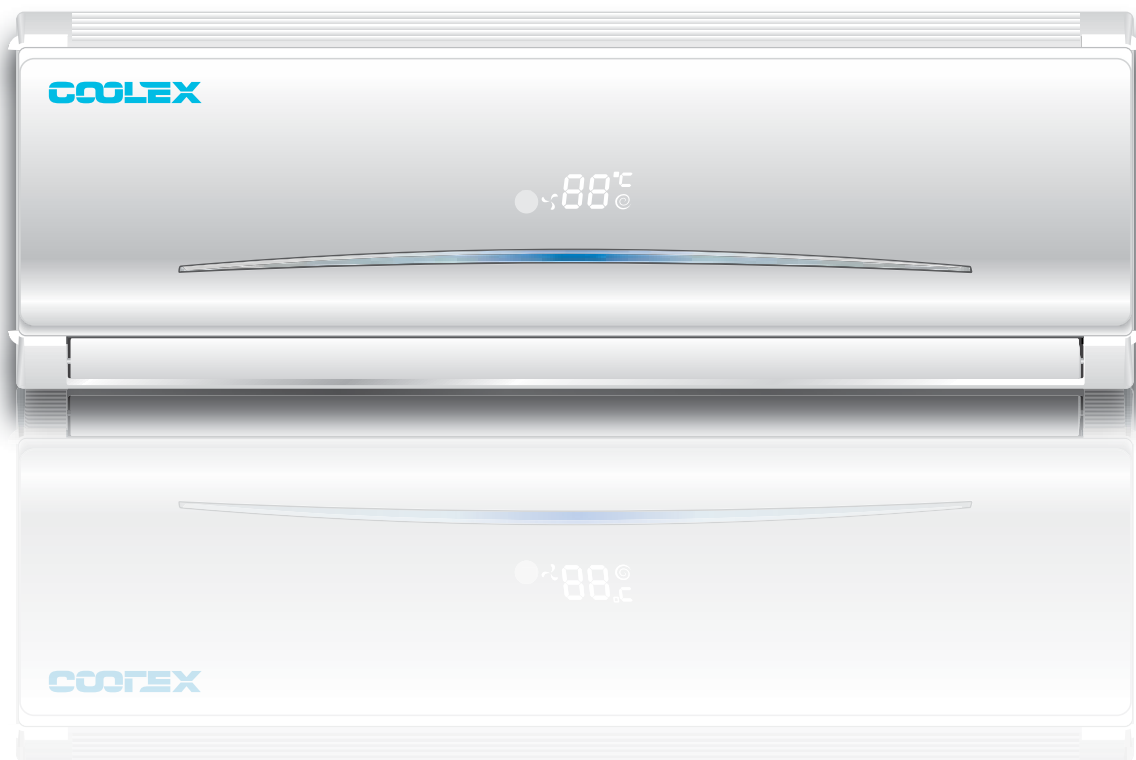


COOLEX

MINI SPLIT AIR CONDITIONERS R 410A



50 Hz



For more technical information please visit 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 Cooled Package Units**
- 4. Air Handling Units**
- 5. Concealed Split Units**
- 6. Fan Coil Units**

SPECIFICATIONS



ColdCatalyst Filter

Eliminate formaldehyde and other volatile organic compounds (VOCs) as well as harmful gases and odors.

فلتر الهواء:

يعمل على تنقية الهواء من المواد العضوية والغازات الضارة والروائح الكريهة. من أجل بيئة نظيفة وصحية داخل الغرفة.



Air Swing

Equipped with vertical louvers motor for proper air distribution.

موزع الهواء:

مزود بفتحات تهوية ذاتية الحركة لتعطي افضل كفاءة في توزيع الهواء داخل الغرف



Anti-Rust Cabinet

With this technique, the cabinet is well protected from being rusted.

غلاف خارجي مقاوم للصدأ:

الغلاف الخارجي معالج خصيصا بطبقة حماية ضد الصدأ والعوامل الخارجية.



Low Noise Airflow System

Without decreasing the airflow volume and capacity output, large diameter cross flow fan can bring down the indoor unit noise level by lowering the fan speed.

صوت منخفض:

زودت الوحدة بمروحة داخلية ذات قطر اكبر لخفض صوت الوحدة بدون التأثير علي كمية الهواء او الطاقة التبريدية.



