

## Fresh Air Package Unit Series

**FAPU 048 to 600 MBH (4 to 50 TR)**

**50 Hz**



### Features / Benefits

- Statically and dynamically balanced belt driven Centrifugal, DIDW Backward Curved fan, designed for low sound operation.
- Motor pulleys are adjustable speed sheaves designed to allow changes to driven shaft speed.
- Painted electro-static powder coat, zinc coated steel panels provide additional protection against rusting and discoloration in areas with high UV factor.
- Cooling coils are built up of inner grooved copper tubes with mechanically bonded hydrophilic aluminum fins provide peak heat transfer.
- Standard factory installed thermostatic expansion valves (TXV).
- Motors are Totally Enclosed Fan Cooled (TEFC) type, IP55 Protected, 2 Pole Class F insulation conform to relevant IEC standards.
- High efficiency synthetic bag filter capturing the smaller particulate from the air stream.
- Easy panel removal of side panel allows access to serviceable components.
- Two refrigerant independent circuits starting on 12.5 Tons which provide efficient part load.

The new series of Coolex Package Units air conditioner are designed and manufactured to provide comfort cooling for residential and commercial applications with the optimum performance, high efficiency, reliability, ease of service & maintenance and capable to operate at extremely ambient conditions up to 125°F.

**Fresh Air Package Units  
With Tropical Hermetic  
Compressor**



For more technical information please visit [www.coolex.com.kw](http://www.coolex.com.kw)



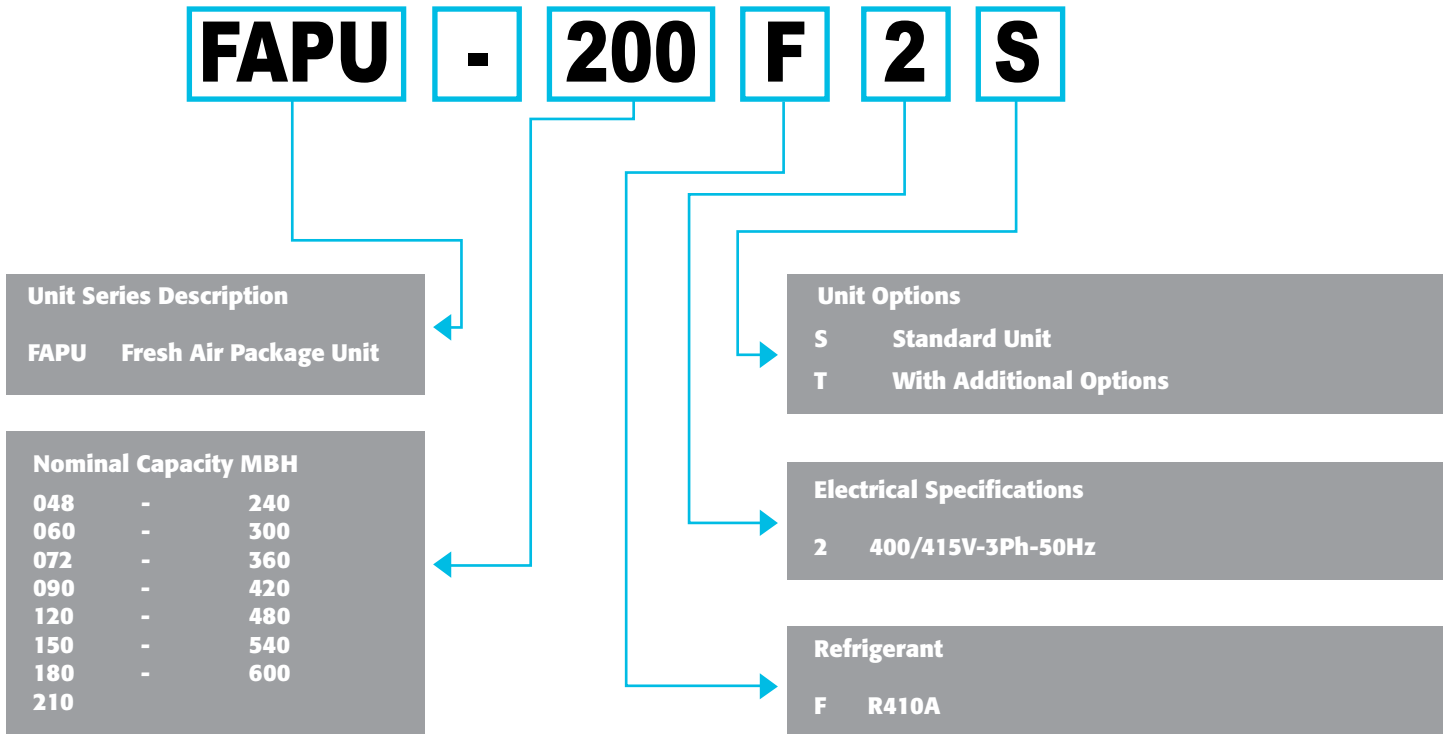
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## OTHER COOLEX PRODUCTS

- 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**

## NOMENCLATURE



## OUT STANDING FEATURES

### Superior Efficiency

- Low power consumption
- High volumetric efficiency scroll compressors
- Designed to operate at severe ambient temperature up to 52°C without tripping

### Controls

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

### Quiet operation

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

### Quality Assurance

All units in the FAPU series are :

- Factory run tested.
- Produced in an ISO 9001-2015 listed manufacturing facility.
- Constructed in compliance with ASHRAE 15 safety requirements.
- AHRI rated cooling coils

## STANDARD SPECIFICATIONS

### General

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

### Unit Casing

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

### Compressor

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

### Evaporator Coils

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

### Condenser Coils

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

### Evaporator Fan

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

### Evaporator Blower Motor

Motors are totally enclosed fan cooled (TEFC) type with class F insulation for weather protection with permanently lubricated bearings and automatic thermal protection.

### Condenser Fans

Condenser air fan is of the propeller type, aluminum blade with a direct drive motor upward discharge and provided with fan grille mounted in casing.

### Condenser Fan Motor

Motors are Totally Enclosed Air-Over (TEAO) type with class F insulation for weather protection with permanently lubricated bearings and automatic thermal protection.

### Drain Pan

The drain pan is fabricated of painted galvanized steel with insulation.

### Aluminum Filter

High dust holding capacity, low resistance filter. It can be cleaned with regular water and prolonged use. It consists of 2" metal aluminum mesh with unique pattern.

### Bag Filter

High efficiency synthetic bag filter capturing the smaller particulate from the air stream. The synthetic media consists of strategically layered and blended melt-blown polypropylene fibers fastened to a non-shed, high density polypropylene backing.

### Refrigerant Circuit

FAPU series comes complete, as standard, with properly sized refrigerant lines including thermostatic expansion valve, sight glass, filter drier, automatic high and low pressure switch and full operating charge of R410A in each circuit.

### Control Panel

The control panel enclosure is fabricated out of heavy gauge sheet steel powder coated bake finished. Internal power and control wiring is neatly routed, properly anchored and all wires are identified with cable markers as per NEC standard applicable to HVAC units. Major components used in the control panel are UL approved.

