

COMMERCIAL AIR CONDITIONERS AND VENTILATION UNITS







Cooper&Hunter becomes the official sponsor of the **New York Yankees!**

We are proud to support and admire the passion for game of the New York Yankees baseball club, and we are excited about the new opportunities for a mutually beneficial partnership with the NY Yankees. This partnership is an important milestone for us as we join forces with one of the most famous teams in sports history.





NASCAR & Cooper&Hunter

The multifacetedly talented Chad Finchum - a skilled HVAC technician and professional NASCAR driver joined the NASCAR in Texas.

Cooper&Hunter USA is proud to sponsor the young and talented driver!

Victory at the wheel of Cooper&Hunter!









Cooper&Hunter History

Following the best traditions of the leading companies in the field of climate control equipment production in the USA, in 2003 **Cooper&Hunter International Corporation** began production of a wide range of climate control equipment under its own under its own brand name.

Two ideologies, two directions, two leaders came together to to create a new product. Exquisite design, in line with the fashion trend, ergonomics and comfort are combined with innovative developments, modern technologies and high quality.

COMFORT INNOVATIONS - these words have become the brand's slogan **Cooper&Hunter**

With more than 20 years of experience in the air conditioning and ventilation, **Cooper&Hunter** is becoming a leading manufacturer and supplier of heating, ventilation, air conditioning, refrigeration and control systems for the residential, commercial and industrial markets, commercial and industrial markets.

Cooper&Hunter products are exported to more than 50 countries and regions of the world, opening new markets every year.

Authorized **Cooper&Hunter** installers have the technical knowledge, confirmed by certificates. Their task is to providing professional technical advice, correct installation of air conditioning systems and service, providing the user with support in purchasing an air conditioner and the safety of its operation.

Therefore, **Cooper&Hunter** equipment creates an environment that allows customers to fully enjoy the use of their space for its intended purpose.

C&H (COOPER & HUNTER) trademark is owned by COOPER AND HUNTER INTERNATIONAL CORPORATION (USPTO / United States Patent & Trademark / No. 4494682)



SOCIAL RESPONSIBILITY PROJECT **"WE SAVE THE PLANET"**

In the fall of 2019, the global brand of climate Cooper&Hunter, a global brand of climate technology, announced the start the implementation of the long-term project "We save the Planet" project. It covers all countries where climate control equipment is sold "Cooper&Hunter sells climate control equipment (more than 45 countries), including Ukraine.

Corporate social responsibility is a voluntary contribution of business to the social, economic, and environmental industires. The company has decided to strategically and systematic support of environmental, sports and socially important events.





Why choose a commercial series **NORDIC COMMERCIAL R2**

USER

HIGH ENERGY EFFICIENCY

SEER up to 7.20, energy efficiency rated A++ for the entire series thanks to the DC inverter system and highly efficient equipment design, providing an average of 10% energy savings compared to the previous generation.

HEALTH CARE

5-level health protection: the ability to connect fresh air mixing for a whole range of indoor units, a variety of optional filters such as plasma, photocatalytic, carbon and others, as well as a self-cleaning system for the indoor unit. This entire set of measures provides the room with high-quality air throughout the entire operation of the air conditioner.

LOW NOISE LEVEL

Originally designed fans and a low-noise compressor reduce the noise level of the indoor unit to 28 dB.

COMFORT

The use of high-precision temperature ($\pm 0.5^{\circ}$ C) and humidity sensors takes into account the impact of humidity on thermal comfort, reduces excessive drying, and significantly improves the level of comfort through intelligent correction of temperature and humidity in the room.

INTELLIGENT CONTROL

Built-in Wi-Fi module for remote control via app.

INSTALLER

EASY TO INSTALL OUTDOOR UNIT

There is no need to remove the casing to connect the cable and pipes, which speeds up installation.

COMPACT DESIGN

The single-fan outdoor unit design for the entire series increases the convenience of transportation and installation.

CONVENIENT DESIGN FOR FLOOR-CEILING UNITS

Flexible and convenient installation: the connecting pipe is located on the right side with three piping directions to meet different engineering needs; the electrical box is located on the left side of the unit, so there is more space for wiring compared to the usual placement near the fan.

AFTER-SALES SERVICES

VARIOUS ADJUSTMENT TOOLS

Various debugging tools are supported, such as a portable debugger that can monitor operating parameters in real time, change device settings, and save records of the acquired data; monitoring and debugging through software that allows remote monitoring of operating conditions and parameters. A specialist can check the monitoring data to find errors. The troubleshooting process becomes more accurate and efficient.

ELECTRICAL BOX

The entire series of cassette units are designed with a built-in electrical box located under the decorative panel. There is no need to remove the ceiling for maintenance and inspection of the equipment. To perform maintenance, simply open the panel.

UNIVERSAL DESIGN FOR OUTDOOR UNITS

The NORDIC COMMERCIAL R2 commercial series offers a cooling capacity range from 3.5 kW to 16 kW. The outdoor units are versatile and can be combined with various types of indoor units: ducted, cassette and floor-ceiling.

NORDIC COMMERCIAL **R2** Series

Model range of **indoor units**

Type IDU Cooling Capacity/10		Cooling Capacity/10, kW	35	50	71	85	100	125	140	100	125	140	160
Phase ODU		1ph	1ph	1ph	1ph	1ph	3ph	1ph	3ph	1ph	3ph	3ph	
		low pressure	٠	•									
Duct		high pressure			•	0	•	0	0	•	•	•	•
Cassette		compact	٠	•									
		standard			•	ο	٠	0	ο	•	٠	•	•
Floor-sailing			•	•	•	0	•	0	0	•	•	•	•

- in stock
- to order

Model range of **outdoor units**

Model ODU		CH-IU035RK2	CH-IU050RK2	CH-IU071RK2	CH-IU085RK2	CH- IU100RK(M)2	CH- IU125RK(M)2	CH- IU140RK(M)2	CH-IU160RM2	
Constitu	Cooling	kW	3.5	5.3	7.1	8.5	10.5	12.1	13.4	16
capacity	Heating	kW	4	5.5	8	8.8	11.5	13.5	15.5	18.2
Power supply V/Hz/ Ph			220-24	0/50/1			380-415/50/3			
EER/COP	Durat	w/w	3.4/4.0	3.5/3.95	3.7/4.0	3.4/3.9	3.5/4.1	3.38/3.65	2.98/3.44	2.96/3.62
SEER/SCOP	DUCT	w/w	6.5/4.0	6.3/4.0	6.6/4.1	6.4/4.1	6.4/4.2	6.1/4.1	6.1/4.0	6.1/4.0
EER/COP	6 #-	w/w	3.8/4.0	3.4/3.5	3.5/3.9	3.4/3.9	3.4/3.9	3.1/3.4	2.91/3.3	2.74/2.98
SEER/SCOP	Cassette	w/w	7.1/4.2	6.6/4.0	6.7/4.3	6.9/4.3	6.6/4.4	6.1/4.1	6.3/4.0	6.1/4.0
Refrigerant o	Refrigerant charge volume kg		0.57	1	1.5	1.5	2.1	2.25	2.8	3.6
Sound Power	r	dB(A)	64	65	67	69	70 (71)	71 (71)	71 (72)	72
Max. hight d	rop	m	15	20	20	20	25	30	30	30
Max. distanc	е	m	30	30	30	30	75	75	75	75
Connecting	Liquid pipe	inch	1⁄4 (6.35)	1⁄4 (6.35)	⅔ (9.52)	⅔ (9.52)	³⁄8 (9.52)	³⁄8 (9.52)	³⁄8 (9.52)	³⁄8 (9.52)
pipe	Gas pipe	(mm)	3⁄8 (9.52)	1∕2 (12.7)	5⁄8 (15.9)	5% (15.9)	5% (15.9)	5% (15.9)	5% (15.9)	5% (15.9)
Dimension (\	WxDxH)	mm	675×285×553	745×300×555	889×34	40×660		940×370×820	•	990×370×955
	Net	1	24.5	30.5	41.5	46	65 (75)	66 (76)	73 (81)	94
weight	Gross	кд		33	45	50	72 (82)	73 (83)	80 (88)	103

Cooper Cooper

High-efficiency compressor

■ HIGH-EFFICIENCY MOTOR

The V-shaped structure and high magnetic flux density of the rare earth permanent magnet ensure high compressor performance under various load conditions.



STRONG PARTING PLATE (BLADE) The diamond-like carbon coating of the blade increases durability and reliability in extreme conditions between the high and low pressure chambers.





QT700 steel with a durable surface coating ensures long service life under full load.

LOW OIL EMISSION INTO THE SYSTEM

The compressor uses active oil separation technology to reduce oil discharge into the piping system to ensure sufficient amount of oil is retained inside the compressor for higher heat transfer efficiency and improved reliability.



LOW RESISTANCE ON THE DISCHARGE VALVE

The new design of the discharge valve helps reduce refrigerant flow resistance, which increases compressor efficiency over a wide frequency range.

HIGH-EFFICIENCY CYLINDER

The mirror-polished cylinder surface combined with a cryogenically processed alloy rotor has increased abrasion resistance and provides improved sealing, creating more efficient compression.





Wide operating range

NORDIC COMMERCIAL R2 Series, equipped with full DC inverter technology, uses stepless speed regulation for the compressor and fan motor and precise flow control for the electronic expansion valve, ensuring reliable operation over a wide operating range, making the units well-suited for a wider range of applications.



Ambient temperature range for cooling: -20°C ~ +52°C

Ambient temperature range for heating: -20°C \sim +24°C

■ WIDE VOLTAGE RANGE

Thanks to the optimization of drive parameters and electronic control, NORDIC COMMERCIAL R2 can operate in a wide voltage range, even if the voltage drops to 180 V. It can be used in places with unstable power supply.



ENERGY EFFICIENCY



For example, a 3.5 kW cassette unit shows a 20% increase in SEER, while a 12.5 kW cassette unit shows an 11% increase in SCOP.



Combined communication network

Based on the specifics of connecting one outdoor unit to the indoor unit, two communication networks were connected.

BUS 1: LNS

Using the latest generation of communication technology, the outdoor unit can simultaneously operate over a long distance with various types of indoor units, including ducted, cassette and floor-ceiling units.







BUS 2: HBS INDIVIDUAL CONTROL BUS

Change of control protocol (wired/centralized control, etc.): HBS communication technology is used for indoor units and controllers. Control terminals are applicable to both NORDIC COMMERCIAL R2 and CHV commercial series units, which provides compatibility and greatly simplifies centralized control.



■ LNS (LINE, NEUTRAL, SIGNAL)

The NORDIC COMMERCIAL R2 commercial series uses a communication line similar to household systems – LNS (Line-Neutral-Signal). Compared with the previous commercial air conditioners of the N, R, N4 series, the number of information lines has been reduced from 2 to 1, which not only saves wires, but also makes installation more convenient. At the same time, the signal line uses a powerful electrical port design, and a short-term connection of power to this line during installation will not damage the board.





TWIN-ROTOR DC INVERTER COMPRESSOR

Compared to traditional compressors, the twin-rotor compressor has a higher level of power and energy efficiency and a wider operating range. Thanks to the lower discharge temperature, the compressor operates more stably under extreme operating conditions.



Long pipeline lengths

Model ODU – cooling capacity	kW	3.5	5	7.1	8.5	10	12.5	14	16
H – Max. hight drop	m	15	20	20	20	25	30	30	30
L – Max. Distance	m	30	30	30	30	75	75	75	75

■ FLEXIBILITY AND CONVENIENCE OF INSTALLATION

he maximum distance from the outdoor to the indoor unit can reach 75 m (in models from 10 kW), and the height difference is up to 30 m (in models from 12.5 kW). Communication and power supply between the indoor and outdoor units is based on the principle of household systems - LNS (phase, neutral, signal), which simplifies the installation of equipment.



Improved hydraulic circuit protection

To reduce the risk of solid particles entering the hydraulic circuit of the equipment from the connecting pipeline, mesh filters are used. This increases the protection of such circuit elements as the EEV, four-way valve, and liquid freon distributor.



Oil-catching loops

The height difference between the outdoor and indoor units impairs the oil return process to the compressor. If the height difference between the outdoor and indoor units exceeds 10 m, it is necessary to install Oil-catching loops on the gas pipe.



HEATING OF THE TRAY

As standard, all outdoor units of the NORDIC COMMERCIAL R2 commercial series are equipped with a tray heater, which ensures stable heating operation at low outdoor temperatures.



Intelligent control

■ 1 ELECTRICAL BOX

The electrical box is cooled by refrigerant, so the temperature of the controller power module is not affected by the ambient temperature, ensuring reliable operation and a long service life. Note: Only for 14 and 16 kW models.

■ 2 NEW SEPARATOR DESIGN

The new separator design prevents liquefied refrigerant from being sucked into the compressor, which increases operational reliability.



By switching to a different communication technology, only 1 wire is used for communication, which saves wiring material and makes installation easier. In addition, the communication ports are designed in such a way that the controller will not be damaged when the wires are connected incorrectly for a short period of time.

4 FAN MOTOR

The fan motor has protection against strong wind gusts by detecting increased resistance/ load on the motor. The protection switches off the motor to prevent damage. The components are made of stainless steel or by an electrophoresis process and meet class C4 salt spray test.



■ 5 PROTECTION

Protective grilles on the rear and left sides protect the heat exchanger fins from bending during transportation and installation.

■ 6 CONVENIENCE

The valve cover protects the valves and prevents noise caused by condensation drops on the valves.

7 SAFETY

The air outlet grille meets EU requirements for child finger protection to protect children from injuries caused by accidental contact with the grille.













DOUBLE SELF-CLEAN

From now on, the Double Self-clean function is present on the entire commercial series. The essence of this technology is to sharply cool the heat exchanger to a freezing state, after which the heat exchanger is heated to a temperature of +58 ... +57 °C. This leads to instant cleaning, drying and destruction of bacteria.

Double Self-clean technology – saves you time and money on air conditioner service.



Icing of the heat exchanger leads to the separation of particles from the fins.

DRYING
 After the water drains,
 the evaporator is heated to dry.

COMPACT AND LIGHTWEIGHT

Unified appearance, compact design with one fan for outdoor units of the entire series, takes up little space, is easy to transport and install, and saves installation space.



3-LAYER ANTI-CORROSION PCB COATING

The PCB boards of the outdoor units have three layers of anti-corrosion coating that protects the electrical circuits and components from moisture, insects and dust.



Without coating



3-layer anti-corrosion coating

WIRED CONTROLLER HAS DOUBLE PROTECTION AGAINST MOISTURE

Additional seals in the controller design effectively protect the printed circuit board from moisture ingress.



FACTORY COMPLETE WITH TWO CONTROLLERS

All units of the NORDIC COMMERCIAL R2 series are equipped with an infrared remote controller and a wired controller with a built-in Wi-Fi module.

HEAT EXCHANGER TUBES



The heat exchanger tubes have internal helical fins to increase the contact area and optimize the turbulent state of the refrigerant flow, which has a positive effect on increasing heat exchange efficiency.

DOUBLE-COATED HEAT EXCHANGER FINS

The heat exchanger fins have a double coating. Hydrophilic coating that repels moisture and promotes rapid drainage of melt water during defrosting of the outdoor unit. Anti-corrosion coating* that protects the material from the destructive effects of active substances found in humid air, rainwater and snow, extending the service life and efficiency of the equipment.



* Blue Fin coating is used as standard in the commercial series.

HEAT EXCHANGER FINS

To improve heat exchange efficiency, corrugated fins with a smaller pitch are used, which increases the effective heat exchange area between the refrigerant and air and contributes to improving heat exchange efficiency. Reducing the distance between the fins increases corrosion resistance. The hydrophilic coating of the corrugated fins ensures unhindered drainage of melt water, facilitating the defrosting process of the outdoor unit.