Turbo Operation

With this function, the air conditioner will maximize the output of cooling or heating capacity, make the room cool down or heat up rapidly, and attain the desired temperature in the shortest time.

وضع التشغيل التوربيني:

تقوم هذه الوظيفة بالحصول على الطاقة القصوى للتبريد مما يجعل تبريد الغرفة أسرع في وقت قصير.



Sleep Mode

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

ضبط التشغيل اثناء النوم:

في هذه الميزة يقوم الجهاز تلقائياً بزيادة التبريد 1 درجة مئوية واحدة لأول ساعتين. ويحتفظ بدرجة الحرارة ثابتة لمدة خمسة ساعات ثم يتوقف عن العمل. هذه الميزة تؤدي إلى حفظ الطاقة الكهربائية والحصول على الراحة المطلوبة.



Auto-Restart

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

ميزة اعادة التشغيل التلقائي:

في حال انقطاع التيار الكهربائي المفاجئ يقوم الجهاز باعادة التشغيل التلقائي على نفس الضبط السابق.

SPECIFICATIONS

Model			FCWF-012/CCOF-012	FCWF-018/CCOF-018	FCWF-024/CCOF-024	FCWF-030/CCOF-030
Power supply		Ph-V-Hz	1Ph-220~240V-50Hz	1Ph-220~240V-50Hz	1Ph-220~240V-50Hz	1Ph-220~240V-50Hz
Cooling	Capacity@95/118.4°F	Btu/h	13500/11600	18540/15500	22570/19400	27810/23500
	Power Input	kW	1.13/1.33	1.53/1.75	1.87/2.22	2.31/2.68
	Rated Current	A	4.85/5.70	6.66/7.80	7.9/9.7	10.1/11.9
kW/Ton @118.4 F			1.37	1.36	1.37	1.37
Compressor	Rated current(RLA)	A	5.3	7.1	9.00	12.3
	Locked rotor Amp(LRA)	A	29	46	55	71
	Capacitor	uF	30	45	55	60
Indoor unit	Indoor fan motor	Power output	W	25	45	45
		Capacitor	uF	2.0	3	3
	Indoor air flow		CFM	500	690	690
	Noise level		dB(A)	37	42	44
	Unit dimension (WxHxD)		mm	900×216×286	1025×240×320	1025×240×320
	Packing (WxHxD)		mm	970×290×345	1105×315×405	1105×315×405
	Net weight		Kg	9.5	13	14
	Gross weight		Kg	12	16	17
Outdoor unit	Outdoor fan motor	Power output	W	25	50	68
		Capacitor	uF	2.5	3.0	4
	Condenser	Fin type		Hydrophilic	Hydrophilic	Hydrophilic
	Noise level		dB(A)	52	55	57
	Unit dimension (WxHxD)		mm	780x542x256	820x635x310	920x810x340
	Packing (WxHxD)		mm	900x600x340	972x680x400	1067x880x456
	Net weight		Kg	32	43	55
	Gross weight		Kg	35	46	60
	Refrigerant type			R410a	R410a	R410a
Refrigerant pipe	Liquid side		mm	6	6	9.52
	Gas side		mm	12	12	15.88
	Max. refrigerant pipe length		m	12	12	15
	Max. difference in level		m	7	7	8
Loading Quantity		40HQ'	264	196	145	115

