Concealed Ducted Split Inverter Series

18 - 60 MBH (5.3 - 17.6kW)

R410a
Environment Friendly

50/60 Hz

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About RIC

Refrigeration Industries & Storage and Oil Services Company, occupies a leading position as one of the largest industrial companies in Kuwait which established in 1973, it plays a proactive role in providing various services and diverse activities such as manufacturing, storage, and oil services to meet the needs of customers both inside and outside Kuwait.

Since its inception, RIC has been committed to excellence and advancing its progress, leading to the establishment of the brand (Coolex) in 1986, a true milestone in the Kuwaiti market as the first in the region in the sector of manufacturing air conditioning systems and cooling solutions.

Furthermore, the company has consistently empowered its workforce, enhanced safety and competitiveness, and utilized innovative technologies to launch new products that meet the needs of various sectors, contributing to expansion and supporting growth and prosperity.

To ensure the highest performance in the future, RIC harnesses its continuous research to enhance efficiency and quality, while continuing its efforts to manufacture products capable of adapting to climate, environmental, and energy challenges.

Facts throughout the years

1973 Warehouses were established by Amiri Decree.

1979 RIC Constructed the Medical Cold Stores Complex, the world's largest at that time.

1980 RIC Air Conditioning manufacturing plant set up in Sulaibya.

1981 Production of Package & Mini-Split A/Cs started under York-Gulf.

1984 RIC was listed in Kuwait Stock Exchange.

1986 COOLEX brand Production Launched.

1991 RIC rebuilt the manufacturing plant destroyed during the war.

1997 Achieved ISO Certification ISO 9001:1994.

2002 ETL Designed testing lab became fully operational.

2004 Privatization of RIC.

2010 COOLEX becomes the first A/C Unit to Pass MEW's new regulations.

2010 RIC Factory Renovation and Expansion into neighboring countries.

2012 Achieved UL & AHRI Certification for 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).

2016 Acquisition of Gulf Paramount for Electrical Services Company.

2021 Acquisition of Kuwait Pipes Industries & Oil Services factory, resulting in a change of the company's name from Refrigeration Industries & Storage Co. to Refrigeration Industries & Storage and Oil Services Co.

نبذة عن الشركة

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

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

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

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

حقائق وتواريخ

1973 تم إنشاء المستودعات بناء على مرسوم أميري.

1979 عهدت وزارة الصحة الكويتية لشركة صناعات التبريد بإنشاء مجمع مستودعات مخازن التبريد الطبية، وقد كان هذا المجمع حينها هو الأضخم من نوعه على مستوى العالم، وقد وصلت تكلفته إلى 12,000,000 دينار كويتي.

1980 تم إنشاء مصنع مكيفات الهواء التابع لشركة صناعات التبريد في الصليبية.

1981 بدء إنتاج أجهزة التكييف المدمجة والمنفصلة الصغيرة تحت علامة York-Gulf.

1984 تم قيد شركة صناعات التبريد في سوق الكويت للأوراق المالية.

1986 بدء إنتاج مكيفات علامة كولكس.

1991 قامت شركة صناعات التبريد بإعادة بناء مصنعها الذي دمرته الحرب.

1997 الحصول على شهادة الآيزو 1994:9001

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 و الوحدات المدمجة (مملكة البحرين).

2016 الاستحواذ على شركة بارامونت الخليج للخدمات الكهربائية.

2021 الاستحواذ على مصنع الشركة الكويتية لصناعة الأنابيب والخدمات النفطية مما أدى على إثره تغيير اسم الشركة من شركة صناعات التبريد والتخزين إلى شركة صناعات التبريد والتخزين والتخزين والخدمات النفطية.

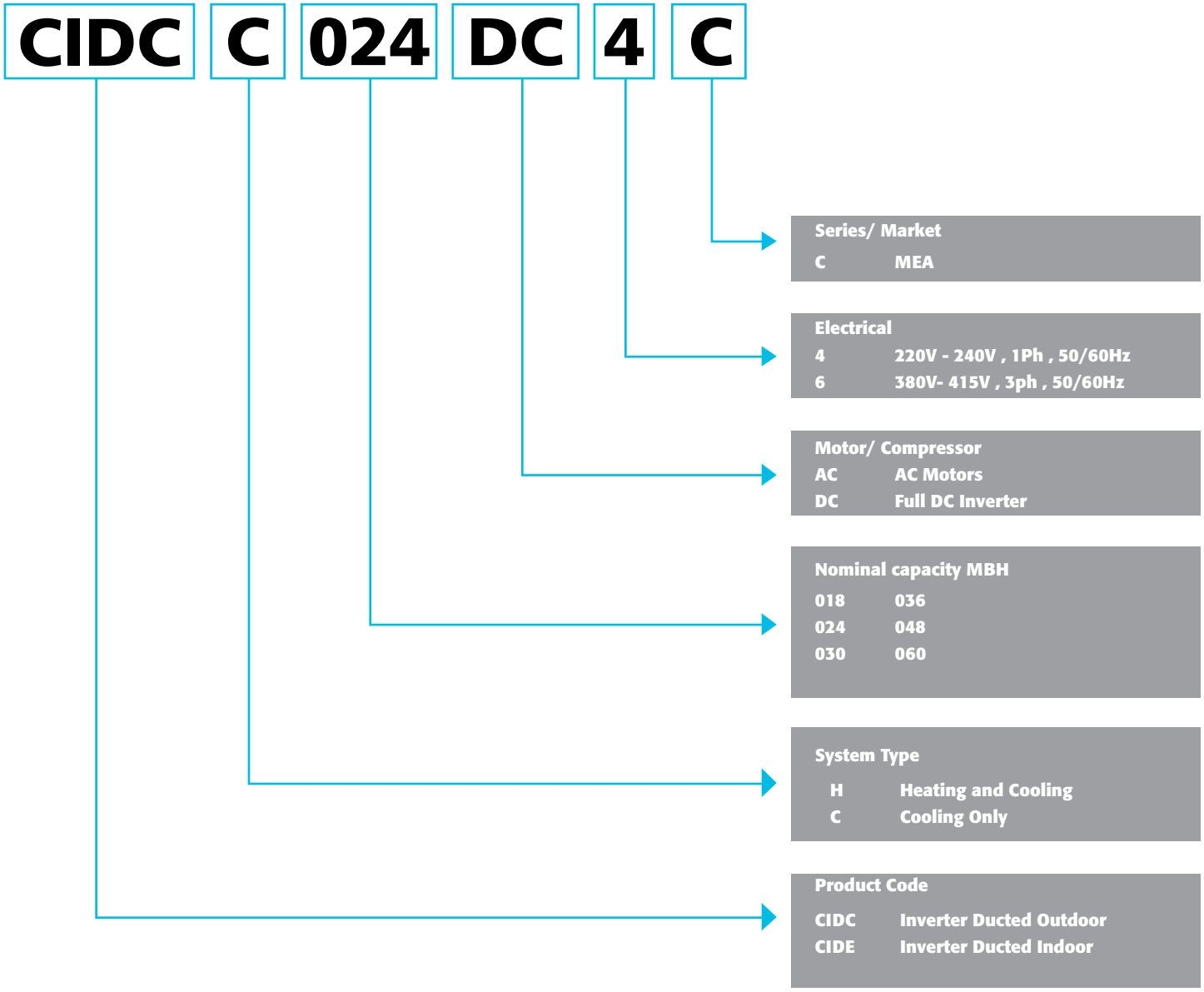
INTRODUCTION

COOLEX High Efficiency new generations ducted inverter split units are designed to offer the solutions for residential, offices, villa shops and other applications under high ambient conditions by using full DC compressors and motors. Inverter split ducted is offered in cooling type air conditioners.