## MICROPROCESSOR BASED CONTROLLER

The Units (FAPU) are provided with technologically advanced Microprocessor based controller, incorporating the following benefits and features:

- Anti-recycling timing device
- Compressor lock out function
- Balance loading of compressors
- Compressors lead-lag operation
- Pump down option
- Fault diagnostics
- Indicator lights for high & low pressure safety

## OPTIONAL SPECIFICATIONS

### Construction

- Double skin for evaporator side
- Anti-corrosion coating for coils
- Copper fins for evaporator and/or condenser
- Stainless steel drain pan
- Special Air filter material
- Filter box with High Efficiency Bag filters
- Sand trap louver

### Electrical

- Electric heater
- Compressor circuit breaker
- Blower motor circuit breaker
- Condenser fan motor circuit breaker
- External overload for condenser fan motor
- Mild ambient kit
- Anti - ice thermostat
- Air flow switch
- Ultra violet light
- Wi-Fi Thermostat
- Multi Stage Thermostat
- Modbus connectivity

### Refrigeration

- Pump down kit
- High & Low Pressure gauges
- Rotalock valve for compressor
- Replaceable filter drier with mechanical shut-off valve
- Adjustable high/low pressure switch

Coolex App



Wi Fi Module



Typical Thermostat



## SELECTION PROCEDURE

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

### Example :

#### Design requirements

- Total cooling capacity 236 [MBH]
- Sensible cooling capacity 124 [MBH]
- Design ambient temperature 95 [°F]
- Evaporator air flow 3600 [CFM]
- Evaporator entering temperature DB/WB 95/80 [°F/°F]
- External static pressure 0.7 [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** = 236 [MBH]/0.99  
= 238.38 MBH

**Corrected sensible capacity** = 124 [MBH]/0.99  
= 125.25 MBH

From the cooling capacity at performance data tables (page 8), the closest selection model to the required capacity is FAPU-240. From the performance table:

**Total capacity** = 240 [MBH]

**Sensible capacity** = 121.8 [MBH]

## GENERAL DATA

| Outdoor Units                 |                                  | FAPU-048   | FAPU-060 | FAPU-072 | FAPU-090  | FAPU-120  | FAPU-150  | FAPU-180  |
|-------------------------------|----------------------------------|--|----------|----------|-----------|-----------|-----------|-----------|
| Cooling Capacity<br>(Nominal) | MBH                              | 49.0   | 60.0     | 72.0     | 90.0      | 120.0     | 150.0     | 180.0     |
|                               | KW                               | 14.3   | 17.5     | 21.1     | 26.3      | 35.1      | 43.9      | 52.6      |
| Compressor                    | Type                             | Hermetic Scroll  |          |          |           |           |           |           |
|                               | Quantity                         | 1  |          |          |           |           | 2         |           |
|                               | Refrigerant                      | R410A  |          |          |           |           |           |           |
|                               | Refrigerant circuits             | 1  |          |          |           |           | 2         |           |
|                               | Expansion device type            | Thermostatic Expansion Valve                           |          |          |           |           |           |           |
| Condenser Fan                 | Type                             | Propeller  |          |          |           |           |           |           |
|                               | Diameter, mm                     | 610  |          |          | 762       |           | 610       | 762       |
|                               | No. of fans                      | 1  |          |          |           |           | 2         |           |
|                               | Motor Enclosure/Ins Class        | Open Drip-Proof, Class B                               |          |          |           |           |           |           |
|                               | Nominal HP x Qty                 | 0.75 x 1   |          |          | 1.5 x 1   |           | 0.75 x 2  | 1.5 x 2   |
|                               | RPM                              | 900  |          |          |           |           |           |           |
| Condenser Coil                | Type                             | Enhanced Aluminum Fins & Inner Grooved Copper Tubes    |          |          |           |           |           |           |
|                               | Rows - FPI                       | 2-12   |          | 2-14     | 3-14      | 3-16      | 2-12      |           |
|                               | Total Face area                  | ft <sup>2</sup>  | 14.6     | 18.3     |           | 21.5      | 33.4      |           |
| Evaporator Blower             | Type                             | Centrifugal Backward Curve                             |          |          |           |           |           |           |
|                               | Motor Enclosure/Ins Class        | Totally Enclosed Fan Cooled, Class F                   |          |          |           |           |           |           |
|                               | Motor rating @ 1" ESP<br>HP (KW) | 1.0 (0.75)   |          |          | 1.5 (1.1) | 2.0 (1.5) | 3.0 (2.2) | 4.0 (3.0) |
| Evaporator Coil               | Type                             | Hydrophilic Aluminum Fins & Inner Grooved Copper Tubes |          |          |           |           |           |           |
|                               | Rows - FPI                       | 5-12   |          |          |           |           |           |           |
|                               | Total Face area                  | ft <sup>2</sup>  | 2.0      | 3.0      |           | 4.5       | 6.0       |           |
| Air Filter                    | Type                             | Washable aluminum mesh + Bag Filter                    |          |          |           |           |           |           |
|                               | Thickness (in)                   | 2  |          |          |           |           |           |           |
| Drain Pipe                    | mm X TPI                         | 27 X 14  |          |          |           |           | 42 X 11.5 |           |
| Weight                        | kg                               | 330  | 335      | 343      | 350       | 424       | 663       | 689       |

**Note:**

1. Cooling capacities are based on 95°/80°F entering air temperature.
2. The above data maybe changed without prior notice due to continuous improvement in quality and performance.

## GENERAL DATA

| Outdoor Units                 |                                  | FAPU-210   | FAPU-240 | FAPU-300 | FAPU-360  | FAPU-420 | FAPU-480  | FAPU-540 | FAPU-600 |  |
|-------------------------------|----------------------------------|--|----------|----------|-----------|----------|-----------|----------|----------|--|
| Cooling Capacity<br>(Nominal) | MBH                              | 210.0  | 240.0    | 300.0    | 360.0     | 420.0    | 480.0     | 540.0    | 600.0    |  |
|                               | KW                               | 61.4   | 70.2     | 87.7     | 105.3     | 122.8    | 140.4     | 157.9    | 175.4    |  |
| Compressor                    | Type                             | Hermetic Scroll  |          |          |           |          |           |          |          |  |
|                               | Quantity                         | 2  |          |          |           | 4        |           |          |          |  |
|                               | Refrigerant                      | R410A  |          |          |           |          |           |          |          |  |
|                               | Refrigerant circuits             | 2  |          |          |           | 4        |           |          |          |  |
|                               | Expansion device type            | Thermostatic Expansion Valve                           |          |          |           |          |           |          |          |  |
| Condenser Fan                 | Type                             | Propeller  |          |          |           |          |           |          |          |  |
|                               | Diameter, mm                     | 762  |          |          | 800       |          | 762       |          | 800      |  |
|                               | No. of fans                      | 2  |          |          |           | 4        |           |          |          |  |
|                               | Motor Enclosure/Ins Class        | Open Drip-Proof, Class B                               |          |          |           |          |           |          |          |  |
|                               | Nominal HP x Qty                 | 1.5 x 2  |          |          | 2.0 x 2   |          | 1.5 x 2   |          | 2.0 x 4  |  |
|                               | RPM                              | 900  |          |          |           |          |           |          |          |  |
| Condenser Coil                | Type                             | Enhanced Aluminum Fins & Inner Grooved Copper Tubes    |          |          |           |          |           |          |          |  |
|                               | Rows - FPI                       | 3-14   |          |          | 4-16      |          | 3-14      |          |          |  |
|                               | Total Face area                  | ft <sup>2</sup>  | 39.6     | 52.0     |           | 79.2     |           |          |          |  |
| Evaporator Blower             | Type                             | Centrifugal Backward Curve                             |          |          |           |          |           |          |          |  |
|                               | Motor Enclosure/Ins Class        | Totally Enclosed Fan Cooled, Class F                   |          |          |           |          |           |          |          |  |
|                               | Motor rating @ 1" ESP<br>HP (KW) | 4.0 (3.0)  |          |          | 5.0 (4.0) |          | 7.5 (5.5) |          | 10 (7.5) |  |
| Evaporator Coil               | Type                             | Hydrophilic Aluminum Fins & Inner Grooved Copper Tubes |          |          |           |          |           |          |          |  |
|                               | Rows - FPI                       | 5-12   |          |          |           |          |           |          |          |  |
|                               | Total Face area                  | ft <sup>2</sup>  | 8.0      | 12.0     |           | 16.0     |           | 20.0     |          |  |
| Air Filter                    | Type                             | Washable aluminum mesh + Bag Filter                    |          |          |           |          |           |          |          |  |
|                               | Thickness (in)                   | 2  |          |          |           |          |           |          |          |  |
| Drain Pipe                    | mm X TPI                         | 42 X 11.5  |          |          |           |          |           |          |          |  |
| Weight                        | kg                               | 780  | 795      | 1091     | 1166      | 1785     | 1858      | 1979     | 2012     |  |

Note:

1. Cooling capacities are based on 95°/80°F entering air temperature.
2. The above data maybe changed without prior notice due to continuous improvement in quality and performance.



