

# COOLEX

## Rooftop Package Inverter CIPK Series 48 - 120 MBH (4 - 10 TR)



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



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## COOLEX HI EFFECIENCY INVERTER PRODUCTS

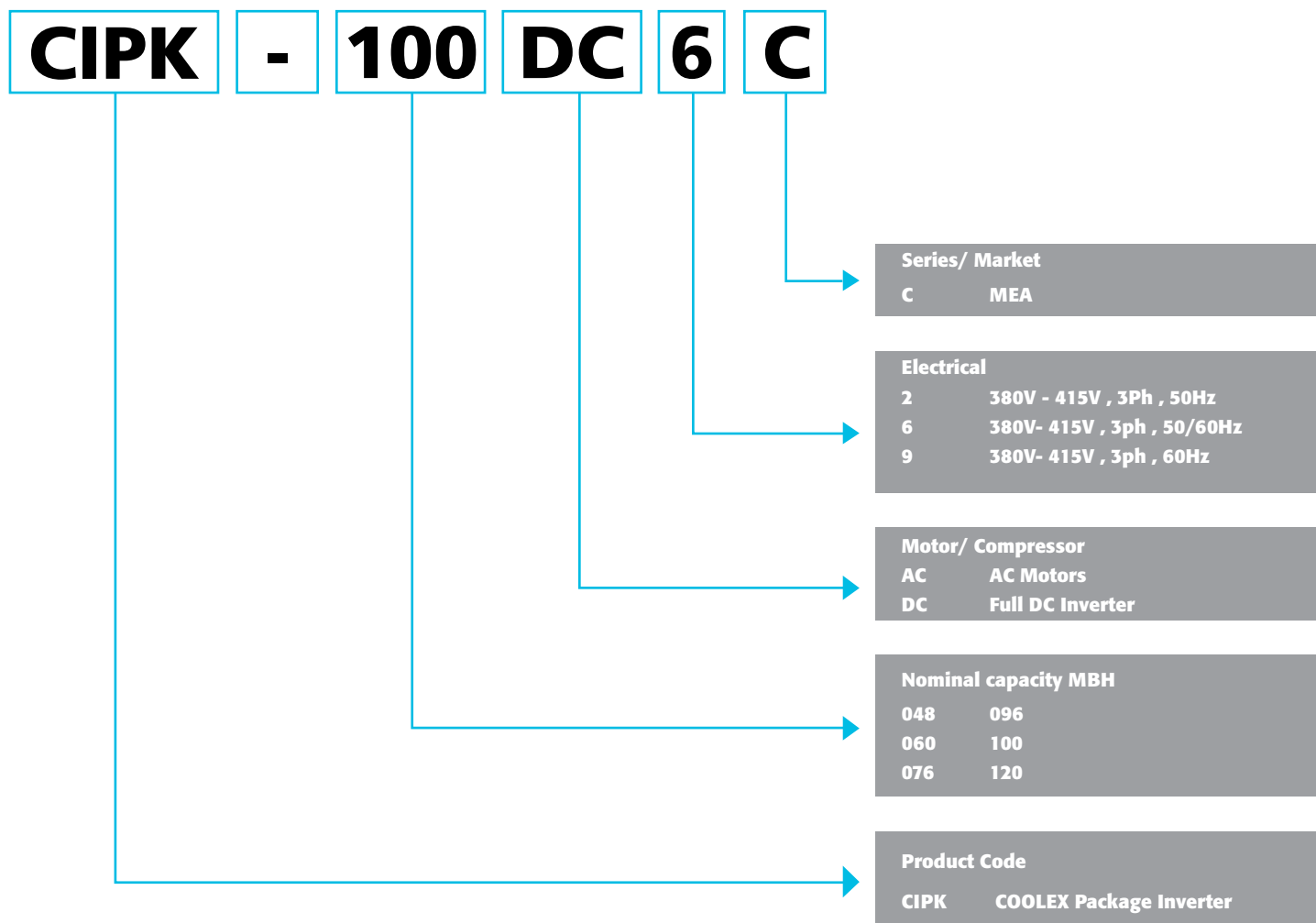
- 1. Split Wall Type Inverter**
- 2. Spit Ducted Inverter**
- 3. Package Type Inverter**
- 4. Variable Refrigerant Flow (VRF)**

## INTRODUCTION

COOLEX Hi Efficiency and latest INVERTER generations product was designed and manufactured to offer the solutions for villas, offices, shops, hospital mosque and other applications under hi ambient and low voltage areas. Compressor are all inverter type match to DC and EC motors.



## NOMENCLATURE OUTDOOR UNIT



## OUTSTANDING FEATURES

### Health



**Fresh Air Intake**

Air outside can be led into the room via a connection pipe, which keeps the indoor air fresh and healthy.



**Long-term Filter**

The latest long-term filter ensures better air quality. Meanwhile, the cleaning frequency has been decreased, and maintenance is also much easier.



**Self-Cleaning**

Indoor unit will continue running with special combined mode to blow and dry indoor evaporator after the unit switch off so as to keep clean and healthy.

### Comfort



**Fast Cooling /Heating**

Startup at high frequency increases cooling/heating capacity and reduces time to reach set temperature, thus you can enjoy cooling and heating in seconds.



**Independent Dehumidification**

With the independent dehumidification function, the unit can efficiently dehumidify the room and give you more comfort.



**Silent**

Indoor fan will run at super breeze speed and indoor noise level can be extremely low when the unit enters silent mode operation.



**Dimmer**

Press this button to shut off the display light on the front panel.

### Reliability



**Self-diagnosis Function**

Once abnormal operation or parts failure happen, the unit will monitor the failures, the microcomputer of air conditioner will switch off and protect the system automatically when it happens. Meanwhile, the error or protection code will be displayed on the indoor unit.



**Blue Fin**

Effectively prevent bacteria breeding and improve heat transfer efficiency. The unique anti-corrosive blue coating on the condenser can withstand the rain, salty air and other corrosive elements.



**Fire-proof Electric Box**

Electrical control box adopts new design, which can meet the higher fire safety requirement to prevent the internal fire due to the electric spark accident.