LOW POWER CONSUMPTION STANDBY MODE

The NORDIC COMMERCIAL R2 commercial series uses advanced technology of the unit wake-up circuit and intelligent heating of the compressor crankcase by its motor windings instead of the traditional band heater. Therefore, there is no electric compressor heater in this series.



CONVENIENT FOR CONNECTING WIRING AND PIPES



Automatic fault diagnosis: The device can automatically diagnose faults and display corresponding error codes (on the LED panel of the indoor unit, the main board of the outdoor unit and the wired controller).





Easy connection: wires can be connected by detaching the handle, without having to open the front panel. **Reliable pipe connections:** the entire model line is equipped with a side cover that hides and protects the ports and connection elements.

One-piece front panel: simple appearance, fewer components for vibration sources, easy access.

Electrical safety



DRAINAGE PUMP 12V DC

Even in a humid environment, a water pump can ensure electrical safety.

■ FULLY METAL ELECTRICAL BOX

A double-layer sheet metal outer casing is used to protect the electrical control components. The special wiring design prevents insects and water droplets from entering the electrical box.

ENGINE WIRING IS PROTECTED WITH SHEET METAL

Sheet metal is used to protect electrical wires from mechanical damage.



FULL GROUNDING FOR THE ENTIRE UNIT

All conductive parts are grounded to ensure electrical safety.



ELECTRICAL WIRING PARTS PROTECTED BY SHEET METAL INSERTS

Sheet metal inserts are used for all wiring parts to protect them from damage and increase the electrical safety of the product.







Cassette indoor unit with circular air distribution

The cassette unit with circular air distribution is suitable for various places such as hotels, office buildings, and shopping malls. The unit provides an uniform air temperature distribution. That increases the air quality and thermal comfort.

CONVENIENT FOR HIGH CEILINGS

Cassette units offer 11 different fan speeds to choose from. During installation, you can select the appropriate fan speed according to the ceiling height to ensure a comfortable air supply distance.



ELECTRIC BOX DESIGNED FOR EASY DISASSEMBLY AND SERVICING

Built-in electric box is standard for the entire product range. To carry out maintenance, just open the grill - there is no need to remove the ceiling, saving time and labor.



INDEPENDENT CONTROL OF OSCILLATIONS OF LOUVERS

The four air louvres can be controlled independently of each other, and by setting the direction of the air on all sides, there will be no direct entry of air into the working area.

(requires XE 7C-24/HC remote control)

STANDARD EQUIPMENT DRAINAGE PUMP

The pressure of the pump for condensate removal can be up to 1000 mm, and the height of the vertical installation of the unit can be flexibly adjusted depending on the installation requirements.





OVERALL DIMENSIONS OF THE INDOOR UNIT





Units: mm									
Dimensions/Model	A	B	C	D	Ε	F	G	H	
CH-IC035RK2	620	500	570	505	550	260	1/.0	570	520
CH-IC050RK2	020	300	570	303	330	200	140	330	330





Units: mm							
Dimensions/ Model	A	B	C	D	E	F	G
CH-IC071RK2 CH-IC085RK2	950	890	840	680	780	200	135
CH-IC100RK2 CH-IC125RK2	950	890	840	680	780	240	135
CH-IC140RK2 CH-IC160RK2	950	890	840	680	780	290	135

OVERALL DIMENSIONS OF THE OUTDOOR UNIT





10 01	
	U
B	•

Units: mm							
Dimensions/ Model	A	В	C	D	Ε	F	G
CH-IU035RK2	732	330	553	455	310	675	285
CH-IU050RK2	802	350	555	512	331	745	300
CH-IU071RK2	958	402	660	570	371	889	340
CH-IU085RK2	958	402	660	570	371	889	340
CH-IU100RM2	1020	427	820	635	396	940	370
CH-IU125RM2	1020	427	820	635	396	940	370
CH-IU140RM2	1020	427	820	635	396	940	370
CH-IU160RM2	1070	427	960	755	396	990	370

Performance and consumption data are determined at the following air parameters Cooling: indoor temperature DB/WB: 27/19°C, outdoor temperature DB/WB: 35/24°C Heating: indoor temperature DB/WB: 20/15°C, outdoor temperature DB/WB: 7/6°C