## PERFORMANCE DATA TABLES

| Model    | Indoor Air Flow<br>CFM | Entering Air Temperature (DB/WB) |         |          |                 |         |          |                 |         |          |                 |         |          |
|----------|------------------------|----------------------------------|---------|----------|-----------------|---------|----------|-----------------|---------|----------|-----------------|---------|----------|
|          |                        | 95/80 ° F                        |         |          | 115/80 ° F      |         |          | 118.4/80 ° F    |         |          | 125/80 ° F      |         |          |
|          |                        | 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.    |          |
| FAPU-048 | 500                    | 44,175                           | 21,243  | 4.37     | 40,162          | 30,593  | 5.37     | 39,358          | 32,056  | 5.58     | 37,845          | 34,846  | 6.01     |
|          | 610                    | 47,051                           | 22,943  | 4.41     | 42,777          | 33,042  | 5.43     | 41,920          | 34,622  | 5.64     | 40,309          | 37,635  | 6.07     |
|          | 720                    | 49,000                           | 24,583  | 4.44     | 44,549          | 35,404  | 5.47     | 43,656          | 37,097  | 5.68     | 41,978          | 40,325  | 6.12     |
| FAPU-060 | 610                    | 51,941                           | 24,572  | 5.09     | 49,000          | 38,413  | 6.17     | 48,107          | 40,351  | 6.37     | 46,731          | 44,221  | 6.81     |
|          | 750                    | 57,614                           | 28,435  | 5.18     | 52,190          | 41,487  | 6.23     | 51,239          | 43,581  | 6.44     | 49,774          | 47,760  | 6.89     |
|          | 900                    | 60,000                           | 30,468  | 5.22     | 54,352          | 44,453  | 6.28     | 53,362          | 46,697  | 6.49     | 51,835          | 51,175  | 6.94     |
| FAPU-072 | 750                    | 65,124                           | 31,511  | 6.18     | 58,760          | 46,209  | 7.51     | 57,632          | 48,561  | 7.77     | 56,629          | 53,379  | 8.35     |
|          | 900                    | 68,872                           | 33,946  | 6.26     | 62,142          | 49,780  | 7.61     | 60,949          | 52,314  | 7.87     | 59,889          | 57,504  | 8.46     |
|          | 1080                   | 72,000                           | 36,792  | 6.33     | 64,964          | 53,954  | 7.70     | 63,717          | 56,700  | 7.96     | 62,609          | 62,326  | 8.56     |
| FAPU-090 | 950                    | 81,257                           | 39,369  | 7.55     | 73,240          | 57,604  | 9.01     | 71,985          | 60,584  | 9.29     | 69,914          | 66,419  | 9.93     |
|          | 1150                   | 85,889                           | 42,481  | 7.64     | 77,415          | 62,157  | 9.12     | 76,089          | 65,373  | 9.41     | 73,899          | 71,668  | 10.05    |
|          | 1350                   | 90,000                           | 45,899  | 7.72     | 81,120          | 67,159  | 9.22     | 79,730          | 70,633  | 9.51     | 77,436          | 77,436  | 10.17    |
| FAPU-120 | 1200                   | 107,027                          | 51,549  | 10.36    | 97,239          | 75,346  | 12.35    | 96,086          | 79,357  | 12.57    | 92,426          | 86,568  | 13.57    |
|          | 1500                   | 114,831                          | 56,364  | 10.51    | 104,329         | 82,383  | 12.54    | 103,091         | 86,769  | 12.76    | 99,165          | 94,654  | 13.78    |
|          | 1800                   | 120,000                          | 60,966  | 10.61    | 109,026         | 89,110  | 12.67    | 107,732         | 93,854  | 12.90    | 103,629         | 102,382 | 13.93    |
| FAPU-150 | 1600                   | 136,128                          | 65,787  | 13.29    | 123,661         | 95,821  | 15.83    | 122,149         | 100,902 | 16.16    | 117,073         | 109,789 | 17.39    |
|          | 1900                   | 143,372                          | 70,405  | 13.43    | 130,242         | 102,546 | 16.00    | 128,649         | 107,984 | 16.34    | 123,303         | 117,495 | 17.58    |
|          | 2250                   | 150,000                          | 75,462  | 13.56    | 136,263         | 109,912 | 16.16    | 134,597         | 115,741 | 16.51    | 129,003         | 125,935 | 17.76    |
| FAPU-180 | 1900                   | 163,577                          | 79,134  | 16.73    | 149,689         | 115,613 | 19.59    | 147,369         | 121,622 | 20.13    | 142,507         | 132,924 | 21.27    |
|          | 2300                   | 173,331                          | 85,476  | 16.87    | 158,615         | 124,878 | 19.78    | 156,157         | 131,368 | 20.33    | 151,005         | 143,577 | 21.47    |
|          | 2700                   | 180,000                          | 91,666  | 16.97    | 164,718         | 133,922 | 19.90    | 162,165         | 140,882 | 20.45    | 156,815         | 153,975 | 21.61    |
| FAPU-210 | 2150                   | 188,621                          | 91,013  | 18.69    | 174,714         | 134,305 | 22.12    | 171,783         | 141,341 | 22.78    | 165,630         | 154,263 | 24.17    |
|          | 2650                   | 201,362                          | 99,010  | 18.90    | 186,516         | 146,106 | 22.40    | 183,387         | 153,759 | 23.07    | 176,818         | 167,817 | 24.47    |
|          | 3150                   | 210,000                          | 106,741 | 19.05    | 194,517         | 157,515 | 22.58    | 191,253         | 165,766 | 23.26    | 184,403         | 180,922 | 24.68    |
| FAPU-240 | 2400                   | 213,657                          | 102,888 | 20.64    | 194,710         | 149,146 | 24.65    | 191,258         | 157,005 | 25.43    | 184,009         | 171,184 | 27.06    |
|          | 3000                   | 229,390                          | 112,541 | 20.93    | 209,048         | 163,139 | 25.02    | 205,343         | 171,735 | 25.81    | 197,560         | 187,244 | 27.47    |
|          | 3600                   | 240,000                          | 121,816 | 21.13    | 218,717         | 176,584 | 25.27    | 214,840         | 185,888 | 26.07    | 206,697         | 202,676 | 27.75    |

See note on page 9

## PERFORMANCE DATA TABLES

| Model    | Indoor Air Flow<br>CFM | Entering Air Temperature (DB/WB) |         |          |                 |         |          |                 |         |          |                 |         |          |
|----------|------------------------|----------------------------------|---------|----------|-----------------|---------|----------|-----------------|---------|----------|-----------------|---------|----------|
|          |                        | 95/80 ° F                        |         |          | 115/80 ° F      |         |          | 118.4/80 ° F    |         |          | 125/80 ° F      |         |          |
|          |                        | 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.    |          |
| FAPU-300 | 3100                   | 269,977                          | 130,067 | 24.58    | 245,225         | 187,623 | 29.49    | 239,866         | 195,947 | 30.42    | 230,170         | 192,596 | 32.40    |
|          | 3800                   | 287,845                          | 140,992 | 24.93    | 261,455         | 203,384 | 29.94    | 255,741         | 212,407 | 30.89    | 245,403         | 208,774 | 32.90    |
|          | 4500                   | 300,000                          | 151,535 | 25.18    | 272,496         | 218,591 | 30.25    | 266,541         | 228,289 | 31.21    | 255,766         | 224,385 | 33.25    |
| FAPU-360 | 3700                   | 325,256                          | 157,148 | 30.55    | 296,180         | 229,622 | 36.24    | 289,605         | 240,036 | 37.32    | 283,053         | 266,238 | 39.83    |
|          | 4500                   | 345,030                          | 169,886 | 30.99    | 314,186         | 248,236 | 36.79    | 307,212         | 259,494 | 37.88    | 300,261         | 287,821 | 40.44    |
|          | 5400                   | 360,000                          | 183,716 | 31.33    | 327,818         | 268,443 | 37.21    | 320,541         | 280,618 | 38.32    | 313,289         | 311,250 | 40.91    |
| FAPU-420 | 4300                   | 377,199                          | 181,921 | 35.79    | 344,806         | 264,603 | 42.18    | 338,662         | 277,982 | 43.43    | 326,236         | 303,146 | 46.01    |
|          | 5300                   | 402,612                          | 197,761 | 36.21    | 368,036         | 287,642 | 42.70    | 361,478         | 302,186 | 43.97    | 348,215         | 329,541 | 46.60    |
|          | 6300                   | 420,000                          | 213,081 | 36.51    | 383,931         | 309,925 | 43.07    | 377,089         | 325,595 | 44.36    | 363,254         | 355,070 | 47.02    |
| FAPU-480 | 5000                   | 435,050                          | 210,521 | 39.93    | 397,520         | 308,463 | 47.43    | 390,102         | 324,195 | 48.90    | 377,748         | 355,055 | 52.08    |
|          | 6100                   | 461,797                          | 228,094 | 40.43    | 421,960         | 334,212 | 48.06    | 414,086         | 351,257 | 49.55    | 400,972         | 384,693 | 52.79    |
|          | 7200                   | 480,000                          | 245,230 | 40.79    | 438,593         | 359,320 | 48.50    | 430,408         | 377,645 | 50.01    | 416,778         | 413,593 | 53.28    |
| FAPU-540 | 5500                   | 483,657                          | 233,417 | 45.00    | 439,723         | 339,489 | 53.94    | 431,280         | 356,595 | 55.62    | 415,815         | 389,678 | 59.24    |
|          | 6800                   | 518,422                          | 254,887 | 45.67    | 471,330         | 370,716 | 54.79    | 462,280         | 389,394 | 56.52    | 445,703         | 425,521 | 60.20    |
|          | 8100                   | 540,000                          | 274,539 | 46.10    | 490,948         | 399,298 | 55.34    | 481,522         | 419,417 | 57.08    | 464,255         | 458,329 | 60.82    |
| FAPU-600 | 6200                   | 543,934                          | 263,190 | 50.66    | 491,974         | 385,142 | 60.63    | 481,847         | 404,667 | 62.48    | 463,123         | 438,300 | 66.51    |
|          | 7600                   | 577,771                          | 285,563 | 51.41    | 522,579         | 417,882 | 61.59    | 511,822         | 439,067 | 63.47    | 491,933         | 475,559 | 67.59    |
|          | 9000                   | 600,000                          | 306,760 | 51.95    | 542,684         | 448,901 | 62.28    | 531,514         | 471,658 | 64.18    | 510,859         | 491,797 | 68.36    |