### Energy Saving



**180° Sine Wave Control**

With considerable advantages, DC Inverter 180° sine wave driving technology has much wider range of frequency and voltage, higher energy efficiency, more smooth running and lower noise.



**Sleep Mode**

The function enables the air conditioner to automatically increase cooling or decrease heating 1°C per hour for the first 2 hours, then holds steady for the next 5 hours, after that it will switch off. This function maintains both energy saving and comfort in night.



**Hydrophilic aluminum fin**

The louvered hydrophilic aluminum foil has improved by more than 10%. There refrigerant inlet and outlet are separated, to ensure the sub-cooling and enhance the cooling capacity.



**Full Process By DC Drive**

DC control, DC Compressor, DC indoor motor, DC outdoor motor, and DC Electronic expansion valve make low noise and high efficiency.

### Convenience



**Remote Control**

Help users to control the air conditioner easily, you can design your most comfortable settings with this controller.



**Wired Control**

Help users to control the air conditioner easily, the wired controller can be fixed on the wall and avoid mislaying. It's mainly used for commercial zone and makes air conditioner control more convenient.



**Central Control**

With the control function of weekly timer, zone (or group) setting etc., the centralized controller can control 64 units with RS 485 wire connection and the central control adapter.

## OUTSTANDING FEATURES

### CIPK Tropical Series



#### VER Technology

##### Variable Energy - Efficiency Regulation

Evaporating and condensing temperature makes strong effect to the cooling performance and energy-efficiency ratio of AC system. CIPK series has various modes with different refrigerant temperature which lead the system to different performance and energy-efficiency ratio.

**Cooling :** 3 modes with different evaporating temperature

##### High Cool Mode :

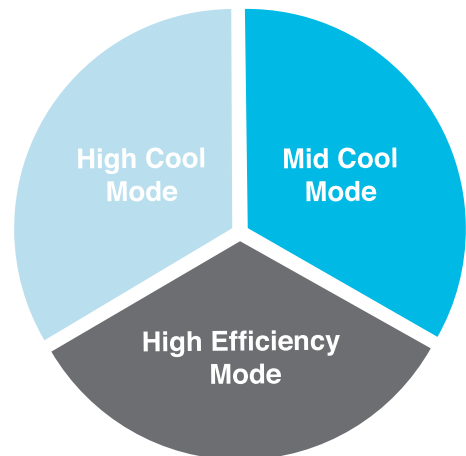
High cooling performance cool down the room rapidly.

##### Mid Cool Mode :

Basic cooling mode performance balance the reaction speed and efficiency.

##### High Efficiency Mode :

Satisfy the lowest capacity requirement and low the energy consumption. Users can choose a certain model according to the actual need in different area and climate so that the system can satisfy various requirement and seasonal efficiency can be optimized.



##### IPLV : Integrated Part Loading Value

The Integrated Part Load Value is a performance characteristic developed by the AHRI, it is most commonly used to describe the performance of AC system capacity modulation. Unlike EER or COP which describe the efficiency at full load conditions. The IPLV is derived from the equipment efficiency while operating at various capacity. Since CIPK package inverter does not always run at 100% capacity the EER /COP is not an ideal representation of typical equipment performance. The IPLV is a very important value to consider since it can affect energy usage and operating costs throughout the lifetime of the equipment.

## OUTSTANDING FEATURES

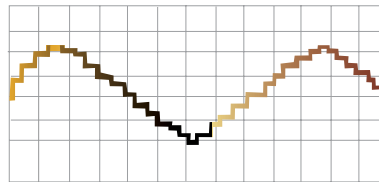
### High Efficiency and Energy Saving

#### High EER

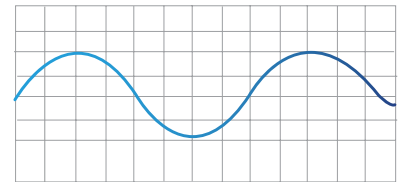
Coollex Package Inverter tropical series have excellent energy efficiency in cooling mode by using DC inverter compressor and motors.

#### 180° Sine Wave Control

DC inverter compressor users 180° sine wave vector control technique makes motor operate smooth and increases the efficiency. significantly compared with traditional sawtooth wave. It also can lower the noise level.



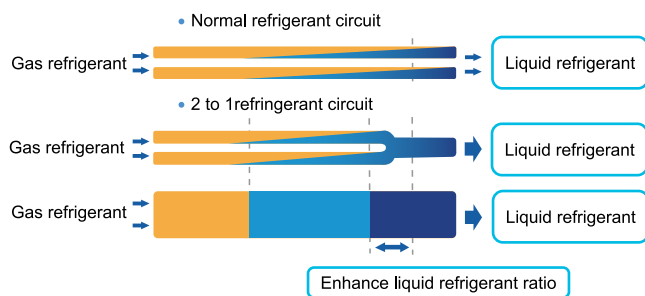
Traditional Control



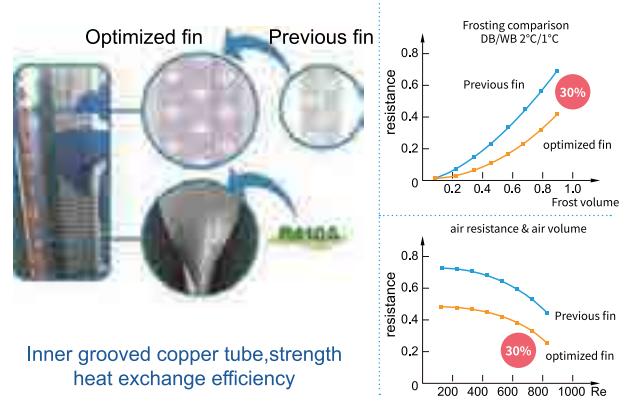
180° Sine Wave DC Control

#### High Efficient Heat Exchanger

Optimized 2 to 1 refrigerant circuit design, increase the heat exchanging efficiency and enhance the ratio of liquid which flow to the evaporator.