SPECIFICATIONS

Model					FCWHF/CCOHF-012	FCWHF/CCOHF-018	FCWHF/CCOHF-024	FCWHF/CCOHF-030
Power supply				Ph-V-Hz	1Ph-220~240V-50Hz	1Ph-220~240V-50Hz	1Ph-220~240V-50Hz	1Ph-220~240V-50Hz
Cooling	Capacity@95/118.4°F			Btu/h	13500/11600	18540/15500	22570/19400	27810/23500
	Power Input			kW	1.13/1.33	1.53/1.75	1.87/2.22	2.31/2.68
	Rated Current			A	4.85/5.70	6.66/7.80	7.9/9.7	10.1/11.9
kW/Ton @118.4 F					1.37	1.36	1.37	1.37
Heating	Capacity@44.6 F			Btu/h	26955	20984	17845	12057
				KW	7.9	6.15	5.23	3.53
	Power Input			W	2.26	1.75	1.45	0.93
Compressor	Rated current(RLA)			A	5.3	7.1	9.00	12.3
	Locked rotor Amp(LRA)			A	29	46	55	71
	Capacitor			uF	30	45	55	60
Indoor unit	Indoor fan motor	Power output	W	25	45	45	45	
		Capacitor	uF	2.0	3	3	3	
	Indoor air flow			CFM	500	690	690	690
	Noise level			dB(A)	37	42	44	46
	Unit dimension (WxHxD)			mm	900×216×286	1025×240×320	1025×240×320	1100×325×252
	Packing (WxHxD)			mm	970×290×345	1105×315×405	1105×315×405	1190×420×325
	Net weight			Kg	9.5	13	14	17
	Gross weight			Kg	12	16	17	19
	Outdoor unit	Outdoor fan motor	Power output	W	25	50	68	90
Capacitor			uF	2.5	3.0	4	3	
Condenser		Fin type		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	
Noise level			dB(A)	52	55	57	59	
Unit dimension (WxHxD)			mm	780x542x256	780x560x270	843x702x313	920x810x340	
Packing (WxHxD)			mm	900x600x340	905x640x365	990x780x420	1067x880x456	
Net weight			Kg	32	43	55	58	
Gross weight			Kg	35	46	60	63	
Refrigerant type				R410a	R410a	R410a	R410a	
Refrigerant pipe	Liquid side			mm	6	6	9.52	9.52
	Gas side			mm	12	12	15.88	15.88
	Max. refrigerant pipe length			m	12	12	15	15
	Max. difference in level			m	7	7	8	8
Loading Quantity				40HQ’	264	196	145	115

INSTALLATION & OPERATIONS

Safety Precaution

- To prevent injury to the user or other people and property damage, the following instructions must be followed.
- Incorrect operation due to ignoring instruction will cause harm or damage.
- Before service the unit, be sure to read this service manual at first.

Warning

Installation

- Do not use a defective or underrated circuit breaker. Use this appliance on a dedicated circuit.
- For electrical work, contact the dealer,seller, a qualified electrician, or an authorized service center.
- Always ground the product.
- Install the panel and the cover of control box securely.
- Always install a dedicated circuit and breaker.
- Use the correctly rated breaker of fuse.
- Do not modify or extend the power cable.
- Do not install, remove, or reinstall the unit by yourself (customer).
- Be caution when unpacking and installing the product.
- Do not install the product on a defective installation stand.
- Be sure the installation area does not deteriorate with age.
- If the base collapses, the air conditioner could fall with it, causing property damage, product failure,and personal injury.
- Do not let the air conditioner run for a long time when the humidity is very high and a door or a window is left open.
- Take care to ensure that power cable could not be pulled out or damaged during operation.
- Do not place anything on the power cable.
- Do not plug or unplug the power supply plug during operation.
- Do not touch (operation) the product with wet hands.
- Do not place a heater or other appliance near the power cable.
- Do not allow water to run into electrical parts.
- Do not store or use flammable gas or combustible near the product.
- Do not use the product in a tightly closed space for a long time.

INSTALLATION & OPERATIONS

Warning

- When flammable gas leaks, turn off the gas and open a window for ventilation before turn the product on.
- If strange sounds or smoke comes from product, turn the breaker off or disconnect the power supply cable.
- Stop operation and close the window in storm or hurricane. If possible, remove the product from the window before the hurricane arrives.
- Do not open the inlet grill of the product during operation. (Do not touch the electrostatic filter, if the unit is so equipped.)
- When the product is soaked, contact an authorized service center.
Be caution that water could not enter the product.
- Ventilate the product from time to time when operating it together with a stove etc.

Caution

- Turn the main power off when cleaning or maintaining the product.
- When the product is not be used for a long time, disconnect the power supply plug or turn off the breaker.
Take care to ensure that nobody could step on or fall onto the outdoor unit.
- Always check for gas (refrigerant) leakage after installation or repair of product.
- Install the drain hose to ensure that water is drained away properly.
- Keep level even when installing the product.
- Do not install the product where the noise or hot air from the outdoor unit could damage the neighborhoods.
- Use two or more people to lift and transport the product.
- Do not install the product where it will be exposed to sea wind (salt spray) directly.