## 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 95°/80°F entering air temperature.
2. Direct interpolation is permissible - Do not extrapolate.

## UNIT ELECTRICAL DATA

| MODEL    | POWER SUPPLY | VOLTAGE RANGE |      | Condenser Fan Motor |      | Compressor 1 |       | Compressor 1 |       | Evaporator Blower Motor |      | MCA   | MOCP |
|----------|--------------|---------------|------|---------------------|------|--------------|-------|--------------|-------|-------------------------|------|-------|------|
|          | (V-PH-HZ)    | MIN.          | MAX. | HP                  | FLA  | RLA          | LRA   | RLA          | LRA   | HP (KW)                 | FLA  |       |      |
| FAPU-048 | 415-3-50     | 374           | 457  | 0.5                 | 3.0  | 10.7         | 64.0  | -            | -     | 1.0 (0.75)              | 1.8  | 18.2  | 25   |
| FAPU-060 | 415-3-50     | 374           | 457  | 0.5                 | 3.0  | 10.9         | 64.0  | -            | -     | 1.0 (0.75)              | 1.8  | 18.4  | 25   |
| FAPU-072 | 415-3-50     | 374           | 457  | 0.75                | 3.0  | 12.5         | 75.0  | -            | -     | 1.0 (0.75)              | 1.8  | 20.4  | 30   |
| FAPU-090 | 415-3-50     | 374           | 457  | 0.75                | 3.0  | 14.5         | 101.0 | -            | -     | 1.5 (1.10)              | 2.5  | 23.6  | 35   |
| FAPU-120 | 415-3-50     | 374           | 457  | 1.5                 | 3.0  | 17.9         | 139.0 | -            | -     | 2.0 (1.50)              | 3.6  | 29.0  | 45   |
| FAPU-150 | 415-3-50     | 374           | 457  | 0.75 (2)            | 3.0  | 13.6         | 100.0 | 13.6         | 100.0 | 3.0 (2.20)              | 4.5  | 41.1  | 50   |
| FAPU-180 | 415-3-50     | 374           | 457  | 1.5 (2)             | 3.0  | 14.5         | 101.0 | 14.5         | 101.0 | 4.0 (3.00)              | 6.1  | 44.7  | 50   |
| FAPU-210 | 415-3-50     | 374           | 457  | 1.5 (2)             | 3.0  | 17.9         | 139.0 | 14.5         | 101.0 | 4.0 (3.00)              | 6.1  | 49.0  | 60   |
| FAPU-240 | 415-3-50     | 374           | 457  | 1.5 (2)             | 3.0  | 17.9         | 139.0 | 17.9         | 139.0 | 4.0 (3.00)              | 6.1  | 52.4  | 70   |
| FAPU-300 | 415-3-50     | 374           | 457  | 1.5 (2)             | 3.0  | 24.3         | 140.0 | 24.3         | 140.0 | 4.0 (3.00)              | 6.1  | 66.8  | 90   |
| FAPU-360 | 415-3-50     | 374           | 457  | 2.0 (2)             | 3.8  | 28.6         | 174.0 | 28.6         | 174.0 | 5.0 (4.00)              | 7.9  | 79.9  | 100  |
| FAPU-420 | 415-3-50     | 374           | 457  | 1.5 (4)             | 3.00 | 17.9(2)      | 139.0 | 14.5(2)      | 101.0 | 7.5 (5.50)              | 11.0 | 99.1  | 100  |
| FAPU-480 | 415-3-50     | 374           | 457  | 1.5 (4)             | 3.00 | 17.9(2)      | 139.0 | 17.9(2)      | 139.0 | 7.5 (5.50)              | 11.0 | 92.3  | 125  |
| FAPU-540 | 415-3-50     | 374           | 457  | 2.0 (4)             | 3.8  | 20.8(2)      | 144.0 | 17.9(2)      | 139.0 | 7.5 (5.50)              | 11.0 | 108.8 | 125  |
| FAPU-600 | 415-3-50     | 374           | 457  | 2.0 (4)             | 3.8  | 20.8(2)      | 144.0 | 20.8(2)      | 144.0 | 10.0 (7.50)             | 14.0 | 117.6 | 125  |

### 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

| Model    | CFM  | External Static Pressure [in.wg] |      |      |      |      |      |      |      |      |      |
|----------|------|----------------------------------|------|------|------|------|------|------|------|------|------|
|          |      | 1.00                             |      | 1.50 |      | 2.00 |      | 2.50 |      | 3.00 |      |
|          |      | RPM                              | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  |
| FAPU-048 | 500  | 3797                             | 0.29 | 4105 | 0.38 | 4392 | 0.44 | 4662 | 0.52 | 4918 | 0.60 |
|          | 610  | 3943                             | 0.35 | 4238 | 0.43 | 4515 | 0.49 | 4776 | 0.59 | 5024 | 0.67 |
|          | 720  | 4116                             | 0.42 | 4398 | 0.49 | 4664 | 0.58 | 4915 | 0.67 | 5155 | 0.76 |
| FAPU-060 | 610  | 3943                             | 0.35 | 4238 | 0.43 | 4515 | 0.49 | 4776 | 0.59 | 5024 | 0.67 |
|          | 750  | 4167                             | 0.43 | 4446 | 0.52 | 4708 | 0.60 | 4957 | 0.70 | 5195 | 0.79 |
|          | 900  | 4445                             | 0.54 | 4705 | 0.63 | 4953 | 0.72 | 5189 | 0.83 | 5415 | 0.92 |
| FAPU-072 | 750  | 4167                             | 0.43 | 4446 | 0.52 | 4708 | 0.60 | 4957 | 0.70 | 5195 | 0.79 |
|          | 900  | 4445                             | 0.54 | 4705 | 0.63 | 4953 | 0.72 | 5189 | 0.83 | 5415 | 0.92 |
|          | 1080 | 4817                             | 0.70 | 5058 | 0.80 | 5289 | 0.91 | 5510 | 1.02 | 5722 | 1.14 |
| FAPU-090 | 950  | 2838                             | 0.67 | 3056 | 0.82 | 3257 | 0.97 | 3452 | 1.13 | 3638 | 1.29 |
|          | 1150 | 2977                             | 0.82 | 3181 | 0.97 | 3374 | 1.14 | 3560 | 1.30 | 3735 | 1.49 |
|          | 1350 | 3137                             | 0.99 | 3332 | 1.10 | 3516 | 1.34 | 3690 | 1.51 | 3856 | 2    |
| FAPU-120 | 1200 | 3015                             | 0.84 | 3218 | 1.02 | 3407 | 1.18 | 3589 | 1.35 | 3764 | 1.54 |
|          | 1500 | 3270                             | 1.14 | 3457 | 1.33 | 3633 | 1.51 | 3800 | 1.70 | 3964 | 1.90 |
|          | 1800 | 3560                             | 1.51 | 3731 | 1.73 | 3894 | 1.93 | 4049 | 2.16 | 4200 | 2.37 |
| FAPU-150 | 1600 | 2758                             | 1.53 | 2935 | 1.35 | 3104 | 1.57 | 3263 | 1.79 | 3415 | 2.02 |
|          | 1900 | 2946                             | 1.45 | 3111 | 1.68 | 3268 | 1.92 | 3419 | 2.16 | 3563 | 2.41 |
|          | 2250 | 3189                             | 1.89 | 3342 | 2.14 | 3487 | 2.41 | 3628 | 2.68 | 3764 | 2.95 |
| FAPU-180 | 1900 | 2946                             | 1.45 | 3111 | 1.68 | 3268 | 1.92 | 3419 | 2.16 | 3563 | 2.41 |
|          | 2300 | 3227                             | 1.96 | 3376 | 2.22 | 3520 | 2.49 | 3659 | 2.76 | 3793 | 3.04 |
|          | 2700 | 3531                             | 2.59 | 3671 | 2.89 | 3802 | 3.20 | 3931 | 3.51 | 4055 | 3.82 |
| FAPU-210 | 2150 | 2405                             | 1.30 | 2553 | 1.54 | 2695 | 1.77 | 2830 | 2.02 | 2963 | 2.28 |
|          | 2650 | 2623                             | 1.74 | 2760 | 2.01 | 2890 | 2.28 | 3013 | 2.56 | 3134 | 2.84 |
|          | 3150 | 2858                             | 2.26 | 2987 | 2.59 | 3111 | 2.89 | 3227 | 3.22 | 3339 | 3.54 |