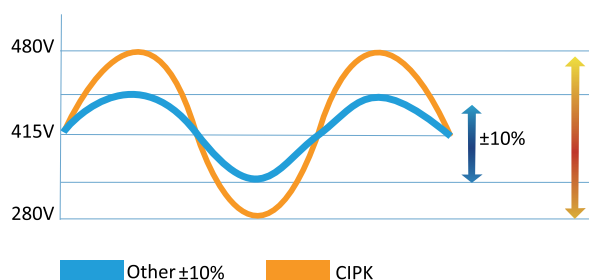


Optimized fin design, reduces the water resistance and wind resistance.



#### Wide Voltage Design

In Country with unstable voltage, CIPK system still could run stably.



## OUTSTANDING FEATURES

### DC Inverter Compressor

#### Pressure relief valve structure

Improving the partial load efficiency, adapt to their transformer ratio working condition, improving the compressor performance.

#### Dynamic oil balance structure

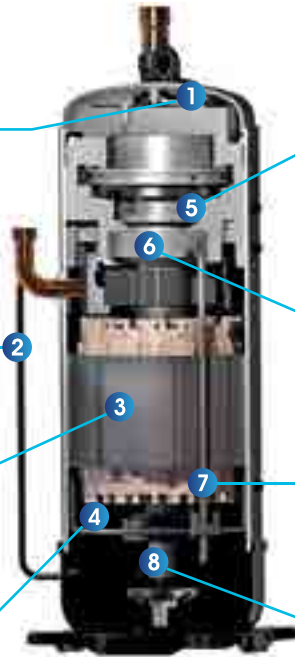
Oil balance tube implementation parallel compressor and oil quantity dynamic equilibrium, ensuring the reliability of several parallel compressors.

#### High efficiency motor configuration

Using high quality material concentrated stator, cooperate with neodymium magnet rotor, having outstanding efficiency.

#### High pressure cavity structure

Large exhaust buffer volume, reducing the air flow noise and vibration of the runtime.



#### The intermediate pressure servo mechanism

According to the operation pressure among dynamic adjusting middle pressure, has realized the axial flexible, optimization of dynamic vortex disk meshing, improve product performance.

#### High reliability of the bearing

Adopt cylinder bearing and self-aligning ball bearing bearing group, improving the reliability of the compressor.

#### Internal oil circulation structure

Lubricating oil to achieve internal circulation, reducing heat loss, decreasing the rate of spitting oil, improve the efficiency and reliability.

#### Positive displacement gear oil pump

Positive displacement gear oil pump to ensure the high and low frequency can satisfy the oil supply, improving the reliability of the compressor.

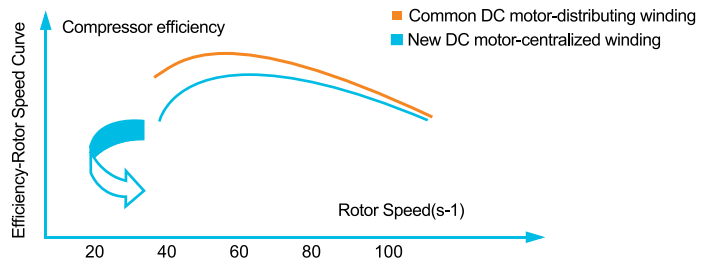
High-efficient permanent magnetic motors are installed, giving better performance than traditional DC inverter compressors.



Centralizing winding



Distributin winding



Powerful magnets provide high torque and efficiency and achieve 70% reduction in volume.

### Hi Efficiency Fan Assembly

Fan motor adjusts the fan speed in stepless controlled by outdoor PCB according to the system operating pressure and running load to enhance the efficiency by reducing the energy consumption and maintain the system best performance.



ECM Plug Fan



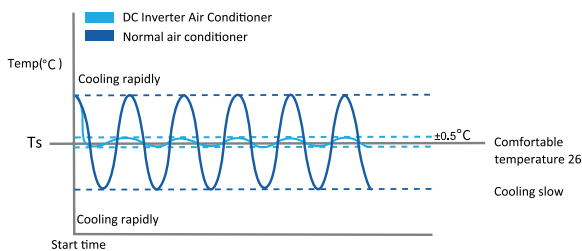
DC Brushless Axial FM



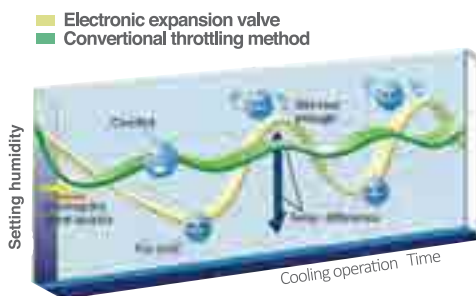
## OUTSTANDING FEATURES

### Precise Temperature Control

COOLEX composite temperature control technology, through the indoor/outdoor operation condition detection, adjust outdoor power output, optimize the indoor air distribution, achieve the high precision adjustment of 0.5°C.

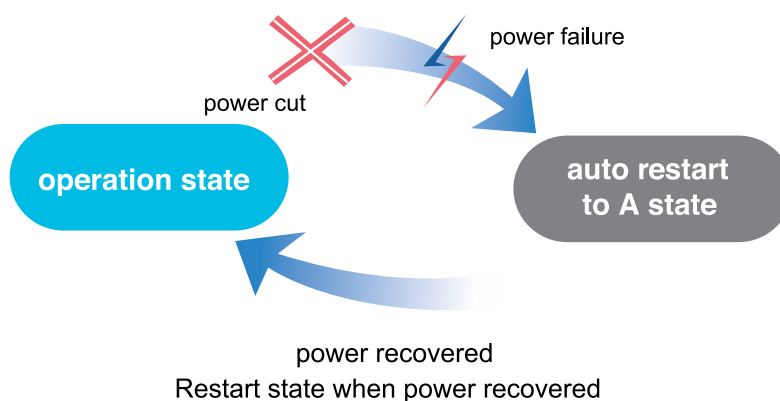


The EEV uses PI calculation principle to calculate the percentage of indoor capacity demand according to indoor temperatures, perform real-time control to compressor operating frequency through EEV precise level adjustment of refrigerant flow.



### Auto Restart Function

The AC can automatically memorize the operation setting when power is cut off accidentally. It can return to previous setting when power resumes. Recover the last operation state when power is re-stored, no need to restart the unit manually.