O Drain pipe

2 Liquid pipe

3 Gas pipe

TECHNICAL SPECIFICATIONS

Model	Model IDU Model ODU		CH-IC035RK2 CH-ILI035RK2	CH-IC050 CH-IU050	RK2 RK2	CH-IC	071RK2 071RK2	CH CH	-IC085RK2 -IU085RK2	CH-IC100RK2 CH-IU100RK2
	Cooling	kW	3.5	5.0	11172		7.1	U.I.	8.5	10.5
Canacity	cooling	Btu/h	11900	17000)	24	200		29000	35800
oupdoity	Heating	kW	4.0	5.6			.8		8.8	11.5
	J	Btu/ n	136UU z 20 //, 00	19100 z 40/z	50	20 7 50	600 /z.on	7	30000 300/200	<u> </u>
SEER/SCOP			710/4 20	6 60/4	30 30	5.30 6.70	/4 30		5.40/ 5.70	6 60/4 40
Energy efficien	cy grade		A++/A+	A++/A	+	A+-	-/А+		A++/A+	A++/A+
Power supply		V/Hz/Ph				~220-240	//50Hz/1Ph			
Power input	Cooling	kW	0.92	1.47			.03		2.50	3.10
	Heating	KW	1.00	1.60			70		2.25	2.95
Current input	Heating	Δ	4.40	7.00			70 60		10.30	14.00
Refrigerant cha	arge volume	kg	0.57	0.85			50		1.50	2.10
				Indoor u	nit	·				
Air flow volume	e (SH/H/M/L)	CFM	353/324/294/23	424/383/35	3/294	647/588	/529/470	824/	765/647/588	883/824/710/589
Sound proceure	· · · · · · ·	4B(V)	600/550/500/40 z4/z5/zz/20	JU /20/650/60	0/500 /zs	1100/1000 zo/zo	J/900/800 /z6/z1	1400/1	300/1100/1000 1/1.4/1.9/28	500/1400/1200/1000
Dimension	Outline	mm	570x570x260	570x570x	260	840x8	40x200	84	0x840x200	840x840x240
(WxDxH)	Package	mm	698x653x295	698x653x	295	943x9	23x245	94	3x923x245	933x903x272
Net weight/Gro	oss weight	kg	16.5/21.0	16.5/21	.0	21.0	/27.0		21.0/27.0	23.0/29.0
	Model		(00	TF05 (00, (00)	175	050 (~	TF06	
Panel	Outline dimension	mm	62UX62UX47.5	62UX62UX	4/.5	95UX 1077v1	75UX52 020v110	95 107	50X950X52	950X950X52 1077v1020v110
	Net/Gross weight	ka	3 0/4 5	3 0/4	5	103371	/9.5	100	6 0/9 5	6 0/9 5
	······································			Outdoor (unit					
Sound pressure	2	dB(A)	48	52		[55		57	57
Dimension	Outline	mm	675x285x553	745x300>	(555	889x3	40x660	88	9x340x660	940x370x820
(WXDXH) Not weight /Cru	Package oss weight	mm ka	794X5/0X0U5 2/L5/27.0	8/2X598X 30 5/33	009	1032X4 /11 5	150X/3U //15 0	103	52X450X75U	1093X497X885 65.0772.0
Net weight/ on	Liquid pipe	inch	1/4 (6.35)	1/4 (6.3	5)	3/8	(9.52)	-	3/8 (9.52)	3/8 (9.52)
Connecting	Gas pipe	(mm)	3/8 (9.52)	1/2 (12.	7)	5/8	(15.9)		5/8 (15.9)	5/8 (15.9)
pipe	Max. distance	m	15/30	20/30)	20	/30	25/30		30/75
	Indoor unit					100042	CH-IC195	רעם		
Model	Indoor unit Outdoor unit		CH-IC125RK2 CH-IU125RK2	CH-IC140RK2 CH-IU140RK2	CH-IC CH-IU	100RK2 100RM2	CH-IC125 CH-IU125	RK2 RM2	CH-IC140RK2 CH-IU140RM2	CH-IC160RK2 CH-IU160RM2
Model	Indoor unit Outdoor unit Cooling	kW	CH-IC125RK2 CH-IU125RK2 12.1	CH-IC140RK2 CH-IU140RK2 13.4	CH-IC CH-IU 1	100RK2 100RM2 0.5	CH-IC125 CH-IU125 12.1	RK2 RM2	CH-IC140RK2 CH-IU140RM2 13.4	CH-IC160RK2 CH-IU160RM2 14.5
Model Capacity	Indoor unit Outdoor unit Cooling	kW Btu/h	CH-IC125RK2 CH-IU125RK2 12.1 41200	CH-IC140RK2 CH-IU140RK2 13.4 45700	CH-IC CH-IU 1 35	100RK2 100RM2 0.5 800	CH-IC125 CH-IU125 12.1 41200	RK2 RM2	CH-IC140RK2 CH-IU140RM2 13.4 45700	CH-IC160RK2 CH-IU160RM2 14.5 49400
Model Capacity	Indoor unit Outdoor unit Cooling Heating	kW Btu/h kW Btu/h	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 /6000	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900	CH-IC CH-IU 1 35 1 30	100RK2 100RM2 0.5 800 1.5 200	CH-IC125 CH-IU125 12.1 41200 13.5	RK2 RM2	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000
Model Capacity EER/COP	Indoor unit Outdoor unit Cooling Heating	kW Btu/h kW Btu/h	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 /3.30	CH-IC CH-IU 1 35 2 39 3.40	100RK2 100RM2 0.5 800 1.5 200 /3.90	CH-IC125 CH-IU125 12.1 41200 13.5 46000 3.10/3.4	RK2 RM2	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98
Model Capacity EER/COP SEER/SCOP	Indoor unit Outdoor unit Cooling Heating	kW Btu/h kW Btu/h	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00	CH-IC CH-IU 11 35 1 39 3.40 6.60	100RK2 100RM2 0.5 800 1.5 200 //3.90 //4.40	CH-IC125 CH-IU125 12.1 41200 13.5 46000 3.10/3.4 6.10/4.7	RK2 RM2	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00
Model Capacity EER/COP SEER/SCOP Energy efficien	Indoor unit Outdoor unit Cooling Heating cy grade	kW Btu/h kW Btu/h	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+	CH-IC CH-IU 11 35 1 39 3.40 6.60 A+	100RK2 100RM2 0.5 800 1.5 200 1/3.90 1/4.40 +/A+	CH-IC125 CH-IU125 12.1 41200 13.5 46000 3.10/3.4 6.10/4. A+++/A	RK2 RM2	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+
Model Capacity EER/COP SEER/SCOP Energy efficient Power supply	Indoor unit Outdoor unit Cooling Heating cy grade	kW Btu/h kW Btu/h V/Hz/Ph	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A+++/A+ ~220-240V 3.00	CH-IC140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/1Ph	CH-IC CH-IU 11 35 1 39 3.40 6.60 A+-	100RK2 100RM2 0.5 800 1.5 200 //3.90 //4.40 +/A+	CH-IC125 CH-IU125 12.1. 41200 13.5 46000 3.10/3.4 6.10/4. A++/A -~38 3.90	RK2 RM2) 40 10 + 0-415V	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input	Indoor unit Outdoor unit Cooling Heating cy grade Cooling Heating	kW Btu/h kW Btu/h V/Hz/Ph kW kW	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/1Ph 4.60 4.70	CH-IC CH-IU 1 35 1 39 3.4C 6.60 A+ 3 2	100RK2 100RM2 0.5 800 1.5 200 //3.90 //4.40 +/A+ .10 .95	CH-IC125 CH-IU125 12.1 41200 13.5 46000 3.10/3.4 6.10/4. A++/A ~38 3.90 3.97	RK2 RM2) 40 10 + 0-415V,	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input	Indoor unit Outdoor unit Cooling Heating cy grade Cooling Heating Cooling	kW Btu/h kW Btu/h V/Hz/Ph kW kW	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/1Ph 4.60 4.70 21.00	CH-IC CH-IU 35 1 39 3.4C 6.60 A+ 3 2 2 4	100RK2 100RM2 0.5 800 1.5 200 //4.40 //4.40 +/A+ 10 95 .90	CH-IC125 CH-IU125 12.1 41200 13.5 46000 3.10/3.4 6.10/4. A++/A ~38 3.90 3.97 6.20	RK2 RM2) 40 10 + 0-415V	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.00	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input Current input	Indoor unit Outdoor unit Cooling Heating cy grade Cooling Heating Cooling Heating Heating	kW Btu/h kW Btu/h W/Hz/Ph kW kW A A	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60 19.00	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/1Ph 4.60 4.70 21.00 21.50	CH-IC CH-IU 1 35 1 39 3.40 6.60 A+ 3 2 2 4 4 4	100RK2 100RM2 0.5 800 1.5 200 //3.90 //4.40 +//A+ 10 95 90 .70	CH-IC125 CH-IU125 12.1 41200 3.10/3.4 6.10/4: A++/A ~38 3.90 3.97 6.20 6.30	RK2 RM2) 40 10 + 0-415V	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.00 7.10 7.10	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input Current input Refrigerant cha	Indoor unit Outdoor unit Cooling Heating cy grade Cooling Heating Cooling Heating Heating arge volume	kW Btu/h kW Btu/h V/Hz/Ph kW kW A A A kg	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25	CH-IC140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/1Ph 4.60 4.70 21.00 21.50 2.80	CH-IC CH-IU 1 35 39 3.4C 6.60 A+ 3 2 2 4 4 4 2 2	100RK2 100RM2 0.5 800 1.5 200 //3.90 //4.40 +/A+ 10 .95 .90 .70 .10	CH-IC125 CH-IU125 12.1. 41200 3.10/3.4 6.10/4. A+++A ~38 3.90 3.97 6.20 6.30 2.25	RK2 RM2 40 10 + 0-415V	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.00 7.10 2.80	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input Current input Refrigerant cha	Indoor unit Outdoor unit Cooling Heating Cy grade Cooling Heating Cooling Heating arge volume	kW Btu/h kW Btu/h V/Hz/Ph kW kW A A kg CFM	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25 1000/883/765/647	CH-IC140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/1Ph 4.60 4.70 21.00 21.50 2.80 Indoor u 1177/1059/942/824	CH-IC CH-IU 1 35 39 3.4C 6.60 A+ 3 2 4 4 4 4 4 4 2 nit 883/824	100RK2 100RM2 0.5 800 1.5 200 //4.40 +/A+ .10 .95 .90 .70 .10 //710/589	CH-IC125 CH-IU125 12.1 41200 3.10/3.4 6.10/4. A++/A 3.90 3.97 6.20 6.30 2.25 1000/883/7	RK2 RM2) 40 10 + 0-415V/ 65/647	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.00 7.10 2.80 1177/1059/942/83	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50 24 1354/1235/1118/941
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input Current input Refrigerant cha Air flow volume	Indoor unit Outdoor unit Cooling Heating cy grade Cooling Heating Cooling Heating arge volume e (SH/H/M/L)	kW Btu/h kW Btu/h V/Hz/Ph kW kW A A kg CFM m ³ /h	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25 1000/883/765/647 1700/1500/1100	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/1Ph 4.60 4.70 21.00 21.50 2.80 Indoor u 1177/1059/942/824 2000/1800/1600/1400	CH-IC CH-IU 35 1 39 3.4C 6.60 A+ 3 2 4 4 4 4 4 4 4 4 4 1500/140C	100RK2 100RM2 0.5 800 1.5 200 //4.40 +/A+ 10 .95 .90 .70 .10 //710/589 //1200/1000	CH-IC125 CH-IC125 12.1 41200 13.5 46000 3.10/3.4 6.10/4.4 -~38 3.90 3.97 6.20 6.30 2.25 1000/883/7 1700/1500/32	RK2 RM2 0 40 10 + 0-415V/ 65/647 00/1100	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50HZ/3Ph 4.60 4.70 7.00 7.10 2.80 1177/1059/942/85 2000/1800/1600/144	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50 24 1354/1235/1118/941 0 2300/2100/1900/1900/1600
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input Current input Refrigerant cha Air flow volume Sound pressure	Indoor unit Outdoor unit Cooling Heating cy grade Cooling Heating Cooling Heating erge volume e (SH/H/M/L)	kW Btu/h kW Btu/h W/Hz/Ph kW kW A A A kg CFM m ³ /h dB(A)	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25 1000/883/765/647 1700/1500/1300/1100 48/46/43/39	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/IPh 4.60 4.70 21.00 21.50 2.80 Indoor u 1177/1059/942/824 2000/1800/1600/1400 50/48/45/41 8/0.9200	CH-IC CH-IU 1 35 1 39 3.4C 6.60 A+ 3 2 2 4 4 4 2 0 1 50 2 4 4 2 0 1 1 50 2 1 0 1 4 1 50 2 1 1 3 9 2 1 3 9 2 4 1 3 9 3.4C 6.60 1 39 3.4C 6.60 1 39 3.4C 6.60 1 39 3.4C 6.60 1 39 3.4C 6.60 1 39 3.4C 6.60 1 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	100RK2 100RM2 0.5 800 1.5 200 //3.90 //4.40 +/A+ 10 .95 .90 .70 .10 .70 .10 .70 .10 .710/589 ./1200/1000 /39/38	CH-IC125 CH-IU125 12.1 41200 3.10/3.4 6.10/4. A++/A ~-38 3.90 3.97 6.20 6.30 2.25 1000/883/7 1700/1500/13 48/46/43	RK2 RM2) 40 10 + 0-415V, 65/647 00/1100 /39	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.00 7.10 2.80 1177/1059/942/88 2000/1800/1600/144 50/48/45/41	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50 24 1354/1235/1118/941 10 2300/2100/1900/1600 52/50/48/44 210.0200
Model Capacity EER/COP SEER/SCOP Energy efficient Power supply Power input Current input Current input Refrigerant cha Air flow volume Sound pressure Dimension (WyDyH)	Indoor unit Outdoor unit Cooling Heating Cooling Heating Cooling Heating Cooling Heating erge volume e (SH/H/M/L) Dutline Package	kW Btu/h kW Btu/h V/Hz/Ph kW kW A A kg CFM m ³ /h dB(A) mm	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A+++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25 1000/883/765/647 1700/1500/1300/1100 48/46/43/39 84/0840x240 933×903x972	CH-IC140RK2 13.4 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/1Ph 4.60 4.70 21.00 21.50 2.80 Indoor u 1177/1059/942/824 2000/1800/1600/1400 50/48/45/41 840x840x290 933y903y335	CH-IC CH-IU 1 35 1 39 3.4C 6.60 A+ 3 2 2 4 4 4 883/824 1500/140C 43/41 8843/824 1500/140C 43/41 840x8 033x0	100RK2 100RM2 0.5 800 1.5 200 //4.40 +/A+ 10 .95 .90 .70 .10 .70 .10 .7710/589 ./1200/1000 /39/38 40x240 .03x272	CH-IC125 CH-IU125 12.1. 41200 3.10/3.4 6.10/4. A+++/A ~38 3.90 3.97 6.20 6.30 2.25 1000/883/7 1700/1500/130 48/46/43 840x840x 933x905x	RK2 RM2) 40 10 + 0-415V 65/647 00/1100 //39 (240 272	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.00 7.10 2.80 1177/1059/942/8: 2000/1800/1600/144 50/48/45/41 840x840x290 933x003x335	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50 24 1354/1235/1118/941 0 200/2100/1900/1600 52/50/48/44 840x840x290 933x903x35
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input Current input Current input Refrigerant cha Air flow volume Sound pressure Dimension (WxDxH) Net weight/Gro	Indoor unit Outdoor unit Cooling Heating Cy grade Cooling Heating Cooling Heating arge volume e (SH/H/M/L) Qutline Package pass weight	kW Btu/h kW Btu/h V/Hz/Ph kW kW A A A kg CFM m ³ /h dB(A) mm mm ka	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25 1000/883/765/647 1700/1500/1300/100 48/46/43/39 840x240 933x903x272 23.0/29.0	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/1Ph 4.60 4.70 21.50 2.80 Indoor u 1177/1059/942/824 2000/1800/1600/1400 50/48/45/41 840x840x290 935x903x335 25.0/32.0	CH-IC CH-IU 1 35 39 3.4C 6.60 A+ 3 2 4 4 4 4 2 1500/400 43/41 883/824 1500/400 43/41 840x8 933x9 23.0	100RK2 100RM2 0.5 800 1.5 200 //4.40 +/A+ .10 .95 .90 .70 .10 //10/589 //1200/1000 /39/38 40x240 03x272 /29.0	CH-IC125 CH-IU125 12.1. 41200 3.10/3.4 6.10/4. A+++/A ~38 3.90 6.20 6.30 2.25 1000/883/7 1700/1500/13 48/4/6/43 840/8402 935x903x 2.3.0/29	RK2 RM2) 40 10 + 0-415V/ 65/647 00/1100 /39 (240 272 :0	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.00 7.10 2.80 1177/1059/942/8: 2000/1800/1600/144 50/48/45/41 840x840x290 933x903x335 25.0/32.0	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50 24 1354/1235/1118/941 2300/2100/1900/1600 52/50/48/44 840x840x290 933x903x335 26.0/33.0
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input Current input Current input Refrigerant cha Air flow volume Sound pressure Dimension (WxDxH) Net weight/Gro	Indoor unit Outdoor unit Cooling Heating Cy grade Cooling Heating Cooling Heating arge volume e (SH/H/M/L) Outline Package oss weight Model	kW Btu/h kW Btu/h W/Hz/Ph kW A A A kg CFM m ³ /h dB(A) mm mm kg	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25 1000/883/765/647 1700/1500/1300/1100 48/46/43/39 840x840x240 933x903x272 23.0/29.0	CH-IC140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/1Ph 4.60 4.70 21.00 21.50 2.80 Indoor u 1177/1059/942/824 2000/1800/1600/1400 50/48/45/41 840x840x290 933x903x335 25.0/32.0	CH-IC CH-IU 1 35 39 3.40 6.60 A+ 3 2 4 4 4 2 0 1500/400 43/41 840x8 933x9 23.0	100RK2 100RM2 0.5 800 1.5 200 //4.40 +/A+ .10 .95 .90 .70 .10 //10/589 //1200/1000 /39/38 40x240 03x272 /29.0	CH-IC125 CH-IC125 12.1 41200 13.5 46000 3.10/3.4 6.10/4. A++/A 3.90 3.97 6.20 6.30 2.25 1000/883/7 1700/1500/133 48/46/43 840x840x 933x903x 23.0/29 06	RK2 RM2) 40 10 + 0-415V/ 65/647)0/1100 /39 (240 272 2.0	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.00 7.10 2.80 1177/1059/942/8 2000/1800/1600/14 50/48/45/41 840x840x290 933x903x335 25.0/32.0	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50 24 1354/1235/1118/941 0 2300/2100/1900/1600 52/50/48/44 840x840x290 933x903x335 26.0/33.0
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input Current input Current input Refrigerant cha Air flow volume Sound pressure Dimension (WxDxH) Net weight/Gro	Indoor unit Outdoor unit Cooling Heating Cy grade Cooling Heating Cooling Heating arge volume e (SH/H/M/L) Coutline Package Doutline Package Outline dimension	kW Btu/h kW Btu/h V/Hz/Ph kW kW A A kg CFM m ³ /h dB(A) mm kg	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25 1000/883/765/647 1700/1500/1300/100 48/46/43/39 840x840x240 933x903x272 23.0/29.0	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/1Ph 4.60 4.70 21.00 21.50 2.80 Indoor u 1177/1059/942/824 2000/1800/1600/1400 50/48/45/41 840x840x290 933x903x335 25.0/32.0	CH-IC CH-IU 1 35 1 39 3.4C 6.60 A+ 3 2 4 4 4 4 2 nit 883/824 4 500/1400 43/41 840x8 933x9 23.0	100RK2 100RM2 0.5 800 1.5 200 //4.40 +/A+ .10 .95 .90 .70 .10 ./710/589 ./1200/1000 /39/38 40x240 03x272 ./29.0 TF 950x52	CH-IC125 CH-IC125 12.1 41200 13.5 46000 3.10/3.4 6.10/4. A++/A ~38 3.90 3.97 6.20 6.30 2.25 1000/883/7 1700/1500/130 48/46/43 840x840x 933x903x 23.0/29 06 950x950	RK2 RM2) 40 10 + 0-415V, 65/647 00/1100 /39 (240 272 0.0	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.10 2.80 1177/1059/942/82 2000/1800/1600/144 50/48/45/41 840x840x290 933x903x335 25.0/32.0	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50 24 1354/1235/1118/941 0 2300/2100/1900/1600 52/50/48/44 840x840x290 933x903x335 26.0/33.0
Model Capacity EER/COP SEER/SCOP Energy efficient Power supply Power input Current input Current input Refrigerant cha Air flow volume Sound pressure Dimension (WxDxH) Net weight/Gro Panel	Indoor unit Outdoor unit Cooling Heating Cy grade Cooling Heating Heating Cooling Heat	kW Btu/h kW Btu/h W/Hz/Ph kW kW A A A kg CFM m ³ /h dB(A) mm mm kg mm	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25 1000/883/765/647 1700/1500/1300/1100 48/46/43/39 840x840x240 933x903x272 23.0/29.0 950x950x52 1033x1020x110 6.0/0 5	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/IPh 4.60 4.70 21.00 21.50 2.80 Indoor u 1177/1059/942/824 2000/1800/1600/1400 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 6.0.05	CH-IC CH-IC CH-IU 35 1 39 3.4C 6.60 A++ 3 2 4 4 4 4 4 4 4 4 4 4 4 4 500/140C 4.5/41 840x8 933x9 23.0 950x1 1033x1 1035x1	100RK2 100RK2 0.5 800 1.5 200 //4.40 +/A+ 10 .95 .90 .70 .10 //10/589 //1200/1000 //39/38 40x240 03x272 //29.0 TF 950x52 020x110 //05	CH-IC125 CH-IC125 12.1 41200 13.5 46000 3.10/3.4 6.10/4.4 -~38 3.90 3.97 6.20 6.30 2.25 1000/883/7 1700/1500/130 48/46/43 840x840x 935x903x 23.0/29 06 950x9500 1033x1020 6.00	RK2 RM2 40 10 + 0-415V, 65/647 00/1100 /39 (240 272 20 x52 x52	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50HZ/3Ph 4.60 4.70 7.00 7.10 2.80 1177/1059/942/8: 2000/1800/1600/144 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 4.0 / 0 5	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50 24 1354/1235/1118/941 0 2300/2100/1900/1600 52/50/48/44 840x840x290 933x903x335 26.0/33.0 950x950x52 1033x1020x110 4.0/0 F
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input Current input Current input Refrigerant cha Air flow volume Sound pressure Dimension (WxDxH) Net weight/Gro Panel	Indoor unit Outdoor unit Cooling Heating cy grade Cooling Heating Cooling Heating Cooling Heating e (SH/H/M/L) Outline Package Outline dimension Package dimensio Net/Gross weight	kW Btu/h kW Btu/h W/Hz/Ph kW kW A A A kg CFM m ³ /h dB(A) mm mm kg mm	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25 1000/883/765/647 1700/1500/1300/1100 48/46/43/39 840x840x240 933x903x272 23.0/29.0 950x950x52 1033x1020x110 6.0/9.5	CH-IC140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/1Ph 4.60 4.70 21.00 21.50 2.80 Indoor u 1177/1059/942/824 2000/1800/1600/1400 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 6.0/9.5 Outdoor 4	CH-IC CH-IU 1 35 39 3.4C 6.60 A+ 3 2 4 4 4 2 1500/140C 43/41 883/824 1500/140C 43/41 840x8 933x9 23.0 950x1 950x1 1033x1 6.C 1015	100RK2 100RM2 0.5 800 1.5 200 //4.40 +/A+ 10 .95 .90 .70 .10 .70 .10 .70 .10 .70 .10 .70 .10 .70 .10 .70 .70 .10 .70 .70 .10 .70 .70 .70 .70 .70 .70 .70 .70 .70 .7	CH-IC125 CH-IU125 12.1. 41200 3.10/3.4 6.10/4. A+++/A ~38 3.90 3.97 6.20 6.30 2.25 1000/883/7 1700/1500/130 48/46/43 840x840x 933x903x 23.0/29 06 950x950 1033x1020 6.0/9.	RK2 RM2) 40 10 + 0-415V 65/647 00/1100 /39 (240 272 2.0 272 2.0 x52 xx110 5	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.00 7.10 2.80 1177/1059/942/8: 2000/1800/1600/144 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 6.0/9.5	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50 24 1354/1235/1118/941 0 200/2100/1900/1600 52/50/48/44 840x840x290 933x903x335 26.0/33.0 950x950x52 1033x1020x110 6.0/9.5
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input Current input Current input Refrigerant cha Air flow volume Sound pressure Dimension (WxDxH) Net weight/Gro Panel Sound pressure	Indoor unit Outdoor unit Cooling Heating Cy grade Cooling Heating Cooling Heating arge volume e (SH/H/M/L) Outline Package Datkage Ss weight Model Outline dimension Package dimensio Net/Gross weight	kW Btu/h kW Btu/h W kW kW A A A kg CFM m ³ /h dB(A) mm mm kg mm kg	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25 1000/883/765/647 1700/1500/1300/1100 48/46/43/39 840x840x240 933x903x272 23.0/29.0 950x950x52 1033x1020x110 6.0/9.5	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/1Ph 4.60 21.50 2.80 Indoor u 1177/1059/942/82/4 2000/800/600/400 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 6.0/9.5 Outdoor u 59	CH-IC CH-IU 1 35 39 3.4C 6.60 A+ 3 2 4 4 4 2 1500/400 43/41 883/824 4 4 2 1500/400 43/41 883/824 23.0 950x 23.0 950x 1033x1 6.0 950x	100RK2 100RM2 0.5 800 1.5 200 //4.40 +/A+ .10 .95 .90 .70 .10 //10/589 //1200/1000 //39/38 40×240 03×272 //29.0 TF 950×52 020×110 //9.5	CH-IC125 CH-IU125 12.1. 41200 3.10/3.4 6.10/4. A+++/A ~38 3.90 6.20 6.30 2.25 1000/883/7 1700/1500/13 48/46/43 840x840x 933x903x 23.0/29 06 950x950 1033x102C 6.0/9. 58	RK2 RM2) 40 10 + 0-415V/ 65/647 00/1100 /39 (240 272 20 xx52 xx110 5	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.00 7.10 2.80 1177/1059/942/8: 2000/1800/1600/144 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 6.0/9.5	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50 24 1354/1235/1118/941 0 2300/2100/1900/1600 52/50/48/44 840x840x290 933x903x335 26.0/33.0 950x950x52 1033x1020x110 6.0/9.5 60
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input Current input Current input Refrigerant cha Air flow volume Sound pressure Dimension (WxDxH) Net weight/Gro Panel Sound pressure Dimension	Indoor unit Outdoor unit Cooling Heating Cy grade Cooling Heating Cooling Heating arge volume e (SH/H/M/L) Outline Package oss weight Model Outline dimension Package dimensio Net/Gross weight	kW Btu/h kW Btu/h W/Hz/Ph kW A A A kg CFM m ³ /h dB(A) mm kg mm kg dB(A) mm	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A+++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25 1000/883/765/647 1700/1500/1300/100 48/46/43/39 840x840x240 933x903x272 23.0/29.0 950x950x52 1033x1020x110 6.0/9.5 58 940x370x820	CH-IC140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/1Ph 4.60 4.70 21.00 21.50 2.80 Indoor u 1177/1059/942/824 2000/1800/1600/1400 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 6.0/9.5 Outdoor u 59 940x370x820	CH-IC CH-IU 1 35 39 3.40 6.60 A+ 3 2 4 4 4 4 2 2 nit 883/824 1500/400 43/41 840x8 933x9 23.0 950x4 1033x1 6.0 940x3	100RK2 100RM2 0.5 800 1.5 200 //4.40 +/A+ .10 .95 .90 .70 .10 //10/589 //1200/1000 /39/38 40x240 03x272 //29.0 TF 950x52 020x110)/9.5 57 .70x820	CH-IC125 CH-IU125 12.1 41200 3.5 46000 3.10/3.4 6.10/4. A++A ~38 3.90 6.20 6.30 2.25 1000/883/7 1700/1500/13 48/46/43 840x840x 933x903x 23.0/29 06 950x950 1033x1020 6.0/9. 58 940x370x	RK2 RM2) 40 10 + 0-415V/ 65/647)0/1100 /39 (240 272 20 272 20 x52 x110 5	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.10 2.80 1177/1059/942/8 2000/1800/1600/141 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 6.0/9.5 59 940x370x820	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50 24 1354/1235/1118/941 0 2300/2100/1900/1600 52/50/48/44 840x840x290 933x903x335 26.0/33.0 950x950x52 1033x1020x110 6.0/9.5 60 990x370x960
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input Current input Current input Refrigerant cha Air flow volume Sound pressure Dimension (WxDxH) Net weight/Gro Panel Sound pressure Dimension (WxDXH)	Indoor unit Outdoor unit Cooling Heating Cy grade Cooling Heating Cooling Heating Cooling Heating arge volume e (SH/H/M/L) Outline Package Outline dimension Package dimensio Net/Gross weight Outline Package	kW Btu/h kW Btu/h W/Hz/Ph kW kW A A A kg CFM m ³ /h dB(A) mm mm kg dB(A) mm	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25 1000/883/765/647 1700/1500/1300/100 48/46/43/39 840x840x240 933x903x272 23.0/29.0 950x950x52 1033x1020x110 6.0/9.5 58 940x370x820 1093x497x885 // / / 7 2	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/1Ph 4.60 4.70 21.00 21.50 2.80 Indoor u 1177/1059/942/824 2000/1800/1600/1400 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 6.0/9.5 Outdoor u 59 940x370x820 1093x497x885 77.0 0.0	CH-IC CH-IU 1 35 1 39 3.4C 6.60 A+ 3 2 4 4 4 4 2 0 3 2 4 4 4 4 4 2 0 3 3 2 2 4 4 2 0 3 883/824 1500/1400 43/41 840x8 933x9 23.00 43/41 10 883/824 10 90 40 23.00 40 90 40 40 40 40 40 40 40 40 40 40 40 40 40	100RK2 100RK2 100RM2 0.5 800 1.5 200 //4.40 +/A+ .10 .95 .90 .70 .10 ./710/589 ./1200/1000 /39/38 40x240 03x272 ./29.0 TF 950x52 020x110 ./9.5 57 .70x820 497x885 .497x885	CH-IC125 CH-IC125 12.1 41200 13.5 46000 3.10/3.4 6.10/4. A++A ~38 3.90 6.20 6.30 2.25 1000/883/7 1700/1500/130 48/46/43 840x840x 933x903x 23.0/25 06 950x950 1033x1020 6.0/9. 58 940x370x 1093x497; 7 (2.62)	RK2 RM2) 40 10 + + 0-415V/ 65/647 00/1100 /39 (240 272 2.0 x52 x110 5 820 (885 0	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.00 7.10 2.80 1177/1059/942/82 2000/1800/1600/140 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 6.0/9.5 59 940x370x820 1093x497x885 00 / 20 20	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50 24 1354/1235/1118/941 0 2300/2100/1900/1600 52/50/48/44 840x840x290 933x903x335 26.0/33.0 950x950x52 1033x1020x110 6.0/9.5 60 990x370x960 1153x478x1110 0/153
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input Current input Current input Refrigerant cha Air flow volume Sound pressure Dimension (WxDxH) Net weight/Gro Dimension (WxDxH) Net weight/Gro	Indoor unit Outdoor unit Cooling Heating Cy grade Cooling Heating Cooling Heating Cooling Heating arge volume e (SH/H/M/L) Outline Package Dutline dimension Package dimension Net/Gross weight Outline Package Doss weight	kW Btu/h kW Btu/h W/Hz/Ph kW kW A A A kg CFM m ³ /h dB(A) mm mm kg dB(A) mm mm kg dB(A)	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25 1000/883/765/647 1700/1500/1300/1100 48/46/43/39 840x840x240 933x903x272 23.0/29.0 950x950x52 1033x1020x110 6.0/9.5 58 940x370x820 1093x497x885 66.0/73.0 3.8 (9.5)	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50HZ/IPh 4.60 4.70 21.00 21.50 2.80 Indoor u 1177/1059/942/824 2000/1800/1600/1400 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 6.0/9.5 Outdoor u 59 940x370x820 1093x497x885 73.0/80.0 3/8 (0.52)	CH-IC CH-IC CH-IU 35 39 3.4C 6.60 A++ 33 2 44 4 4 4 4 4 4 4 4 4 4 4 4 2 1500/140C 43/41 840x8 933x9 23.0 950x ¹ 1033x1 940x2 1033x1 950x ² 1033x1 950x ² 1033x1 950x ² 1033x1 950x ² 1033x1 950x ² 1033x1 950x ² 1033x1 950x ² 1033x1 950x ² 1033x1 1035x1 1	100RK2 100RK2 100RM2 0.5 800 1.5 200 //4.40 +/A+ 10 95 90 .70 10 ./710/589 ./100/1000 /39/38 40x240 03x272 ./29.0 TF 950x52 020x110 ./9.5 57 .70x820 497x885 ./82.0 (0.52)	CH-IC125 CH-IC125 12.1 41200 3.5 4600(3.10/3.4 6.10/4. A++/A ~38 3.90 3.97 6.20 6.20 6.30 2.25 1000/883/7 1700/1500/130 48/46/43 840x840x 933x903x 23.0/25 06 950x950 1033x1020 6.0/9. 58 940x370x 1093x497; 76.0/83 3,2/9 (05)	RK2 RM2) 40 10 + - 0-415V, 65/647 00/1100 /39 :240 272 :0 .0 x52 x110 5 .2 x110 5 .2 x2 x110 5 .2 x2 x2 x2 x2 x2 x2 x2 x2 x2 x2 x2 x2 x2	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.00 7.10 2.80 1177/1059/942/82 2000/1800/1600/144 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 6.0/9.5 59 940x370x820 1093x497x885 81.0/88.0 3 (8 (0.52)	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50 24 1354/1235/1118/941 0 2300/2100/1900/1600 52/50/48/44 840x840x290 933x903x335 26.0/33.0 950x950x52 1033x1020x110 6.0/9.5 60 990x370x960 1153x478x1110 94.0/103.0 x/g (p E)
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input Current input Current input Refrigerant cha Air flow volume Sound pressure Dimension (WxDxH) Net weight/Gro Dimension (WxDxH) Net weight/Gro Connecting	Indoor unit Outdoor unit Cooling Heating Cy grade Cooling Heating Heating Cooling Heat	kW Btu/h kW Btu/h W/Hz/Ph kW kW A A A CFM m ³ /h dB(A) mm mm kg dB(A) mm mm kg dB(A)	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25 1000/883/765/647 1700/1500/1300/1100 48/46/43/39 840x840x240 933x903x272 23.0/29.0 950x950x52 1033x1020x110 6.0/9.5 58 940x370x820 1093x497x885 66.0/73.0 3/8 (9.52) 5/8 (15.9)	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/IPh 4.60 4.70 21.00 21.50 2.80 Indoor u 1177/1059/942/824 2000/1800/1600/1400 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 6.0/9.5 Outdoor u 59 940x370x820 1093x497x885 73.0/80.0 3/8 (9.52) 5/8 (15.9)	CH-IC CH-IC CH-IU 35 1 39 3.4C 6.60 A++ 3 2 4 4 4 4 4 4 4 4 4 4 4 4 2 1500/140C 43/41 840x8 933x9 23.0 950x ⁴ 1033x1 0,03x1 0,03x1 10,05x ² 7,50 3,78 5,78 2 3,82 4 3,82 4 10,0000 10,00000 10,0000 10,00000 10,00000000	100RK2 100RK2 100RM2 0.5 800 1.5 200 //4.40 +/A+ 10 95 90 .70 .10 .70 .10 .7710/589 .70 .70 .10 .70 .10 .7710/589 .70 .70 .70 .70 .70 .70 .70 .70	CH-IC125 CH-IC125 12.1 41200 13.5 4600(3.10/3.4 6.10/4.' A++/A ~38 3.90 3.97 6.20 6.20 6.20 6.30 2.25 1000/883/7 1700/1500/130 48/46/43 840x840x 933x905x 23.0/25 06 950x950 1033x1020 6.0/9. 58 940x370x 1093x4977 76.0/83 3/8 (9.5 5/8 (15	RK2 RM2) 40 10 + 0-415V, 65/647 00/1100 /39 (240 272 (0 272 (0 x52 x110 5 (x110 5 (x110 5 (x110 5 (x110 272 (0) (x52 (x110) (x52) (x5	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.00 7.10 2.80 1177/1059/942/8/ 2000/1800/1600/144 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 6.0/9.5 59 940x370x820 1093x497x885 81.0/88.0 3/8 (9.52) 5/8 (15.9)	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50 24 1354/1235/1118/941 0 2300/2100/1900/1600 52/50/48/44 840x840x220 933x903x335 26.0/33.0 950x950x52 1033x1020x110 6.0/9.5 60 990x370x960 1153x478x1110 94.0/103.0 3/8 (9.52) 5/8 (15.9)
Model Capacity EER/COP SEER/SCOP Energy efficien Power supply Power input Current input Current input Refrigerant cha Air flow volume Sound pressure Dimension (WxDxH) Net weight/Gro Connecting pipe	Indoor unit Outdoor unit Cooling Heating Cy grade Cooling Heating Heating Cooling Heating Cooling Heating Heating Heating Cooling Heating Heating Cooling Heating Heating Cooling Heat	kW Btu/h kW Btu/h W/Hz/Ph kW kW A A A A CFM m ³ /h dB(A) mm mm kg dB(A) mm mm kg dB(A) mm mm	CH-IC125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.10/3.40 6.10/4.10 A++/A+ ~220-240V 3.90 3.97 18.60 19.00 2.25 1000/883/765/647 1700/1500/1300/1100 48/46/43/39 840x840x240 933x903x272 23.0/29.0 950x950x52 1033x1020x110 6.0/9.5 58 940x370x820 1093x497x885 66.0/73.0 3/8 (9.52) 5/8 (15.9) 30/75	CH-IC140RK2 CH-IU140RK2 13.4 45700 15.5 52900 2.91 / 3.30 6.30/4.00 A++/A+ /50Hz/IPh 4.60 4.70 21.00 21.50 2.80 Indoor u 1177/1059/942/824 2000/1800/1600/1400 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 6.0/9.5 0utdoor u 59 940x370x820 1093x497x885 73.0/80.0 3/8 (9.52) 5/8 (15.9) 30/75	CH-IC CH-IC CH-IU 355 1 399 3.4C 6.60 A++ 3 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	100RK2 100RK2 100RM2 0.5 800 1.5 200 //4.40 +/A+ 10 95 90 .70 .10 .70 .10 .70 .10 .70 .10 .70 .10 .70 .10 .70 .70 .10 .70 .70 .10 .70 .70 .10 .70 .70 .70 .70 .70 .70 .70 .70 .70 .7	CH-IC125 CH-IU125 12.1. 41200 3.10/3.4 6.10/4. A+++/A ~-38 3.90 3.97 6.20 6.30 2.25 1000/883/7 1700/1500/13 48/46/43 84/0×840x 933×903x 23.0/25 06 950×950 1033×1020 6.0/9. 58 940×370x 1093×497x 76.0/83 3/8 (9.5 5/8 (15, 30/75	RK2 RM2) 40 10 + 0-415V, 65/647 00/1100 /39 (240 272 20 (0 x52 (x110 5 (x110 5 (x885) .0 2) 9)	CH-IC140RK2 CH-IU140RM2 13.4 45700 15.5 52900 2.91 /3.30 6.30/4.00 A++/A+ /50Hz/3Ph 4.60 4.70 7.00 7.10 2.80 1177/1059/942/8: 2000/1800/1600/144 50/48/45/41 840x840x290 933x903x335 25.0/32.0 950x950x52 1033x1020x110 6.0/9.5 59 940x370x820 1093x497x885 81.0/88.0 3/8 (9.52) 5/8 (15.9) 30/75	CH-IC160RK2 CH-IU160RM2 14.5 49400 17.0 58000 2.74/2.98 6.10/4.00 A++/A+ 5.30 5.70 9.00 8.20 3.50 24 1354/1235/1118/941 10 2300/2100/1900/1600 52/50/48/44 840x840x290 933x903x335 26.0/33.0 950x950x52 1033x1020x110 6.0/9.5 60 990x370x960 1153x478x1110 94.0/103.0 3/8 (9.52) 5/8 (15.9) 30/75