### 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, 2" washable filter and bag filter.
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.

## FAN PERFORMANCE

| Model    | CFM  | External Static Pressure [in.wg] |      |      |      |      |      |      |      |      |      |
|----------|------|----------------------------------|------|------|------|------|------|------|------|------|------|
|          |      | 1.00                             |      | 1.50 |      | 2.00 |      | 2.50 |      | 3.00 |      |
|          |      | RPM                              | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  | RPM  | BHP  |
| FAPU-240 | 2400 | 2511                             | 1.51 | 2653 | 1.76 | 2788 | 2.01 | 2917 | 2.28 | 3042 | 2.55 |
|          | 3000 | 2785                             | 2.10 | 2918 | 2.40 | 3043 | 2.69 | 3162 | 3.10 | 3275 | 3.31 |
|          | 3600 | 3075                             | 2.86 | 3202 | 3.20 | 3322 | 3.55 | 3432 | 3.91 | 3539 | 4.28 |
| FAPU-300 | 3100 | 2199                             | 1.84 | 2330 | 2.13 | 2457 | 2.44 | 2582 | 2.76 | 2704 | 3.10 |
|          | 3800 | 2410                             | 2.47 | 2527 | 2.82 | 2640 | 3.18 | 2748 | 3.55 | 2855 | 3.93 |
|          | 4500 | 2637                             | 3.24 | 2748 | 3.66 | 2852 | 4.09 | 2953 | 4.50 | 3049 | 4.93 |
| FAPU-360 | 3700 | 1916                             | 2.14 | 2037 | 2.51 | 2154 | 2.89 | 2269 | 3.28 | 2384 | 3.69 |
|          | 4500 | 2079                             | 2.82 | 2187 | 3.24 | 2290 | 3.69 | 2391 | 4.13 | 2489 | 4.57 |
|          | 5400 | 2282                             | 3.77 | 2382 | 4.26 | 2476 | 4.77 | 2567 | 5.28 | 2655 | 5.80 |
| FAPU-420 | 4300 | 2036                             | 2.64 | 2146 | 3.06 | 2253 | 3.47 | 2356 | 3.90 | 2458 | 4.33 |
|          | 5300 | 2258                             | 3.65 | 2359 | 4.14 | 2455 | 4.64 | 2546 | 5.15 | 2635 | 5.66 |
|          | 6300 | 2495                             | 4.95 | 2589 | 5.51 | 2679 | 6.09 | 2764 | 6.68 | -    | -    |
| FAPU-480 | 5000 | 1723                             | 2.89 | 1826 | 3.38 | 1926 | 3.89 | 2023 | 4.41 | 2120 | 4.96 |
|          | 6100 | 1881                             | 3.85 | 1975 | 4.41 | 2064 | 5.00 | 2150 | 5.58 | 2234 | 6.18 |
|          | 7200 | 2048                             | 5.07 | 2138 | 5.70 | 2223 | 6.35 | 2303 | 7.02 | 2380 | 7.69 |
| FAPU-540 | 5500 | 1468                             | 3.07 | 1568 | 3.65 | 1666 | 4.24 | 1763 | 4.85 | 1857 | 5.50 |
|          | 6800 | 1589                             | 4.05 | 1677 | 4.70 | 1762 | 5.36 | 1844 | 6.06 | 1925 | 6.76 |
|          | 8100 | 1725                             | 5.28 | 1808 | 6.02 | 1886 | 6.78 | 1961 | 7.55 | 2033 | 8.32 |
| FAPU-600 | 6200 | 1530                             | 3.57 | 1623 | 4.18 | 1712 | 4.81 | 1800 | 5.47 | 1887 | 6.14 |
|          | 7600 | 1672                             | 4.77 | 1756 | 5.48 | 1836 | 6.21 | 1913 | 6.93 | 1988 | 7.69 |
|          | 9000 | 1823                             | 6.30 | 1904 | 7.10 | 1979 | 7.92 | 2051 | 8.75 | 2120 | 9.60 |

### LEGEND:

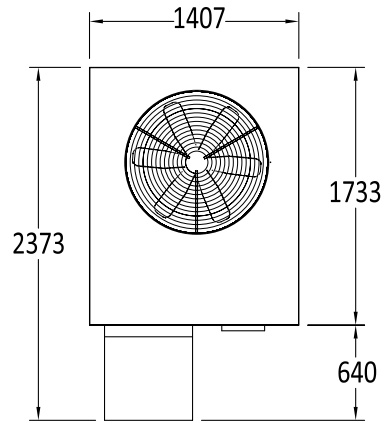
RPM : Fan Speed in revolution per minute  
 BHP : Fan absorbed power

#### Note:

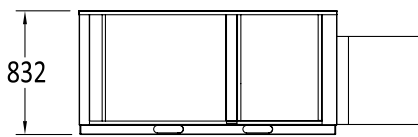
1. Internal Static pressure is based on pressure drops through evaporator coil, fan casing, 2" washable filter and bag filter.
2. Blue shaded area indicates the operating range of a standard motor and drive combination.
3. Green shaded area indicates the operating range of a standard motor with non standard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

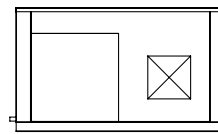
FAPU-048/060/072/090  
ALL DIMENSIONS ARE IN MM



TOP VIEW

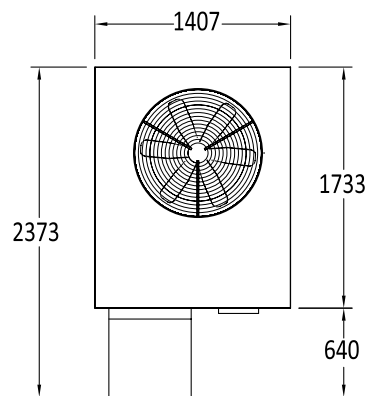


SIDE VIEW

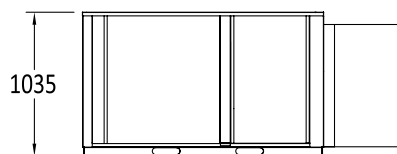


FRONT VIEW

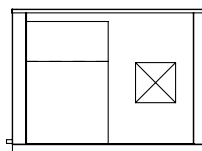
FAPU-120  
ALL DIMENSIONS ARE IN MM



TOP VIEW



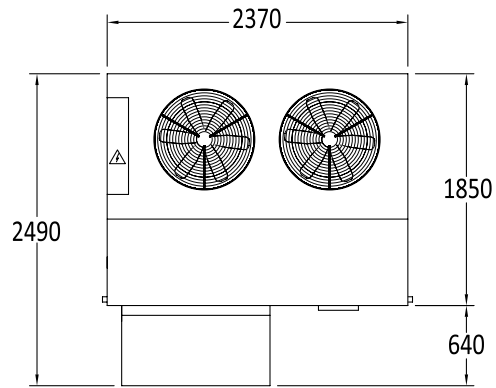
SIDE VIEW



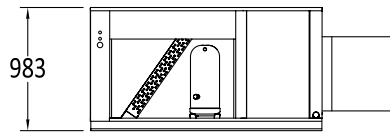
FRONT VIEW

## UNIT DIMENSIONS

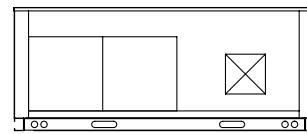
**FAPU-150/180**  
ALL DIMENSIONS ARE IN MM