### LED DISPLAY

LED Display in PCB shows compressor system operation status and error codes.

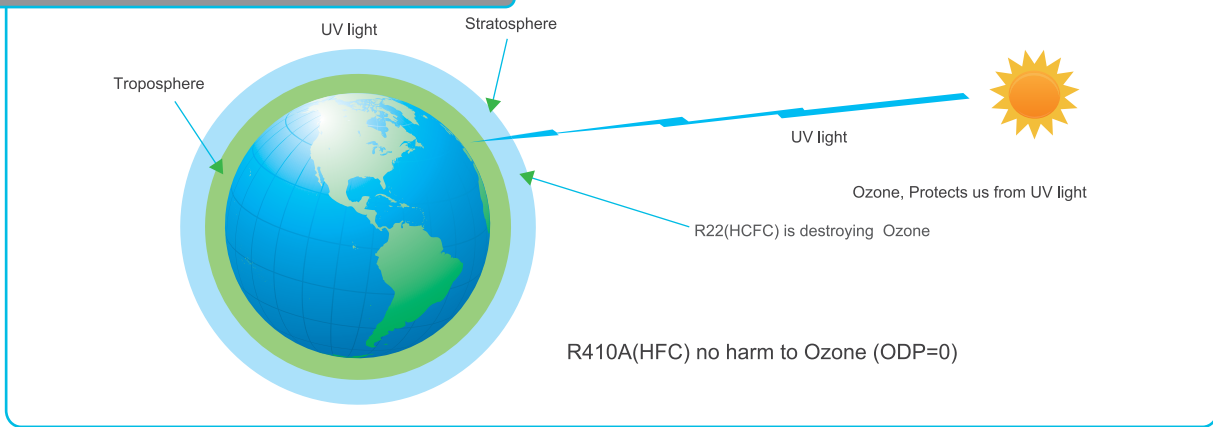


## OUTSTANDING FEATURES

### Comfortable And Healthy Environment

Refrigerant R410A(HFC), low carbon footprint, no harm to Ozone.

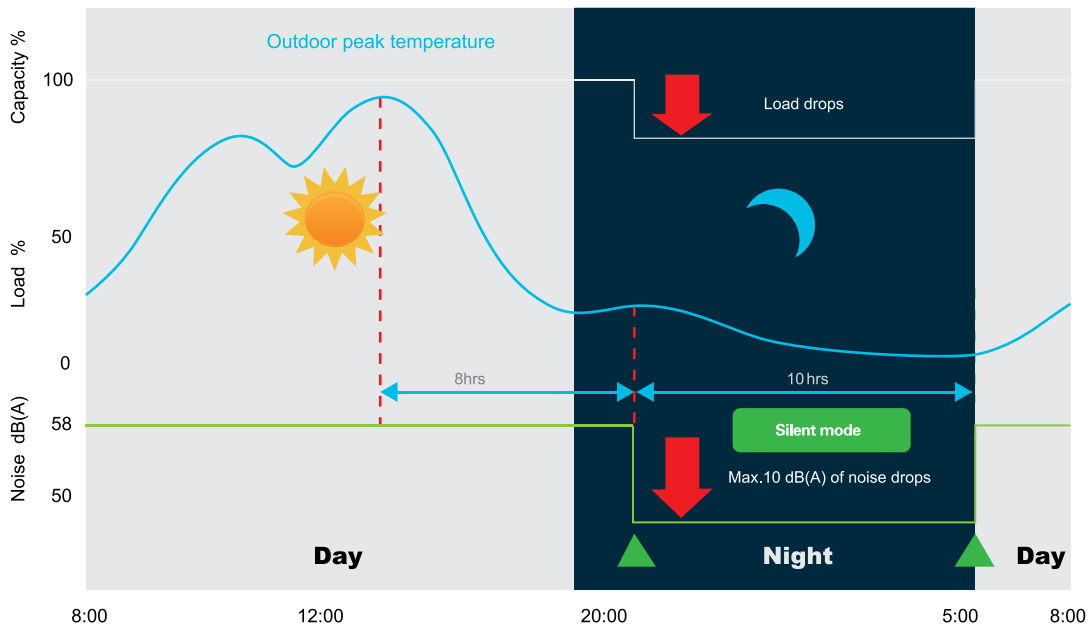
R410A(HFC), low carbon footprint, no harm to Ozone.



### Silence Operation

#### Outdoor Unit Quiet Mode

By using optimized fan assembly with CFD technology, the product is equipped with low noise fan functions. Provide more quite operation during night time thru outdoor PCB sensors technology.



## OUTSTANDING FEATURES

### Better To Be Quieter

Friendly Solution for a Peaceful Environment



✓ EN22958 Tested

✓ UL-94, V2 Tested

## Thermo-Acoustic Shell

- **Up to 10 dB noise reduction**

Taking care by creating a quieter place

- **Testing under UL-94, V2**

Safer from fire

## CONTROL SYSTEM



### Features

#### Built-In Remote Signal Receiver

A signal receiver is built-in the remote controller. Signal from remote controller can be received by wired controller, so the system status could be adjusted using a remote controller.

Remote signal receiver  
Photosensitive sensor receiver



#### User-Friendly & Elegant Design

The XK-05A is a hidden-mode controller specially designed for hotels, hospitals, schools, offices. Fitted with a background light as standard, easy to use in the dark night.



#### Error Reporting

If there is a malfunction, error codes are displayed in the temperature setting area of the controller's display screen.



## CONTROL SYSTEM



### Dimmer

Press this button to shut off the display light on the front panel.



### Auto Restart Function

If the air conditioner breaks off unexpectedly due to the power cut, it will restart with the previous setting mode automatically when the power resume.



### Sleep Mode

The function enables the air conditioner to automatically increase cooling or decrease heating 1°C per hour for the first 2 hours, then holds steady for the next 5 hours, after that it will switch off. This function maintains both energy saving and comfort in night.



### Independent Dehumidification

With the independent dehumidification function, the unit can efficiently dehumidify the room and give you more comfort.