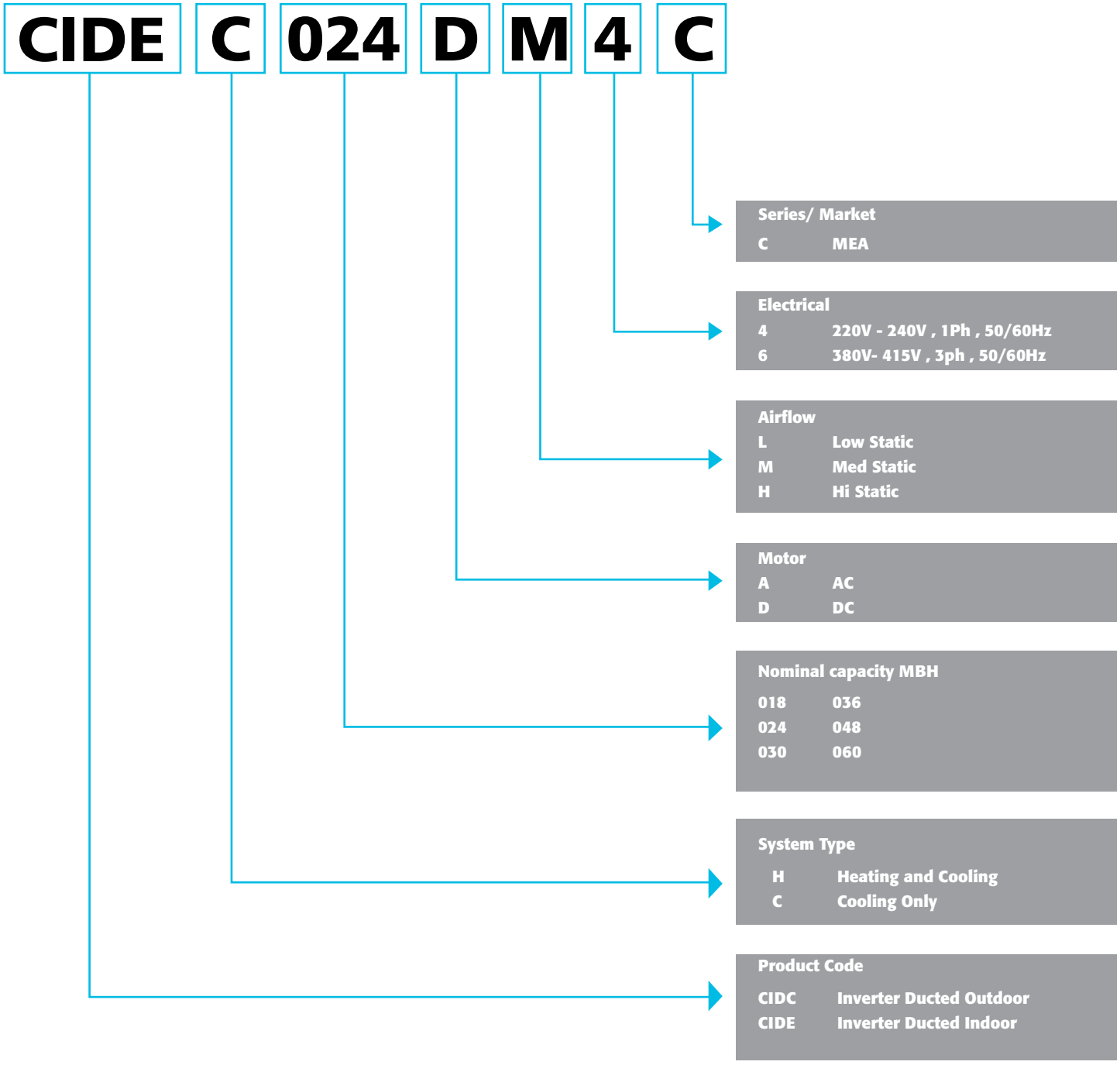
COOLEX HIGH EFFECIENCY INVERTER PRODUCTS

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

NOMENCLATURE OUTDOOR UNIT



NOMENCLATURE INDOOR UNIT



COOLEX

OUTSTANDING FEATURES

Tropical Series

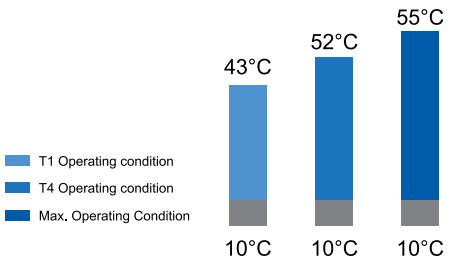
Outdoor Unit

Environment Friendly-R410A

R410a

Up To 55°C Running

Enjoy excellent performance even under ambient temperature up to 55°C , suitable for T4 operating condition.



Multiple Protection

With multiple protection: High pressure protection, low pressure protection, compressor protection such as; temperature, phase protection , phase loss and overheating protection. Anti freezing , sensor failure alarm. The compressor could run in reasonable operation range.

Double Anti-Corrosion Technology

Galvanized metal with world-class powder spraying technology can improve the anti-corrosion ability of the housing of outdoor units three times, especially in salty , moist sorroundings.

Wide Operation Range

The unit can operate perfectly up to 55°C (hot summer) making you feel comfortable.

Fire-proof Electrical Box

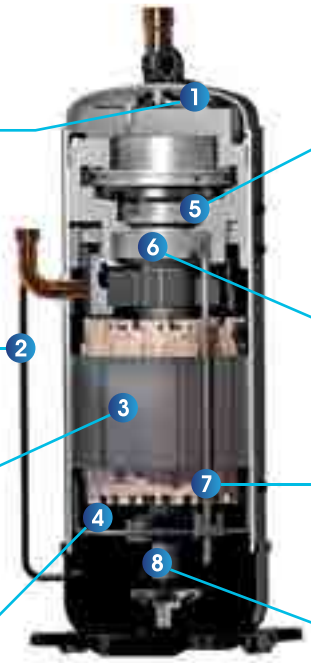
Electrical control box adopts new design which can meet the higher fire safety to prevent the internal fire due to electric spark accident

Self-Diagnostic Function

During abnormal operation or failure, the unit microcomputer will monitor and switch off automatically if necessary to protect the system main components. Error or protection code will be display at indoor wired controller.

OUTSTANDING FEATURES

DC Inverter Compressor



Pressure relief valve structure

Improving the partial load efficiency, adapt to the 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 paralleled 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 group, improving the reliability of the compressor.

Internal oil circulation structure

Lubricating oil to achieve internal circulation, reducing heat loss, decreasing the rate of spilling 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 Efficiency Fan Assembly

Fan motor adjust the speed in stepless controlled by the mircocomputer according to the system operation requirement and running load to enhnace the efficiency by reducing the energy consumptions and maintain the system best performance.

Silence Operation

Outdoor unit quiet mode, by using optimize fan assembly the product is equipped with low noise fan functions. Provide more quite operation during night time thru outdoor PCB sensors technology.