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Duct type indoor unit

The duct-type indoor unit uses a DC motor, multi-stage airflow control, and flexible and convenient installation. All this meets the requirements for various construction objects, such as hotels, office buildings, shopping centers, apartments, cottages, etc.

REFINED BODY OF THE DEVICE

The duct unit is only 200mm thick and 450mm deep, which is suitable for spaces with different heights.



High static pressure duct units ranging from 7 .1 kW to 8.5kW are only 900mm in length. They are suitable to be installed in corridors whose width is \leq 1.2m.



■ STANDARD EQUIPMENT DRAINAGE PUMP

The pressure of the pump for condensate removal can be up to 1000 mm, and the height of the vertical installation of the unit can be flexibly adjusted depending on the installation requirements.





FRESH AIR SUPPLY FUNCTION

An air duct can be connected to the unit to supply fresh air to the room.

■ FLEXIBLE INSTALLATION

According to the location of the unit, you can choose one of two options for air intake, from below or from the side.



ADJUSTING THE PRESSURE OF THE FAN

The highest static pressure can be up to 30 Pa. From the control panel, you can change the static pressure of the fan according to the characteristics of the air duct network. 5 levels of external static pressure adjustment are available.



Cool

OVERALL DIMENSIONS OF THE INDOOR UNIT

CH-IDS035PRK2,CH-IDS050PRK2, CH-IDH140PRK2, CH-IDH160PRK2.





CH-IDS071PRK2,CH-IDS085PRK2, CH-IDH100PRK2,CH-IDH125PRK2.





