84.2 | 66.2 | 196,037 | 174,473 | 17.16 | 178,064 | 158,477 | 19.33 | 174,976 | 155,729 | 19.70 | 166,216 | 147,932 | 20.88 |
|                 |      | 80.0 | 67.0 | 199,333 | 145,698 | 17.19 | 181,058 | 134,126 | 19.37 | 177,918 | 130,157 | 19.74 | 169,010 | 126,874 | 20.92 |
|                 |      | 74.0 | 62.0 | 175,683 | 132,026 | 16.36 | 159,577 | 121,542 | 18.43 | 156,809 | 119,758 | 18.78 | 148,956 | 114,970 | 19.91 |
|                 |      | 68.0 | 57.0 | 152,678 | 117,508 | 15.63 | 138,680 | 108,176 | 17.57 | 136,275 | 106,588 | 17.89 | 129,449 | 102,326 | 18.98 |
|                 | 6728 | 84.2 | 66.2 | 199,858 | 189,865 | 17.33 | 181,570 | 172,492 | 19.52 | 176,661 | 167,828 | 20.58 | 169,538 | 161,061 | 21.09 |
|                 |      | 80.0 | 67.0 | 202,142 | 148,417 | 17.36 | 183,645 | 136,670 | 19.56 | 178,680 | 131,315 | 20.62 | 171,475 | 129,286 | 21.13 |
|                 |      | 74.0 | 62.0 | 178,138 | 134,316 | 16.52 | 161,806 | 123,650 | 18.61 | 159,000 | 121,835 | 18.96 | 151,037 | 116,964 | 20.10 |
|                 |      | 68.0 | 57.0 | 154,823 | 120,034 | 15.79 | 140,628 | 110,502 | 17.74 | 138,189 | 108,880 | 18.06 | 131,268 | 104,526 | 19.16 |

|                 |      |      |      |         |         |       |         |         |       |         |         |       |         |         |       |
|-----------------|------|------|------|---------|---------|-------|---------|---------|-------|---------|---------|-------|---------|---------|-------|
| NGCF/NGEF-240C2 | 7000 | 84.2 | 66.2 | 184,201 | 156,571 | 19.29 | 168,567 | 143,282 | 22.81 | 163,174 | 138,698 | 23.41 | 157,571 | 133,936 | 24.82 |
|                 |      | 80.0 | 67.0 | 232,391 | 165,038 | 19.33 | 211,070 | 143,148 | 22.86 | 201,196 | 151,919 | 23.46 | 187,360 | 128,055 | 24.87 |
|                 |      | 74.0 | 62.0 | 204,834 | 149,410 | 18.27 | 186,042 | 129,595 | 21.60 | 176,604 | 130,132 | 22.17 | 163,998 | 109,067 | 23.50 |
|                 |      | 68.0 | 57.0 | 177,998 | 133,493 | 17.68 | 161,666 | 115,789 | 20.72 | 152,649 | 109,508 | 21.12 | 141,244 | 91,155  | 22.54 |
|                 | 7500 | 84.2 | 66.2 | 187,308 | 166,704 | 19.41 | 171,409 | 152,554 | 22.95 | 165,961 | 147,705 | 23.55 | 160,229 | 142,604 | 24.97 |
|                 |      | 80.0 | 67.0 | 235,477 | 168,304 | 19.45 | 213,872 | 145,981 | 23.00 | 203,950 | 154,679 | 23.60 | 189,977 | 130,705 | 25.02 |
|                 |      | 74.0 | 62.0 | 207,539 | 152,510 | 18.51 | 188,498 | 132,285 | 21.88 | 179,016 | 132,358 | 22.46 | 166,290 | 111,205 | 23.81 |
|                 |      | 68.0 | 57.0 | 180,362 | 135,739 | 17.77 | 163,814 | 117,738 | 20.86 | 154,760 | 111,824 | 21.39 | 143,248 | 93,365  | 22.70 |
|                 | 8000 | 84.2 | 66.2 | 190,958 | 181,410 | 19.60 | 174,784 | 166,045 | 23.17 | 169,305 | 160,840 | 24.02 | 163,433 | 155,261 | 25.21 |
|                 |      | 80.0 | 67.0 | 238,795 | 171,444 | 19.64 | 216,928 | 148,750 | 23.22 | 207,000 | 157,386 | 24.07 | 192,890 | 133,300 | 25.26 |
|                 |      | 74.0 | 62.0 | 210,438 | 155,156 | 18.68 | 191,131 | 134,579 | 22.09 | 181,604 | 134,744 | 22.67 | 168,748 | 113,474 | 24.03 |
|                 |      | 68.0 | 57.0 | 182,897 | 138,657 | 17.85 | 166,115 | 120,269 | 21.06 | 157,021 | 113,408 | 21.59 | 145,396 | 94,874  | 22.91 |

Note: Capacity in KW= (Btu/hr)\*0.0003. Cooling capacities are gross ratings  
Power Input is Total Power (kW)

## PERFORMANCE DATA TABLES

| Model           | Air On Evaporator |      |          | Condenser Ambient Temperature |         |          |  |                 |         |          |  |                 |         |          |  |
|-----------------|-------------------|------|----------|-------------------------------|---------|----------|--|-----------------|---------|----------|--|-----------------|---------|----------|--|
|                 | Air Flow          |      | Temp ° F | 95° F                         |         |          |  | 115° F          |         |          |  | 118.4° F        |         |          |  |
|                 | CFM               | DB   | WB       | Capacity Btu/Hr               |         | kw Input |  | Capacity Btu/Hr |         | kw Input |  | Capacity Btu/Hr |         | kw Input |  |
|                 |                   |      |          | Total                         | Sen.    |          |  | Total           | Sen.    |          |  | Total           | Sen.    |          |  |
| NGCF/NGEF-270C2 | 8000              | 84.2 | 66.2     | 256,335                       | 217,884 | 20.73    |  | 238,200         | 202,470 | 26.26    |  | 228,034         | 193,829 | 27.20    |  |
|                 |                   | 80.0 | 67.0     | 261,566                       | 170,752 | 20.81    |  | 243,061         | 155,997 | 26.37    |  | 232,688         | 159,220 | 27.31    |  |
|                 |                   | 74.0 | 62.0     | 230,550                       | 154,583 | 19.66    |  | 214,240         | 141,227 | 24.91    |  | 204,246         | 136,215 | 25.81    |  |
|                 |                   | 68.0 | 57.0     | 200,345                       | 138,115 | 19.03    |  | 186,169         | 126,182 | 23.90    |  | 181,542         | 120,960 | 24.58    |  |
|                 | 8300              | 84.2 | 66.2     | 260,658                       | 231,986 | 20.85    |  | 242,157         | 215,520 | 26.41    |  | 231,973         | 206,456 | 27.36    |  |
|                 |                   | 80.0 | 67.0     | 265,040                       | 174,131 | 20.93    |  | 246,288         | 159,085 | 26.52    |  | 235,873         | 162,257 | 27.47    |  |
|                 |                   | 74.0 | 62.0     | 233,594                       | 157,791 | 19.92    |  | 217,068         | 144,159 | 25.24    |  | 207,036         | 138,665 | 26.14    |  |
|                 |                   | 68.0 | 57.0     | 203,005                       | 140,439 | 19.13    |  | 188,643         | 128,306 | 24.06    |  | 178,983         | 117,013 | 24.90    |  |
|                 | 8700              | 84.2 | 66.2     | 265,738                       | 252,451 | 21.06    |  | 246,985         | 234,636 | 26.67    |  | 236,695         | 224,861 | 27.91    |  |
|                 |                   | 80.0 | 67.0     | 268,774                       | 177,379 | 21.14    |  | 249,807         | 162,102 | 26.78    |  | 239,400         | 165,238 | 28.02    |  |
|                 |                   | 74.0 | 62.0     | 236,857                       | 160,527 | 20.11    |  | 220,100         | 146,659 | 25.48    |  | 210,029         | 141,297 | 26.40    |  |
|                 |                   | 68.0 | 57.0     | 205,858                       | 143,458 | 19.22    |  | 191,293         | 131,064 | 24.29    |  | 181,598         | 118,761 | 25.13    |  |
| NGCF/NGEF-300C2 | 8200              | 84.2 | 66.2     | 280,590                       | 238,501 | 23.75    |  | 262,776         | 223,360 | 28.58    |  | 251,924         | 214,135 | 29.39    |  |
|                 |                   | 80.0 | 67.0     | 286,316                       | 204,178 | 23.85    |  | 268,139         | 186,085 | 28.69    |  | 257,065         | 164,780 | 29.51    |  |
|                 |                   | 74.0 | 62.0     | 252,365                       | 184,844 | 22.54    |  | 236,345         | 168,466 | 27.11    |  | 225,644         | 140,415 | 27.89    |  |
|                 |                   | 68.0 | 57.0     | 219,302                       | 165,152 | 21.82    |  | 205,378         | 150,519 | 26.01    |  | 195,037         | 117,468 | 26.57    |  |
|                 | 8700              | 84.2 | 66.2     | 285,323                       | 253,938 | 23.89    |  | 267,207         | 237,814 | 28.74    |  | 256,275         | 228,084 | 29.57    |  |
|                 |                   | 80.0 | 67.0     | 290,120                       | 208,219 | 23.99    |  | 271,699         | 189,767 | 28.86    |  | 260,583         | 168,402 | 29.69    |  |
|                 |                   | 74.0 | 62.0     | 255,698                       | 188,680 | 22.83    |  | 239,464         | 171,963 | 27.47    |  | 228,726         | 143,338 | 28.26    |  |
|                 |                   | 68.0 | 57.0     | 222,215                       | 167,931 | 21.93    |  | 208,106         | 153,052 | 26.19    |  | 197,734         | 120,503 | 26.91    |  |
|                 | 9400              | 84.2 | 66.2     | 290,883                       | 276,339 | 24.13    |  | 272,468         | 258,844 | 29.02    |  | 261,492         | 248,418 | 30.16    |  |
|                 |                   | 80.0 | 67.0     | 294,207                       | 212,103 | 24.23    |  | 275,581         | 193,366 | 29.14    |  | 264,480         | 171,955 | 30.28    |  |
|                 |                   | 74.0 | 62.0     | 259,270                       | 191,952 | 23.05    |  | 242,809         | 174,946 | 27.73    |  | 232,032         | 146,484 | 28.53    |  |
|                 |                   | 68.0 | 57.0     | 225,337                       | 171,541 | 22.03    |  | 211,030         | 156,343 | 26.44    |  | 200,623         | 122,591 | 27.16    |  |
| NGCF/NGEF-320C2 | 9000              | 84.2 | 66.2     | 299,918                       | 254,930 | 25.31    |  | 280,877         | 238,745 | 30.72    |  | 265,300         | 225,505 | 31.63    |  |
|                 |                   | 80.0 | 67.0     | 306,039                       | 217,124 | 25.41    |  | 286,609         | 199,540 | 30.84    |  | 270,714         | 175,375 | 31.76    |  |
|                 |                   | 74.0 | 62.0     | 269,749                       | 196,564 | 24.01    |  | 252,625         | 180,648 | 29.14    |  | 237,129         | 149,158 | 30.01    |  |
|                 |                   | 68.0 | 57.0     | 234,409                       | 175,624 | 23.24    |  | 219,525         | 161,403 | 27.95    |  | 204,413         | 124,471 | 28.59    |  |
|                 | 9400              | 84.2 | 66.2     | 304,977                       | 271,429 | 25.46    |  | 285,613         | 254,196 | 30.90    |  | 269,937         | 240,244 | 31.82    |  |
|                 |                   | 80.0 | 67.0     | 310,104                       | 221,421 | 25.56    |  | 290,415         | 203,489 | 31.02    |  | 274,475         | 179,265 | 31.95    |  |
|                 |                   | 74.0 | 62.0     | 273,311                       | 200,643 | 24.32    |  | 255,959         | 184,397 | 29.52    |  | 240,423         | 152,296 | 30.40    |  |
|                 |                   | 68.0 | 57.0     | 237,522                       | 178,579 | 23.35    |  | 222,441         | 164,120 | 28.14    |  | 207,296         | 127,717 | 28.95    |  |
|                 | 9987              | 84.2 | 66.2     | 310,920                       | 295,374 | 25.71    |  | 291,236         | 276,674 | 31.19    |  | 275,492         | 261,718 | 32.13    |  |
|                 |                   | 80.0 | 67.0     | 314,473                       | 225,552 | 25.81    |  | 294,564         | 207,349 | 31.32    |  | 278,640         | 183,081 | 32.26    |  |
|                 |                   | 74.0 | 62.0     | 277,130                       | 204,123 | 24.56    |  | 259,535         | 187,596 | 29.80    |  | 243,957         | 155,671 | 30.70    |  |
|                 |                   | 68.0 | 57.0     | 240,859                       | 182,418 | 23.46    |  | 225,566         | 167,648 | 28.41    |  | 210,384         | 129,965 | 29.23    |  |

Note: Capacity in KW= (Btu/hr)\*0.0003. Cooling capacities are gross ratings  
Power Input is Total Power (kW)