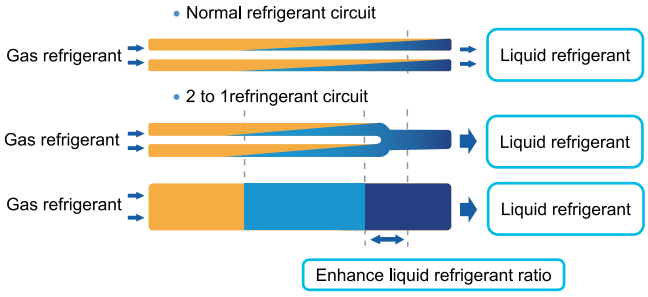
OUTSTANDING FEATURES

High EER

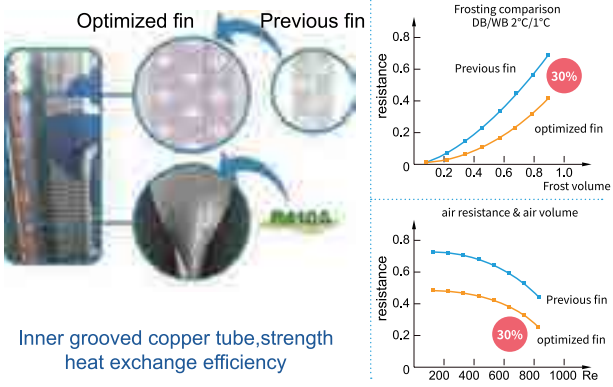
Coolex Split inverter tropical series airconditioner have excellent in cooling performance and energy efficiency ratio by using full DC control with DC compressor, DC indoor motor, DC outdoor motor and DC electronic expansion valve make low noise and high efficiency.

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.



Inner grooved copper tube,strength heat exchange efficiency

Blue Coated Aluminum fin

The louvered coated aluminum foil has improved by more than 10% . The refrigerant inlet and outlet are separated to ensure the subcooling to enhance the cooling capacity.

Fast Cooling

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

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, much smooth and lower noise.

GENERAL SPECIFICATION FULL DC INVERTER

Outdoor Unit Model Name			CIDC-C018DC4C	CIDC-C024DC4C	CIDC-C030DC4C	CIDC-C036DC4C	CIDC-C048DC6C	CIDC-C060DC6C
Power Supply			220~240V-1Ph-50/60Hz				380~420V-3Ph-50/60Hz	
Compressor	Type		DC - Rotary				DC- Scroll	
Fan Motor	Type		DC Motor					
	Quantity		1 pc				2 pc	
Outdoor Fan	Type/Quantity		Axial Fan / 1 pc					
Condenser Coil	Type		Blue Coated Aluminum Fins and IGT Copper Tubes					
	Number of Rows		2Rows	3Rows				
Performance	Sound	dB(A)	56	58	58	59	60	60
Dimension (WxDxH)	Net	mm	1021×397×804	1021×397×804	1021×397×892	1021×397×892	1021×397×1332	1021×397×1332
Weight	Net	Kg.	56	67	67	74	109	110
	Gross		58	69	69	76	111	112

Indoor Unit Model Name			CIDE-C018DM4C	CIDE-C024DM4C	CIDE-C030DM4C	CIDE-C036DM4C	CIDE-C048DM4C	CIDE-C060DM4C
Power Supply			220~240V-1Ph-50/60Hz					
Fan Motor	Type		DC Motor					
	Quantity		1 pc					
Blower Fan	Type		Centrifugal Forward Curve DWDI					
Evaporator Coil	Type		Blue Coated Aluminum Fins and IGT Copper Tubes					
	Number of Rows		2Rows		3Rows		4Rows	3Rows
Expansion Device	Type		Electronic Expansion Device					
Air Filter	Type		Washable Aluminum Mesh					
	Thickness	mm	12.7					
Dimension (WxDxH)	Net	mm	1100x790x351		1100x790x351	1200×855×396	1200×855×396	1325×890×435
Weight	Net	Kg.	60		63	71	78	91

GENERAL SPECIFICATION FULL DC INVERTER

Piping Data

Indoor Unit Model Name			CIDC-C018DC4C	CIDC-C024DC4C	CIDC-C030DC4C	CIDC-C036DC4C	CIDC-C048DC6C	CIDC-C060DC6C
Refrigerant Pipe	Liquid	mm/inch	ϕ 9.52 (3/8)					
	Gas		ϕ 15.88 (5/8)				ϕ 19.05 (3/4)	
Pipe Length	Max. Length	m	30	30	30	30	50	50
	Max. Height	m	20	20	20	30	30	30
Drain Pipe		mm	R 3/4" (DN20)					

Operation Temperature Range

Cooling	Outdoor side	°C (°F)	5 ~ 55 (41 ~ 131)
	Indoor side	°C (°F)	20 ~ 32 (68 ~ 89.6)

Note:

1. *Parameters above are all measured when the connecting pipe is 5 meters.*
2. *Parameters above may be modified as product improvement. We keep the right to change the product specifications without prior notice, please take the parameters listed on the nameplate for final data.*

Electrical and Wiring Data

Condenser Fan Motor (W)			69	69	120	120	69 x 2	69 x 2
Evaporator Fan Motor (W)			245	245	245	245	552	552
Connection Wire	Power wire size	mm2	2.5 (3 pcs)			2.5 (5 pcs)		
	Signal wire size	mm2	0.5 (2 core shielded cable)					
Thermostat Wire		mm2	0.5 (4 core shielded cable)					

OUTSTANDING FEATURES

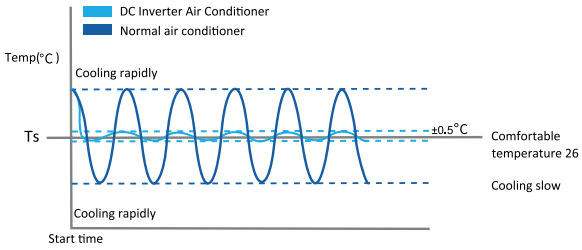
Tropical Series

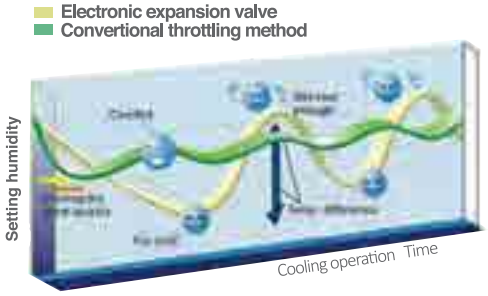
DUCTED INDOOR UNIT

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℃ .

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.





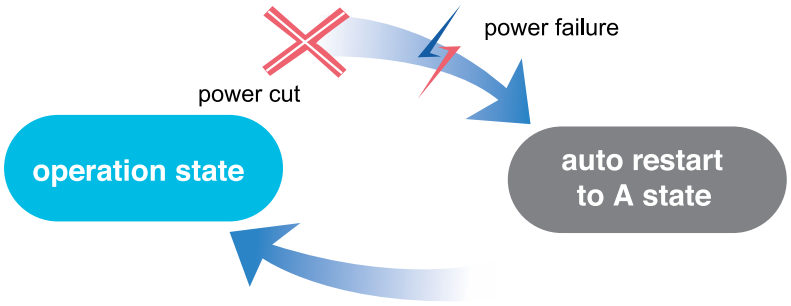
Indoor Unit Quiet Operation

The indoor unit has three fan speed mode selection that you can select your optimum low noise requirement to provides a quite operation by night and day.