### 24-hour Timer

Users can turn on or turn off the air conditioner at any time in 24 hours with remote controller or wireless controller.



### Self-diagnosis Function

Once abnormal operation or parts failure happen, the unit will monitor the failures, the microcomputer of air conditioner will switch off and protect the system automatically when it happens. Meanwhile, the error or protection code will be displayed on the indoor unit.

## GENERAL SPECIFICATION FULL DC INVERTER

### PACKAGE TROPICAL INVERTER SYSTEM

Unit Model Name			CIPK-048DC6C	CIPK-060DC6C	CIPK-076DC6C	CIPK-090DC6C	CIPK-0100DC6C	CIPK-120DC6C
Power Supply			380~420V-3Ph-50/60Hz					
Nominal Cooling Capacity	MBH		50.0	62.0	76.0	91.0	100.0	120.0
	KW		14.64	18.15	22.25	26.65	29.28	35.13
Compressor	Type	DC INVERTER - Scroll						
Blower Fan	Type / Quantity	EC Plug Fan / 1pc						EC Plug Fan / 2pc
Outdoor Fan	Type / Quantity	EC Axial Fan / 1 pc						
Condenser Coil	Type	Blue Coated Aluminum Fins and IGT 7mm Copper Tubes						
	Number of Rows	3Rows						
Evaporator Coil	Type	Blue Coated Aluminum Fins and IGT 9.52mm Copper Tubes						
	Number of Rows	3Rows				4Rows		
Expansion Device	Type	Electronic Expansion Device						
Air Filter	Type	Washable Aluminum Mesh						
	Thickness	mm	25.4					
Unit Dimension	(WxDxH) Net	mm	1402.8 x 1878 x 1261			1402.8 x 1928 x 1716		2200x2198x1645
Unit Weight	Net	Kg.	320	350	375	420	457	760
Drain Pipe		inch	1-1/4"					

### Electrical and Wiring Data

Electrical Connection and Power Supply			380~420V-3Ph-50/60Hz					
Maximum Power Input	kW		6.9	8.6	9.0	12.0	12.5	14.3
Maximum Current	A		13	14	15	20	21	24
Connection Wire	Power wire size	mm <sup>2</sup>	4			6		
	Signal wire size	mm <sup>2</sup>	0.75 (4-core shielded cable)					

### Operation Temperature Range

Cooling	Outdoor side	°C (°F)	17 ~ 55 (62 ~ 131)					
	Indoor side	°C (°F)	16 ~ 32 (60.8 ~ 89.6)					
Heating	Outdoor side	°C (°F)	-5 ~ 24 (23 ~ 75)					
	Indoor side	°C (°F)	16~32 (60.8 ~ 89.6)					

**Note:**

Cooling capacities are based on Indoor 80.6°F/66.2°F (DB/WB) Outdoor: 95°F/75.2°F (DB/WB).  
Parameters above may be modified due to continues product improvement in quality and performance.  
We keep the right to change the product specifications without prior notice.

## UNIT RATING SUMMARY

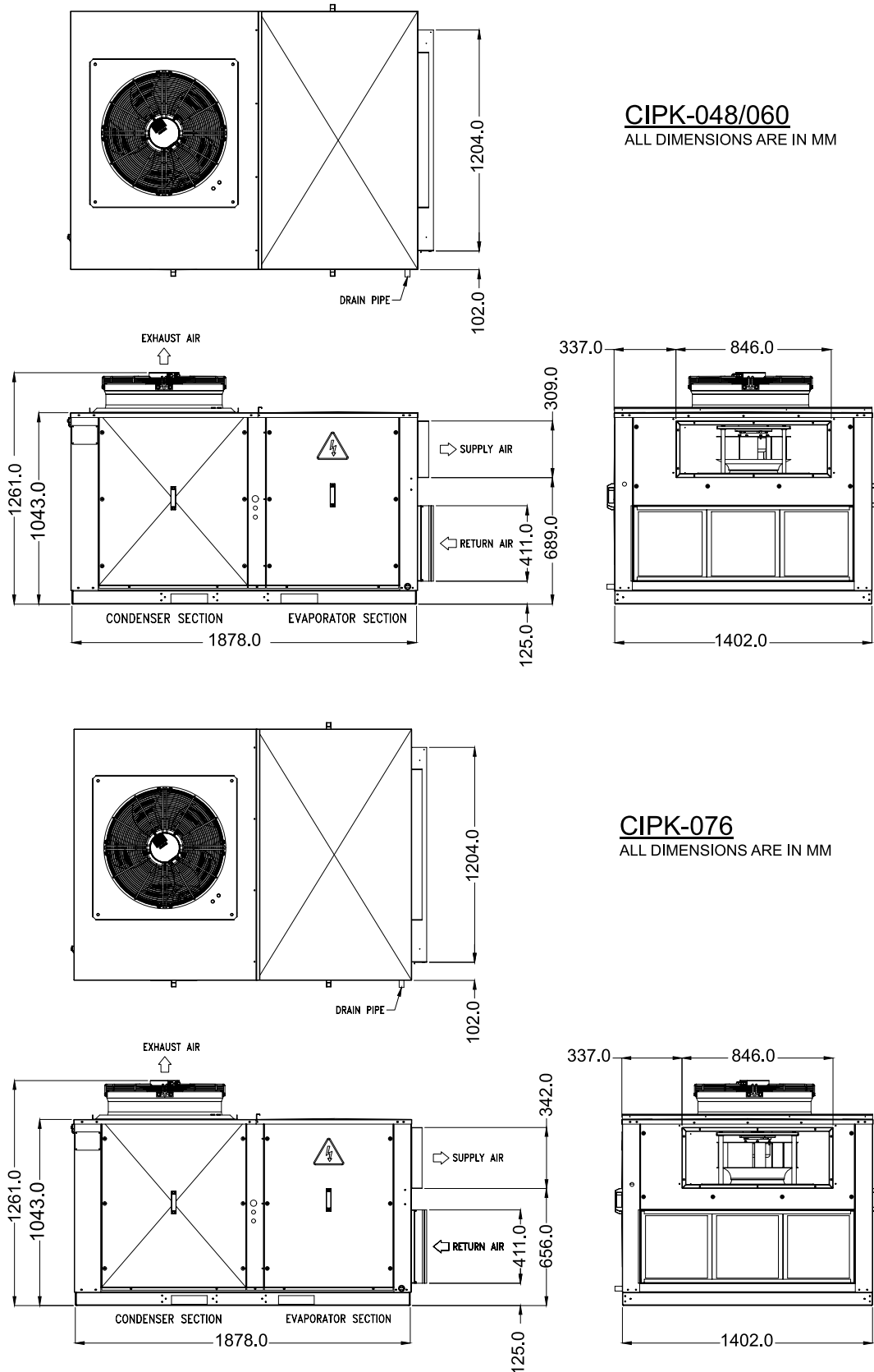
Unit Model	Air Flow (CFM)	Performance Cooling T1					Performance Cooling T3				
		Cooling Capacity (Btu/h)		Total Power (kW)	kW/Ton	EER	Cooling Capacity (Btu/h)		Total Power (kW)	EER	CSCF
		Total	Sensible				Total	Sensible			
CIPK-048DC6C	1500	50000	38145	3650	0.88	13.70	47500	41024	4450	10.67	3.62
CIPK-060DC6C	1820	62000	47094	4800	0.93	12.92	57800	50097	5755	10.04	3.44
CIPK-076DC6C	2340	76000	58039	6200	0.98	12.26	66750	60413	7320	9.12	3.32
CIPK-090DC6C	2660	91000	64363	7585	1.00	12.00	77870	70713	8200	9.50	3.23
CIPK-100DC6C	3000	103000	69160	8400	0.98	12.26	80000	73040	8560	9.35	3.30
CIPK-120DC6C	3700	120000	85699	9600	0.96	12.50	92900	87339	10200	9.11	3.51