## PERFORMANCE DATA TABLES

| Model           | Air On Evaporator |      |          | Condenser Ambient Temperature |         |          |                 |         |          |                 |         |          |                 |         |          |
|-----------------|-------------------|------|----------|-------------------------------|---------|----------|-----------------|---------|----------|-----------------|---------|----------|-----------------|---------|----------|
|                 | Air Flow          |      | Temp ° F | 95° F                         |         |          | 115° F          |         |          | 118.4° F        |         |          | 125° F          |         |          |
|                 | CFM               | 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.    |          |
| NGCF/NGEF-340C2 | 9400              | 84.2 | 66.2     | 313,609                       | 266,567 | 26.93    | 293,699         | 249,644 | 32.33    | 277,411         | 235,799 | 33.25    | 263,879         | 224,297 | 35.25    |
|                 |                   | 80.0 | 67.0     | 320,009                       | 224,318 | 27.04    | 299,693         | 213,065 | 32.46    | 283,072         | 180,138 | 33.38    | 269,264         | 171,696 | 35.39    |
|                 |                   | 74.0 | 62.0     | 282,063                       | 203,077 | 25.55    | 264,157         | 192,891 | 30.68    | 247,954         | 152,998 | 31.55    | 235,903         | 145,815 | 33.44    |
|                 |                   | 68.0 | 57.0     | 245,109                       | 181,443 | 24.73    | 229,546         | 172,342 | 29.43    | 213,745         | 127,477 | 30.05    | 203,409         | 121,485 | 32.08    |
|                 | 9800              | 84.2 | 66.2     | 318,899                       | 283,820 | 27.09    | 298,651         | 265,800 | 32.53    | 282,309         | 251,255 | 33.45    | 268,488         | 238,955 | 35.46    |
|                 |                   | 80.0 | 67.0     | 324,260                       | 228,757 | 27.20    | 303,672         | 217,282 | 32.66    | 287,005         | 184,317 | 33.58    | 273,002         | 175,710 | 35.60    |
|                 |                   | 74.0 | 62.0     | 285,787                       | 207,291 | 25.89    | 267,643         | 196,895 | 31.08    | 251,398         | 156,369 | 31.96    | 239,175         | 149,052 | 33.88    |
|                 |                   | 68.0 | 57.0     | 248,364                       | 184,496 | 24.86    | 232,596         | 175,243 | 29.63    | 216,760         | 130,963 | 30.43    | 206,271         | 124,834 | 32.30    |
|                 | 10300             | 84.2 | 66.2     | 32,5114                       | 308,858 | 27.36    | 304,530         | 289,304 | 32.84    | 288,068         | 273,665 | 33.77    | 274,029         | 260,327 | 35.80    |
|                 |                   | 80.0 | 67.0     | 328,829                       | 233,025 | 27.47    | 308,010         | 221,402 | 32.97    | 291,360         | 188,418 | 33.91    | 277,160         | 179,640 | 35.94    |
|                 |                   | 74.0 | 62.0     | 289,780                       | 210,886 | 26.13    | 271,383         | 200,311 | 31.37    | 255,093         | 160,000 | 32.27    | 242,685         | 152,504 | 34.20    |
|                 |                   | 68.0 | 57.0     | 251,854                       | 188,462 | 24.97    | 235,863         | 179,011 | 29.91    | 219,989         | 133,383 | 30.73    | 209,338         | 127,125 | 32.61    |

Note: Capacity in KW= (Btu/hr)\*0.0003. Cooling capacities are gross ratings  
Power Input is Total Power (kW)

## UNIT ELECTRICAL DATA

| Outdoor Units                      |             | NGCF-076 | NGCF-090 | NGCF-100 | NGCF-120   | NGCF-130     | NGCF-150     |
|------------------------------------|-------------|----------|----------|----------|------------|--------------|--------------|
| Unit Power Supply                  | Volt        | 415      |          |          |            |              |              |
|                                    | Phase       | 3        |          |          |            |              |              |
|                                    | Hz          | 50       |          |          |            |              |              |
| Compressor                         | V - Ph - Hz | 415-3-50 |          |          |            |              |              |
|                                    | RLA         | 13.6     | 14.5     | 16.4     | 17.9       | 20.8         | 13.6 each    |
|                                    | LRA         | 100      | 100      | 128      | 139        | 144          | 100 each     |
| Condenser Fan Motor                | V - Ph - Hz | 415-3-50 |          |          |            |              |              |
|                                    | kW (hp)     | 0.75 (1) | 0.75 (1) | 0.75 (1) | 1.12 (1.5) | 2x0.56 (3/4) | 2x1.12 (1.5) |
|                                    | FLA         | 2.43     | 2.43     | 2.43     | 3          | 1.6 each     | 3 each       |
| Unit Ampacity, Ampere              |             | 19.4     | 20.6     | 22.9     | 25.4       | 29.2         | 36.6         |
| Max. Fuse Size, Ampere             |             | 30       | 35       | 35       | 40         | 50           | 50           |
| Minimum Wire Size, mm <sup>2</sup> |             | 4        | 6        | 6        | 6          | 10           | 16           |

| Indoor Units                       |             | NGEF-076 | NGEF-090 | NGEF-100 | NGEF-120 | NGEF-130 | NGEF-150 |
|------------------------------------|-------------|----------|----------|----------|----------|----------|----------|
| Unit Power Supply                  | Volt        | 415      |          |          |          |          |          |
|                                    | Phase       | 3        |          |          |          |          |          |
|                                    | Hz          | 50       |          |          |          |          |          |
| Blower Motor                       | V - Ph - Hz | 415-3-50 |          |          |          |          |          |
|                                    | kW (hp)     | 0.75 (1) | 1.5 (2)  | 1.5 (2)  | 1.5 (2)  | 1.5 (2)  | 2.24 (3) |
|                                    | FLA         | 2.4      | 2.4      | 4.3      | 4.3      | 4.3      | 4.6      |
| Max. Fuse Size, Ampere             |             | 5        | 5        | 10       | 10       | 10       | 10       |
| Minimum Wire Size, mm <sup>2</sup> |             | 2.5      | 2.5      | 2.5      | 2.5      | 2.5      | 2.5      |

| Outdoor Units                      |             | NGCF-175     | NGCF-200     | NGCF-240     | NGCF-270     | NGCF-300     | NGCF-320     | NGCF-340  |
|------------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------|
| Unit Power Supply                  | Volt        | 415          |              |              |              |              |              |           |
|                                    | Phase       | 3            |              |              |              |              |              |           |
|                                    | Hz          | 50           |              |              |              |              |              |           |
| Compressor                         | V - Ph - Hz | 415-3-50     |              |              |              |              |              |           |
|                                    | RLA         | 14.5/13.6    | 14.5 each    | 17.9 each    | 20.8/17.9    | 20.8 each    | 24.3 each    | 27.9/24.3 |
|                                    | LRA         | 101/100      | 100 each     | 139 each     | 144/139      | 144 each     | 140 each     | 173/140   |
| Condenser Fan Motor                | V - Ph - Hz | 415-3-50     |              |              |              |              |              |           |
|                                    | kW (hp)     | 2x 1.12(1.5) | 2x 1.12(1.5) | 2x 1.10(1.5) | 2x 1.10(1.5) | 2x 1.10(1.5) | 2x 1.10(1.5) | 2x 1.5(2) |
|                                    | FLA         | 3 each       | 3 each       | 3 each       | 3 each       | 3 each       | 3 each       | 3.8 each  |
| Unit Ampacity, Ampere              |             | 37.7         | 38.6         | 46.3         | 49.9         | 52.8         | 60.7         | 66.8      |
| Max. Fuse Size, Ampere             |             | 50           | 50           | 60           | 70           | 70           | 80           | 90        |
| Minimum Wire Size, mm <sup>2</sup> |             | 16           | 16           | 16           | 16           | 25           | 25           | 30        |

| Indoor Units                       |             | NGEF-175 | NGEF-200 | NGEF-240 | NGEF-270 | NGEF-300 | NGEF-320 | NGEF-340 |
|------------------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|
| Unit Power Supply                  | Volt        | 415      |          |          |          |          |          |          |
|                                    | Phase       | 3        |          |          |          |          |          |          |
|                                    | Hz          | 50       |          |          |          |          |          |          |
| Blower Motor                       | V - Ph - Hz | 415-3-50 |          |          |          |          |          |          |
|                                    | kW (hp)     | 3.7(5.0) | 3.7(5.0) | 3.7(5.0) | 3.7(5.0) | 5.6(7.5) | 5.6(7.5) | 5.6(7.5) |
|                                    | FLA         | 7.2      | 7.2      | 7.2      | 7.2      | 10.7     | 10.7     | 10.7     |
| Max. Fuse Size, Ampere             |             | 15       | 15       | 16       | 16       | 20       | 20       | 20       |
| Minimum Wire Size, mm <sup>2</sup> |             | 2.5      | 2.5      | 2.5      | 2.5      | 2.5      | 2.5      | 2.5      |

## LEGEND:

- FLA - Full Load Amps
- RLA - Rated Load Amps
- LRA - Locked Rotor Amps

## FAN PERFORMANCE

| 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  |
| NGEF-076 | 2200 | 770                              | 0.55 | 810  | 0.60 | 848  | 0.64 | 886  | 0.70 | 923  | 0.75 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|          | 2400 | 776                              | 0.63 | 814  | 0.67 | 851  | 0.72 | 887  | 0.78 | 922  | 0.83 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|          | 2621 | 784                              | 0.71 | 821  | 0.76 | 856  | 0.82 | 891  | 0.87 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| NGEF-090 | 2600 | 632                              | 0.64 | 668  | 0.70 | 703  | 0.77 | 736  | 0.85 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|          | 2800 | 632                              | 0.69 | 666  | 0.76 | 700  | 0.84 | 732  | 0.91 | 764  | 0.99 | 795  | 1.06 | -    | -    | -    | -    | -    | -    | -    | -    |
|          | 2950 | 632                              | 0.74 | 665  | 0.81 | 698  | 0.88 | 730  | 0.96 | 762  | 1.04 | 792  | 1.12 | 822  | 1.20 | 851  | 1.28 | -    | -    | -    | -    |
| NGEF-100 | 2800 | 632                              | 0.69 | 666  | 0.76 | 700  | 0.84 | 732  | 0.91 | 764  | 0.99 | 795  | 1.06 | -    | -    | -    | -    | -    | -    | -    | -    |
|          | 3200 | 634                              | 0.82 | 666  | 0.90 | 698  | 0.97 | 729  | 1.05 | 759  | 1.13 | 789  | 1.22 | 818  | 1.30 | 846  | 1.39 | 874  | 1.47 | 901  | 1.56 |
|          | 3556 | 641                              | 0.98 | 672  | 1.06 | 702  | 1.14 | 731  | 1.22 | 760  | 1.31 | 788  | 1.39 | 815  | 1.48 | 842  | 1.57 | 869  | 1.66 | 895  | 1.76 |

| 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  |
| NGEF-120 | 3200 | 708                              | 0.84 | 738  | 1.00 | 798  | 1.15 | 857  | 1.34 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
|          | 3600 | 713                              | 1.06 | 742  | 1.14 | 798  | 1.30 | 853  | 1.47 | 906  | 1.66 | 957  | 1.86 | 1008 | 2.06 | -    | -    | -    | -    | -    | -    |
|          | 4010 | 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 |
| NGEF-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  | 2.23 | 1000 | 2.44 | 1045 | 2.65 | 1089 | 2.87 | 1132 | 3.10 |
|          | 4750 | 740                              | 1.61 | 766  | 1.70 | 818  | 1.89 | 866  | 2.09 | 913  | 2.29 | 958  | 2.49 | 1002 | 2.71 | 1045 | 2.92 | 1087 | 3.15 | 1128 | 3.38 |
| NGEF-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 |
|          | 4700 | 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 |
|          | 5100 | 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 |
| NGEF-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 |
|          | 6282 | 902                              | 2.66 | 930  | 2.78 | 986  | 3.04 | 1041 | 3.28 | 1093 | 3.54 | 1145 | 3.80 | 1194 | 4.06 | 1242 | 4.32 | 1289 | 4.58 | 1335 | 4.82 |
| NGEF-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 |
|          | 6300 | 902                              | 2.66 | 930  | 2.78 | 986  | 3.04 | 1041 | 3.28 | 1093 | 3.54 | 1145 | 3.80 | 1194 | 4.06 | 1242 | 4.32 | 1289 | 4.58 | 1335 | 4.82 |
|          | 6728 | 921                              | 3.02 | 949  | 3.16 | 1002 | 3.42 | 1054 | 3.70 | 1105 | 3.98 | 1155 | 4.24 | 1203 | 4.52 | 1250 | 4.80 | 1296 | 5.06 | 1341 | 5.34 |