OUTSTANDING FEATURES

Auto Restart Function

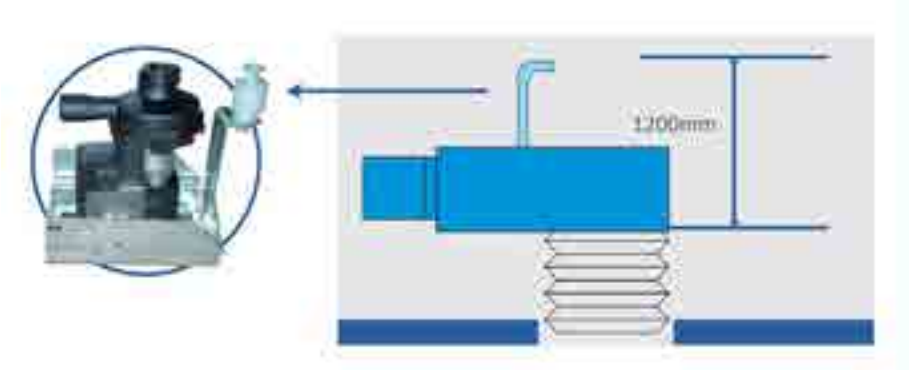
The AC can automatically memorize the operation setting when power is cut off accidentally. It can return to previous setting when power resumes.Recover the last operation state when power is re-stored, no need to restart the unit manually.



power recovered
Restart state when power recovered

Indoor Drain Pan Water Pump (Optional)

The optional drain pump can lift condensing water up to 1200mm high from drainage pan.



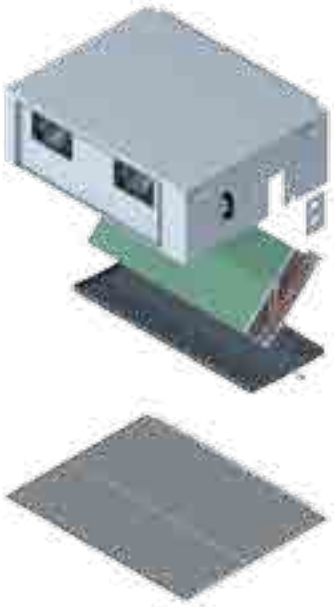
Hydrophilic Blue Coated Fins

It is multi purpose benefits includes, preventing bacteria breeding, enhanced functionality by improving heat transfer efficiency, unit airflow by reducing air pressure drop while not affecting the heat transfer rates and saving energy.

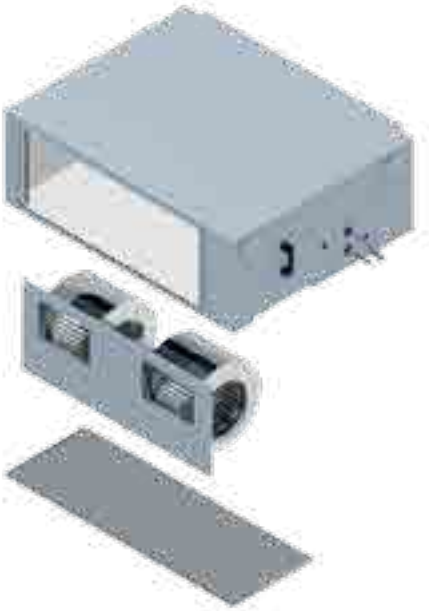
OUTSTANDING FEATURES

- Compact design
- Low sound power level
- For ducted and ducts free application
- 3 speed DC motor
- Easy maintenance
- Easy installation
- Washable filter

Bottom access for easy maintenance



Bottom coil and drain pan removal



Bottom fan deck removal

OUTSTANDING FEATURES

CONTROL SYSTEM

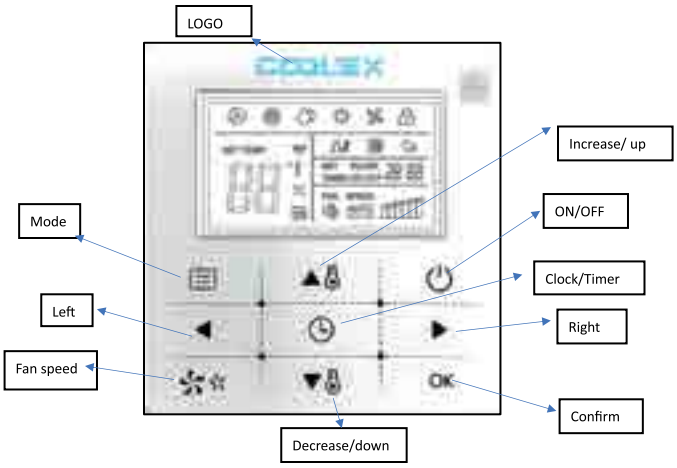
User friendly thermostat design

Due to compact design, it can easily hide the controller for hotels, hospitals , schools and offices. Fitted with a background light as standard and easy to use in the dark night.

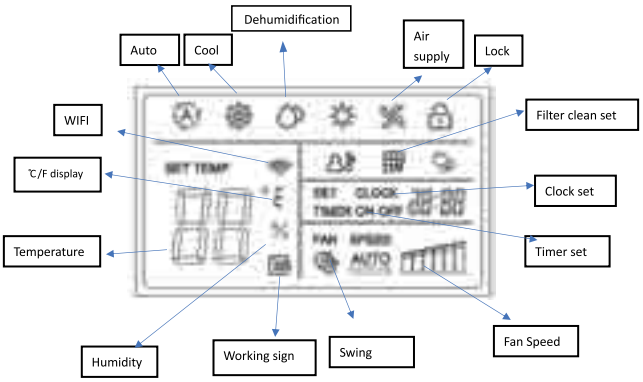
Error reporting

In case for system malfunction, error codes are displayed in the temperature setting area of controller's display screen.

Interface



LED Display



COOLEX MICROCOMPUTER INVERTER TECHNOLOGY

The new Split Inverter Generation Units are provided with technologically advanced system logic based controller, incorporating the following benefits and features:

Protection and Failure Control:

- Over and under voltage protection
- Over current protection
- Power surge protection
- Indoor/Outdoor temperature protection limit
- Compressor overload protection
- Compressor overheating protection
- High and Low pressure switch protection
- Reverse phase protection (for 3 phase system)
- Anti freeze protection
- Time delay protection for compressor
- Anti short cycle timer
- Outdoor condenser sensor failure
- Outdoor ambient temp. sensor failure
- Indoor evaporator sensor failure

PERFORMANCE DATA TABLES (MEW RE / KWS)