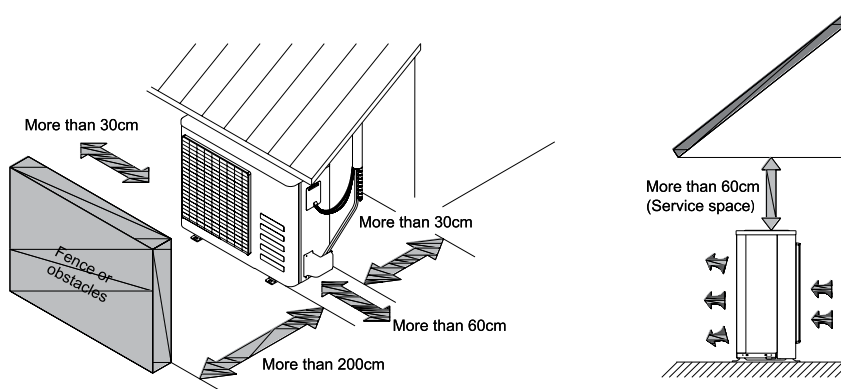
Operational

- Do not expose the skin directly to cool air for long time. (Do not sit in the draft).
- Do not use the product for special purposes, such as preserving foods, works of art etc. It is a consumer air conditioner, not a precision refrigerant system.
- Do not block the inlet or outlet of air flow.
- Use a soft cloth to clean. Do not use harsh detergents, solvents, etc.
- Do not touch the metal parts of the product when removing the air filter.
- Do not step on or put anything on the product. (outdoor units)
Always insert the filter securely. Clean the filter every two weeks or more often if necessary.

INSTALLATION & OPERATIONS

DIMENSION

Outdoor Unit



INSTALLATION DETAILS

Wrench torque sheet for installation

Outside diameter		Torque	Additional Tightening Torque
mm	inch	N.cm	N.cm
Φ 6.35	1/4	1500(153kgf.cm)	1600(163kgf.cm)
Φ 9.52	3/8	2500(255kgf.cm)	2600(265kgf.cm)
Φ 12.7	1/2	3500(357kgf.cm)	3600(367kgf.cm)
Φ 15.9	5/8	4500(459kgf.cm)	4700(479kgf.cm)
Φ 19	3/4	6500(663kgf.cm)	6700(683kgf.cm)

Connecting the cables

The power cord of connect should be selected according to the following specifications sheet.

Rated current of appliance	Nominal cross-sectional area (mm ²)
>3 and ≤6	0.75
>6 and ≤10	1
>10 and ≤16	1.5
>16 and ≤25	2.5

The cable size and the current of the fuse or switch are determined by the maximum current indicated on the nameplate which located on the side panel of the unit. Please refer to the nameplate before selecting the cable, fuse and switch.

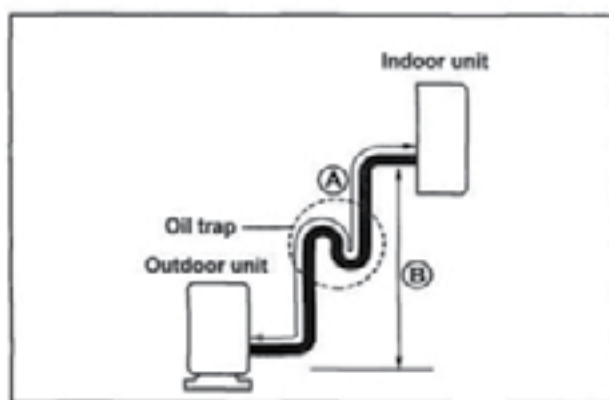
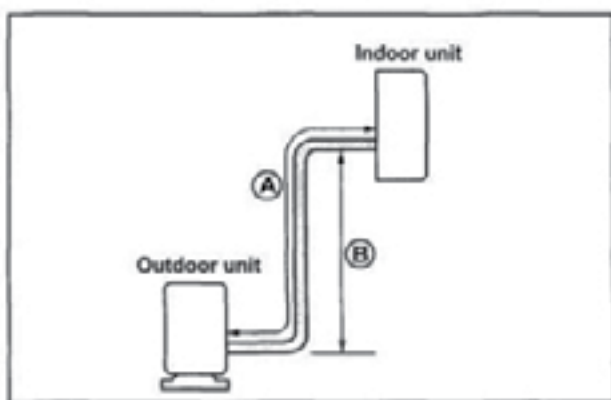
Pipe length and the elevation