See Note on pg. 18

## FAN PERFORMANCE

| 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  |
| NGEF-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 |
|          | 8000 | 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 |
| NGEF-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  | 3.16 | 844  | 3.76 | 893  | 4.14 | 941  | 4.56 | 983  | 4.98 | 1033 | 5.40 | 1078 | 5.84 | 1121 | 6.30 |
|          | 8700 | 742                              | 3.12 | 769  | 3.30 | 795  | 3.48 | 845  | 3.88 | 894  | 4.28 | 941  | 4.68 | 987  | 5.12 | 1032 | 5.54 | 1076 | 6.00 | 1119 | 6.44 |

| 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  |
| NGEF-300 | 8200  | 739                              | 2.94 | 766  | 3.12 | 792  | 3.32 | 843  | 3.70 | 893  | 4.08 | 941  | 4.50 | 988  | 4.90 | 1034 | 5.34 | 1078 | 5.78 | 1122 | 6.22 |
|          | 8700  | 742                              | 3.12 | 769  | 3.30 | 795  | 3.48 | 845  | 3.88 | 894  | 4.28 | 941  | 4.68 | 987  | 5.12 | 1032 | 5.54 | 1076 | 6.00 | 1119 | 6.44 |
|          | 9400  | 753                              | 3.68 | 779  | 3.88 | 804  | 4.08 | 852  | 4.48 | 899  | 4.90 | 944  | 5.34 | 988  | 5.78 | 1031 | 6.24 | 1073 | 6.70 | 1114 | 7.18 |
| NGEF-320 | 9000  | 748                              | 3.42 | 774  | 3.62 | 799  | 3.80 | 849  | 4.20 | 896  | 4.62 | 942  | 5.04 | 987  | 5.46 | 1031 | 5.92 | 1074 | 6.38 | 1116 | 6.84 |
|          | 9400  | 753                              | 3.68 | 779  | 3.88 | 804  | 4.08 | 852  | 4.48 | 899  | 4.90 | 944  | 5.34 | 988  | 5.78 | 1031 | 6.24 | 1073 | 6.70 | 1114 | 7.18 |
|          | 9987  | 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 |
| NGEF-340 | 9400  | 753                              | 3.68 | 779  | 3.88 | 804  | 4.08 | 852  | 4.48 | 899  | 4.90 | 944  | 5.34 | 988  | 5.78 | 1031 | 6.24 | 1073 | 6.70 | 1114 | 7.18 |
|          | 9800  | 759                              | 3.96 | 785  | 4.16 | 809  | 4.36 | 857  | 4.78 | 902  | 5.22 | 947  | 5.66 | 990  | 6.10 | 1032 | 6.56 | 1073 | 7.04 | 1114 | 7.52 |
|          | 10300 | 766                              | 4.18 | 790  | 4.46 | 814  | 4.64 | 861  | 5.10 | 906  | 5.54 | 950  | 6.00 | 992  | 6.46 | 1034 | 6.92 | 1074 | 7.40 | 1114 | 7.90 |

## LEGEND:

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

Note:

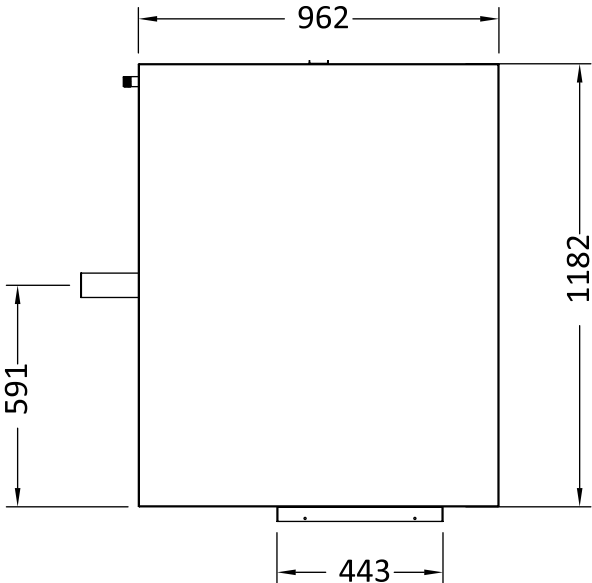
1. Internal Static pressure is based on pressure drops through evaporator coil, fan casing and 2" washable filters.
2. Blue shaded area indicates the operating range of a standard motor and drive combination.
3. Green shaded area indicates the operating range of a standard motor with non standard drive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

## UNIT DIMENSIONS

### Indoor Unit:

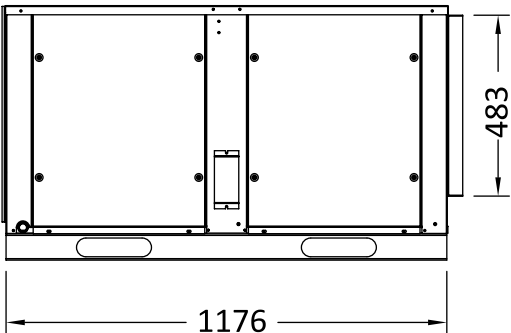
#### NGEF-076

ALL DIMENSIONS ARE IN MM

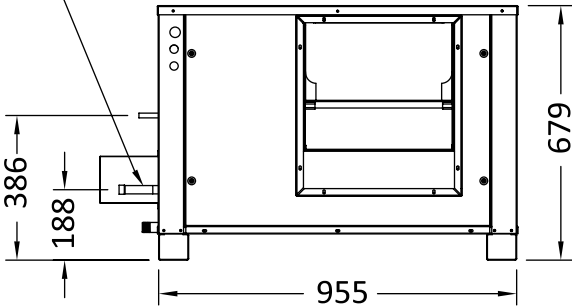


TOP VIEW

Ø22.2 SUCTION CONN.  
 Ø12.7 LIQUID CONN.  
 Ø27 DRAIN CONN.



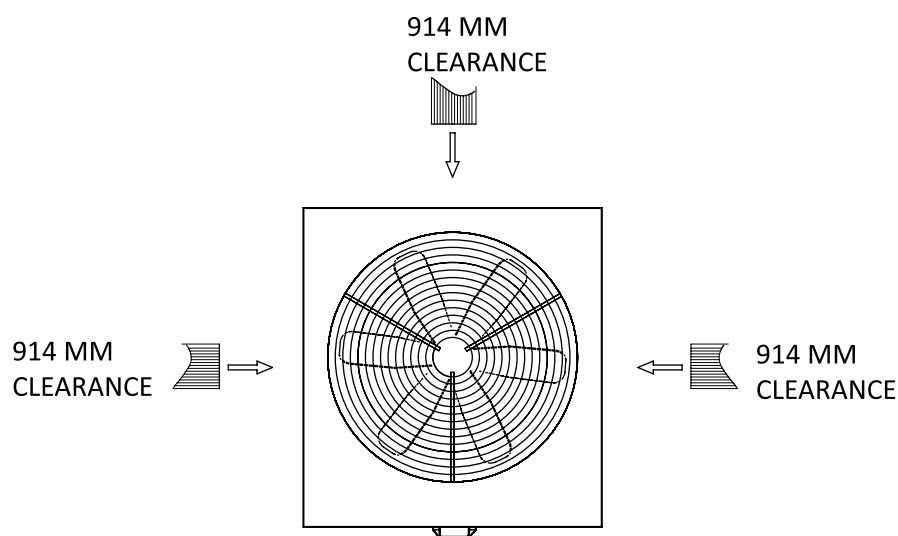
SIDE VIEW



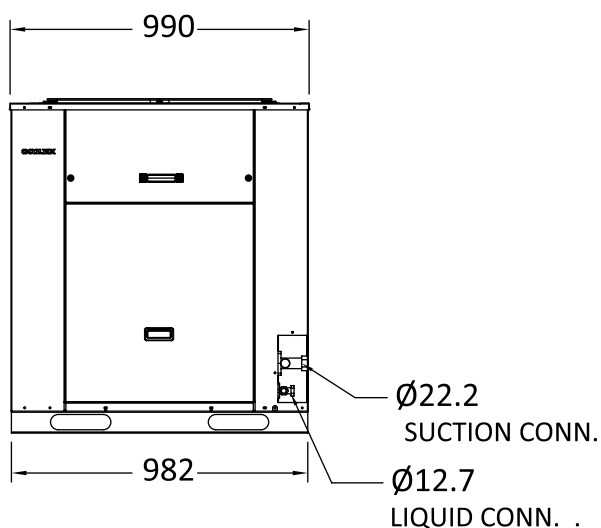
FRONT VIEW

## UNIT DIMENSIONS

### Outdoor Units:



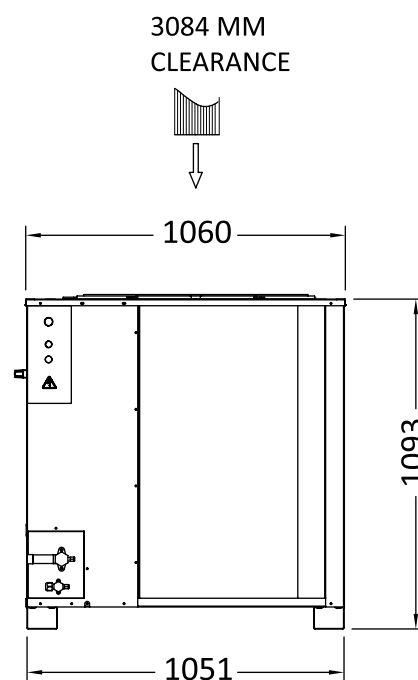
TOP VIEW



SIDE VIEW

### NGCF-076

ALL DIMENSIONS ARE IN MM



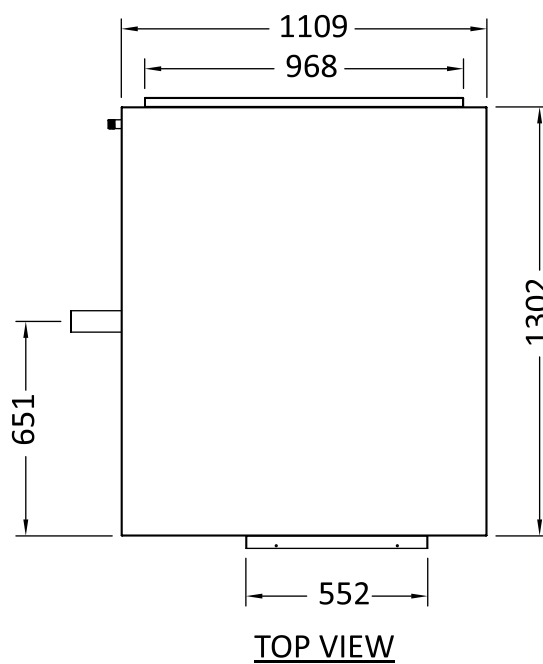
FRONT VIEW

## UNIT DIMENSIONS

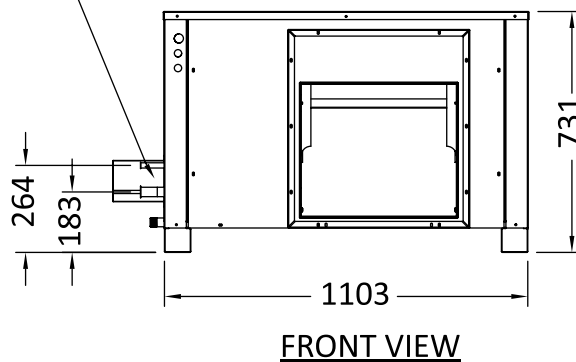
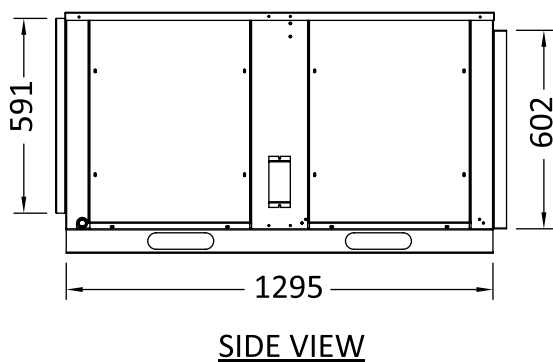
### Indoor Unit:

#### NGEF-090

ALL DIMENSIONS ARE IN MM

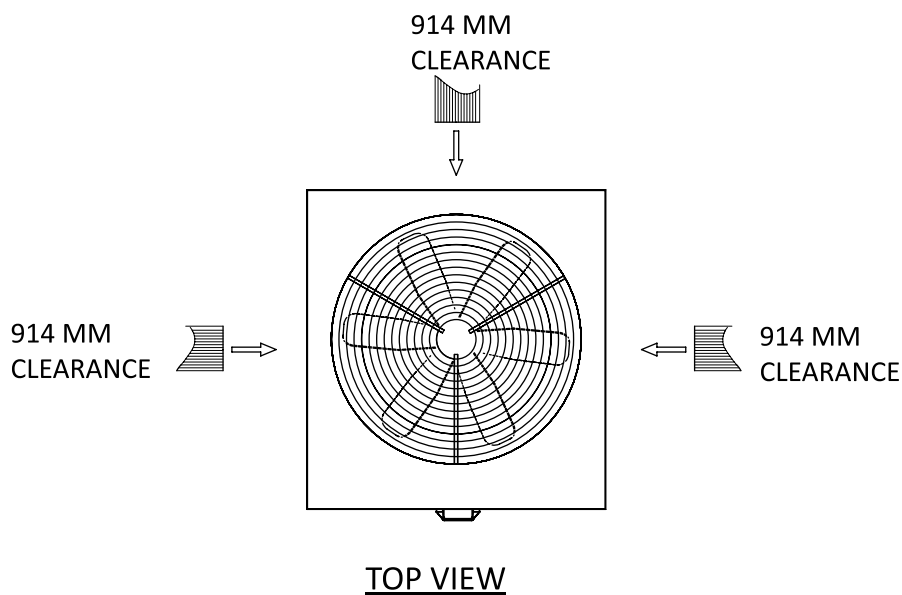


Ø28.6 SUCTION CONN.  
Ø15.9 LIQUID CONN.  
Ø27.0 DRAIN CONN.