Model	Air On Evaporator			Condenser Ambient Temperature [°F]												
	Air Flow	Temp ° F		95			115			118.4			125			
	CFM	DB	WB	Capacity Btu/Hr		Power Input (kW)	Capacity Btu/Hr		Power Input (kW)	Capacity Btu/Hr		Power Input (kW)	Capacity Btu/Hr		Power Input (kW)	
				Total	Sen.		Total	Sen.		Total	Sen.		Total	Sen.		
CIDE-C018DM4C / CIDC-C018DC4C	400	86	72	17585	13831	1.42	13842	10887	1.69	13842	11604	1.50	11444	9593	1.17	
		80	67	16347	12857	1.41	12009	9445	1.68	12009	10067	1.49	9928	8323	1.16	
		74	62	14508	11410	1.10	10031	7890	1.66	10031	8409	1.48	8293	6952	1.15	
		68	57	12740	10020	1.39	7226	5683	1.66	7225	6057	1.47	5973	5008	1.14	
	500	86	72	18819	14801	1.43	16225	12761	1.70	16240	13614	1.51	13419	11249	1.19	
		80	67	17501	13765	1.42	14073	11068	1.69	14086	11808	1.50	11639	9757	1.17	
		74	62	15527	12212	1.41	11753	9243	1.68	11764	9861	1.49	9720	8148	1.16	
		68	57	13631	10720	1.40	9518	7486	1.67	9527	7986	1.48	7872	6599	1.15	
	596	86	72	20563	16173	1.44	17832	14025	1.71	17024	14272	1.52	14065	11791	1.20	
		80	67	19111	14898	1.43	15473	14504	1.70	14800	12264	1.51	12230	10945	1.18	
		74	62	16962	13341	1.42	12915	10158	1.69	12331	10337	1.50	10187	8540	1.17	
		68	57	14891	11712	1.41	10457	8225	1.68	9984	8369	1.49	8248	6915	1.16	
CIDE-C024DM4C / CIDC-C024DC4C	700	86	72	23088	18000	1.99	17440	13596	2.12	16610	14424	1.89	13060	11341	1.42	
		80	67	21463	16732	1.98	15130	11795	2.11	14411	12514	1.88	11331	9839	1.41	
		74	62	19048	14850	1.97	12638	9853	2.10	12037	10453	1.87	9465	8219	1.40	
		68	57	16727	13041	1.96	9103	7097	2.09	8670	7529	1.86	6817	5920	1.39	
	750	86	72	24705	19260	2.00	20430	15927	2.14	19474	16911	1.91	15298	13284	1.44	
		80	67	22975	17911	1.99	17720	13814	2.12	16891	14668	1.90	13269	11522	1.43	
		74	62	20383	15891	1.98	14798	11537	2.11	14106	12249	1.89	11081	9623	1.42	
		68	57	17894	13950	1.97	11985	9343	2.10	11424	9920	1.88	8974	7793	1.41	
	790	86	72	26990	21042	2.01	22446	17499	2.15	20410	17724	1.92	16030	13921	1.45	
		80	67	25084	19344	2.00	19477	16896	2.13	17743	15170	1.91	13939	12733	1.44	
		74	62	22264	17357	1.99	16257	12674	2.12	14782	12837	1.90	11610	10082	1.43	
		68	57	19545	15237	1.98	13163	10262	2.11	11969	10394	1.89	9401	8164	1.42	
CIDE-C030DM4C / CIDC-C030DC4C	900	86	72	29528	23940	2.45	23478	19035	2.76	22060	19267	2.41	23124	20196	2.65	
		80	67	27449	22255	2.43	20369	16514	2.75	19138	16715	2.40	20061	17522	2.64	
		74	62	24360	19751	2.42	17014	13795	2.74	15987	13963	2.39	16758	14636	2.63	
		68	57	21392	17344	2.41	12255	9936	2.73	11515	10057	2.38	12070	10542	2.62	
	1000	86	72	31573	25598	2.46	27449	22255	2.77	25809	22541	2.43	27057	23632	2.66	
		80	67	29362	23806	2.45	23809	19303	2.76	22385	19551	2.41	23468	20497	2.65	
		74	62	26049	21120	2.44	19883	16120	2.75	18694	16328	2.41	19599	17118	2.64	
		68	57	22868	18541	2.43	16103	13056	2.74	15140	13223	2.40	15872	13863	2.63	
	1110	86	72	34464	27942	2.48	30127	24426	2.78	27034	23611	2.44	28344	24755	2.67	
		80	67	32026	25453	2.46	26142	22491	2.77	23498	19978	2.42	24645	21666	2.66	
		74	62	28428	23049	2.45	21820	17691	2.76	19580	17101	2.42	20529	17930	2.65	
		68	57	24957	20234	2.44	17667	14324	2.75	15854	13846	2.41	16622	14517	2.41	

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

PERFORMANCE DATA TABLES (MEW RE / KWS)

Model	Air On Evaporator			Condenser Ambient Temperature [°F]												
	Air Flow	Temp ° F		95			115			118.4			125		
	CFM	DB	WB	Capacity Btu/Hr		Power Input (kW)	Capacity Btu/Hr		Power Input (kW)	Capacity Btu/Hr		Power Input (kW)	Capacity Btu/Hr		Power Input (kW)
				Total	Sen.		Total	Sen.		Total	Sen.		Total	Sen.	
CIDE-C036DM4C / CIDC-C036DC4C	1200	86	72	35898	28979	2.88	28092	22677	3.40	25827	22136	2.76	26804	22974	2.94
		80	67	33371	26939	2.87	24371	19673	3.39	22406	19204	2.75	23254	19931	2.93
		74	62	29616	23908	2.86	20358	16434	3.38	18716	16042	2.74	19425	16649	2.92
		68	57	26008	20995	2.85	14664	11837	3.37	13481	11555	2.73	13991	11992	2.91
	1250	86	72	38395	30994	2.88	32826	26499	3.40	30228	25908	2.76	31377	26893	2.94
		80	67	35706	28824	2.87	28472	22984	3.39	26218	22472	2.75	27215	23326	2.93
		74	62	31678	25572	2.86	23777	19194	3.38	21895	18767	2.74	22728	19480	2.92
		68	57	27809	22449	2.86	19257	15545	3.38	17732	15198	2.74	18407	15776	2.92
	1342	86	72	41913	33834	2.89	36057	29107	3.41	31665	27140	2.77	32872	28174	2.95
		80	67	38950	30895	2.88	31287	29223	3.40	27524	23011	2.76	28582	22287	2.94
		74	62	34573	27909	2.87	26115	21081	3.39	22935	19657	2.75	23808	20406	2.93
		68	57	30351	24501	2.87	21145	17069	3.38	18569	15916	2.75	19277	16522	2.93
CIDE-C048DM4C / CIDC-C048DC6C	1400	86	72	44913	36059	3.95	37702	30270	4.66	35448	29661	4.30	34681	29020	4.18
		80	67	41750	33520	3.84	32708	26261	4.45	30753	25733	4.10	30088	25176	3.99
		74	62	37053	29749	3.83	27322	21936	4.44	25689	21495	4.09	25133	21030	3.98
		68	57	32539	26124	3.83	19680	15801	4.44	18503	15483	4.09	18103	15148	3.98
	1500	86	72	48015	38550	3.89	44013	35337	4.50	41455	34688	4.15	40555	33934	4.04
		80	67	44652	35850	3.88	38175	30650	4.49	35956	30087	4.14	35175	29433	4.03
		74	62	39615	31806	3.87	31881	25596	4.48	30028	25126	4.13	29376	24580	4.03
		68	57	34777	27922	3.87	25820	20730	4.48	24318	20348	4.13	23790	19907	4.02
	1570	86	72	52388	42061	3.93	48322	38796	4.45	43418	36330	4.19	42472	35539	4.08
		80	67	48680	38189	3.92	41929	38760	4.53	37737	30663	4.18	36930	32507	4.07
		74	62	43214	34695	3.91	34999	28099	4.52	31447	26313	4.17	30762	25740	4.06
		68	57	37937	30458	3.91	28337	22751	4.52	25462	21305	4.16	24907	20841	4.06
CIDE-C060DM4C / CIDC-C060DC6C	1700	86	72	55698	45053	4.91	47296	38256	5.52	44443	37448	5.05	41115	34644	4.53
		80	67	51776	41881	4.90	41031	33189	5.51	38557	32488	5.04	35670	30056	4.52
		74	62	45951	37169	4.89	34274	27724	5.50	32208	27138	5.03	29796	25106	4.51
		68	57	40352	32640	4.88	24688	19969	5.49	23199	19547	5.02	21462	18084	4.50
	1850	86	72	59534	48156	4.96	55185	44638	5.57	51941	43765	5.10	48029	40469	4.58
		80	67	55364	44783	4.96	47865	38717	5.56	45051	37960	5.09	41658	35101	4.57
		74	62	49118	39731	4.94	39973	32333	5.55	37623	31701	5.08	34790	29314	4.56
		68	57	43120	34879	4.93	32374	26186	5.54	30470	25674	5.07	28175	23740	4.55
	2076	86	72	64939	52528	5.07	60570	48994	5.68	54389	45828	5.21	50286	42371	4.69
		80	67	60341	47566	5.06	52557	48569	5.68	47271	38538	5.20	43724	39597	4.68
		74	62	53567	43329	5.05	43870	35485	5.66	39393	33193	5.19	36421	30688	4.67
		68	57	47026	38038	5.04	35520	28731	5.65	31896	26875	5.18	29489	24848	4.66