TOP VIEW

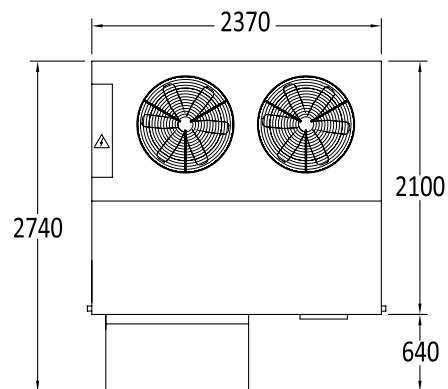


SIDE VIEW

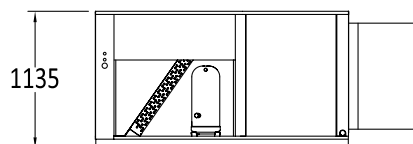


FRONT VIEW

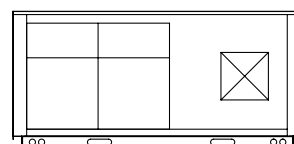
**FAPU-210/240**  
ALL DIMENSIONS ARE IN MM



TOP VIEW



SIDE VIEW

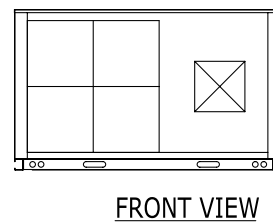
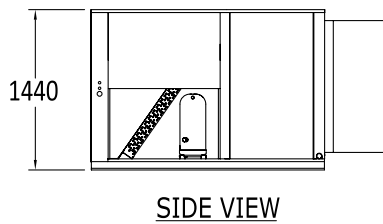
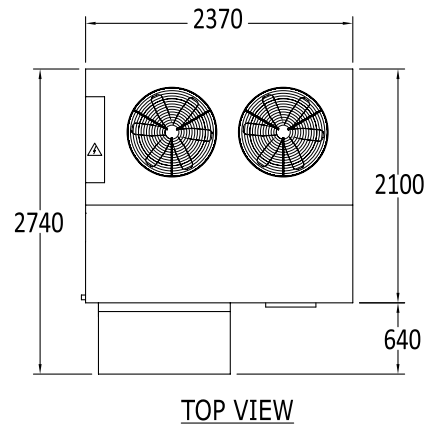


FRONT VIEW

## UNIT DIMENSIONS

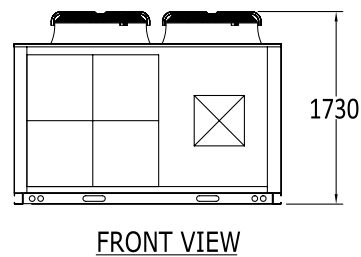
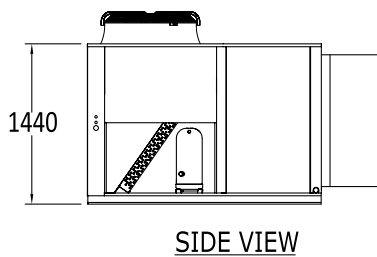
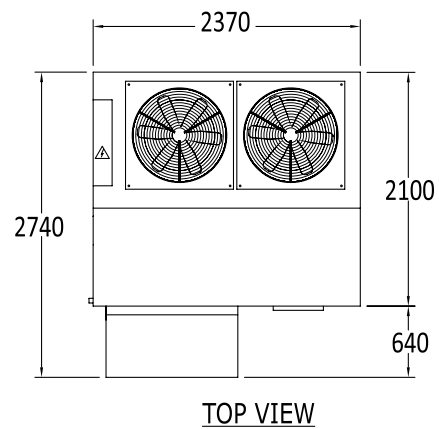
### FAPU-300