Unit Model	Performance Cooling T4				
	Cooling Capacity (Btu/h)		Total Power (kW)	kW/Ton	EER
	Total	Sensible			
CIPK-048DC6C	43240	31407	4620	1.28	9.36
CIPK-060DC6C	51654	37140	5309	1.23	9.73
CIPK-076DC6C	58220	45022	6148	1.27	9.47
CIPK-090DC6C	61749	51079	6339	1.23	9.74
CIPK-100DC6C	74147	58605	7743	1.25	9.58
CIPK-120DC6C	85863	70923	8740	1.22	9.82

### Remarks & Test Conditions:

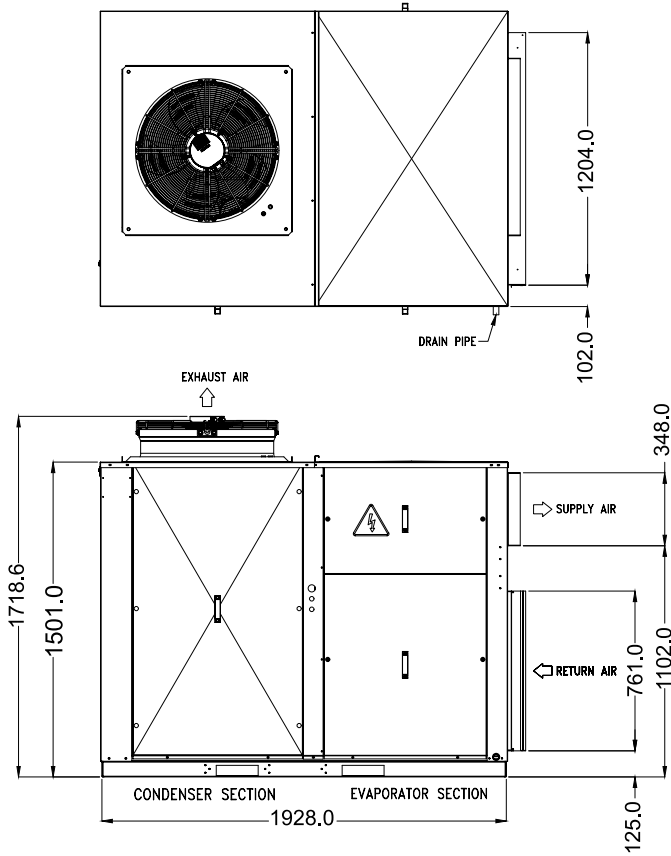
1. The above designs and specifications are subject to change without prior notice. For final specification please consult to Coolex technical sales representative.
2. T1 Cooling capacity and cooling power input : Indoor 80.6°F/66.2°F (DB/WB) Outdoor: 95°F/75.2°F (DB/WB).
3. T3 Cooling capacity and cooling power input : Indoor 84.2°F/66.2°F (DB/WB) Outdoor: 114.8°F/75.2°F (DB/WB).
4. T4 Cooling capacity and cooling power input : Indoor 79.88°F/66.99°F (DB/WB) Outdoor: 118°F/80.4°F (DB/WB)
5. Maximum ambient temperature : Indoor 89.6°F/73.4°F (DB/WB) Outdoor: 125.6°F/87.8°F (DB/WB).
6. The maximum system running ambient temperature is 131°F (55°C).