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

RATING COOLING PERFORMANCE

Unit Model	Air flow (cfm)	Performance Cooling T1				Performance Cooling T3			
		Cooling Capacity (Btu/hr)		Total Power (kW)	EER (Btu/hr)/W	Cooling Capacity (Btu/hr)		Total Power (kW)	EER (Btu/hr)/W
		Total	Sensible			Total	Sensible		
CIDE-C018DM4C / CIDC-C018DC4C	600	18500	15000	1.42	13.00	16000	14876	1.75	9.14
CIDE-C024DM4C / CIDC-C024DC4C	800	24500	19850	2.00	12.30	18800	17940	2.05	9.17
CIDE-C030DM4C / CIDC-C030DC4C	1000	30000	24300	2.40	12.50	25500	24700	2.70	9.44
CIDE-C036DM4C / CIDC-C036DC4C	1300	36000	29600	2.90	12.40	30500	29083	3.30	9.24
CIDE-C042DM4C / CIDC-C042DC6C	1400	42300	34000	3.40	12.40	35200	34034	3.90	9.03
CIDE-C048DM4C / CIDC-C048DC6C	1600	48000	38500	4.00	12.00	43000	39910	4.65	9.25
CIDE-C060DM4C / CIDC-C060DC6C	2000	60000	48200	5.00	12.00	52650	48570	5.85	9.00

Note:

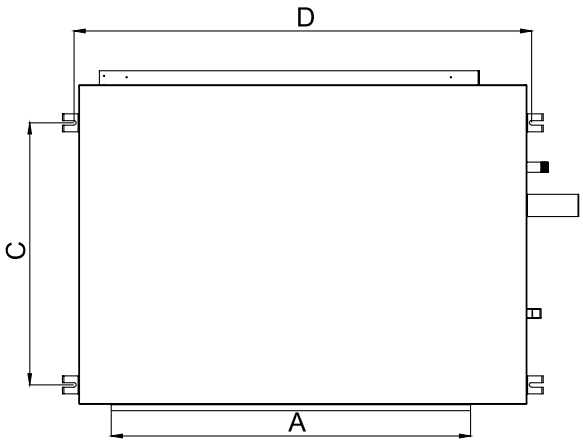
1. Cooling capacity in kW = (Btu/hr) x 0.0002928
2. Cooling capacities are net rated
3.Test condition T1 DB/WB : Outdoor 35°C/27°C (95°F/80.6°F) , Indoor 27°C/19°C (80.6°F/66.2°F)
4.Test condition T3 DB/WB : Outdoor 46°C/24°C (114.8°F/75.2°F), Indoor 29°C/19°C (84.2°F/66.2°F)
5. Test Voltage : 230VAC,50Hz,1Ph, 400VAC,50Hz,3Ph.; SASO 230VAC,60Hz,1Ph, 400VAC,60Hz,3Ph

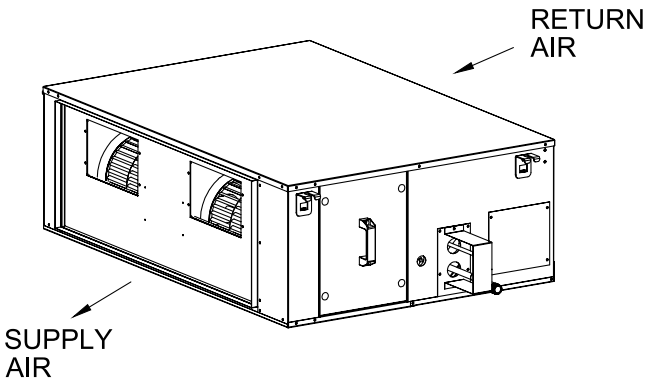
INDOOR FAN PERFORMANCE

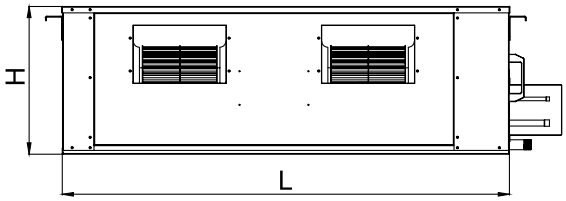
Unit Model	External Static pressure (in.wg / Pascal)							
	(CFM)	0 / 0	0.1 / 25	0.15 / 37	0.2 / 50	0.4 / 100	0.5 / 125	0.6 / 150
		RPM	RPM	RPM	RPM	RPM	RPM	RPM
CIDE-C018DM4C / CIDC-C018DC4C	400	300	450	480	525	769	891	1013
	500	430	600	640	685	855	940	1025
	596	560	750	800	845	941	989	1037
CIDE-C024DM4C / CIDC-C024DC4C	700	640	790	870	950	1110	1190	12503
	750	680	825	900	975	1120	1225	-
	790	720	860	930	1000	1140	1250	-
CIDE-C030DM4C / CIDC-C030DC4C	900	885	957	1000	1030	1170	-	-
	1000	965	1035	1080	1125	1250	-	-
	1110	1045	1115	1150	1185	-	-	-
CIDE-C036DM4C / CIDC-C036DC4C	1200	775	837	900	930	1110	1200	1250
	1250	800	875	950	987	1193	1250	-
	1342	825	903	980	1018	1242	-	-
CIDE-C048DM4C / CIDC-C048DC6C	1400	800	890	935	980	1140	1210	1300
	1500	850	940	965	990	1180	1250	-
	1570	900	990	1020	1050	1220	1280	-
CIDE-C060DM4C / CIDC-C060DC6C	1700	800	900	950	1000	1200	-	-
	1850	850	950	1000	1050	1250	-	-
	2076	900	1000	1050	1100	1300	-	-