Units: mm

	-		-	-	-	-
Dimensions/Model	A	В	C	D	E	F
CH-IDS035PRK2	760	415	700	200	450	486
CH-IDS050PRK2	1060	415	1000	200	450	486
CH-IDS071PRK2	942	590	900	260	655	692
CH-IDH085PRK2	942	590	900	260	655	692
CH-IDH100PRK2	1381	585	1340	260	655	697
CH-IDH125PRK2	1381	585	1340	260	655	697
CH-IDH140PRK2	1440	500	1400	300	700	754
CH-IDH160PRK2	1440	500	1400	300	700	754

OVERALL DIMENSIONS OF THE OUTDOOR UNIT







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Units: mm											
Dimensions/Model	A	В	C	D	Ε	F	G				
CH-IU035RK2	732	330	553	455	310	675	285				
CH-IU050RK2	802	350	555	512	331	745	300				
CH-IU071RK2	958	402	660	570	371	889	340				
CH-IU085RK2	958	402	660	570	371	889	340				
CH-IU100RM2	1020	427	820	635	396	940	370				
CH-IU125RM2	1020	427	820	635	396	940	370				
CH-IU140RM2	1020	427	820	635	396	940	370				
CH-IU160RM2	1070	427	960	755	396	990	370				
TECHNICAL SPECIFICATIONS

Model	Indoor unit		CH-IDS035PRK2	CH-IDS050PRK2	CH-IDS071PRK2	CH-IDH085PRK2	CH-IDH100PRK2	CH-IDH125PRK2
	Outdoor unit	Law	CH-IU035RK2	CH-IU050RK2	CH-IU0/1RK2	CH-IU085RK2	CH-IU100RK2	CH-IU125RK2
	Cooling	KW	5.5	5.5	/.1	8.5	10.5	12.1
Capacity	J	Btu/n	11900	18000	24200	29000	35800	41200
. ,	Heating	KW	4.0	5.0	8.0	8.80	11.5	15.5
FFD (00D	.	Btu/n	15600	19100	2/200	30000	59200	46000
EER/CUP			5.40/4.00	5.50/ 5.95	5./0/4.00	5.40/ 5.90	5.50/4.10	5.38/ 5.65
SEER/SCOP			6.50/4.00	6.30/4.00	6.60/4.10	6.40/4.10	6.40/4.20	6.10/4.10
Energy efficie	ncy grade		A++/A+	A++/A+	<u>A++/A+</u>		<u>A++/A+</u>	<u>A++/A+</u>
Power supply		V/Hz/Ph	1.07	4.54	~220-2401	//SUHZ/IPh		7.50
Power input	Cooling	kW	1.03	1.51	1.92	2.50	3.00	5.58
	Heating	kW	1.00	1.42	2.00	2.25	2.80	5.70
Current input	Cooling	A	4.90	/.20	9.20	11.40	14.55	17.2
	Heating	A	4.80	6.80	9.60	10.30	13.4	17.7
Retrigerant ch	narge volume	kg	0.57	0.85	1.50	1.50	2.10	2.25
				Indoor u	init			
∆ir flow volun	ne (SH/H/M/L)	CFM	353/324/294/235	530/4/1/412/353	64//588/529/4/0	824/765/647/588	1000/941/824//10	11///1059/941/824
		m³/h	600/550/500/400	900/800/700/600	1100/1000/900/800	1400/1300/1100/1000	1700/1600/1400/1200	2000/1800/1600/1400
FSP	Rated	Pa	25	25	25	37	37	50
	Range	Pa	0-80	0-80	0-160	0-160	0-160	0-160
Sound pressu	re	dB(A)	35/33/32/30	36/35/33/31	37/35/33/31	43/41/39/37	39/38/37/36	43/42/41/40
Dimension	Outline	mm	700×450×200	1000×450×200	900×655×260	900×655×260	1340×655×260	1340×655×260
(WxDxH)	Package	mm	1008×568×275	1308×568×275	1115×772×320	1115×772×320	1568×770×323	1568×770×323
Net weight/G	ross weight	kg	18.0/22.0	24.0/29.0	29.5/33.5	29.5/33.5	43.0/49.0	43.0/49.0
				Outdoor	unit			
Sound pressu	re	dB(A)	48	52	55	57	57	58
Dimension	Outline	mm	675×285×553	745×300×555	889×340×660	889×340×660	940×370×820	940×370×820
(WxDxH)	Package	mm	794×376×605	872×398×609	1032×456×730	1032×456×730	1093×497×885	1093×497×885
Net weight/G	ross weight	kg	24.5/27.0	30.5/33.0	41.5/45.0	46.0/50.0	65.0/72.0	66.0/73.0
	Liquid pipe	inch	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Connecting	Gas pipe	(mm)	3/8 (9.52)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)
ріре	Max. distance	m	15/30	20/30	20/30	25/30	30/75	30/75
	: (-			:	:	:	
Model	Indoor unit		CH-IDH140PRK2	CH-IDH100P	RK2 CH-IDH1	I25PRK2 CH-	IDH140PRK2	CH-IDH160RK2
		Law	CH-IUI40RK2	CH-10100R		Z5RMZ CF	17 /	
	Cooling	KW Dtu/k	15.4	10.5	/10	<u>/.l</u>	13.4	10.U
Capacity	-	BLU/ N	45/UU 1F F0	35800	412		43/00	54500
	Heating	KW Dtu/b	15.50	11.5	1.11	0.0	13.30	I/.U E0000
		DLU/ 11	527UU 0.00/z 1,1.	27200 Z EU //. 10	40l z zo	/UU /z 4c	527UU 0 00 /z 1.1.	20000 2 06 /z 60
			2.70/ 3.44	5.5U/4.IU	J. J	(3.03	2.70/ 3.44	2.90/ 3.02

capacity	Heating	kW	15.50	11.5	13.5	15.50	17.0
	пеасту	Btu/h	52900	39200	46000	52900	58000
EER/COP			2.98/3.44	3.50/4.10	3.38/3.65	2.98/3.44	2.96/3.62
SEER/SCOP			6.10/4.00	6.40/4.20	6.10/4.10	6.10/4.00	6.10/4.00
Energy efficier	ncy grade		A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
Power supply	•	V/Hz/Ph	~220-240V/50Hz/1Ph				
Power input	Cooling	kW	4.50	3.00	3.58	4.50	5.40
Fower inpot	Heating	kW	4.50	2.80	3.70	4.50	4.70
Current input	Cooling	Α	20.60	4.8	5.7	6.80	9.20
corrent inpot	Heating	Α	20.60	4.45	5.9	6.80	8.00
Refrigerant ch	arge volume	kg	2.80	2.10	2.25	2.80	3.50
				Indoor unit			
Air flow volume (SH/H/M/L)		CFM	1354/1236/1059/883	1000/941/824/710	1177/1059/941/824	1354/1236/1059/883	1529/1354/1176/1000
		m³/h	2300/2100/1800/1500	1700/1600/1400/1200	2000/1800/1600/1400	2300/2100/1800/1500	2600/2300/2000/1700
FSD	Rated	Pa	50	37	50	50	50
LJI	Range	Pa	0-200	0-160	0-160	0-200	0-200
Sound pressur	e	dB(A)	43/42/40/38	39/38/37/36	43/42/41/40	43/42/40/38	46/44/42/40
Dimension	Outline	mm	1400×700×300	1340×655×260	1340×655×260	1400×700×300	1400×700×300
(WxDxH)	Package	mm	1601×813×365	1568×770×323	1568×770×323	1601×813×365	1601×813×365
Net weight/Gr	ross weight	kg	52.0/58.0	43.0/49.0	43.0/49.0	52.0/58.0	55.0/62.0
				Outdoor unit			
Sound pressur	e	dB(A)	59	57	58	59	60
Dimension	Outline	mm	940×370×820	940×370×820	940×370×820	940×370×820	990×370×960
(WxDxH)	Package	mm	1093×497×885	1093×497×885	1093×497×885	1093×497×885	1153×478×1110
Net weight/Gr	ross weight	kg	73.0/80.0	75.0/82.0	76.0/83.0	81.0/88.0	94.0/103.0
	Liquid pipe	inch (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Connecting	Gas pipe		5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)
ріре	Max. distance (Height/Length)	m	30/75	30/75	30/75	30/75	30/75

Performance and consumption data are determined at the following air parameters Cooling: indoor temperature DB/WB: 27/19°C, outdoor temperature DB/WB: 35/24°C Heating: indoor temperature DB/WB: 20/15°C, outdoor temperature DB/WB: 7/6°C



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R32 (Wi-Fi Floor-ceiling type indoor unit of the fi and on the $\frac{1}{2}\left(\frac{1}{2},\frac{1}{2}\right) = \frac{1}{2}\left(\frac{1}{2}\right)$

CH

The indoor unit of the floor-ceiling type has two installation methods: on the floor and on the ceiling. It can be widely used in hotels, office buildings, shopping centers, apartments, cottages, etc.

CH



■ AIR SUPPLY OVER LONG DISTANCES

■ AIR VOLUME TWO-STAGE PRESSURIZATION TECHNOLOGY

- Unique backflow prevention fan blade can avoid secondary backflow of air supply and improve the efficiency of air supply.
- The application of cavity variation technology changes the fluid cross-sectional area, creating a secondary pressure boost that increases the air supply distance by 2.5%.





The design of the wheel to prevent the reverse flow of air

■ LARGE-ANGLE SWING DESIGN

The swing louvers adopt independent distribution design, which allows the left and right air outlet angles to be adjusted freely according to different applications.



SILENT DESIGN

The new design of the fan blade to reduce the noise level, combined with the DC motor and improved sound insulation, allows you to achieve optimal air flow, its uniform supply and lower noise level, creating a quiet and comfortable environment.

Coo

OVERALL DIMENSIONS OF THE INDOOR UNIT





Units: mm

Dimensions/Model	A	В	C	D	E
CH-IF035RK2	870	235	812	280	665
CH-IF050RK2	870	235	812	280	665
CH-IF071RK2	870	235	812	280	665
CH-IF085RK2	1200	235	1142	280	665
CH-IF100RK2	1200	235	1142	280	665
CH-IF125RK2	1570	235	1512	280	665
CH-IF140RK2	1570	235	1512	280	665
CH-IF160RK2	1570	235	1512	280	665

OVERALL DIMENSIONS OF THE OUTDOOR UNIT







Units: mm												
Dimensions/Model	A	В	C	D	Ε	F	G					
CH-IU035RK2	732	330	553	455	310	675	285					
CH-IU050RK2	802	350	555	512	331	745	300					
CH-IU071RK2	958	402	660	570	371	889	340					
CH-IU085RK2	958	402	660	570	371	889	340					
CH-IU100RM2	1020	427	820	635	396	940	370					
CH-IU125RM2	1020	427	820	635	396	940	370					
CH-IU140RM2	1020	427	820	635	396	940	370					
CH-IU160RM2	1070	427	960	755	396	990	370					