The pipe length and refrigerant amount:

INSTALLATION & OPERATIONS

INSTALLATION DETAILS

Model	Pipe size		Standard length (m)	Max. Elevation B (m)	Max. Length A (m)	Additional refrigerant (g/m)
	Gas	Liquid				
FCWF-012/CCOF-012	1/2" (Φ12.7)	1/4" (Φ6.35)	3.5	7	12	15
FCWF-018/CCOF-018	1/2" (Φ12.7)	1/4" (Φ6.35)	3.5	7	12	15
FCWF-024/CCOF-024	5/8" (Φ15.9)	3/8" (Φ9.52)	4	8	15	30
FCWF-030/CCOF-030	5/8" (Φ15.9)	1/4" (Φ6.35)	4	8	15	30



Caution:

The capacity test is based on the standard length and the maximum permissive length is based on the system reliability.

The oil trap should be installed per 5-7 meters.

INSTALLATION & OPERATIONS

INSTALLATION DETAILS

Installation for the first time

Air and moisture in the refrigerant system have undesirable effects as below:

- Pressure in the system rises.
- Operating current rises.
- Cooling or heating efficiency drops.
- Moisture in the refrigerant circuit may freeze and block capillary tubing.
- Water may lead to corrosion of parts in the refrigerant system.

Therefore, the indoor units and the pipes between indoor and outdoor units must be leak tested and evacuated to remove gas and moisture from the system.

Gas leak check (Soap water method):

Apply soap water or a liquid neutral detergent on the indoor unit connections or outdoor unit connections by a soft brush to check for leakage of the connecting points of the piping. If bubbles come out, the pipes have leakage.

• Display function:

Icon explanation on indoor display board.



INSTALLATION & OPERATIONS

	ION indication lamp(optional function): This lamp illuminates when Clean Air feature is activated.
	DEFROST indication lamp(For cooling & heating models only): Lights up when the air conditioner starts defrosting automatically or when the warm air control feature is activated in heating operation.
	OPERATION indication lamp: This lamp illuminates when the air conditioner is in operation.
	TIMER indication lamp: Lights up during Timer operation.
	Temperature indicator: Displays the temperature settings when the air conditioner is operational. Displays the malfunction code.

• Troubleshooting:

Indoor Unit Error Display

Operation lamp	Timer lamp	Display	LED STATUS
☆ 1 time	X	E1	EEPROM parameter error
☆ 2 times	X	E2	Zero-crossing signal detection error
☆ 3 times	X	E3	Indoor fan speed has been out of control
☆ 5 times	X	E5	Indoor room temperature sensor T1 open circuit or short circuit
☆ 6 times	X	E6	Evaporator coil temperature sensor T2 open circuit or short circuit
☆ 7 times	X	E7	Condenser coil temperature sensor T3 open circuit or short circuit (only for CHR-018, CHR-024, CHR-030, CHR-036 models)
☆ 2 times	O	EC	Refrigerant Leakage Detection

O (light)

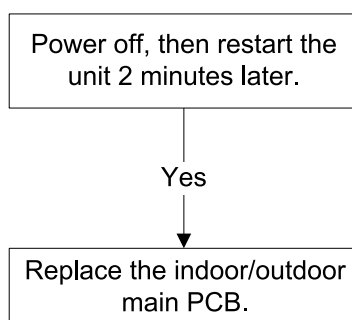
X (off)

☆ (flash)

INSTALLATION & OPERATIONS

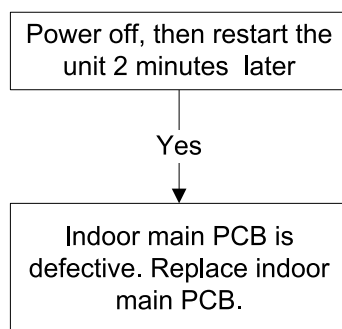
DIAGNOSIS AND SOLUTION

- **EEPROM parameter error diagnosis and solution:**



EEPROM: a read-only memory whose contents can be erased and reprogrammed using a pulsed voltage.