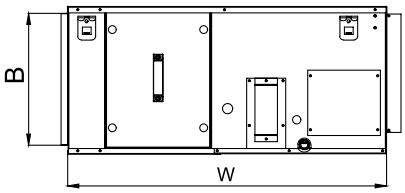
UNIT DIMENSIONS

INDOOR UNIT







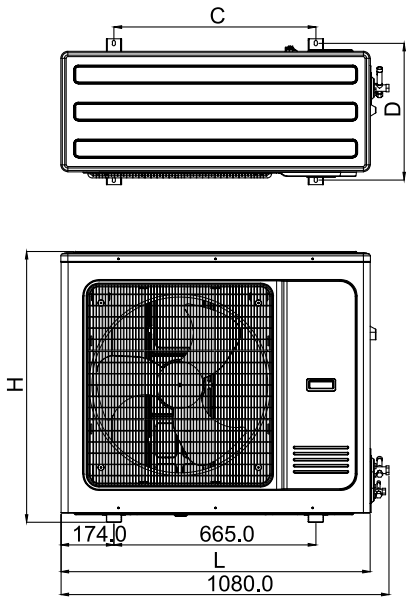


MODEL	DIMENSIONS					
	L	W	H	DUCT DIMENSIONS AxB	C	D
CIDE-018	1100	790	351	864x309	614	1128
CIDE-024	1100	790	351	864x309	614	1128
CIDE-030	1100	790	351	864x309	614	1128
CIDE-036	1200	855	396	964x354	703	1228
CIDE-048	1200	855	396	964x354	703	1228
CIDE-060	1325	890	435	1164x393	704	1428
ALL DIMENSIONS ARE IN MM						

UNIT DIMENSIONS

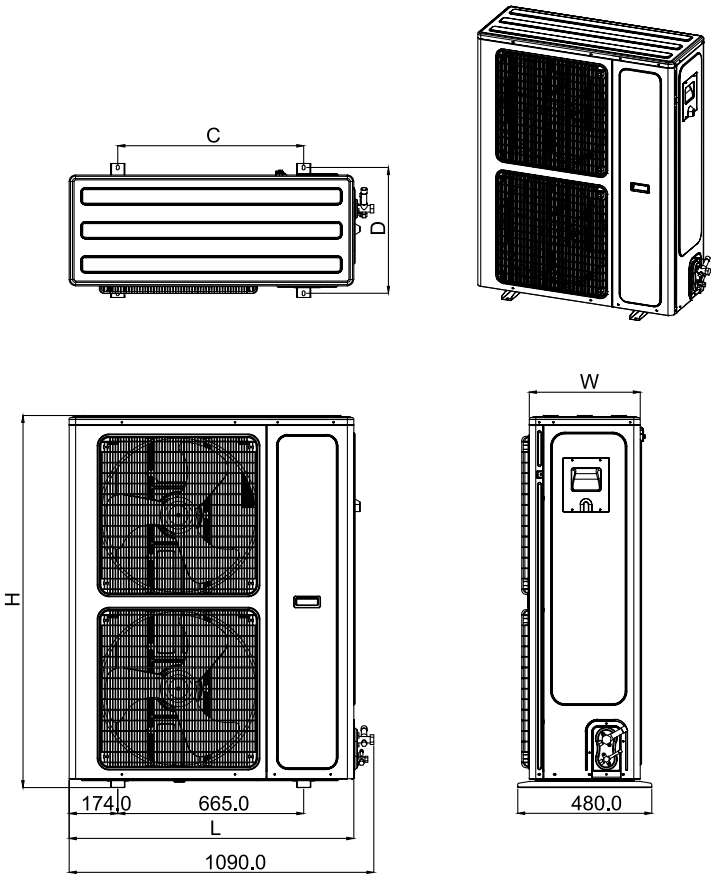
OUTDOOR UNIT

CIDC-018,024,030&036

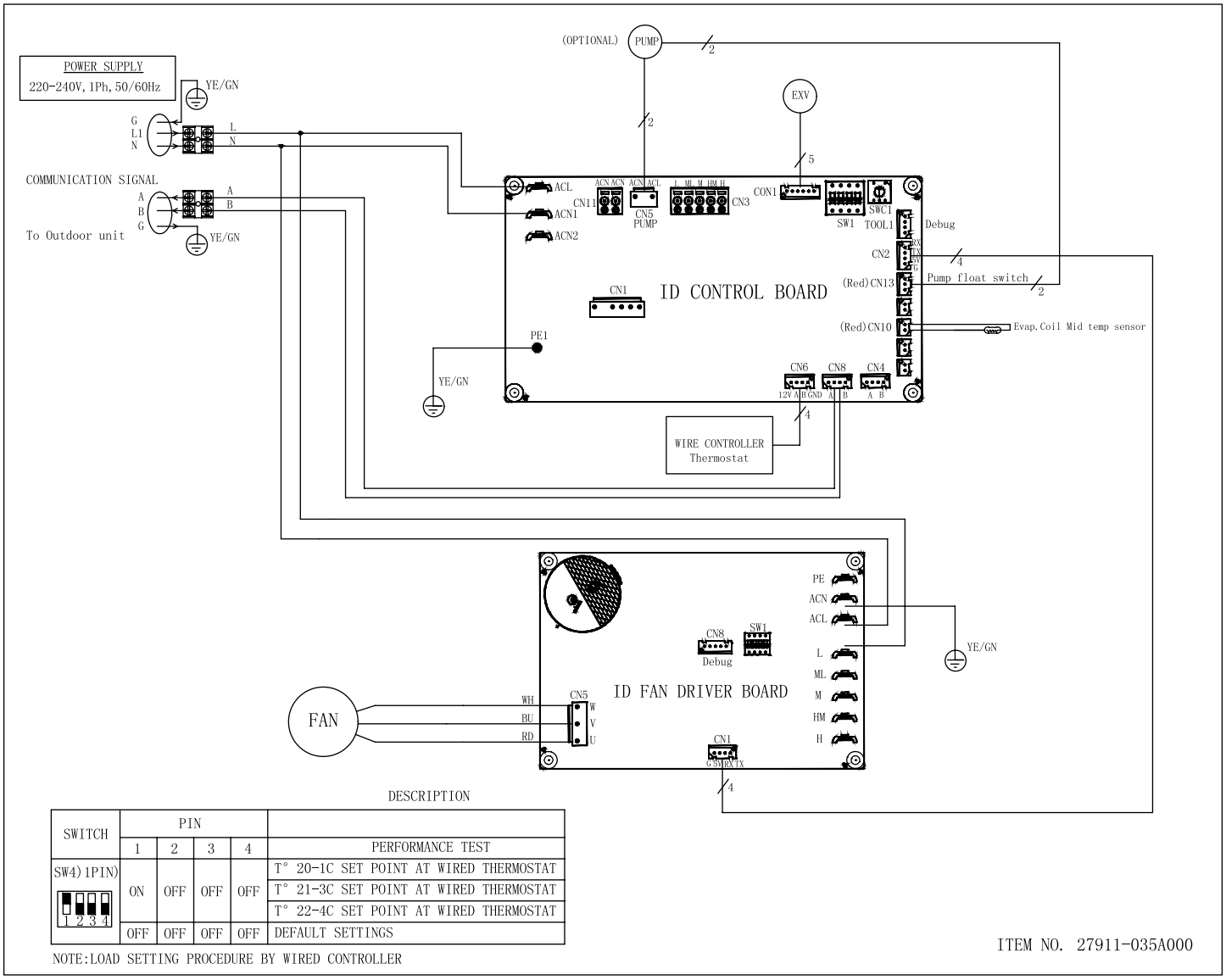


MODEL	DIMENSIONS				
	L	W	H	C	D
CIDC-018	1021	397	804	665	450
CIDC-024	1021	397	804	665	450
CIDC-030	1021	397	892	665	450
CIDC-036	1021	397	892	665	450
CIDC-048	1021	397	1332	665	450
CIDC-060	1021	397	1332	665	450
ALL DIMENSIONS ARE IN MM					