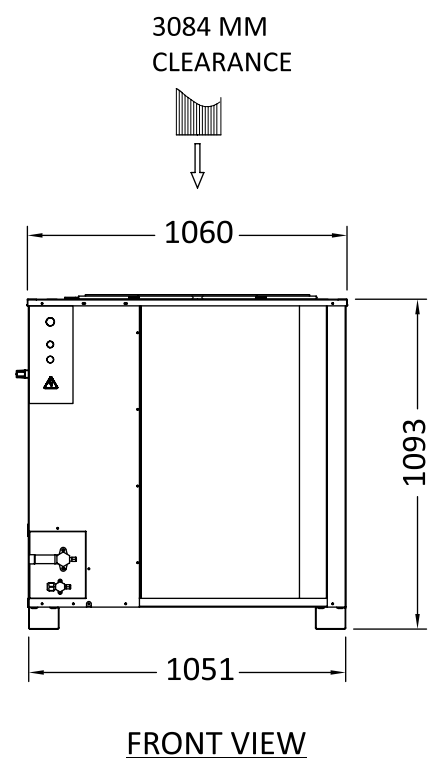
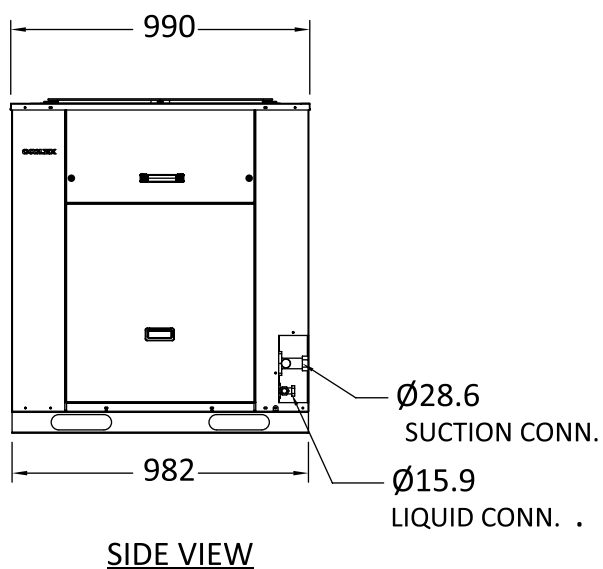
## UNIT DIMENSIONS

### Outdoor Units:



### NGCF-090

ALL DIMENSIONS ARE IN MM

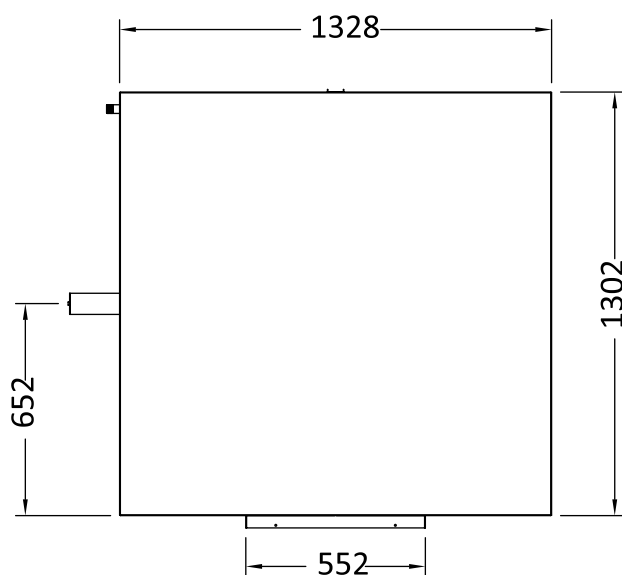


## UNIT DIMENSIONS

### Indoor Units:

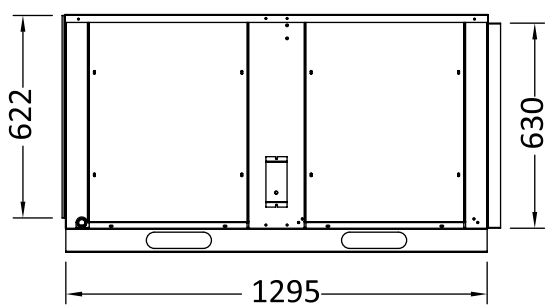
#### NGEF-100/120

ALL DIMENSIONS ARE IN MM

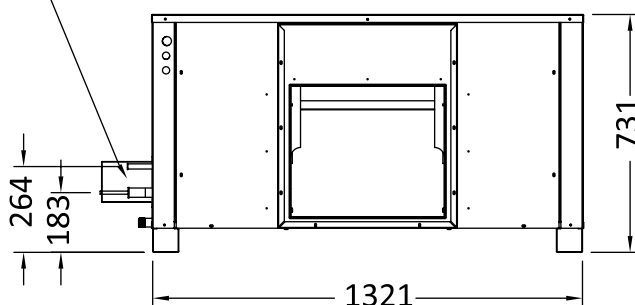


TOP VIEW

Ø28.6 SUCTION CONN.  
Ø15.9 LIQUID CONN.  
Ø27.0 DRAIN CONN.



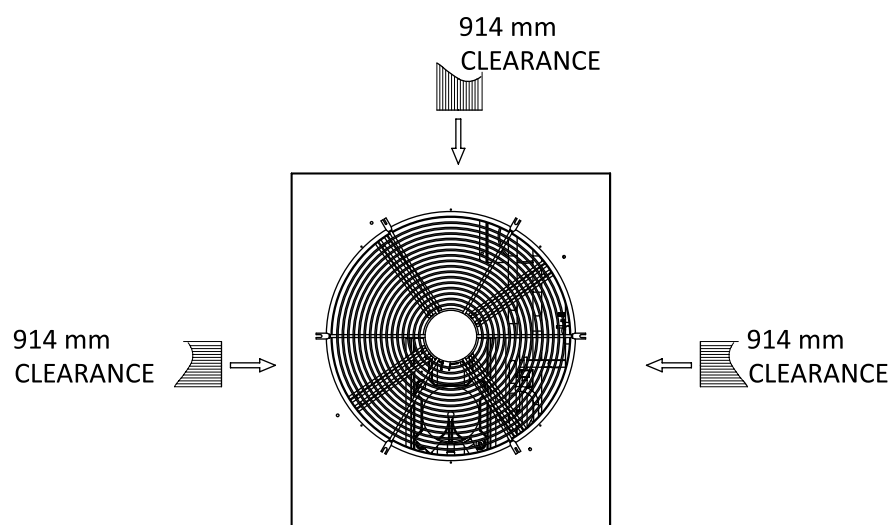
SIDE VIEW



FRONT VIEW

## UNIT DIMENSIONS

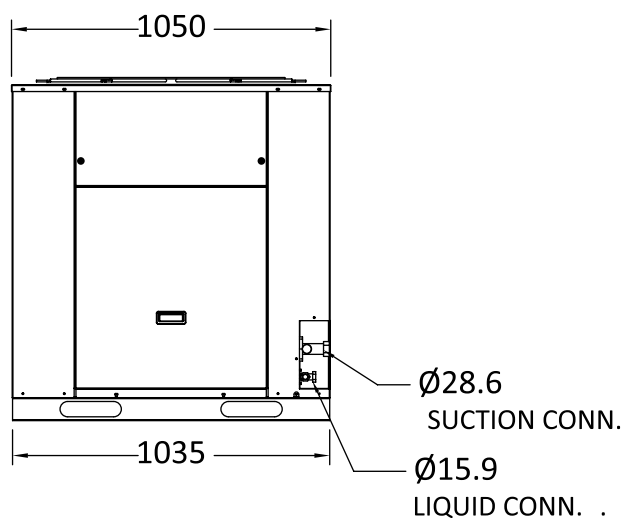
### Outdoor Unit:



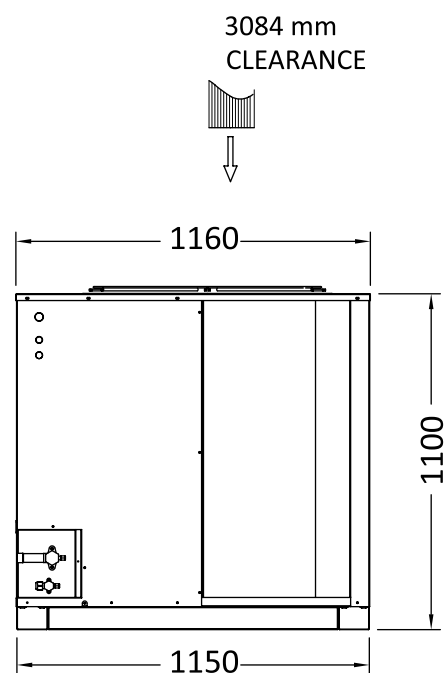
TOP VIEW

**NGCF-100/120**

ALL DIMENSIONS ARE IN MM



SIDE VIEW



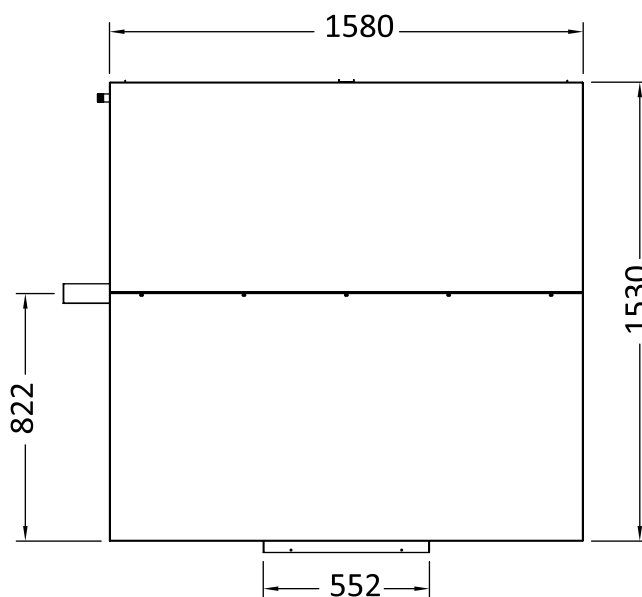
FRONT VIEW

## UNIT DIMENSIONS

### Indoor Units:

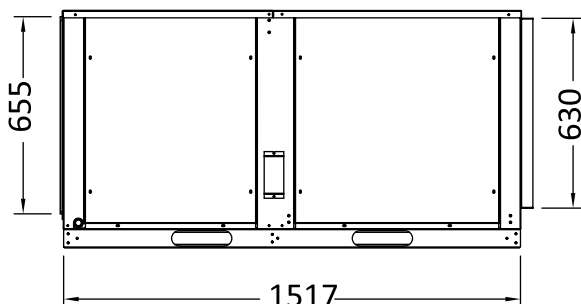
#### NGEF-130

ALL DIMENSIONS ARE IN MM

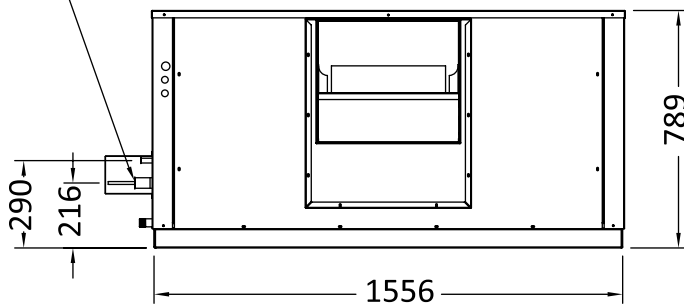


TOP VIEW

Ø34.9 SUCTION CONN.  
Ø15.9 LIQUID CONN.  
Ø42.0 DRAIN CONN.



SIDE VIEW



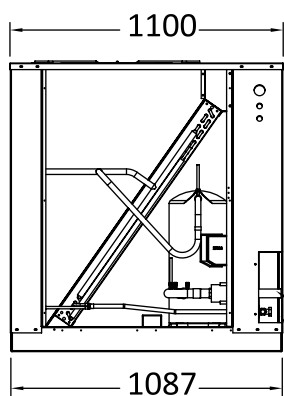
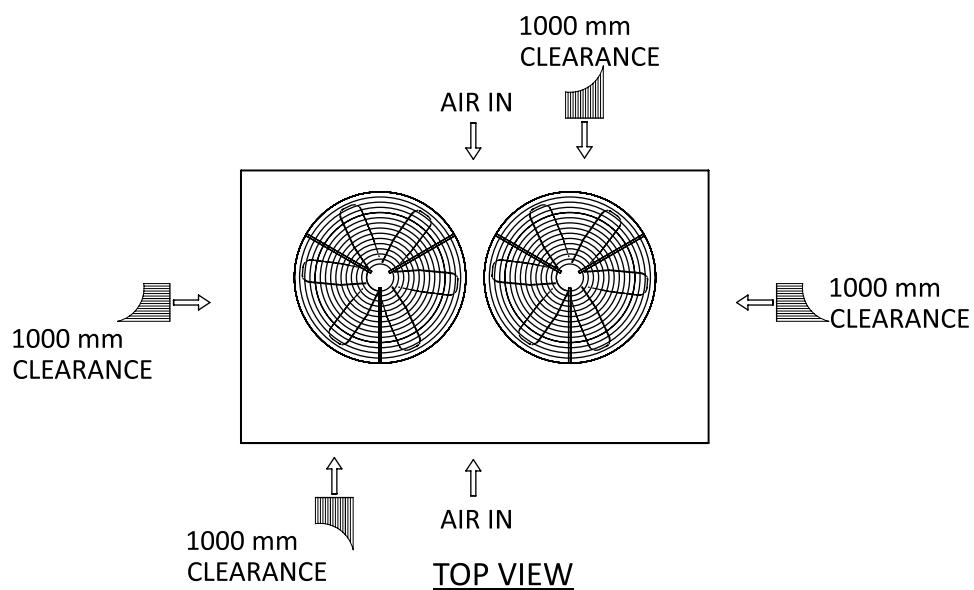
FRONT VIEW