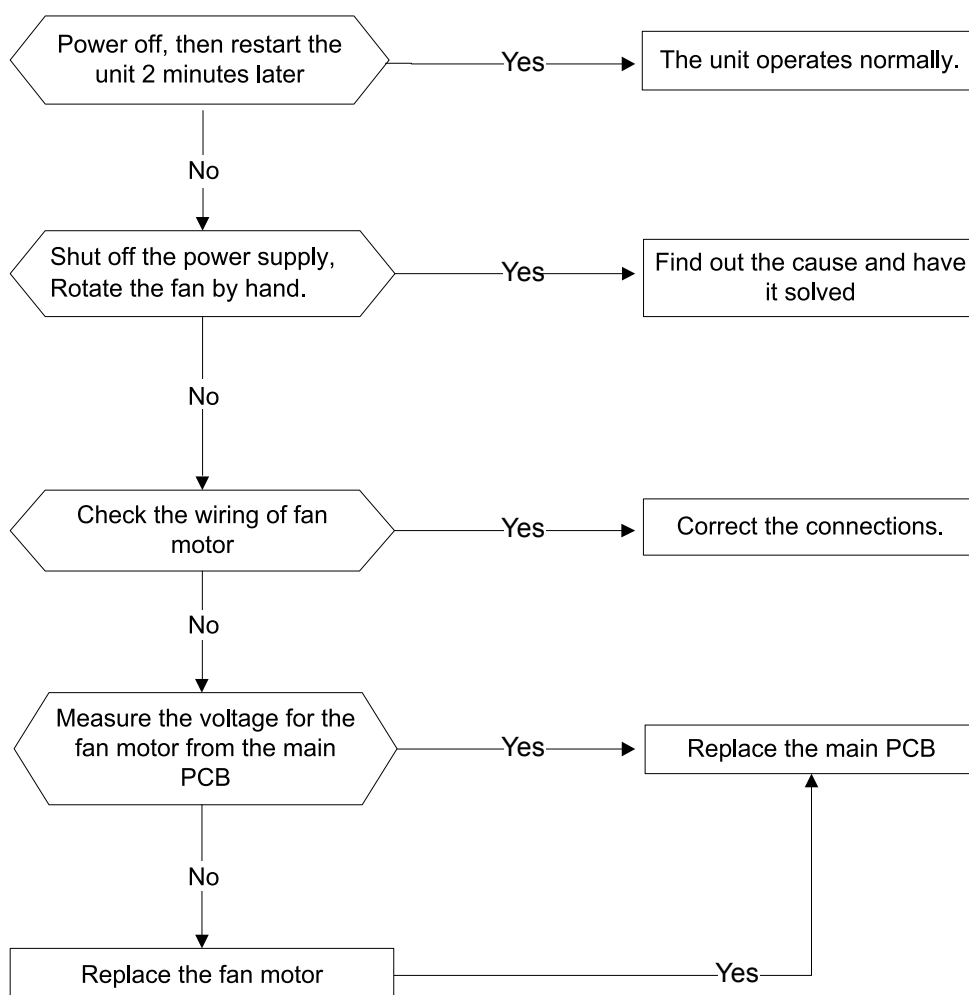
- **Zero crossing detection error diagnosis and solution:**



INSTALLATION & OPERATIONS

DIAGNOSIS AND SOLUTION

- Indoor fan speed has been out of control diagnosis and solution:



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

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 تلبي احتياجات عملائها السكنية والتجارية. وعلى مدى ثلاثة وأربعين عاماً مضت على إنشاء شركتنا فقد استطعنا أن نوطد أقدامنا في جميع قطاعات السوق الكويتي. ونحن إذ نفتخر بالإنجازات التي حققناها، إلا أننا أشد فخرًا 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 استطاعت أن تغير الطبيعة القاسية لمناخ الكويت. فبعد نحو 43 عاماً تقريباً، لا يزال السؤال مطروحاً حول تحقيقنا لهذه التوقعات، فهل استطاعت الشركة أن تتحمل مسؤولياتها على الوجه الأكمل؟ ويأتي الرد بالإيجاب، فعلى مدى ثلاثة وأربعين عاماً تقريباً لم تتوقف الشركة خلالها عن الإستمرار في تقديم خدماتها وأعمالها رغم الصعوبات التي تمثلت في ظروف الطقس القاسية أو الحروب أو الكساد الاقتصادي أو ارتفاع 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 17025 لمختبر السيكرومترية.
- 2016 الحصول على شهادة كفاءة الطاقة لأجهزة التكييف المنفصلة والوحدات المدمجة (مملكة البحرين).

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