CIDC-048&060



INDOOR UNIT WIRING DIAGRAMS



DESCRIPTION

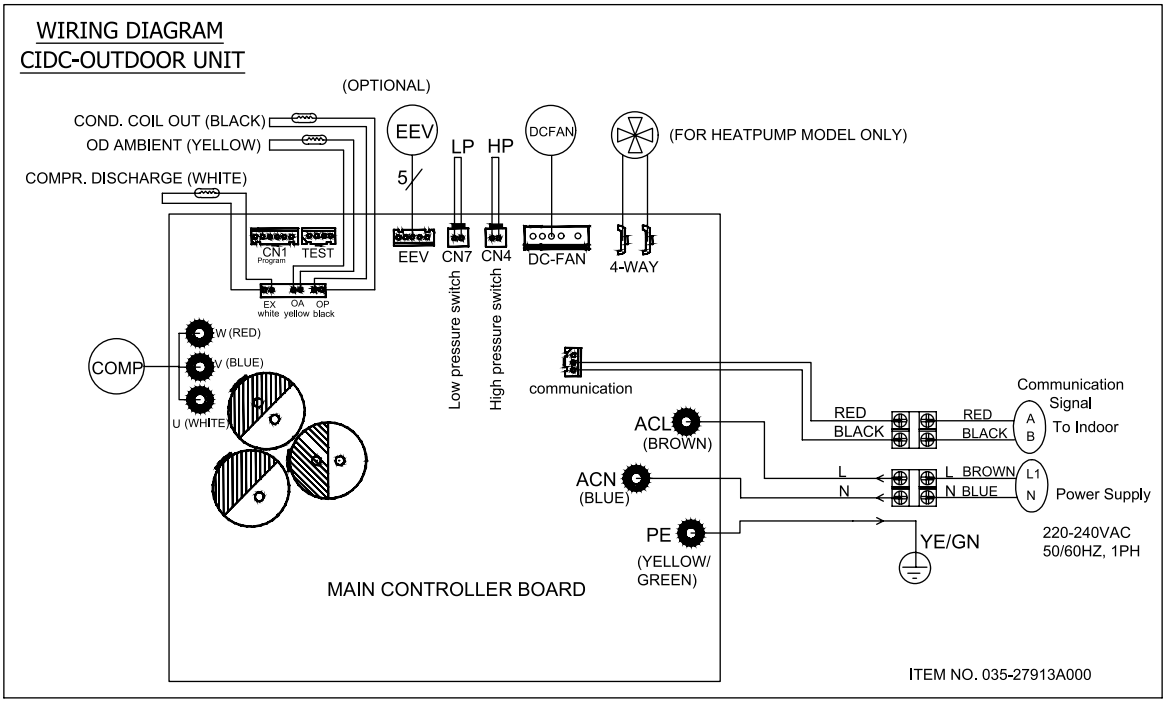
SWITCH	PIN				
	1	2	3	4	PERFORMANCE TEST
SW4) 1PIN)	ON	OFF	OFF	OFF	T° 20-1C SET POINT AT WIRED THERMOSTAT
					T° 21-3C SET POINT AT WIRED THERMOSTAT
					T° 22-4C SET POINT AT WIRED THERMOSTAT
	OFF	OFF	OFF	OFF	DEFAULT SETTINGS

NOTE:LOAD SETTING PROCEDURE BY WIRED CONTROLLER

ITEM NO. 27911-035A000

OUTDOOR UNIT WIRING DIAGRAMS

CIDC-018/024/030/036



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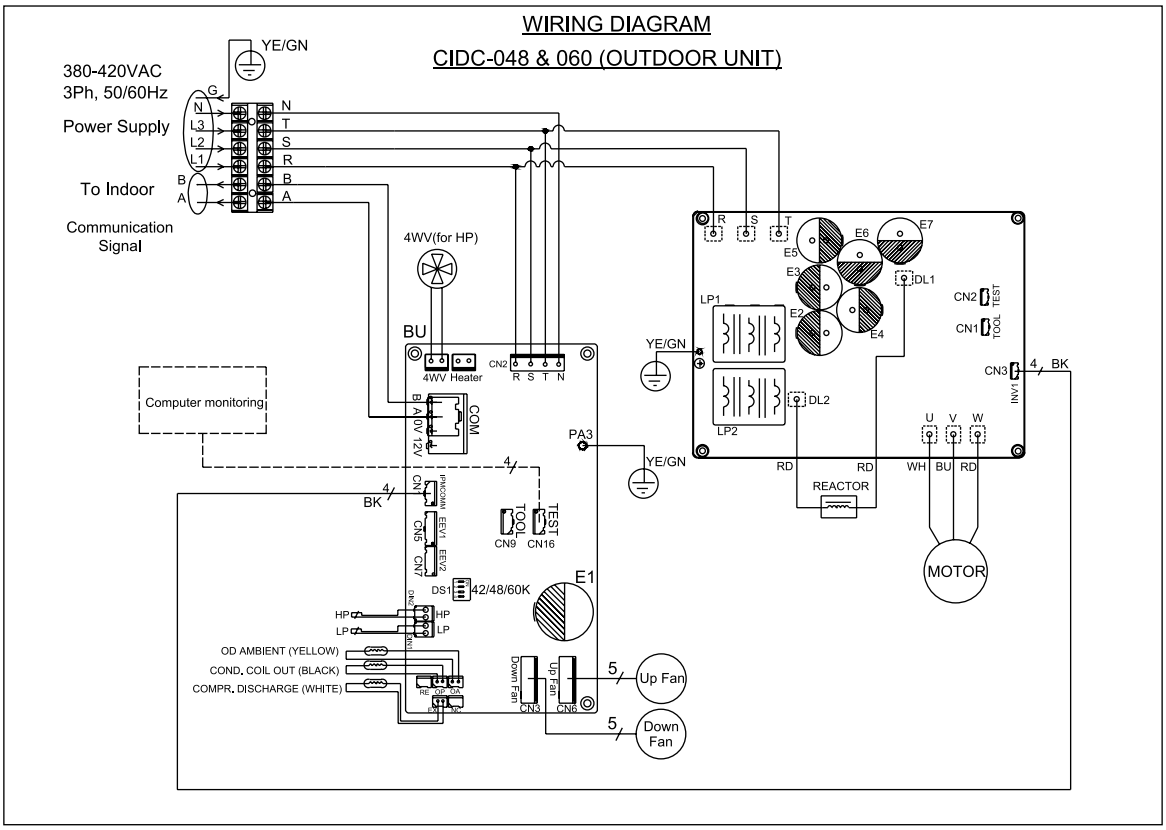

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