## UNIT DIMENSIONS

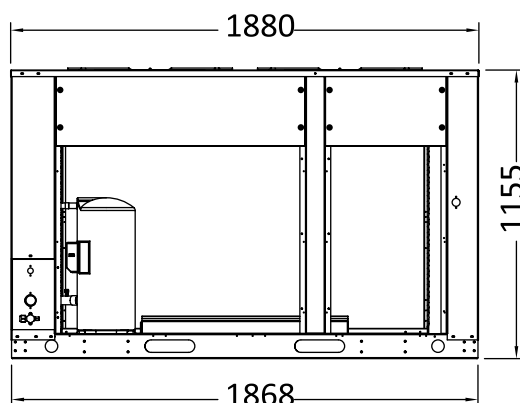
### Outdoor Units:

#### NGCF-130

ALL DIMENSIONS ARE IN MM



**SIDE VIEW**



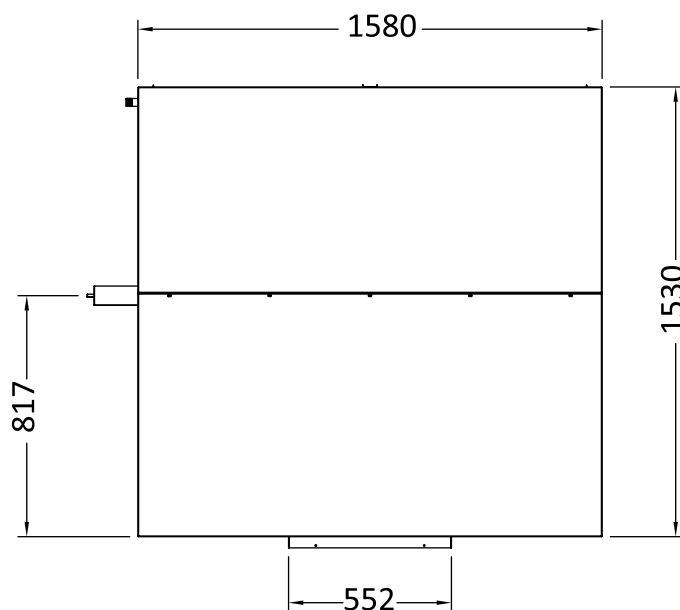
**FRONT VIEW**

## UNIT DIMENSIONS

### Indoor Unit:

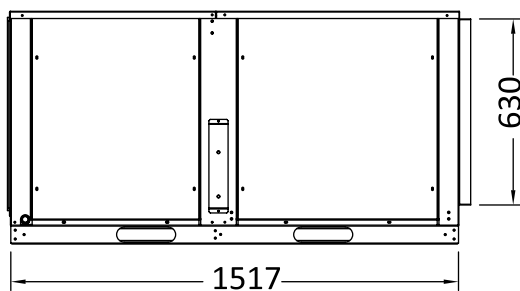
#### NGEF-150

ALL DIMENSIONS ARE IN MM

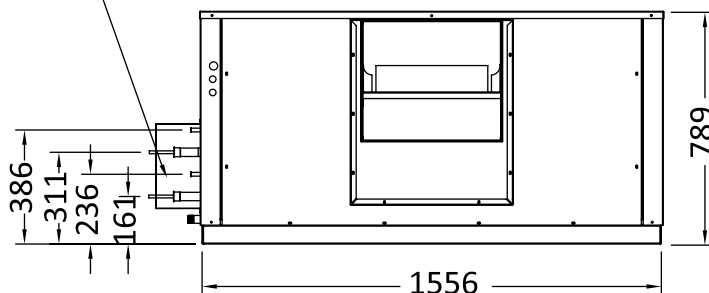


TOP VIEW

Ø22.2 SUCTION CONN.  
Ø12.7 LIQUID CONN.  
Ø42.0 DRAIN CONN.



SIDE VIEW



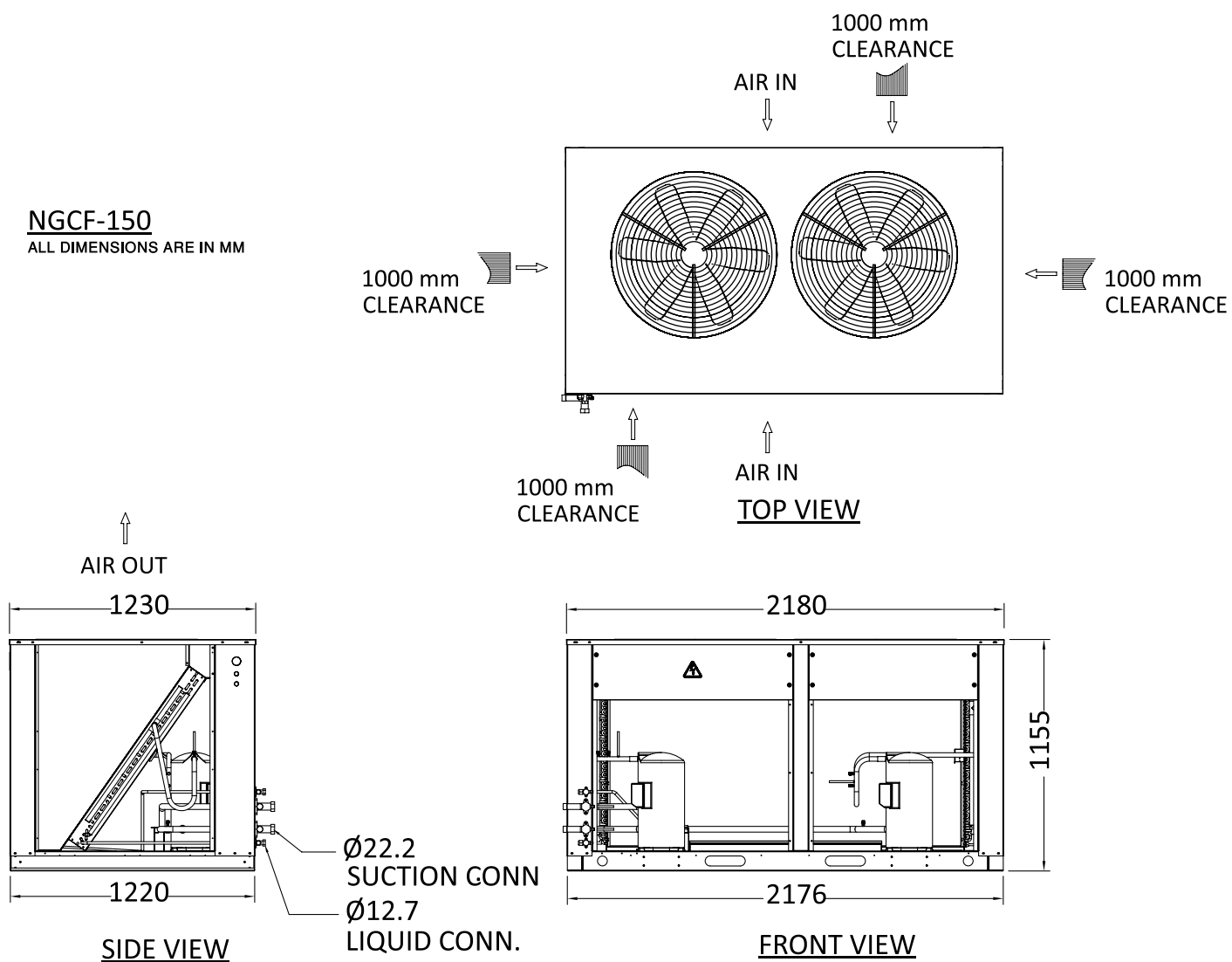
FRONT VIEW

## UNIT DIMENSIONS

### Outdoor Units:

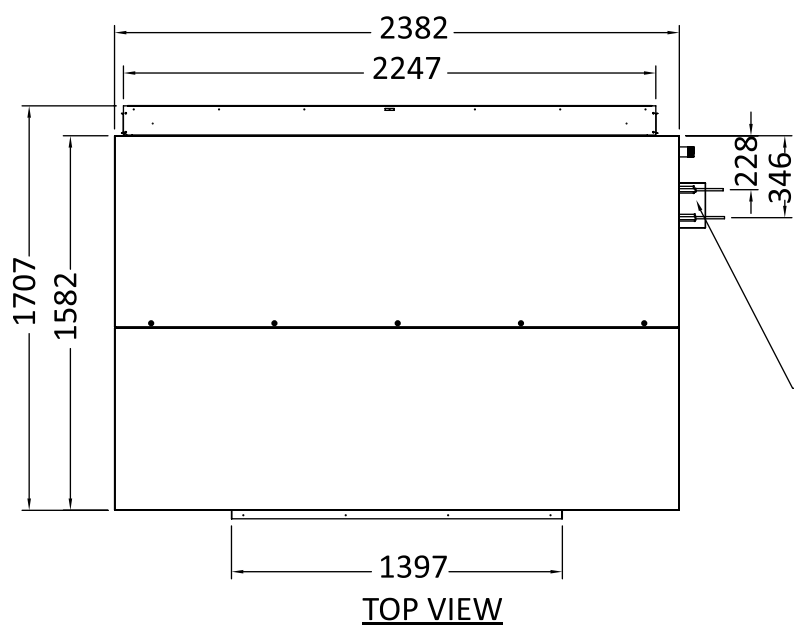
#### NGCF-150

ALL DIMENSIONS ARE IN MM



## UNIT DIMENSIONS

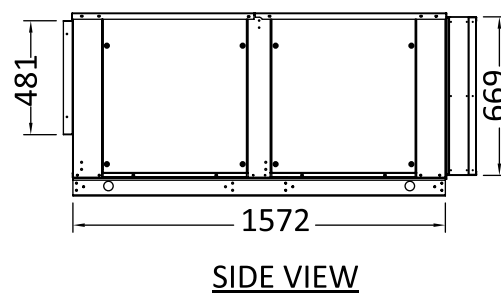
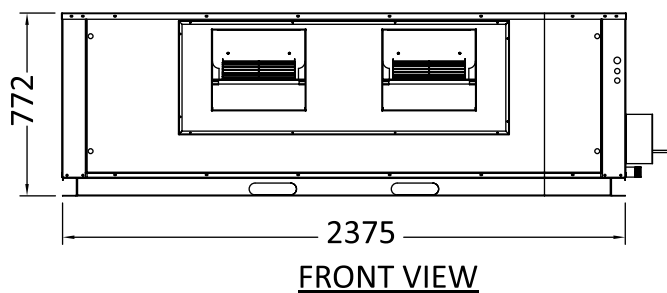
### Indoor Unit:



**NGEF-175/200**

ALL DIMENSIONS ARE IN MM

Ø28.6 SUCTION CONN.  
Ø12.7 LIQUID CONN.  
Ø42.0 DRAIN CONN.