TECHNICAL SPECIFICATIONS

Model	Indoor unit Outdoor unit		CH-IF035RK2 CH-IU035RK2	CH-IF050R CH-IU050R	RK2 RK2	CH-IF(CH-IU()71RK2)71RK2	CH CH	-IF085RK2 -IU085RK2	CH-IF100RK2 CH-IU100RK2
	Cooling	kW	3.5	5.3		7	'.1		8.5	10
Canacity	cooning	Btu/h	11900	18000		24	200		29000	34100
oupuony	Heating	kW	4.0	5.6		7	.7		8.80	11.5
	J	Btu/h	13600	19100	0	262	/7.0F	7	30000	39200
SEED /SCOD			5.80/4.50	5.40/ 5.90	0	5.5U 7 0	/ 5.95 //, z		0.40/ 3.90 5 80 //, 50	5.4/ 5.9 6 3 //, 0
Fnerav efficie	ncv arade		Δ++/Δ+	Δ++/Δ+		7.2, Δ++	- /Δ+	U	Δ++/Δ+	Δ++/Δ+
Power supply	y grade	V/Hz/Ph		<u> </u>		~220-240\	//50Hz/1Ph		//··///	<u>N° 1</u> N
Damas innut	Cooling	kŴ	0.92	1.56		2.	03		2.50	2.94
Power Input	Heating	kW	0.93	1.44		1.	95		2.25	2.95
Current input	Cooling	Α	4.40	7.50		9.	70		11.40	14.00
	Heating	A	4.45	6.85		9.	10		10.30	14.10
Refrigerant c	harge volume	kg	0.57	0.85	vr unit	.	50		1.50	2.10
		CEM	383/353/20/1/235	530///71///12	757 JI UIIIL	735/6/17	/588/520	82/1/	765/706/588	0/1/883/82/1/710
Air flow volur	ne (SH/H/M/L)	m ³ /h	650/600/500/400) <u>900/800/70</u> 0	<u>/ 333</u>]/600	1250/1100	/1000/900	1400/17	300/1200/1000	1600/1500/1400/1200
Sound pressu	re	dB(A)	35/34/31/28	41/40/38/	/36	41/39	/37/35	46	/45/43/39	48/46/45/43
Dimension	Outline	mm	870×665×235	870×665×2	235	1200×6	65×235	120)0×665×235	1200×665×235
(WxDxH)	Package	mm	973×770×300	973×770×3	500	1303×7	70×300	130	3×770×300	1303×770×300
Net weight/G	iross weight	kg	24.0/28.0	25.0/29.0	0	31.0,	/36.0	2	32.0/37.0	32.0/37.0
C			(0	Outdo	or unit	F			F 7	F7
Sound pressu	re Outling	dB(A)	48	5Z 7/.E~Z00~E		000.JZ	0~440	00(5/ 0~7/.0~440	5/ 0/.0~270~020
(WxDxH)	Package	mm	79/i×376×605		500 500	007^J4 1032×/i	40^000 56×730	00 103	7×340×000	1093×/197×885
Net weight/G	iross weight	ka	24.5/27.0	30.5/33.0	30.5/33.0 41.5/45		45.0 40		6.0/50.0	65.0/72.0
	Liquid pipe	inch	1/4 (6.35)	1/4 (6.35		3/8	(9.52)	3	5/8 (9.52)	3/8 (9.52)
Connecting	Gas pipe	(mm)	3/8 (9.52)	1/2 (12.7	')	5/8	(15.9)	Ę	5/8 (15.9)	5/8 (15.9)
ріре	Max. distance (Height/Length)	m	15/30	20/30		20,	/30		25/30	30/75
Model	Indoor unit		CH-IF125RK2	CH-IF140RK2	CH-I	F100RK2	CH-IF125F	RK2	CH-IF140RK2	CH-IF160RK2
Model	Indoor unit Outdoor unit	kW	CH-IF125RK2 CH-IU125RK2 12 1	CH-IF140RK2 CH-IU140RK2 13 /	CH-I CH-IU	F100RK2 J100RM2 10.0	CH-IF125F CH-IU125F 12 1	rk2 RM2	CH-IF140RK2 CH-IU140RM2	CH-IF160RK2 CH-IU160RM2 16.0
Model	Indoor unit Outdoor unit Cooling	kW Btu/h	CH-IF125RK2 CH-IU125RK2 12.1 41200	CH-IF140RK2 CH-IU140RK2 13.4 45700	CH-I CH-IU	F100RK2 J100RM2 10.0 4100	CH-IF125F CH-IU125F 12.1 41200	rk2 rm2	CH-IF140RK2 CH-IU140RM2 13.4 45700	CH-IF160RK2 CH-IU160RM2 16.0 54500
Model Capacity	Indoor unit Outdoor unit Cooling	kW Btu/h kW	CH-IF125RK2 CH-IU125RK2 12.1 41200 13.5	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5	CH-II CH-II	F100RK2 J100RM2 10.0 4100 11.5	CH-IF125F CH-IU125F 12.1 41200 13.5	RK2 RM2	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0
Model Capacity	Indoor unit Outdoor unit Cooling Heating	kW Btu/h kW Btu/h	CH-IF125RK2 CH-IU125RK2 12.1 41200 13.5 46000	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900	CH-II CH-II	F100RK2 J100RM2 10.0 4100 11.5 9200	CH-IF125F CH-IU125F 12.1 41200 13.5 46000	RK2 RM2	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000
Model Capacity EER/COP	Indoor unit Outdoor unit Cooling Heating	kW Btu/h kW Btu/h	CH-IF125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.3/3.6	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69	CH-II CH-II 3 3 3.4	F100RK2 J100RM2 10.0 54100 11.5 9200 0/3.90	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6	RK2 RM2	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54
Model Capacity EER/COP SEER/SCOP	Indoor unit Outdoor unit Cooling Heating	kW Btu/h kW Btu/h	CH-IF125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0	CH-II CH-II 3 3 3.4 6	F100RK2 J100RM2 10.0 4100 11.5 9200 .0/3.90 .3/4.2	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0	RK2 RM2	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/400
Model Capacity EER/COP SEER/SCOP Energy efficie	Indoor unit Outdoor unit Cooling Heating ency grade	kW Btu/h kW Btu/h	CH-IF125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+	CH-II CH-II 3 3 3.4 6 A-	F100RK2 J100RM2 10.0 4100 11.5 9200 0/3.90 3/4.2 ++/A+	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A	RK2 RM2) 50) +	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A++/A+
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply	Indoor unit Outdoor unit Cooling Heating ency grade	kW Btu/h kW Btu/h V/Hz/Ph	CH-IF125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ /50Hz/1Ph 4.30	CH-II CH-II 3 3 3.4 6 A-	F100RK2 J100RM2 10.0 54100 11.5 9200 .0/3.90 .3/4.2 ++/A+	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~38 3.67	RK2 RM2 50) + 80-415V/	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ /50Hz/3Ph	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A+++/A+
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input	Indoor unit Outdoor unit Cooling Heating mcy grade Cooling Heating	kW Btu/h kW Btu/h V/Hz/Ph kW kW	CH-IF125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ //50Hz/1Ph 4.30 4.20	CH-II CH-II 3 3 3.4 6 A	F100RK2 J100RM2 10.0 44100 11.5 9200 .0/3.90 .3/4.2 ++/A+ 2.94 2.95	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~3E 3.67 3.75	RK2 RM2) 50) + 80-415V/	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ /50Hz/3Ph 4.30 4.20	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A++/A+ 5.30 4.80
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input	Indoor unit Outdoor unit Cooling Heating mcy grade Cooling Heating Cooling	kW Btu/h kW Btu/h V/Hz/Ph kW kW	CH-IF125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75 17.50	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ //50Hz/1Ph 4.30 4.20 19.70	CH-II CH-II 3 3 3.4 6 A-	F100RK2 J100RM2 10.0 44100 11.5 9200 0/3.90 3/4.2 ++/A+ 2.94 2.95 4.65	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~38 3.67 3.75 5.85	RK2 RM2) 500) + 80-415V/	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ /50Hz/3Ph 4.30 4.20 6.50	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A++/A+ 5.30 4.80 9.00
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input Current input	Indoor unit Outdoor unit Cooling Heating Ency grade Cooling Heating Cooling Heating Heating	kW Btu/h Btu/h V/Hz/Ph kW kW A A	CH-IF125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75 17.50 17.90	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ /S0HZ/1Ph 4.30 4.20 19.70 19.20	CH-II CH-II 3 3 4 6 A	F100RK2 J100RM2 10.0 44100 11.5 9200 .0/3.90 .3/4.2 ++/A+ 2.94 2.95 4.65 4.70	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- 38 3.67 3.75 5.85 6.00	RK2 RM2) 50) + 80-415V/	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ '50Hz/3Ph 4.30 4.20 6.50 6.40	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A++/A+ 5.30 4.80 9.00 9.70
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input Current input Refrigerant cl	Indoor unit Outdoor unit Cooling Heating Cooling Heating Cooling Heating Cooling Heating harge volume	kW Btu/h Btu/h V/Hz/Ph kW kW A A A kg	CH-IF125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75 17.50 17.90 2.25	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ /50Hz/1Ph 4.30 4.20 19.70 19.20 2.80	CH-II CH-II 3 3 3.4 6 A-	F100RK2 J100RM2 10.0 44100 11.5 9200 .0/3.90 .3/4.2 +++/A+ 2.94 2.95 4.65 4.70 2.10	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~38 3.67 3.75 5.85 6.00 2.25	RK2 RM2 50 5 7 + 80-415V/	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ /50Hz/3Ph 4.30 4.20 6.50 6.40 2.80	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A+++/A+ 5.30 4.80 9.00 9.70 3.50
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input Current input Refrigerant cl	Indoor unit Outdoor unit Cooling Heating mcy grade Cooling Heating Cooling Heating harge volume	kW Btu/h Btu/h V/Hz/Ph kW kW A A kg	CH-IF125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75 17.50 17.50 17.90 2.25	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ //50Hz/1Ph 4.30 4.20 19.70 19.20 2.80 Indoo	CH-II CH-IU 3 3 3.4 6 A-	F100RK2 J100RM2 10.0 44100 11.5 9200 0/3.90 3/4.2 ++/A+ 2.94 2.95 4.65 4.70 2.10	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~38 3.67 3.75 5.85 6.00 2.25	RK2 RM2) 50) + 80-415V/	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ /50Hz/3Ph 4.30 4.20 6.50 6.40 2.80	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A++/A+ 5.30 4.80 9.00 9.70 3.50
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input Current input Refrigerant cl Air flow volur	Indoor unit Outdoor unit Cooling Heating mcy grade Cooling Heating Cooling Heating harge volume	kW Btu/h kW Btu/h V/Hz/Ph kW kW A A A kg	CH-IF125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75 17.50 17.90 2.25 1118/1059/941/824 1900/1800/1600/1600	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ //50Hz/1Ph 4.30 4.20 19.70 19.20 2.80 Indoo 1354/1236/1059/883 2300/2000/1800/1500	CH-II CH-II 3 3 3.4 6 A 7 9 1 100/15	F100RK2 J100RM2 10.0 44100 11.5 9200 0/3.90 3/4.2 ++/A+ 2.94 2.95 4.65 4.70 2.10 3/824/710 0/400/1200	CH-IF125F CH-IU1257 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~38 3.67 3.75 5.85 6.00 2.25 1118/1059/9/4 1900/1800/166	RK2 RM2 50) + 80-415V/ 41/824	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ /50Hz/3Ph 4.30 4.20 6.50 6.40 2.80 1354/1236/1059/8 2300/2100/1800/1	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A++/A+ 5.30 4.80 9.00 9.70 3.50 883 1412/1294/1118/941
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input Current input Refrigerant cl Air flow volur Sound pressu	Indoor unit Outdoor unit Cooling Heating Cooling Heating Cooling Heating harge volume ne (SH/H/M/L)	kW Btu/h kW Btu/h V/Hz/Ph kW kW A A A kg CFM m ³ /h dB(A)	CH-IF125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75 17.50 17.90 2.25 1118/1059/941/824 1900/1800/1600/1400 45/43/40/38	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ /50Hz/1Ph 4.30 4.20 19.70 19.20 2.80 Indoo 1354/1236/1059/883 2300/2100/1800/1500 51/48/45/43	CH-II CH-II 3 3 3.4 6 A 4 9 4 1/88 1600/15C 48/4	F100RK2 J100RM2 10.0 44100 11.5 9200 .0/3.90 .3/4.2 ++/A+ 2.94 2.95 4.65 4.70 2.10 3/824/710 0/1400/1200 46/45/43	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~38 3.67 3.75 5.85 6.00 2.25 1118/1059/94 1900/1800/160 45/43/40	RK2 RM2 50) + 80-415V/ 41/824 20/1400 /38	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ /50Hz/3Ph 4.30 4.20 6.50 6.40 2.80 1354/1236/1059/8 2300/2100/1800/18 51/48/45/43	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A++/A+ 5.30 4.80 9.00 9.70 3.50 3.50 3.50 3.50 3.50 3.50 3.50 3.5
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input Current input Current input Refrigerant cl Air flow volur Sound pressu Dimension	Indoor unit Outdoor unit Cooling Heating Cooling Heating Cooling Heating harge volume ne (SH/H/M/L) ire Outline	kW Btu/h kW Btu/h //Hz/Ph kW kW A A A kg CFM m ³ /h dB(A) mm	CH-IF125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75 17.50 17.90 2.25 1118/1059/941/824 1900/1800/1600/1400 45/43/40/38 1570×665×235	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ /50Hz/1Ph 4.30 4.20 19.70 19.20 2.80 Indoo 1354/1236/1059/883 2300/2100/1800/1500 51/48/45/43 1570×665×235	CH-II CH-II 3 3 3.4 6 A- 7 4 941/88 1600/15C 48/2 1200	F100RK2 J100RM2 10.0 44100 11.5 9200 .0/3.90 .3/4.2 ++/A+ 2.94 2.95 4.65 4.70 2.10 3/824/710 00/1400/1200 46/45/43 ×665×235	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~38 3.67 3.75 5.85 6.00 2.25 1118/1059/94 1900/1800/160 45/43/40 1570×665>	RK2 RM2 50 50 9 41/824 90/1400 /38 4235	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ '50Hz/3Ph 4.30 4.20 6.50 6.40 2.80 1354/1236/1059/8 2300/2100/1800/13 51/48/45/43 1570×665×235	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A+++/A+ 5.30 4.80 9.00 9.70 3.50 883 1412/1294/1118/941 500 2400/2200/1900/1600 53/51/48/44 1570×665×235
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input Current input Current input Refrigerant cl Air flow volur Sound pressu Dimension (WxDxH)	Indoor unit Outdoor unit Cooling Heating Cooling Heating Cooling Heating harge volume ne (SH/H/M/L) re Outline Package	kW Btu/h kW Btu/h V/Hz/Ph kW kW A A A kg CFM m ³ /h dB(A) mm	CH-IF125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75 17.50 17.50 17.90 2.25 1118/1059/941/824 1900/1800/1600/1400 45/43/40/38 1570×665×235 1669×770×300	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ //50Hz/1Ph 4.30 4.20 19.70 19.20 2.80 Indoo 1354/1236/1059/883 2300/2100/1800/1500 51/48/45/43 1570×665×235 1669×770×300	CH-II CH-IU CH-IU 3 3 3 4 6 A A 4 9 41/88 1600/15C 48/2 1200 1303 ³	F100RK2 J100RM2 10.0 44100 11.5 9200 0/3.90 3/4.2 ++/A+ 2.95 4.65 4.70 2.10 3/824/710 00/1400/1200 45/45/43 ×665×235 <770×300	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~38 3.67 3.75 5.85 6.00 2.25 1118/1059/94 1900/1800/160 45/43/40 1570×665× 1669×770×	RK2 RM2 50 50 7 80-415 80-415 80-415 41/824 90/1400 /38 <235 <300	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ /50Hz/3Ph 4.30 4.20 6.50 6.40 2.80 1354/1236/1059/8 2300/2100/1800/11 51/48/45/43 1570×665×235 1669×770×300	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A++/A+ 5.30 4.80 9.00 9.70 3.50 383 1412/1294/1118/941 500 2400/2200/1900/1600 53/51/48/44 1570×665×235 1669×770×300
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input Current input Current input Refrigerant cl Air flow volur Sound pressu Dimension (WxDxH) Net weight/G	Indoor unit Outdoor unit Cooling Heating Cooling Heating Cooling Heating harge volume ne (SH/H/M/L) re Outline Package iross weight	kW Btu/h kW Btu/h V/Hz/Ph kW kW A A A kg CFM m ³ /h dB(A) mm mm kg	CH-IF125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75 17.50 17.90 2.25 1118/1059/941/824 1900/1800/1600/1400 45/43/40/38 1570×665×235 1669×770×300 39.5/46.5	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ /50Hz/1Ph 4.30 4.20 19.70 19.20 2.80 Indoo 1354/1236/1059/883 2300/2100/1800/1500 51/48/45/43 1570×665×235 1669×770×300 42.0/49.0	CH-II CH-IU CH-IU 3 3 3 3 4 6 A A 9 4 1/88 1600/150 48/2 1200 1303> 32	F100RK2 J100RM2 10.0 44100 11.5 9200 0/3.90 3/4.2 ++/A+ 2.94 2.95 4.65 4.70 2.10 3/824/710 00/1400/1200 46/45/43 ×665×235 <777×300 0/37.0	CH-IF125F CH-IU1257 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~38 3.67 3.75 5.85 6.00 2.25 1118/1059/94 1900/1800/160 45/43/40 1570×665× 1669×770× 39.5/46	RK2 RM2 50 50 7 80-415 80-415 80-415 80 41/824 50/1400 /38 235 300 5	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ /50Hz/3Ph 4.30 4.20 6.50 6.40 2.80 1354/1236/1059/8 2300/2100/1800/1 51/48/45/43 1570×665×235 1669×770×300 42.0/49.0	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A++/A+ 5.30 4.80 9.00 9.70 3.50 883 1412/1294/1118/941 500 2400/2200/1900/1600 53/51/48/44 1570×665×235 1669×770×300 42.0/49.0
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input Current input Current input Refrigerant cl Air flow volur Sound pressu Dimension (WxDxH) Net weight/G	Indoor unit Outdoor unit Cooling Heating Cooling Heating Cooling Heating Cooling Heating harge volume ne (SH/H/M/L) re Outline Package iross weight	kW Btu/h kW Btu/h V/Hz/Ph kW kW A A A kg CFM m ³ /h dB(A) mm mm kg	CH-IF125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75 17.50 17.90 2.25 1118/1059/941/824 1900/1800/1600/1400 45/43/40/38 1570×665×235 1669×770×300 39.5/46.5	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ /50Hz/1Ph 4.30 4.20 19.70 19.20 2.80 Indoo 1354/1236/1059/883 2300/2100/1800/1500 51/48/45/43 1570×665×235 1669×770×300 42.0/49.0 Outdo	CH-II CH-III	F100RK2 J100RM2 10.0 44100 11.5 9200 0/3.90 3/4.2 ++/A+ 2.94 2.95 4.65 4.70 2.10 3/824/710 0/400/1200 46/45/43 ×665×235 <770×300 .0/37.0	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~38 3.67 3.75 5.85 6.00 2.25 1118/1059/94 1900/1800/160 45/43/400 1570×665× 1669×770× 39.5/46	RK2 RM2 50 50 7 80-415V/ 80-415V/ 41/824 90/1400 /38 <235 <300 .5	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ /50Hz/3Ph 4.30 4.20 6.50 6.40 2.80 1354/1236/1059/8 2300/2100/1800/1 51/48/45/43 1570×665×235 1669×770×300 42.0/49.0	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A++/A+ 5.30 4.80 9.00 9.70 3.50 883 1412/1294/1118/941 500 2400/2200/1900/1600 53/51/48/44 1570×665×235 1669×770×300 42.0/49.0
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input Current input Current input Air flow volur Sound pressu Dimension (WXDXH) Net weight/G Sound pressu	Indoor unit Outdoor unit Cooling Heating Cooling Heating Cooling Heating Cooling Heating harge volume ne (SH/H/M/L) re Outline Package cross weight re	kW Btu/h kW Btu/h //Hz/Ph kW kW A A A kg CFM m ³ /h dB(A) mm mm kg dB(A)	CH-IF125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75 17.50 17.90 2.25 1118/1059/941/824 1900/1800/1600/1400 45/43/40/38 1570×665×235 1669×770×300 39.5/46.5	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ /50HZ/1Ph 4.30 4.20 19.70 19.20 2.80 Indoo 1354/1236/1059/883 2300/2100/1800/1500 51/48/45/43 1570×665×235 1669×770×820 0utdo 59 00vZ70×820	CH-II CH-III	F100RK2 J100RM2 10.0 44100 11.5 9200 .0/3.90 .3/4.2 ++/A+ 2.94 2.95 4.65 4.70 2.10 3/824/710 00/1400/1200 46/45/43 ×665×235 ×770×300 .0/37.0	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~38 3.67 3.75 5.85 6.00 2.25 1118/1059/94 1900/1800/160 45/43/40 1570×665× 1669×770× 39.5/46	RK2 RM2 50) + 80-415V/ 41/824 90/1400 /38 <235 <300 .5	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ /50Hz/3Ph 4.30 4.20 6.50 6.40 2.80 1354/1236/1059/8 2300/2100/1800/1 51/48/45/43 1570×665×235 1669×770×300 42.0/49.0	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A++/A+ 5.30 4.80 9.00 9.70 3.50 383 1412/1294/1118/941 500 2400/2200/1900/1600 53/51/48/44 1570×665×235 1669×770×300 42.0/49.0
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input Current input Current input Refrigerant cl Air flow volur Sound pressu Dimension (WxDxH) Net weight/G Sound pressu Dimension	Indoor unit Outdoor unit Cooling Heating Cooling Heating Cooling Heating Cooling Heating harge volume ne (SH/H/M/L) re Outline Package Goutine Package	kW Btu/h kW Btu/h //Hz/Ph kW kW A A A kg CFM m ³ /h dB(A) mm kg dB(A) mm	CH-IF125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75 17.50 17.90 2.25 1118/1059/941/824 1900/1800/1600/1400 45/43/40/38 1570×665×235 1669×770×300 39.5/46.5 58 940×370×820 1093×/97×885	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ //50Hz/1Ph 4.30 4.20 19.70 19.20 2.80 Indoo 1354/1236/1059/883 2300/2100/1800/1500 51/48/45/43 1570×665×235 1669×770×300 42.0/49.0 Outdo 59 940×370×820 1093×/97×885	CH-II CH-II CH-II 3 3 3 4 6 A- A- 2 941/88 1600/15C 48/4 1200 1303- 32 or unit 940>	F100RK2 J100RM2 10.0 44100 11.5 9200 .0/3.90 .3/4.2 ++/A+ 2.94 2.95 4.65 4.70 2.10 3/824/710 00/1400/1200 46/45/43 ×665×235 <770×300 0/37.0 57 57 57 57 570×820 ×697×885	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~38 3.67 3.75 5.85 6.00 2.25 1118/1059/94 1900/1800/160 45/43/40 1570×665> 1669×770× 39.5/46 58 940×370× 1093×/07×	RK2 RM2 30 50 50 50 50 50 41/824 30-415 41/824 30 7 41/824 30 7 41/824 30 7 43 82 5 820 5 820 820 820	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ /50Hz/3Ph 4.30 4.20 6.50 6.40 2.80 1354/1236/1059/8 2300/2100/1800/11 51/48/45/43 1570×665×235 1669×770×300 42.0/49.0 59 940×370×820 1093×/97×8820	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A+++/A+ 5.30 4.80 9.00 9.70 3.50 383 1412/1294/1118/941 500 2400/2200/1900/1600 53/51/48/44 1570×665×235 1669×770×300 42.0/49.0 60 990×370×960 1153×678×1110
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input Current input Current input Refrigerant cl Air flow volur Sound pressu Dimension (WxDxH) Net weight/G Sound pressu Dimension (WxDxH) Net weight/G	Indoor unit Outdoor unit Cooling Heating Cooling Heating Cooling Heating Cooling Heating harge volume ne (SH/H/M/L) re Outline Package cross weight re Outline Package	kW Btu/h kW Btu/h V/Hz/Ph kW kW A A A A CFM m ³ /h dB(A) mm mm kg dB(A) mm	CH-IF125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75 17.50 17.50 17.90 2.25 1118/1059/941/824 1900/1800/1600/1400 45/43/40/38 1570×665×235 1669×770×300 39.5/46.5 58 940×370×820 1093×497×885 66 0/73 0	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ /50Hz/1Ph 4.30 4.20 19.70 19.20 2.80 Indoo 1354/1236/1059/883 2300/2100/1800/1500 51/48/45/43 1570×665×235 1669×770×300 42.0/49.0 Outdo 59 940×370×820 1093×497×885 73.0/80.0	CH-II CH-III	F100RK2 J100RM2 10.0 (4100 11.5 9200 0/3.90 3/4.2 ++/A+ 2.94 2.95 4.65 4.70 2.10 3/824/710 0/1400/1200 (6/45/43 ×665×235 *770×300 0/37.0 57 57 (370×820 ×497×885 0/82 0	CH-IF125F CH-IU1257 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~38 3.67 3.75 5.85 6.00 2.25 1118/1059/9.4 1900/1800/160 45/43/40 1570×665> 1669×770× 39.5/46 58 940×370× 1093×497> 76 0/83	RK2 RM2 50 50 7 + 80-415V/ 41/824 00/1400 /38 <235 <300 .5 * 820 <885 0	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ /50Hz/3Ph 4.30 4.20 6.50 6.40 2.80 1354/1236/1059/8 2300/2100/1800/18 51/48/45/43 1570×665×235 1669×770×300 42.0/49.0 59 940×370×820 1093×497×885 81 0/88 0	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A++/A+ 5.30 4.80 9.00 9.70 3.50 883 1412/1294/1118/941 500 2400/2200/1900/1600 53/51/48/44 1570×665×235 1669×770×300 42.0/49.0 60 990×370×960 1153×478×1110 94 0/103 0
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input Current input Current input Refrigerant cl Air flow volur Sound pressu Dimension (WxDxH) Net weight/G Sound pressu Dimension (WxDxH) Net weight/G	Indoor unit Outdoor unit Cooling Heating Cooling Heating Cooling Heating Cooling Heating harge volume ne (SH/H/M/L) re Outline Package Goutine Package Goutine Package Cooling	kW Btu/h kW Btu/h //Hz/Ph kW kW A A A kg CFM m ³ /h dB(A) mm mm kg dB(A) mm	CH-IF125RK2 CH-IU125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75 17.50 17.90 2.25 1118/1059/941/824 1900/1800/1600/1400 45/43/40/38 1570×665×235 1669×770×300 39.5/46.5 58 940×370×820 1093×497×885 66.0/73.0 3/8 (9.52)	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ /50Hz/1Ph 4.30 4.20 19.70 19.20 2.80 Indoo 1354/1236/1059/883 2300/2100/1800/1500 51/48/45/43 1570×665×235 1669×770×300 42.0/49.0 Outdo 59 940×370×820 1093×497×885 73.0/80.0 3/8 (9.52)	CH-II CH-III	F100RK2 J100RM2 10.0 (4100 11.5 9200 0/3.90 3/4.2 ++/A+ 2.94 2.95 4.65 4.70 2.10 3/824/710 00/1400/1200 (6/45/43) ×665×235 <770×300 0/37.0 57 57 57 57 57 57 57 57 57 57 57 57 57	CH-IF125F CH-IU1257 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~38 3.67 3.75 5.85 6.00 2.25 1118/1059/94 1900/1800/160 45/43/40 1570×665> 1669×770× 39.5/46 58 940×370× 1093×497> 76.0/83 3/8 (9.5)	RK2 RM2 50 50 7 80-415V/ 80-415V/ 80-415V/ 80-415V/ 80-415V/ 80 41/824 5 820 5 820 5 820 5 820 5 820 2	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ /50Hz/3Ph 4.30 4.20 6.50 6.40 2.80 1354/1236/1059/8 2300/2100/1800/1 51/48/45/43 1570×665×235 1669×770×300 42.0/49.0 59 940×370×820 1093×497×885 81.0/88.0 3/8 (9.52)	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A++/A+ 5.30 4.80 9.00 9.70 3.50 4.80 9.00 9.70 3.50 2400/2200/1900/1600 53/51/48/44 1570×665×235 1669×770×300 42.0/49.0 60 990×370×960 1153×478×1110 94.0/103.0 3/8 (9.52)
Model Capacity EER/COP SEER/SCOP Energy efficie Power supply Power input Current input Current input Current input Air flow volur Sound pressu Dimension (WxDxH) Net weight/G Sound pressu Dimension (WxDxH) Net weight/G Connecting	Indoor unit Outdoor unit Cooling Heating Cooling Heating Cooling Heating Cooling Heating harge volume ne (SH/H/M/L) re Outline Package cross weight re Outline Package cross weight Liquid pipe Gas pipe	kW Btu/h kW Btu/h //Hz/Ph kW kW A A A kg CFM m ³ /h dB(A) mm mm kg dB(A) mm mm kg inch (mm)	CH-IF125RK2 12.1 41200 13.5 46000 3.3/3.6 6.3/4.0 A++/A+ ~220-240V 3.67 3.75 17.50 17.50 17.90 2.25 1118/1059/941/824 1900/1800/1600/1400 45/43/40/38 1570×665×235 1669×770×300 39.5/46.5 58 940×370×820 1093×497×885 66.0/73.0 3/8 (9.52) 5/8 (15.9)	CH-IF140RK2 CH-IU140RK2 13.4 45700 15.5 52900 3.12/3.69 6.3/4.0 A++/A+ /50Hz/1Ph 4.30 4.20 19.70 19.20 2.80 1354/1236/1059/883 2300/2100/1800/1500 51/48/45/43 1570×665×235 1669×770×300 42.0/49.0 0utdo 59 940×370×820 1093×497×885 73.0/80.0 3/8 (9.52) 5/8 (15.9)	CH-II CH-III	F100RK2 J100RM2 10.0 i4100 11.5 9200 .0/3.90 .3/4.2 ++/A+ 2.94 2.95 4.65 4.70 2.10 3/824/710 0/1400/1200 i6/45/43 ×665×235 <770×300 .0/37.0 57 57 i370×820 ×497×885 0/82.0 8 (9.52) 8 (15.9)	CH-IF125F CH-IU125F 12.1 41200 13.5 46000 3.30/3.6 6.3/4.0 A++/A- ~38 3.67 3.75 5.85 6.00 2.25 1118/1059/94 1900/1800/160 45/43/400 1570×665× 1669×770× 169×770× 1093×497× 76.0/83 3/8 (9.5) 5/8 (15.5)	RK2 RM2 30 30 30 30 30 41/824 30 41/824 30 41/824 30 41/824 30 41/824 30 41/824 30 41/824 30 5 30 5 30 5 30 5 30 2 9 9	CH-IF140RK2 CH-IU140RM2 13.4 45700 15.50 52900 3.12/3.69 6.30/4.00 A++/A+ /50Hz/3Ph 4.30 4.20 6.50 6.40 2.80 1354/1236/1059/8 2300/2100/1800/1 51/48/45/43 1570×665×235 1669×770×300 42.0/49.0 59 940×370×820 1093×497×885 81.0/88.0 3/8 (9.52) 5/8 (15.9)	CH-IF160RK2 CH-IU160RM2 16.0 54500 17.0 58000 3.02/3.54 6.10/4.00 A++/A+ 5.30 4.80 9.00 9.70 3.50 2400/2200/1900/1600 53/51/48/44 1570×665×235 1669×770×300 42.0/49.0 60 990×370×960 1153×478×1110 94.0/103.0 3/8 (9.52) 5/8 (15.9)