## UNIT DIMENSIONS



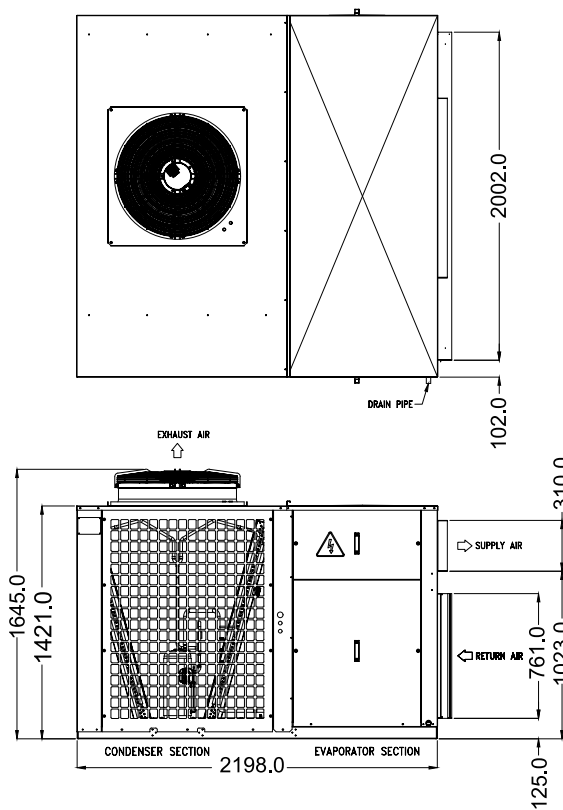
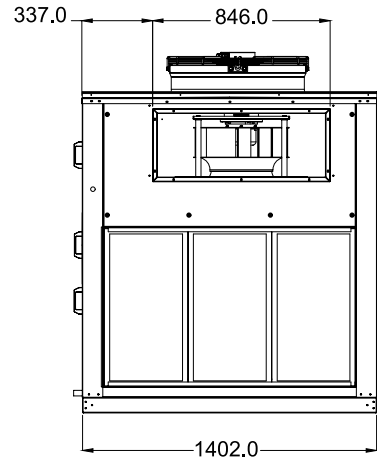