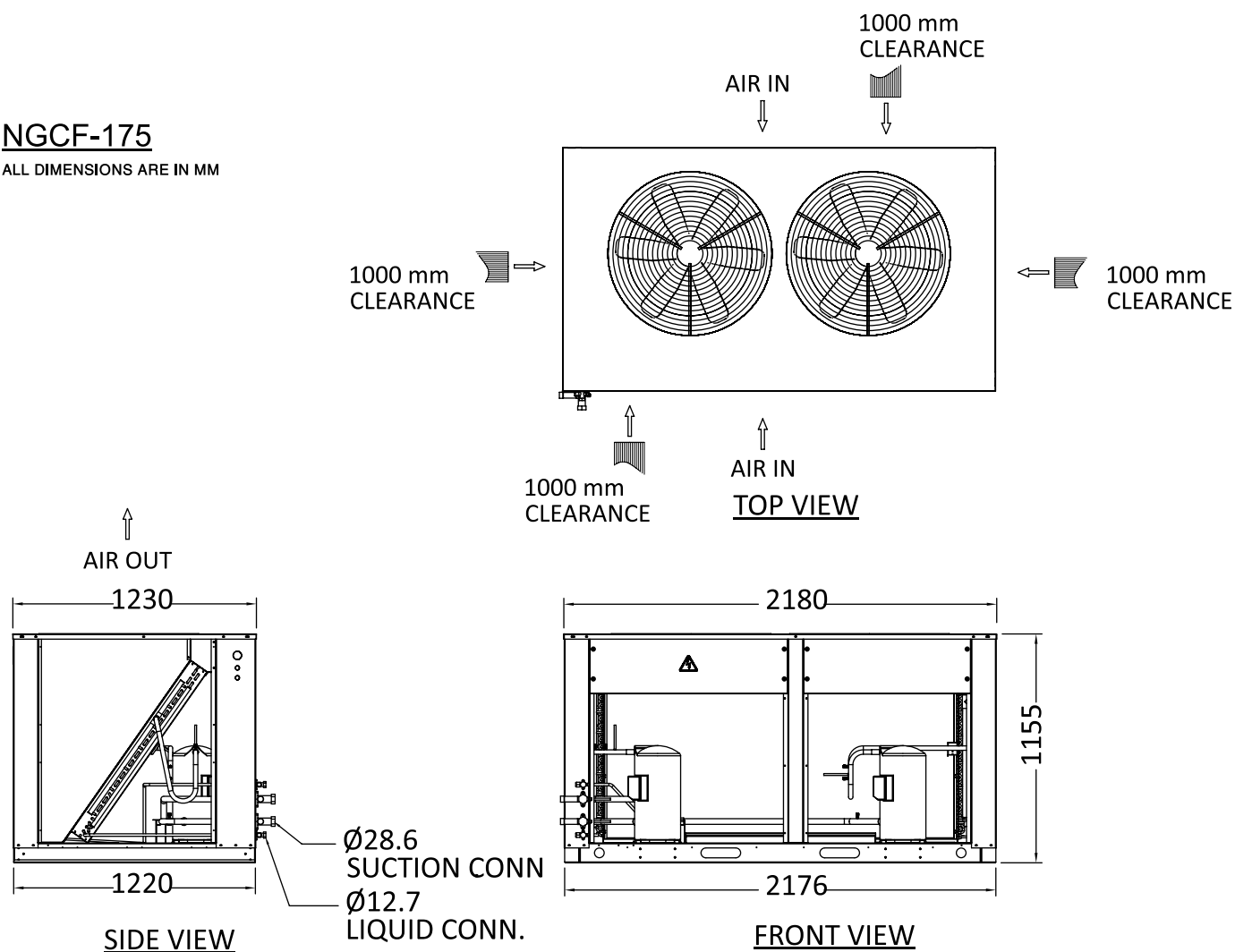


## UNIT DIMENSIONS

### Outdoor Units:

#### NGCF-175

ALL DIMENSIONS ARE IN MM

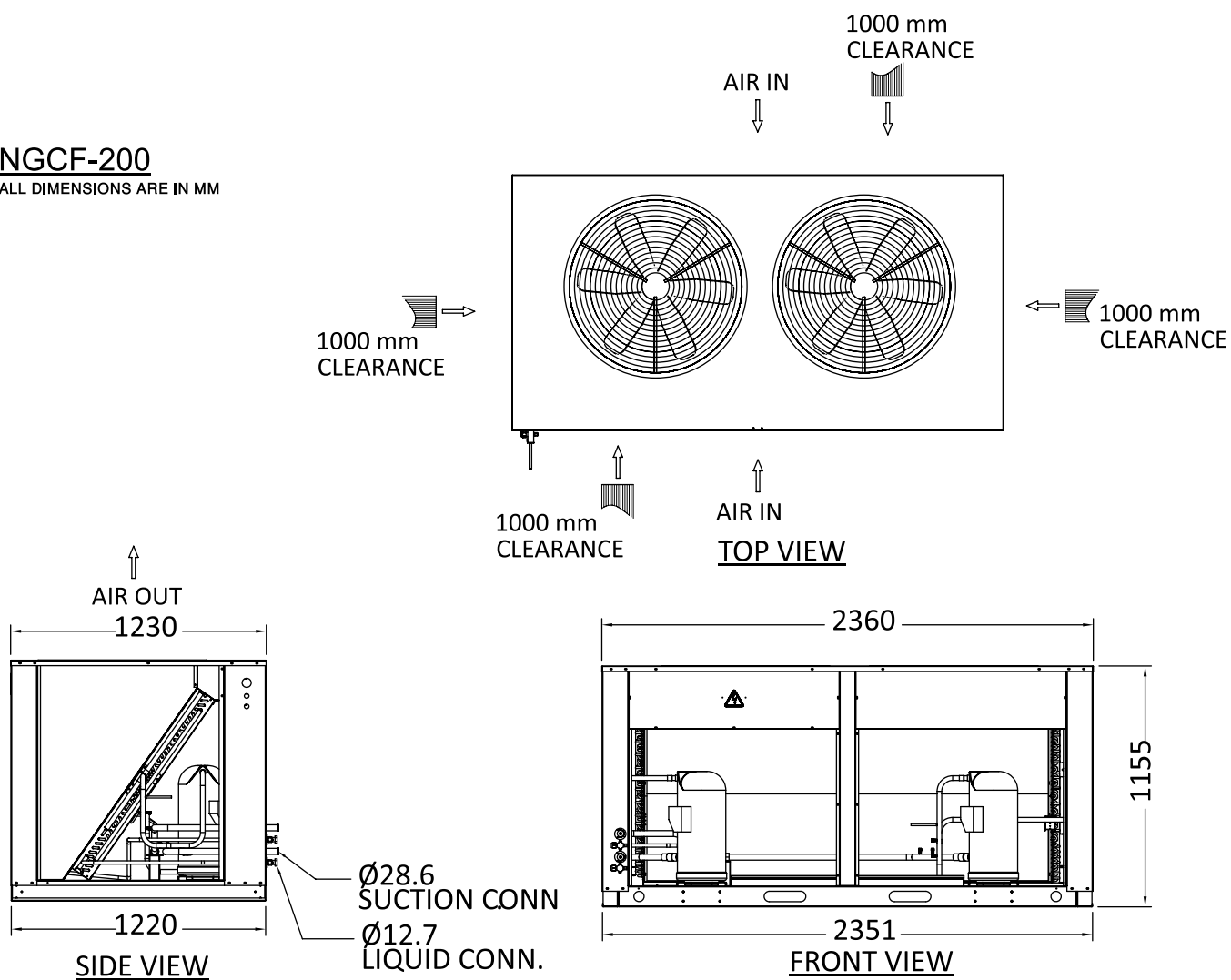


## UNIT DIMENSIONS

### Outdoor Unit:

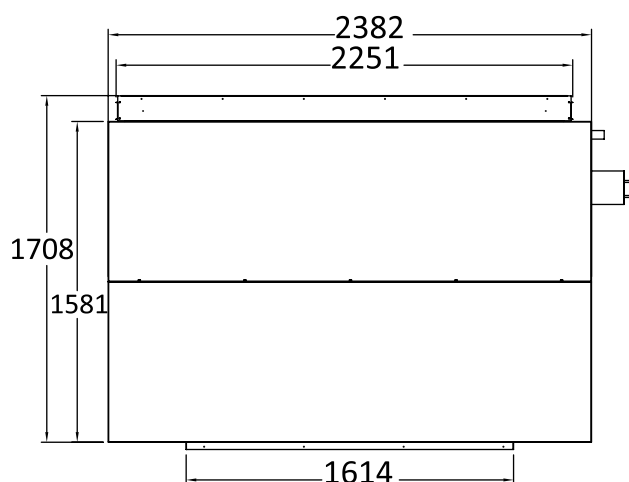
#### NGCF-200

ALL DIMENSIONS ARE IN MM



## UNIT DIMENSIONS

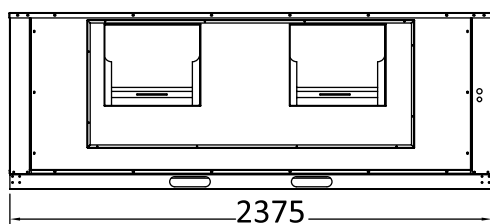
### Indoor Units:



TOP VIEW

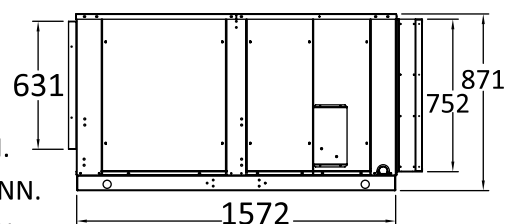
### NGEF-240

ALL DIMENSIONS ARE IN MM



FRONT VIEW

Ø5/8 LIQUID CONN.  
Ø3/8 SUCTION CONN.  
Ø42.0 DRAIN CONN.



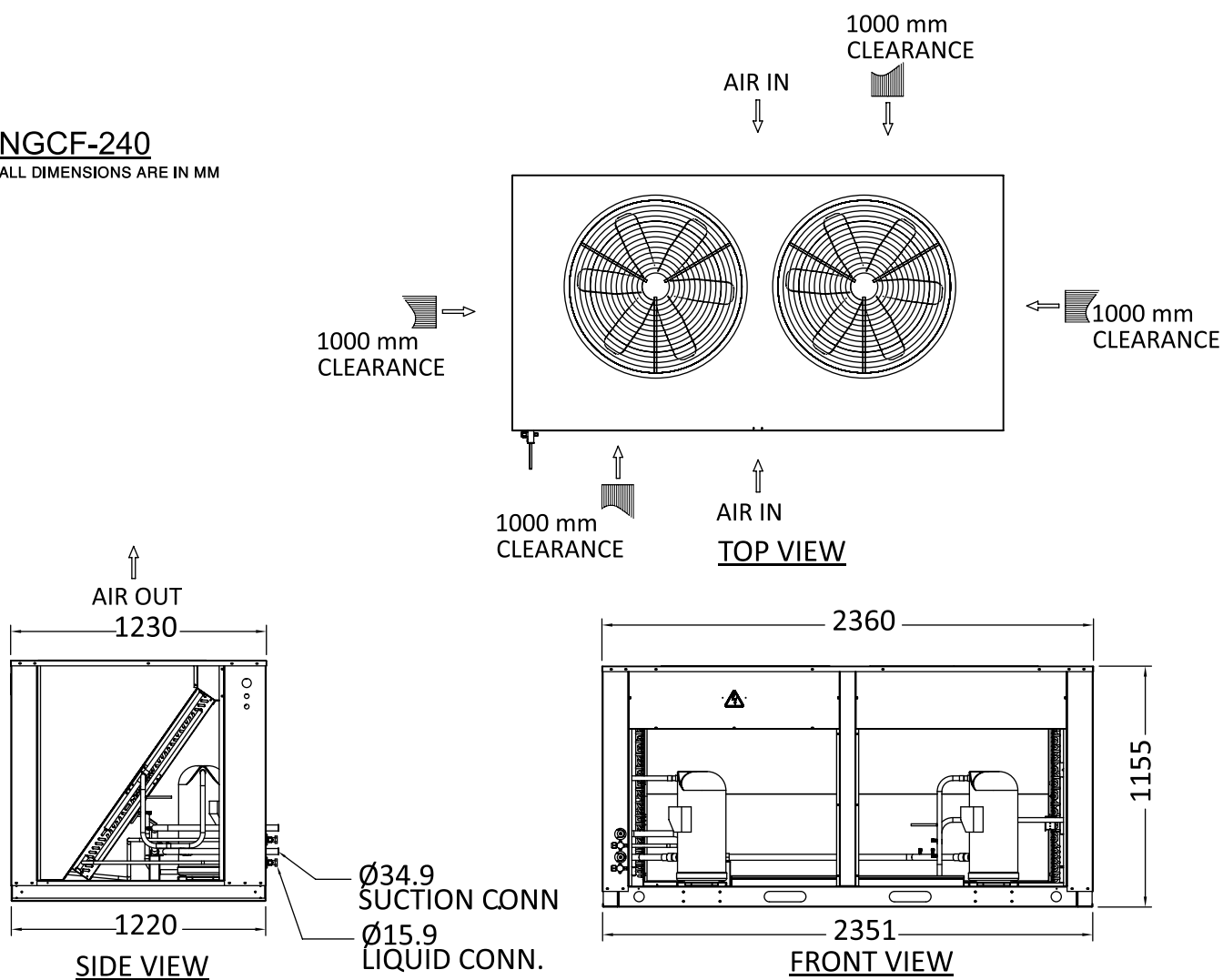
SIDE VIEW

## UNIT DIMENSIONS

### Outdoor Units:

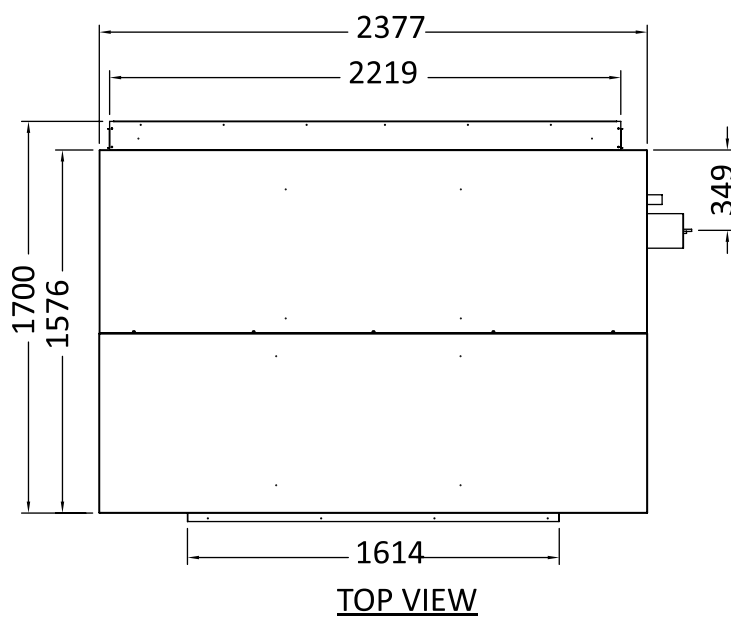
#### NGCF-240

ALL DIMENSIONS ARE IN MM



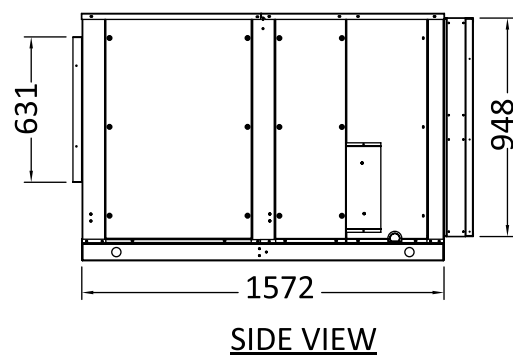
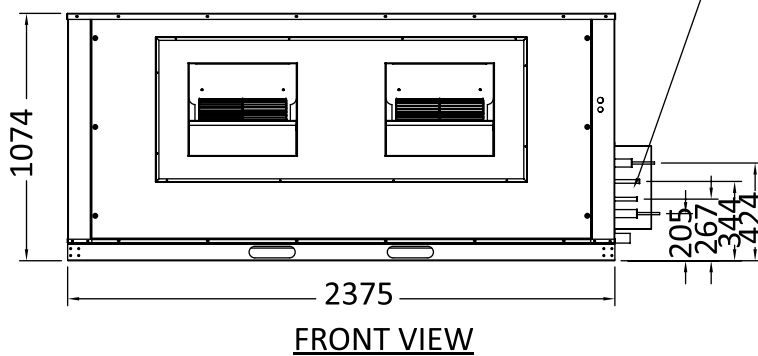
## UNIT DIMENSIONS