Performance and consumption data are determined under the following air parameters Cooling: indoor temperature DB/WB: 27/19 °C, outdoor temperature DB/WB: 35/24 °C Heating: indoor temperature DB/WB: 20/15 °C, outdoor temperature DB/WB: 7/6 °C

Intelligent control

MULTI-SPLIT KIT (NO ADDITIONAL EQUIPMENT REQUIRED)

NORDIC COMMERCIAL R2 series air conditioners use two combined communication networks – LNS Bus and HomeBus, and therefore one outdoor unit can be combined with several indoor units of the same type of duct/floor-ceiling/cassette. As a rule, such solutions are used for large rooms and rooms with "irregular shapes", such as T- and L-shaped rooms, etc.

■ IT'S STILL HOT, EVEN AFTER THE TEMPERATURE IS SET AT 27°C.

Human perception of thermal comfort is closely related to air humidity. Even if the ambient temperature is the same, people feel it differently depending on the humidity.

WHY?



TECHNOLOGY FOR CORRECTION OF TEMPERATURE AND HUMIDITY

The new controller uses high-precision temperature and humidity sensors to fully account the impact of humidity on thermal comfort and improve comfort levels through intelligent correction of indoor temperature and humidity.



Multi-control functions



Accessories

Group	Name	Labeling	Appearance	W-house
	Infrared remote control	YAP1F7		•
	Next-generation wired controller	XE7A-24/H		0
	Standard next-generation wired controller with Wi-Fi	XE7A-24/HC	- 0 .	•
Remotes and controllers	Color touch screen remote controller with Wi-Fi	XE73-24/HC	260	0
	Wired controller with weekly timer and Wi-Fi	XE7C-24/HC	淮79 ° 許 : : : :	0
	Communication controller (connection to key card)	LE60-24/H1		•
	Dry contact gateway. Requires replacement of the internal blocks board manufactured until 03.2023	ME60-42/H1		ο
Infrared signal receiving pane	l for duct-type units	JS13	©	0
	Centralized controller. Requires ME50-00/EG (M) for each air conditioner	CE58-00/EF (CM)	08;30 *	0
Central control	Centralized controller. Requires ME50-00/EG (M) for each air conditioner	CE52-24/F (C)	09:20 09:20 0 0 0 0 0	•
Converters for converting	Modbus gateway for connection to central control and signal conversion to Modbus RTU	ME50-00/EG (M)	ê	•
internal bus signals to industrial protocols	BACnet gateway for converting Modbus to BACnet. Requires ME50-00/EG (M) for each air conditioner	ME30-44/D2 (B)	CH ng	0
Wi-Fi control via Ewpe Smart APP (iOS, Android)	Wi-Fi module	WMBTG01		0
Diagnostic controller		DE43-00/EF(CM)		o

Note: • - in stock, • - to order



CENTRAL CONTROL

Optional central controllers can control up to 36 units of commercial series air conditioners. Centralized control can combine control of residential air conditioners with wired remote control extensions, commercial air conditioners, and CHV systems.



WI-FI CONTROL

The built-in Wi-Fi module in the standard wired controller allows you to control air conditioners via the EwpeSmart application if there is access to a Wi-Fi network.



REMOTE CONTROL (BMS)

Remotely through BMS, you can control up to 255 air conditioner units. Currently, there are two gateways (converters) using the following protocols: Modbus and BACnet.



COMMUNICATION CONTROLLER

The key card interface is often used in hotel complexes to save electricity and increase security by automatically turning off electrical devices after the guest leaves their room.

To implement the key card function, a LE60-24/H1 communication module is required, it is installed on each indoor unit where such a function is required.

In addition, the communication controller provides two groups of dry contacts that can be used to turn on/off indoor units using signals such as fire alarm and window closing/opening.





Multi-split system

The NORDIC COMMERCIAL R2 series allows you to build a multi-split system without additional equipment, i.e., several indoor units can be connected to one outdoor unit using refnet headers. This scheme can be used for one irregularly shaped room (T or L-shaped rooms) or a room with a low height for improved distribution of cooled/heated air.



Multiple indoor units of the same type can be connected to an outdoor unit, see the table below. Notes on model selection:

(1) The type, cooling capacity and model of the units must be the same.

(2) The piping connection must be made through refnet headers.

(3) The indoor units operate as one system - one operation mode, one temperature, fan speed, on/off and other settings are the same

(4) It is not allowed to use dry contact to turn on/off the indoor units. Remote monitoring functions are not available.