ALL DIMENSIONS ARE IN MM



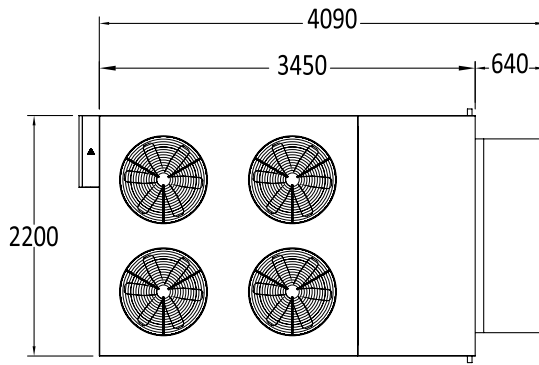
### FAPU-360

ALL DIMENSIONS ARE IN MM





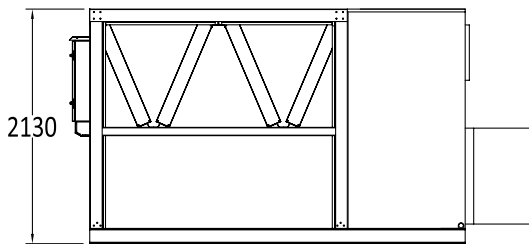
## UNIT DIMENSIONS



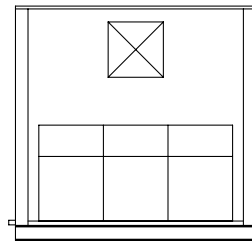
TOP VIEW

### FAPU-420/480

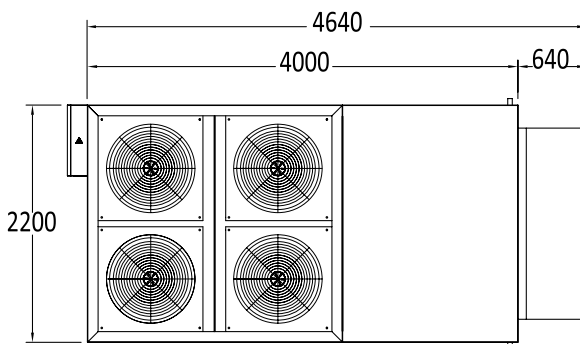
ALL DIMENSIONS ARE IN MM



FRONT VIEW



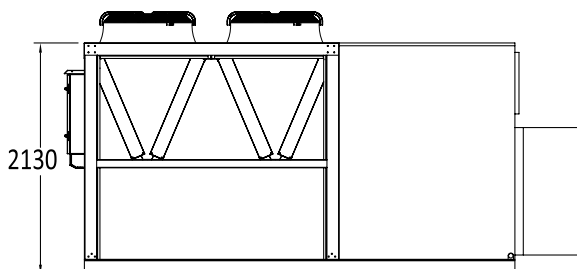
SIDE VIEW



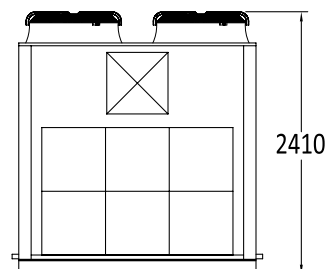
TOP VIEW

### FAPU-540/600

ALL DIMENSIONS ARE IN MM

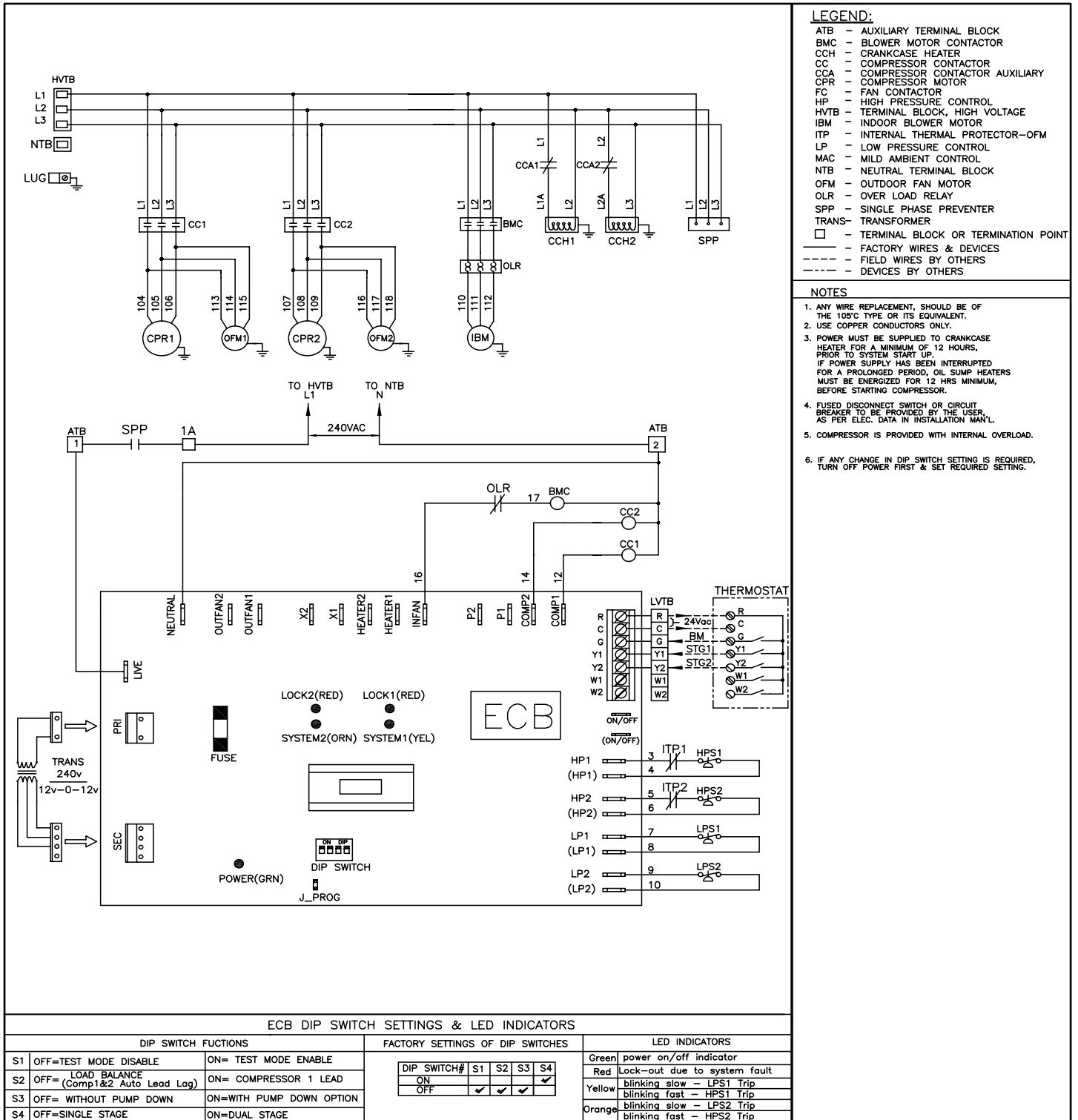


FRONT VIEW

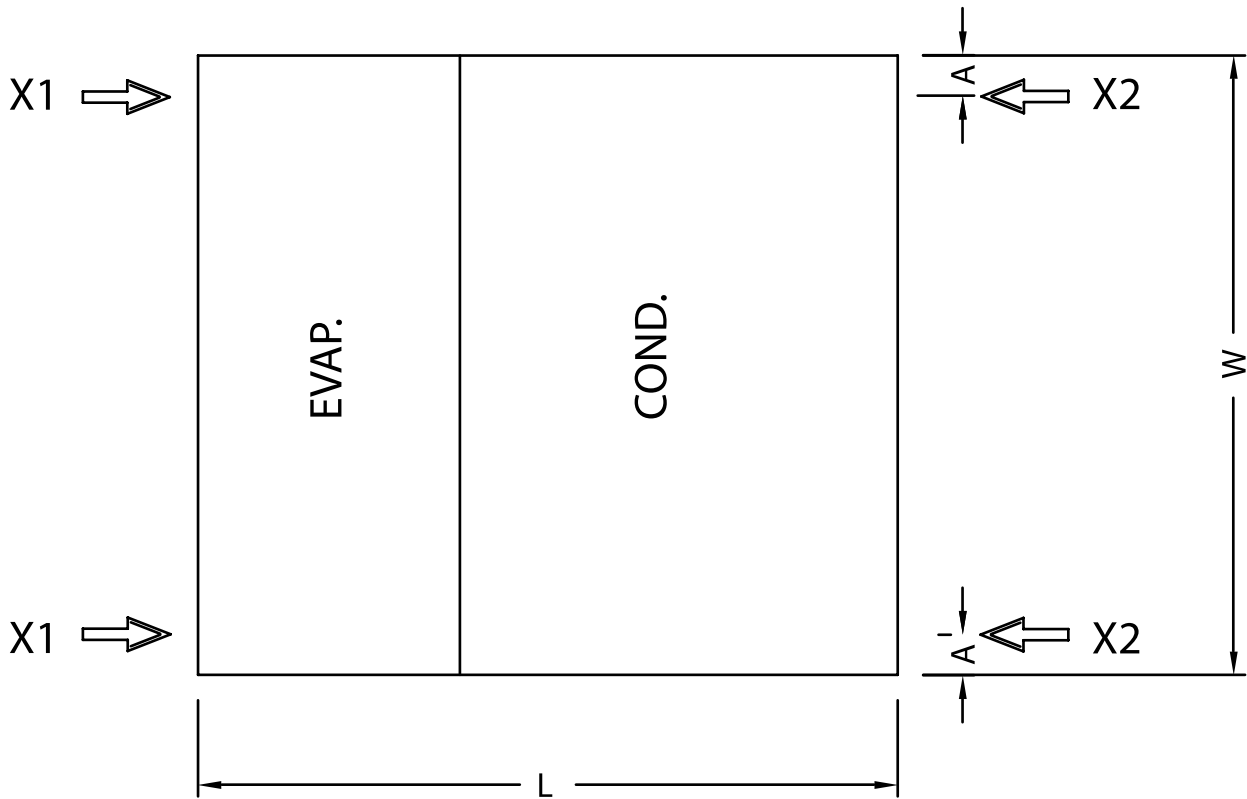


SIDE VIEW

## TYPICAL WIRING DIAGRAM WITH MICROPROCESSOR BASED CONTROLLER (STANDARD)

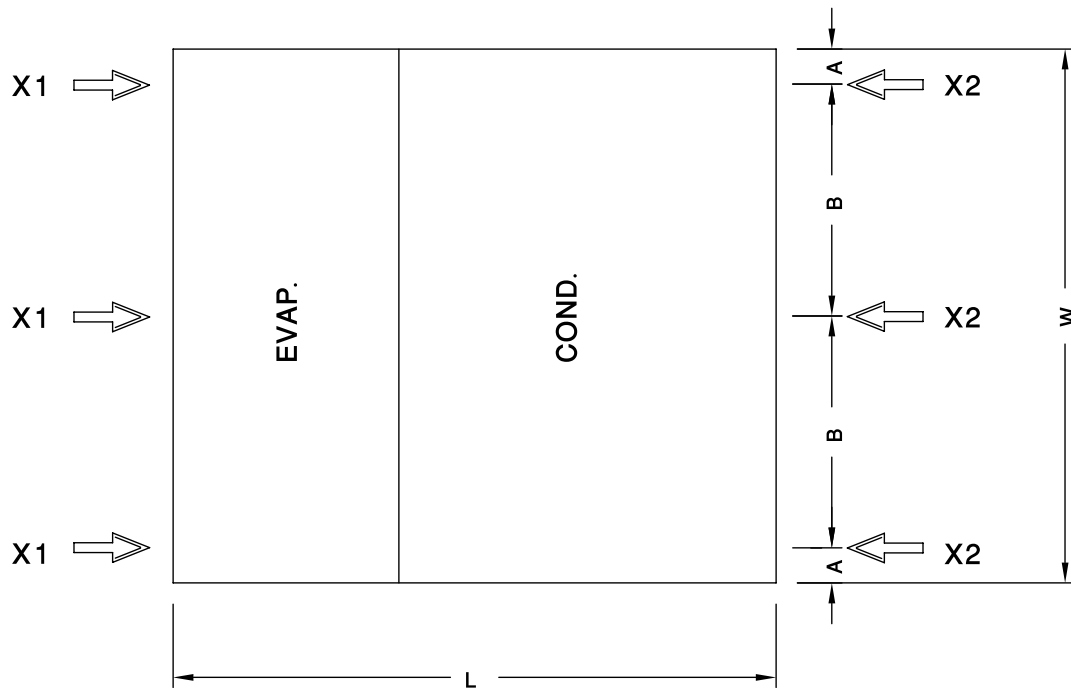


## LOAD DISTRIBUTION



| MODEL    | LOAD DISTRIBUTION (kg) |        |        |         |         | Total Weight |
|----------|------------------------|--------|--------|---------|---------|--------------|
|          | L (mm)                 | W (mm) | A (mm) | X1 (kg) | X2 (kg) |              |
| FAPU-048 | 1733                   | 1407   | 75     | 78      | 87      | 330          |
| FAPU-060 | 1733                   | 1407   | 75     | 80      | 88      | 335          |
| FAPU-072 | 1733                   | 1407   | 75     | 81      | 90      | 343          |
| FAPU-090 | 1733                   | 1407   | 75     | 83      | 92      | 350          |
| FAPU-120 | 1733                   | 1407   | 75     | 101     | 111     | 424          |

## LOAD DISTRIBUTION



| LOAD DISTRIBUTION (kg) |        |        |        |        |         |         | Total Weight |
|------------------------|--------|--------|--------|--------|---------|---------|--------------|
| MODEL                  | L (mm) | W (mm) | A (mm) | B (mm) | X1 (kg) | X2 (kg) |              |
| FAPU-150               | 2370   | 1850   | 125    | 800    | 105     | 116     | 663          |
| FAPU-180               | 2370   | 1850   | 125    | 800    | 109     | 121     | 689          |
| FAPU-210               | 2370   | 2100   | 125    | 925    | 124     | 137     | 780          |
| FAPU-240               | 2370   | 2100   | 125    | 925    | 126     | 139     | 795          |
| FAPU-300               | 2370   | 2100   | 125    | 925    | 173     | 191     | 1091         |
| FAPU-360               | 2370   | 2100   | 125    | 925    | 185     | 204     | 1166         |
| FAPU-420               | 3450   | 2200   | 125    | 975    | 283     | 312     | 1785         |
| FAPU-480               | 3450   | 2200   | 125    | 975    | 294     | 325     | 1858         |
| FAPU-540               | 4000   | 2200   | 125    | 975    | 313     | 346     | 1979         |
| FAPU-600               | 4000   | 2200   | 125    | 975    | 319     | 352     | 2012         |

**NOTES**

## About RIC

Refrigeration Industries Company (KSE 504) is a group holding company with diversified interests in manufacturing, contracting and services. Recognized regionally for our engineering capabilities and management excellence, RIC and its subsidiaries offer a wide range of high quality products and services that cater to both residential and commercial customers, in the areas of climate control technologies and specialized storage solutions.

In view of the growing Kuwait infrastructure and the limitations imposed on it by the country's arid climate, the Refrigeration Industries Company was established 43 years ago in 1973, by Amiri Decree. The company's operations began with the construction of the first cold stores in the region, to enable the storage of the imported foods, on which Kuwait relied. Along with the development and advancement of the country, so has RIC prospered and expanded, and is now a milestone in the history of modern Kuwait.