### Indoor Units:



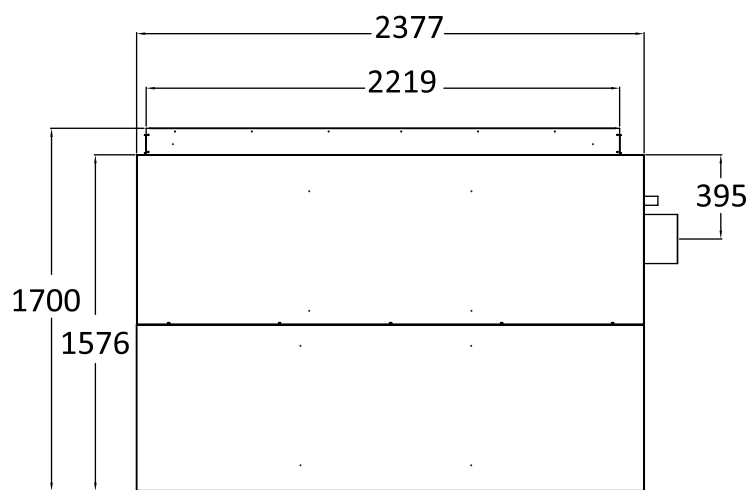
**NGEF-270/300**

ALL DIMENSIONS ARE IN MM

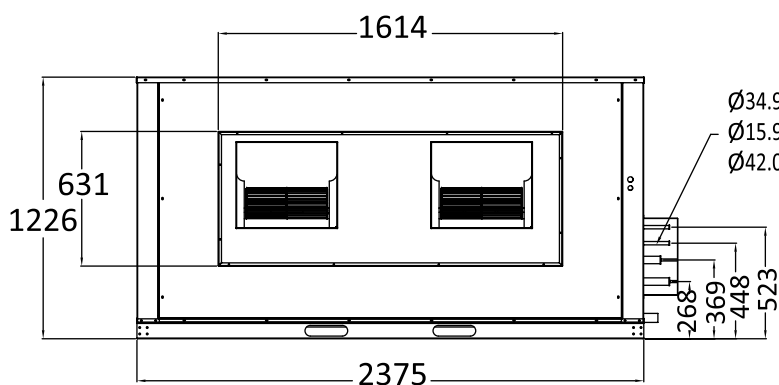


## UNIT DIMENSIONS

### Indoor Units:

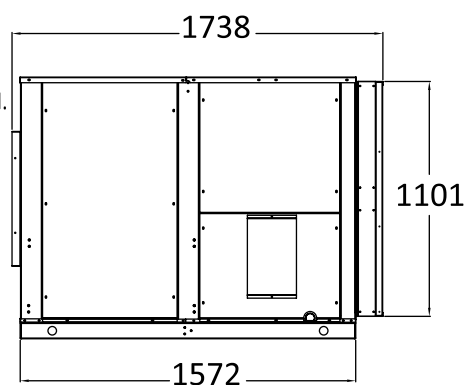


TOP VIEW



FRONT VIEW

Ø34.9 SUCTION CONN.  
Ø15.9 LIQUID CONN.  
Ø42.0 DRAIN CONN.



SIDE VIEW

**NGEF-320/340**

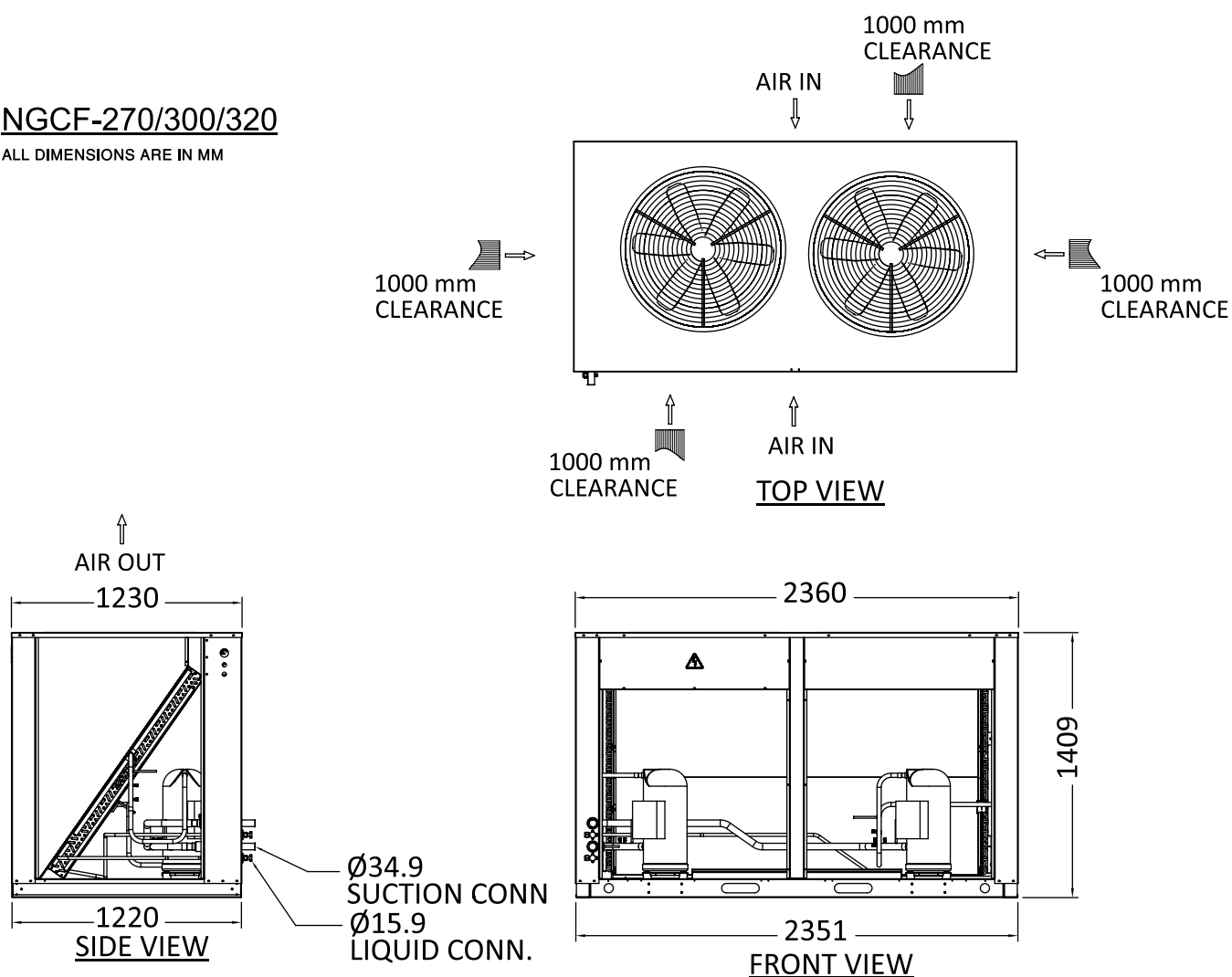
ALL DIMENSIONS ARE IN MM

## UNIT DIMENSIONS

### Outdoor Units:

#### NGCF-270/300/320

ALL DIMENSIONS ARE IN MM

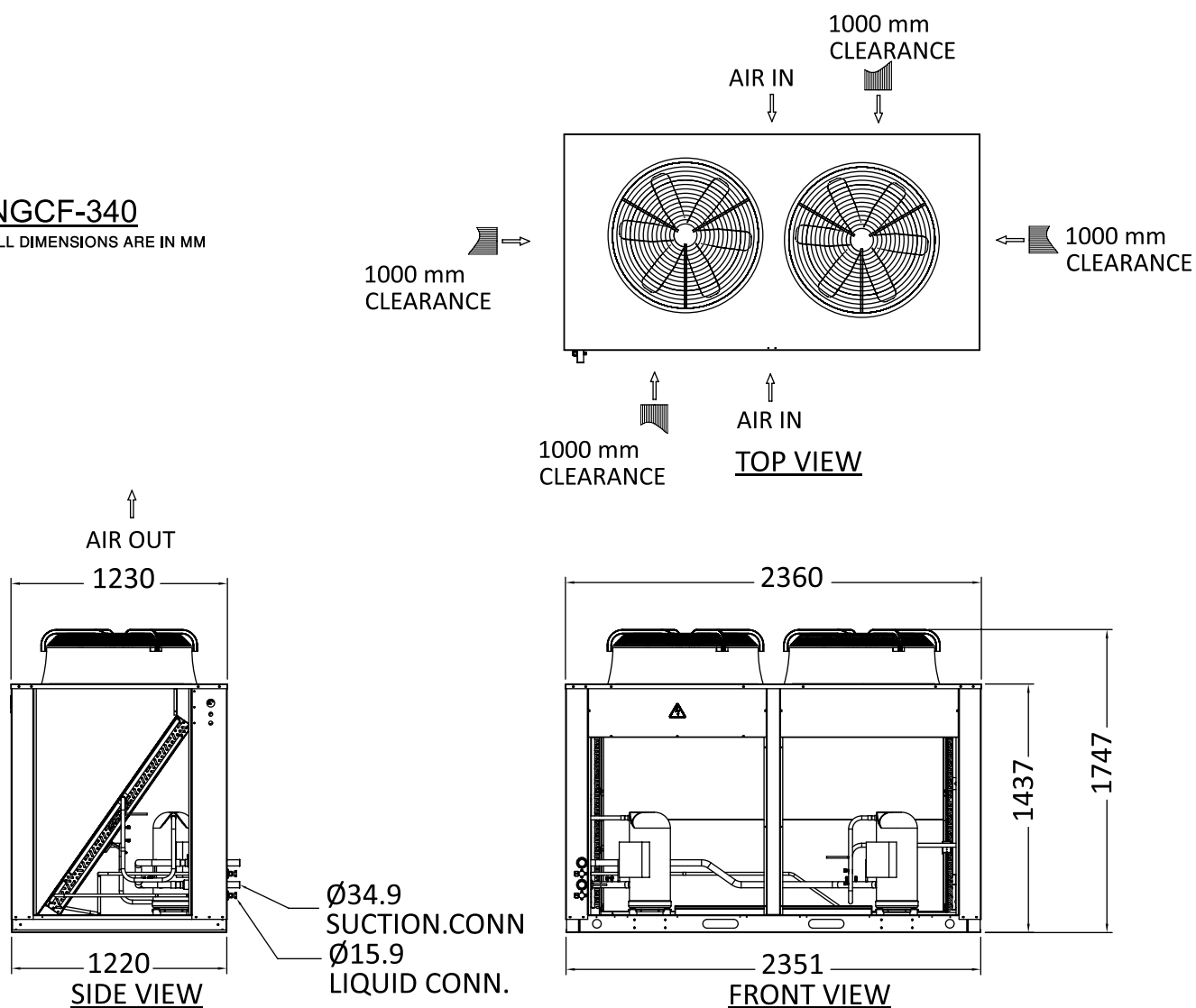


## UNIT DIMENSIONS

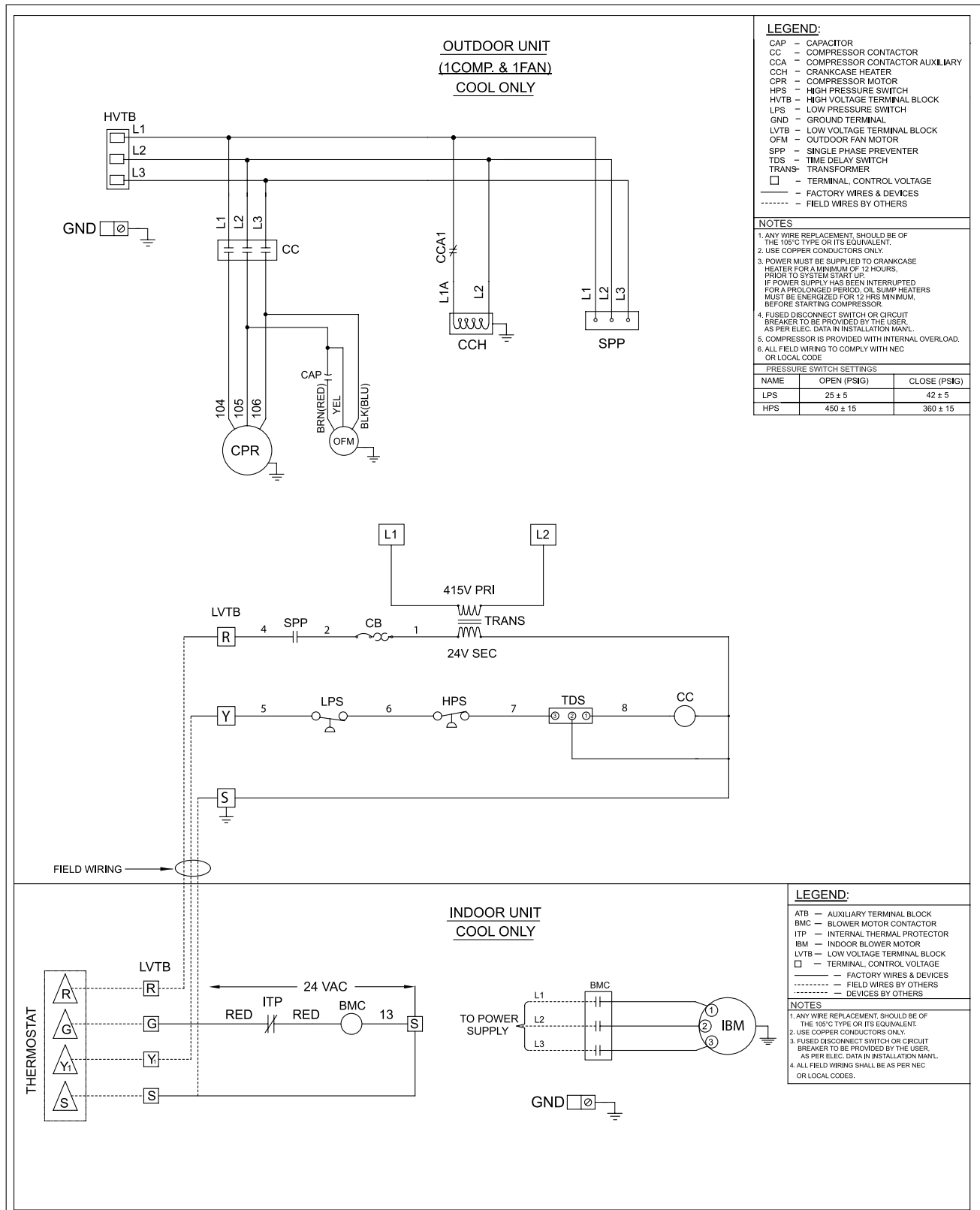
### Outdoor Units:

#### NGCF-340

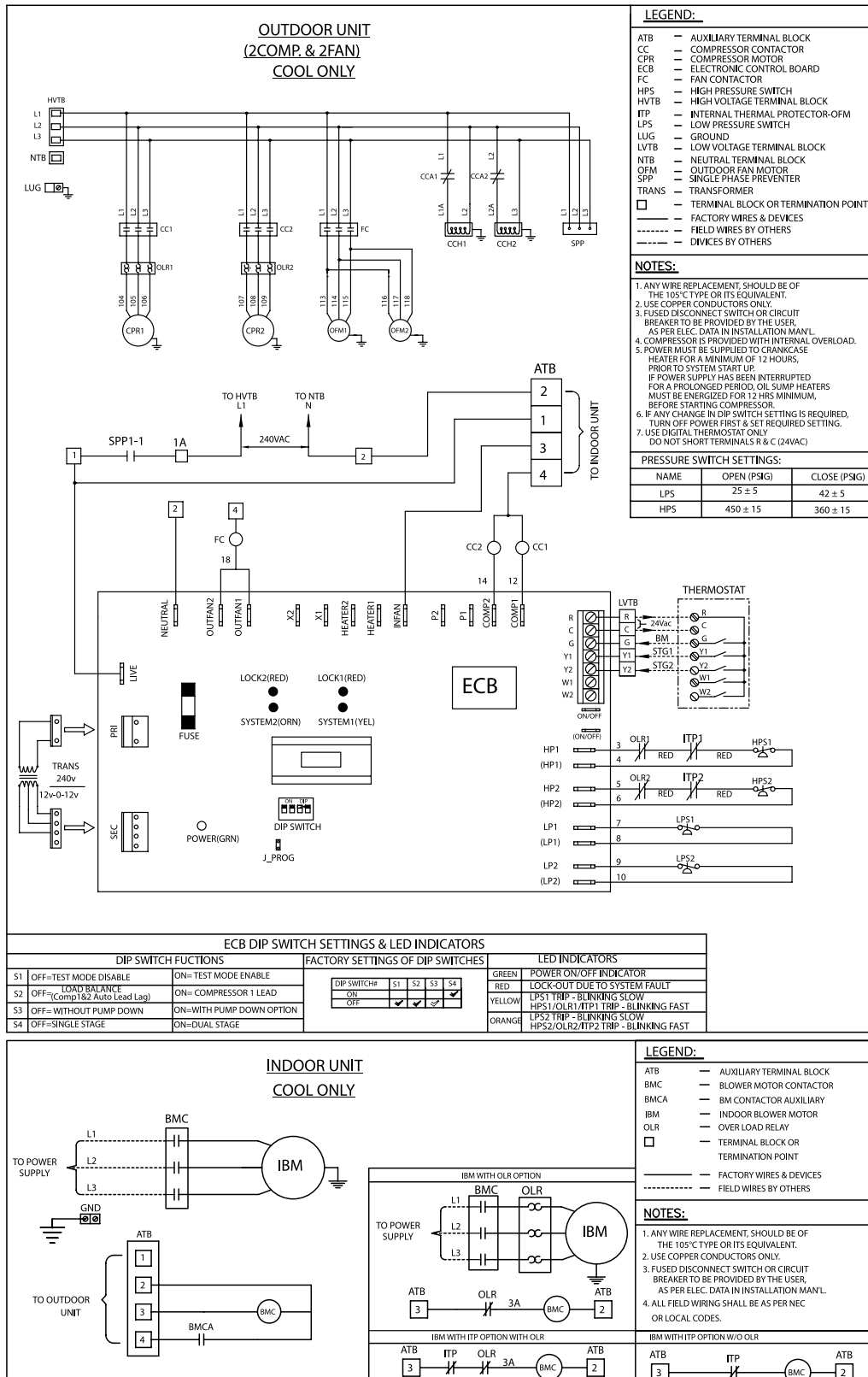
ALL DIMENSIONS ARE IN MM



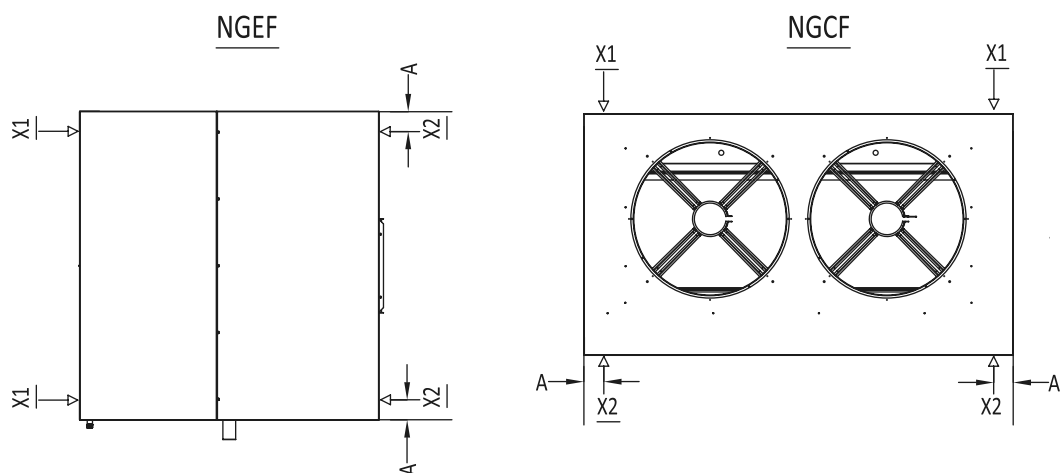
## TYPICAL WIRING DIAGRAM



## TYPICAL WIRING DIAGRAM



## LOAD DISTRIBUTION



| LOAD DISTRIBUTION |        |         |         |
|-------------------|--------|---------|---------|
| MODEL             | A (mm) | X1 (kg) | X2 (kg) |
| NGEF-076          | 75.0   | 50      | 57      |
| NGEF-090          | 75.0   | 55      | 63      |
| NGEF-100          | 75.0   | 58      | 66      |
| NGEF-120          | 75.0   | 60      | 68      |
| NGEF-130          | 75.0   | 63      | 70      |
| NGEF-150          | 75.0   | 65      | 72      |
| NGEF-175          | 75.0   | 71      | 77      |
| NGEF-200          | 75.0   | 72      | 79      |
| NGEF-240          | 75.0   | 93      | 101     |
| NGEF-270          | 75.0   | 98      | 106     |
| NGEF-300          | 75.0   | 111     | 121     |
| NGEF-320          | 75.0   | 115     | 124     |
| NGEF-340          | 75.0   | 122     | 132     |
| NGCF-076          | 75.0   | 91      | 84      |
| NGCF-090          | 75.0   | 93      | 86      |
| NGCF-100          | 75.0   | 108     | 99      |
| NGCF-120          | 75.0   | 116     | 107     |
| NGCF-130          | 75.0   | 123     | 113     |
| NGCF-150          | 75.0   | 130     | 141     |
| NGCF-175          | 75.0   | 132     | 143     |
| NGCF-200          | 75.0   | 133     | 145     |
| NGCF-240          | 75.0   | 172     | 187     |
| NGCF-270          | 75.0   | 182     | 197     |
| NGCF-300          | 75.0   | 207     | 224     |
| NGCF-320          | 75.0   | 217     | 234     |
| NGCF-340          | 75.0   | 222     | 239     |

## NOTES

## NOTES

## COOLEX DISTRIBUTORS

### Sultanate of Oman

#### Al Noor Projects Engineering & Trading Company

Address: Third Floor, Oman House  
P.O. Box: 1047, P.C: 114 Hay Al Mina - Muscat  
Tel : +968 24709402/403  
Fax : +968 24709401  
Email : info@alnoorprojects.com  
Email : gm@alnoorprojects.com  
Website: www.alnoorprojects.com

### United Arab Emirates UAE

#### Obaid Humaid Al-Tayer Engineering Division Al Tayer Group

Address: Dubai – UAE, PO Box 2623  
Tel : +971 4 2011272  
Fax : +971 4 2825008  
Mobile : +971 50 3500747  
Email : bkrishnan@altayer-eng.com  
Website: www.altayer.com

### Kingdom of Bahrain

#### Y.K. Almoayyed & Sons

Address: EHAD – Project Department, Sehla Workshop  
P.O. Box 143, Manama, Kingdom of Bahrain  
Tel : +973 17 400 444, Extn. 205  
Direct : +973 17 405 250  
Fax : +973 17 400 388  
Email : Pradeep@almoayyed.com.bh  
Email : anshul.bawa@almoayyed.com.bh  
Website: www.almoayyed.com

### Kingdom of Saudi Arabia KSA

#### Al-Etmdad for Refrigeration and Air Conditioning Industries Company

Address: Al Qortobah Quartier, King Abdullah Road  
Riyadh – KSA, P.O. Box 50467 Riyadh 11533  
Tel : + 966 11 2447789  
Fax : + 966 11 4958812  
Mobile : + 966 560034240  
Email : abunaif722@ksacoollex.com  
Website: www.Coollex.com

### Republic of Iraq

#### SWEER Company Limited

Address: Al Senak -Jumhuri Street - Baghdad-Iraq  
P.O. Box: 8095  
Tel : +964 1 8181196  
Mobile : +964 7705 884444  
Email : sweerco@yahoo.com  
Website: www.sweerco.com

### State of Qatar

#### Al Jaber for air conditioning & Refrigeration industries

Address: PO.Box 23546 Doha  
Tel : +974 44210963  
Fax : +974 44448919  
Mobile : +974 55610321  
Mobile : +974 55843255  
Email : Customercare@jaric-qatar.com  
Website: www.jaric-qa.com

### Iran

#### Capital ICEBERG Limited Company

Address: No. 31, 3rd Floor, Aghdasieyh Trade Center  
Aghdasieyh Street. Tehran – Iran  
Tel : +98 (021) 26110510  
Fax : +98 (021) 26110510  
Mobile : +98 912 119 2961  
Email : info@capitaliceberg.com  
Email : saeed.s@capitaliceberg.com  
Email : sara.s@capitaliceberg.com  
Website: www.capitaliceberg.com

### Sudan

#### Abina For Advises And Engineering Work Company

Address: Katrena Street - East Qurashi Park  
Sudan – Khartoum  
Tel : +249 574064  
Fax : +249 574064  
Mobile : +249 900900246/247/248/249/250/251/252  
Email : maha1237@yahoo.com

### Islamic Republic of Pakistan

#### AG TEK Pvt. Ltd.

Address: 179-S, Imperial Garden Paragon City  
Lahore - Pakistan  
Tel : +92-42-37187640-43  
Fax : +92-42-37187644  
Cell : +92-300-4745624  
Mobile : +92-321-2280011  
Email : info@agtek.com.pk  
Email : coo@agtek.com.pk  
Website: www.agtek.com.pk

### Egypt

#### Total Group Egypt Company

Address: 4 Buildings Al-Noor – Sheraton Housings  
Cairo – Egypt  
Tel : +202267240/837  
Mobile : +20109966627  
Mobile : +21201299444  
Email : adel@coollex-eg.com  
Email : ahmad@coollex-eg.com  
Website: www.coollex-eg.com

### Syrian Arab Republic

#### Team for Engineering & Trading co.

Address: Damascus - Kafer Souseh  
P.O.Box: 16311  
Tel : +963 11 222 2996  
Tel-Fax : +963 11 222 1125  
Mobile : +963 93 322 6288  
Mobile : +963 94 421 1146  
Email : info@team-syr.net  
Email : georgeyoussef@team-syr.net  
Website: www.team-syr.net

### Nepal

#### Global Air Conditioning And Trading Pvt Ltd

Address: SINAMANGAL-9, KATHMANDU-NEPAL  
Tel : +977 9813388560  
Email : ajay.sharma2852@gmail.com

Please contact Sales and Marketing Department  
sales@ric.com.kw for specific information on  
the current design and specifications.

Ref no.: CSDF 23-5-001

**CENTRAL AIR CONDITIONING AND SPLIT UNIT**  
Coollex continuously works towards the improvement of  
its products. Hence, the design and specifications of the  
ordered product may vary without prior notice.

COOLEX is a subsidiary of the **RIC Group**



[www.coollex.com.kw](http://www.coollex.com.kw)