## UNIT DIMENSIONS



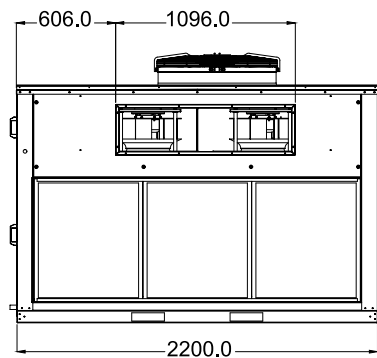
### CIPK-090/100

ALL DIMENSIONS ARE IN MM



### CIPK-120

ALL DIMENSIONS ARE IN MM



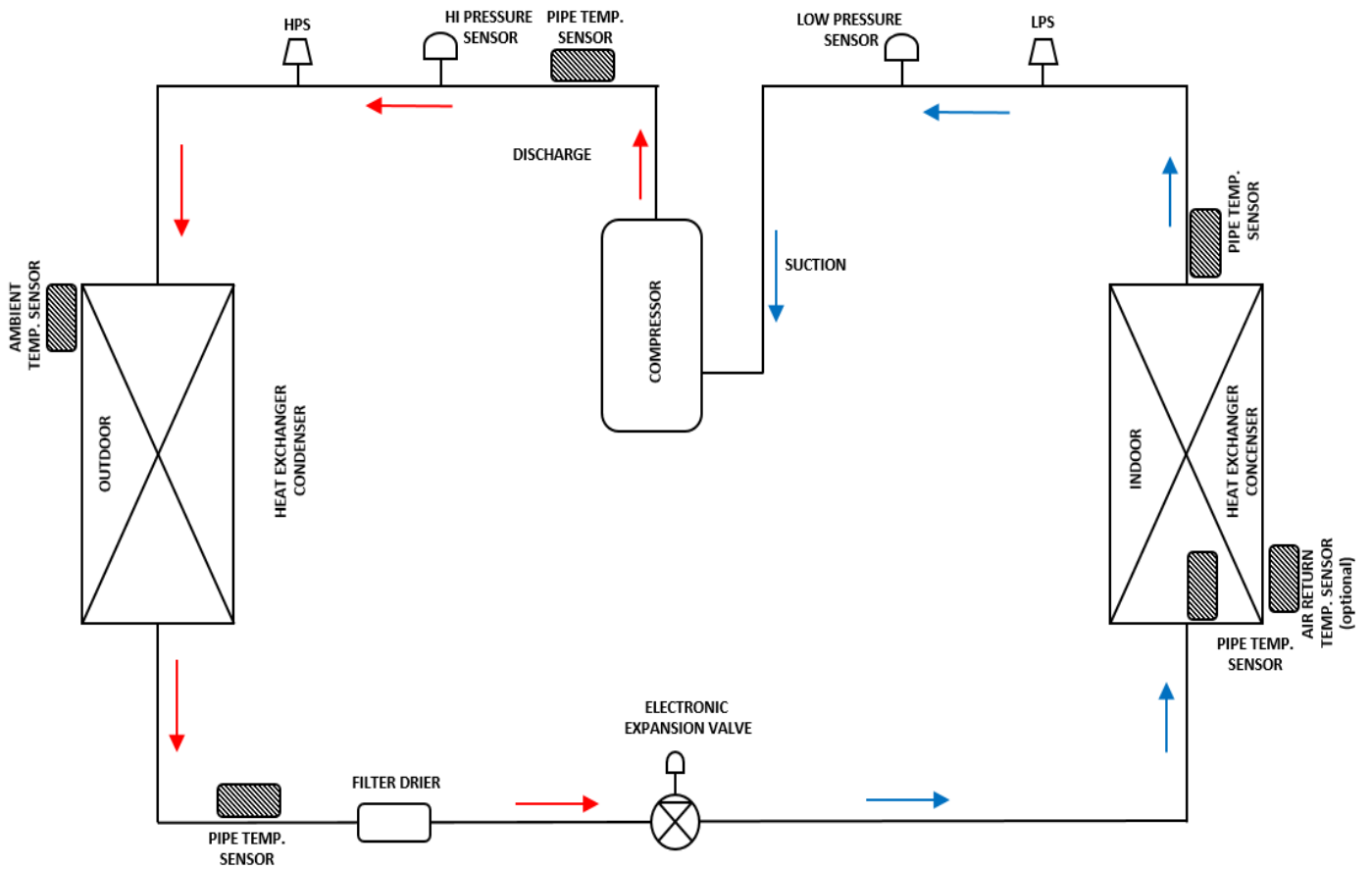
## REFRIGERATION DIAGRAM

### COOLING ONLY MODEL

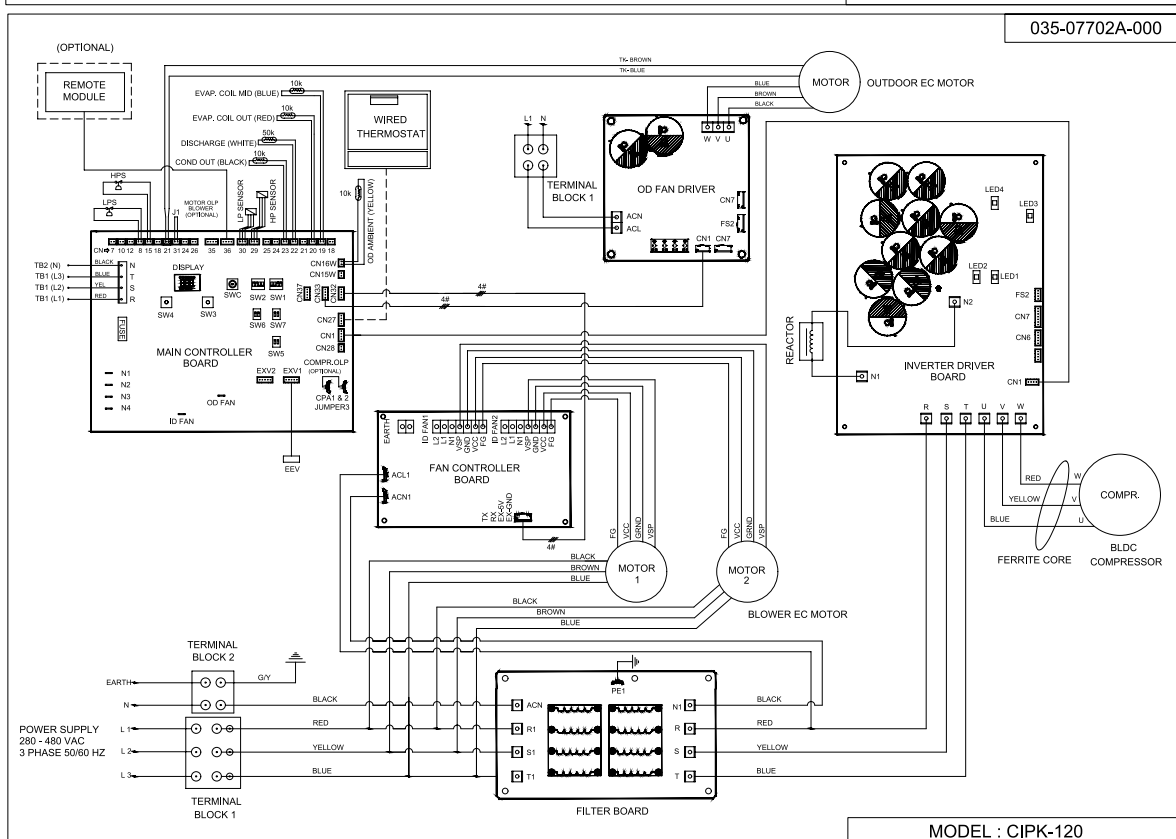
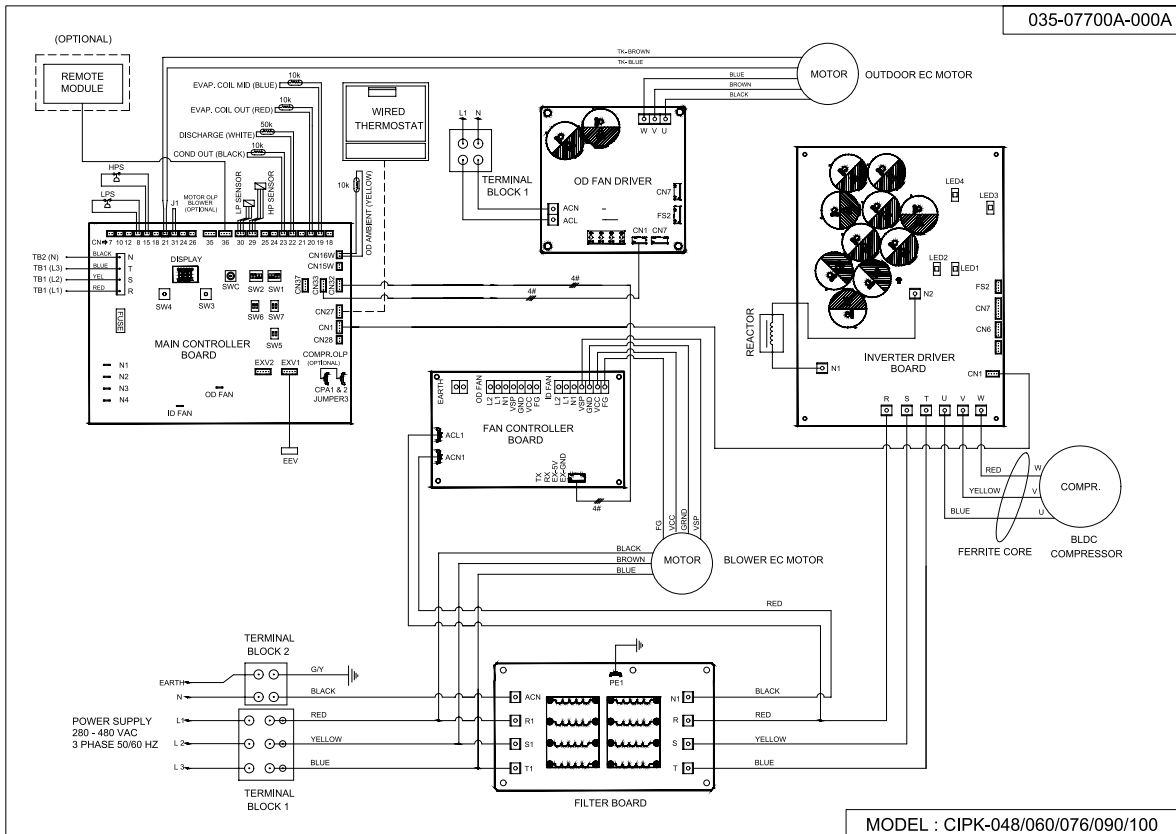
NOTE:

RED – Hi Temperature  
 BLUE – Low Temperature

### COOLING OPERATION



## WIRING DIAGRAMS



## 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 بإنجازات 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).

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