RIC takes pride in its successful record and the many accolades it has garnered over time, but the greatest achievement has been the provision of comfort and protection from the harsh climate, to the people of Kuwait.

More than 43 years of uninterrupted service, overcoming extreme weather conditions, war, economic recessions and ever increasing competition, is testimony to the fact that RIC has met the expectations and responsibilities that was envisioned at the beginning and also highlights the tenacity and vision to exceed them in the future.

## 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 Sulaihya.
- 1981 Production of Package & Mini-Split A/Cs started under York-Gulf.
- 1984 RIC was listed in Kuwait Stock Exchange.
- 1986 COOLEX brand Production Launched.
- 1991 RIC rebuilt the manufacturing plant destroyed during the war.
- 1997 Achieved ISO Certification ISO 9001:1994.
- 2002 ETL Designed testing lab became fully operational.
- 2004 Privatization of RIC.
- 2010 COOLEX becomes the first A/C Unit to Pass MEW's new regulations.
- 2010 RIC Factory Renovation and Expansion into neighboring countries.
- 2012 Achieved UL & AHRI Certification for Coolex Units.
- 2014 Achieved SASO Certification for Concealed Ducted Split Series.
- 2014 Achieved EUROVENT Certification for Air Handling Units AHU.
- 2014 Achieved UL Certification for Air Cooled Chillers.
- 2015 Achieved ISO 17025 Certification for Psychrometric Laboratory.
- 2016 Achieved Energy Efficiency Certification for Concealed Ducted Split Series & Rooftop Package units (Kingdom of Bahrain).

## نبذة عن الشركة

شركة صناعات التبريد (متداولة في سوق الكويت للأوراق المالية برقم 504) هي شركة متنوعة الأنشطة تعمل في مجال التصنيع والمقاولات والخدمات. ونحن نقدم مجموعة كبيرة من المنتجات والخدمات والحلول التقنية في مجال مواجهة الظروف المناخية وحلول التخزين. وقد حازت الشركة على إعراف إقليمي بقدراتها الهندسية وكفاءتها الإدارية.

شركة صناعات التبريد هي مجموعة شركات تهدف إلى توفير أعلى مستويات الجودة من حيث المنتجات والخدمات التي تلبى إحتياجات عملائها السكنية والتجارية. وعلى مدى ثلاثة وأربعين عاماً مضت على إنشاء شركتنا فقد إستطعنا أن نوظد أقدامنا في جميع قطاعات السوق الكويتي. ونحن إذ نفتخر بالإنجازات التي حققناها، إلا أننا أشد فخراً بأننا تمكنا من الوقوف إلى جانب أهل الكويت على مدى سنوات طويلة في مواجهة تقلبات الظروف المناخية القاسية سواء من حيث درجات الحرارة العالية أو الأتربة أو الرطوبة.

وباعتبارها إحدى الشركات الصناعية العاملة في دولة الكويت، فقد واجهت الشركة تحديات وأمال كبيرة في سعيها لتحقيق النجاح، وقد كانت الشركة - ولا تزال - معلماً من المعالم المهمة في نظر أهل الكويت لما قدمته من منتجات وخدمات إستطاعت أن تغير الطبيعة القاسية لمناخ الكويت. فبعد نحو 43 عاماً تقريبا، لا يزال السؤال مطروحا حول تحقيقنا لهذه التوقعات، فهل إستطاعت الشركة أن تتحمل مسؤولياتها على الوجه الأكمل؟ ويأتي الرد بالإيجاب، فعلى مدى ثلاثة وأربعين عاماً تقريبا لم تتوقف الشركة خلالها عن الإستمرار في تقديم خدماتها وأعمالها رغم الصعوبات التي تمثلت في ظروف الطقس القاسية أو الحروب أو الكساد الاقتصادي أو إرتفاع حدة المنافسة، فقد كانت كل واحدة من هذه الظروف بمثابة شهادة على أننا حققنا ما وعدنا به وما عقدنا العزم على تنفيذه.

## 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 ISO 17025 لمختبر السيكرومترية.
- 2016 الحصول على شهادة كفاء الطاقة لأجهزة التكييف المنفصلة والوحدات المدمجة (مملكة البحرين).

## COOLEX DISTRIBUTORS

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Email : gm@alnoorprojects.com  
Website: www.alnoorprojects.com

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Website: www.Coolex.com

### Iran

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### Egypt

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### Republic of Iraq

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### Islamic Republic of Pakistan

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