	Qty IDU							
	Two 1:1 (*100W)	Three 1:1:1 (*100W)	Four 1:1:1:1 (*100W)					
71	50*2	—	_					
100	50*2	35*3	_					
125	71*2	50*3	35*4					
140	71*2	50*3	35*4					
160	85*2	71*3	50*4					

Variety of control forms





NORDIC COMMERCIAL CASSETTE TYPE N SERIES [C:-15~+48 H:-15~+24]





- Easy installation;
- Compact size;
- Low-noise fan;
- Durable and washable filter;
- Drainage pump;
- Self-diagnosis of malfunctions of the main units and modes;
- Multi-level system protection;
- Remote control included;
- Pipeline length up to 50 m (for high-power models);
- Possibility to select an indoor air temperature sensor for control.

OVERALL DIMENSIONS OF THE INDOOR UNIT



Model	A	В	C	D	E	F	G
CH-C050NK	620	580	570	520	560	265	170
CH-C071NK	950	870	840	660	790	240	165
CH-C085NK	950	870	840	660	790	240	165
CH-C100NK	950	870	840	660	790	240	165
CH-C125NK	950	870	840	660	790	240	165
CH-C140NK	950	870	840	660	790	240	165
CH-C160NK	950	870	840	660	790	240	165

OVERALL DIMENSIONS OF THE OUTDOOR UNIT

С



Units: mm							
Dimensions/Model	A	B	C	D	Ε	F	G
CH-U050NK	761	320	548	540	286	825	256
CH-U071NK	892	396	698	560	364	957	340
CH-U085NK	892	396	698	560	364	957	340
CH-U100NM	920	427	790	610	395	985	370
CH-U125NM	940	530	820	610	486	1010	460
CH-U140NM	940	530	820	610	486	1010	460
CH-U160NM	940	530	820	610	486	1010	460

TECHNICAL SPECIFICATIONS

Madal	Indoor unit		CH-C050NK	CH-C071NK	CH-C085NK	CH-C100NK	CH-C125NK	CH-C140NK	CH-C160NK		
Mouel	Outdoor unit		CH-U050NK	CH-U071NK	CH-U085NK	CH-U100NM	CH-U125NM	CH-U140NM	CH-U160NM		
Canacity	Cooling	kW	4.80	7.10	8.30	10.01	12.00	14.01	15.00		
capacity	Heating	kW	5.00	7.40	9.20	12.00	14.80	15.10	17.40		
Power supply	•		~22	20-240V/50Hz/	1Ph	~380-415V/50Hz/3Ph					
Power consumption	Cooling	kW	1.55	2.15	2.65	3.25	4.20	4.50	5.30		
	Heating	kW	1.35	2.05	2.50	3.20	4.20	4.30	5.60		
Energy efficiency	Cooling	EER	3.10	3.30	3.13	3.08	2.86	2.86	2.83		
	Heating	COP	3.70	3.61	3.68	3.75	3.52	3.38	3.11		
Airflow volume	Indoor unit	m³/h	700	1250	1250	1600	1600	2000	2000		
Cound processo	Indoor unit	dB(A)	44/43/38/35	46/45/42/39	46/45/42/39	52/50/48/45	52/50/49/47	54/51/47/45	55/51/47/45		
Sound pressure	Outdoor unit	dB(A)	51	53	55	56	58	58	60		
Refrigerant type	-		R410A								
Refrigerant charge volume	2	kg	1.20	1.90	2.10	2.10	2.85	3.30	4.20		
	Indoor unit	kg	17	30	30	30	33	34	34		
Weigh	Panel	kg	3	6	6	6	6	6	6		
	Outdoor unit	kg	39	59	61	70	97	97	103		
Operational temperature	Cooling	0°	-15-48								
range	Heating	<u>°C</u>	, ,			-15-24		· · · · · · · · · · · · · · · · · · ·			
Connection diameter liqui	d line	mm/inch	6.35/1/4"	9.53/3/8"	9.53/3/8"	9.53/3/8"	9.53/3/8"	9.53/3/8"	9.53/3/8"		
Connection diameter gas	ine	mm/inch	12.7/1/2"	15.88/5/8"	15.88/5/8"	15.88/5/8"	15.88/5/8"	15.88/5/8"	15.88/5/8"		
Pipeline height maximum		m	15	15	15	20	30	30	30		
Pipeline length maximum		m	30	30	30	30	50	50	50		
Number of interblock core	s (for control)					2×0.75mm ²					
Main power supply point						Outdoor unit		*			
Number of interblock cores (for control)	Outdoor unit		3×1.5mm²	3×1.5mm²	3×1.5mm²	5×1.5mm²	5×1.5mm²	5×1.5mm²	5×1.5mm ²		
Refrigerant factory charge (volume per meter)	9	m	7	7	7	7	7	9.5	9.5		
Amount of refrigerant refu (overrun per meter)	Jeling per mile	gram/m	22	30	30	45	45	45	54		

* SEER is the Seasonal Cooling Efficiency Ratio of the system. ** SCOP is the Seasonal Heating Efficiency Ratio of the system





- Easy installation;
- Compact size;
- Low-noise fan;
- Durable and washable filter;
- Wired controller included;

- Self-diagnosis of malfunctions of the main units and modes;
- Drainage pump;

<u></u> Wi-Fi Optional

- Multi-level system protection;
- Pipeline length up to 75 m

OVERALL DIMENSIONS OF THE INDOOR UNIT



Model	А	В	С	D	E	F	G
CH-D050PNK	1060	415	1000	200	450	474	1068
CH-D071PNK	1360	415	1300	220	450	474	1368
CH-D085PNK	1360	415	1300	220	450	474	1368
CH-DH100PNK	1040	500	1000	300	700	754	1092
CH-DH125PNK	1040	500	1000	300	700	754	1092
CH-DH140PNK	1440	500	1400	300	700	754	1492
CH-DH160PNK	1440	500	1400	300	700	754	1492

OVERALL DIMENSIONS OF THE OUTDOOR UNIT

C



Units: mm							
Dimensions/Model	A	B	C	D	E	F	G
CH-U050NK	761	320	548	540	286	825	256
CH-U071NK	892	396	698	560	364	957	340
CH-U085NK	892	396	698	560	364	957	340
CH-U100NM	920	427	790	610	395	985	370
CH-U125NM	940	530	820	610	486	1010	460
CH-U140NM	940	530	820	610	486	1010	460
CH-U160NM	940	530	820	610	486	1010	460

TECHNICAL SPECIFICATIONS

Model	Indoor unit		CH-D050PNK	CH-D071PNK	CH-D085PNK	CH-DH100PNK	CH-DH125PNK	CH-DH140PNK	CH-DH160PNK	
Model	Outdoor unit		CH-U050NK	CH-U071NK	CH-U085NK	CH-U100NM	CH-U125NM	CH-U140NM	CH-U160NM	
Conacity	Cooling	kW	4.75	7.00	8.30	10.10	12.00	14.60	16.00	
capacity	Heating	kW	4.90	7.40	9.30	12.00	14.60	16.30	19.00	
Power supply			~220-240V/50Hz/1Ph				~380-415V/50Hz/3Ph			
Power consumption	Cooling	kW	1.60	2.15	2.70	3.20	4.35	4.50	5.50	
	Heating	kW	1.40	1.95	2.60	3.20	4.60	4.30	5.40	
Enorgy officioncy	Cooling	EER	2.97	3.26	3.07	3.16	2.76	3.24	2.91	
Lifergy entitiency	Heating	COP	3.50	3.79	3.58	3.75	3.17	3.79	3.52	
Airflow volume	Indoor unit	m³/h	650	1150	1250	1650	1700	2200	2600	
Sound prossure	Indoor unit	dB(A)	35/32/30/27	37/33/30/28	40/36/33/32	44/42/38/35	44/41/38/35	45/44/41/37	47/45/40/37	
Soona hiessore	Outdoor unit	dB(A)	51	53	55	56	58	58	60	
Refrigerant type		[-		R	410A				
Refrigerant charge volum	e	kg	1.20	1.90	2.10	2.10	2.85	3.30	4.20	
Pressure range	-	Pa	0-60	0-60	0-80	0-100	0-100	0–150	0–150	
Woigh	Indoor unit	kg	25	32	32	40	42	53	55	
weigii	Outdoor unit	kg	39	59	61	70	97	97	103	
Operational temperature	Cooling	0°				-15-48				
range	Heating	°C				-15-24				
Connection diameter liqui	d line	mm/inch	6.35/1/4"	9.53/3/8"	9.53/3/8"	9.53/3/8"	9.53/3/8"	9.53/3/8"	9.53/3/8"	
Connection diameter gas	line	mm/inch	12.7/1/2"	15.88/5/8"	15.88/5/8"	15.88/5/8"	15.88/5/8"	15.88/5/8"	15.88/5/8"	
Pipeline height maximum		m	15	15	15	20	30	30	30	
Pipeline length maximum		m	30	30	30	30	50	50	50	
Number of interblock core	es (for control)					2×0.75mm ²				
Main power supply point	g					Outdoor unit				
Number of interblock cores (for control)	Outdoor unit		3×1.5mm²	3×1.5mm²	3×1.5mm²	3×1.5mm²	5×1.5mm²	5×1.5mm²	5×1.5mm²	
Refrigerant factory charge	e (volume per meter)	m	7	7	7	7	7	9.5	9.5	
Amount of refrigerant refr (overrun per meter)	ueling per mile	gram/m	22	30	30	45	45	45	54	

* SEER - Seasonal cooling efficiency ratio. ** SCOP is the seasonal cooling coefficient of performance.



NORDIC COMMERCIAL FLOOR-CEILING TYPE N SERIES [C:-15~+48 H:-15~+24]





- Easy installation;
- Compact size;
- Low-noise fan;
- Durable and washable filter;
- Drainage pump;
- Self-diagnosis of malfunctions of the main units and modes;
- Multi-level system protection;
- · Remote control included;
- Pipeline length up to 50 m (for high-power models);
- Possibility to select an indoor air temperature sensor for control.

OVERALL DIMENSIONS OF THE INDOOR UNIT



Model	A	В	C	D	Н
CH-F050NK	870	235	812	318	665
CH-F071NK	1200	235	1142	318	665
CH-F085NK	1200	235	1142	318	665
CH-F100NK	1200	235	1142	318	665
CH-F125NK	1200	235	1142	318	665
CH-F140NK	1570	235	1512	318	665
CH-F160NK	1570	235	1512	318	665

OVERALL DIMENSIONS OF THE OUTDOOR UNIT

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Units: mm					_		
Dimensions/Model	A	B	C	D	Ε	F	G
CH-U050NK	761	320	548	540	286	825	256
CH-U071NK	892	396	698	560	364	957	340
CH-U085NK	892	396	698	560	364	957	340
CH-U100NM	920	427	790	610	395	985	370
CH-U125NM	940	530	820	610	486	1010	460
CH-U140NM	940	530	820	610	486	1010	460
CH-U160NM	940	530	820	610	486	1010	460

TECHNICAL SPECIFICATIONS

Model	Indoor unit		CH-F050NK	CH-F071NK	CH-F085NK	CH-F100NK	CH-F125NK	CH-F140NK	CH-F160NK	
	Outdoor unit		CH-U050NK	CH-U071NK	CH-U085NK	CH-U100NM	CH-U125NM	CH-U140NM	CH-U160NM	
Conceitur	Cooling	kW	5.00	7.30	8.60	10.10	12.00	14.10	15.80	
Capacity	Heating	kW	5.20	7.70	9.30	12.00	14.50	16.50	19.10	
Power supply	-		~2	20-240V/50Hz/1	1Ph		~380-415V/50Hz/3Ph			
Power consump-	Cooling	kW	1.65	2.25	2.75	3.20	4.20	4.50	5.50	
tion	Heating	kW	1.45	2.20	2.80	3.40	4.45	4.30	5.40	
Energy efficiency	Cooling	EER	3.03	3.24	3.13	3.16	2.86	3.13	2.88	
	Heating	COP	3.59	3.50	3.32	3.53	3.26	3.75	3.54	
Airflow volume	Indoor unit	m³∕h	700	1400	1500	1700	1700	2200	2500	
~ I	Indoor unit	dB(A)	41/40/37/33	47/46/44/41	49/48/47/44	51/50/49/48	52/50/49/48	54/53/52/51	54/53/52/51	
Sound pressure	Outdoor unit	dB(A)	51	53	55	56	58	58	60	
Refrigerant type			,		R	410A	-		,	
Refrigerant charge	volume	kg	1.20	1.90	2.10	2.10	2.85	3.30	4.20	
Weigh	Indoor unit	kg	25	33	33	36	37	43	45	
weigii	Outdoor unit	kg	39	59	61	70	97	97	103	
Operational tem-	Cooling	°C				-15-48				
perature range	Heating	° C				-15-24				
Connection diamet	er liquid line	mm/inch	6.35/1/4"	9.53/3/8"	9.53/3/8"	9.53/3/8"	9.53/3/8"	9.53/3/8"	9.53/3/8"	
Connection diamet	er gas line	mm/inch	12.7/1/2"	15.88/5/8"	15.88/5/8"	15.88/5/8"	15.88/5/8"	15.88/5/8"	15.88/5/8"	
Pipeline height max	kimum	m	15	15	15	20	30	30	30	
Pipeline length max	kimum	m	30	30	30	30	50	50	50	
Number of interblo	ck cores (for control)			_		2×0.75mm ²	_	.		
Main power supply point				.	.	Outdoor unit	.	.		
Number of interblo	ck cores (for control)	Outdoor unit	3×1.5mm²	3×1.5mm²	3×1.5mm²	5×1.5mm²	5×1.5mm²	5×1.5mm²	5×1.5mm²	
Refrigerant factory charge m			7	7	7	7	7	9.5	9.5	
Amount of refrigerant refueling per mile (werring per meter)			22	30	30	45	45	45	54	

* SEER - Seasonal cooling efficiency ratio. ** SCOP is the seasonal cooling coefficient of performance



HIGH PERFORMANCE DUCT UNITS



■ HIGH-PERFORMANCE DUCT UNITS

- This series of equipment is built on the basis of the CHV5 inverter with a similar data transmission bus CAN.
- DC-inverter compressor and fan motors, for greater efficiency and energy savings.
- Indoor units with external static pressure up to 250 Pa, for longer ducts.
- By adjusting the fan speed, you can select the external static pressure in the air duct.



Ambient temperature range for cooling: -7°C ~ +48°C

Ambient temperature range for cooling: -15°C ~ +24°C

WIDE VOLTAGE RANGE

Thanks to the optimization of drive parameters and electronic control, can operate in a wide voltage range, even if the voltage drops to 180 V. They can be used in places with unstable power supply.



HEA	ALTH	COMFORT MANAGEMENT				INTELLIGENT CONTROL			L	TECHNOLOGICAL				
	7 7	(24h)	 88:	Ŵ		-	<u>}</u> }}	No o o		$\langle \! \! \! \rangle$		τŖ		Ľ⊗
mode SLEEP	ECO-FRESH	Timer	LED-display	Turbo mode	Multi-speed fan	Wi-Fi	Dry mode	Freezing protection	Automatic restart	Self- diagnosis	Wired controller connection	Built-in drain pump	Anti- corrosion coating	Silent mode

LARGE LENGTH OF PIPELINES



- Maximum height difference 30 m.
- Maximum pipeline length 70 m.

Note: The system needs to be refilled in length according to the diameter of the liquid pipe.

OPTIMIZED ELECTRICAL BOX

The electrical box has a hinged design. The front panel with the main board opens and provides access to the inverter board without dismantling the box. The compressor inverter board is freon-cooled.



COMPACT SIZES

Side-discharge outdoor units take up 30% less space than top-discharge units and weigh approximately 25%. This form factor increases the possibilities for transportation, movement around the facility to the installation point and allows for wall mounting.







Zone control of a duct-type unit

Units with zone controllers provide independent temperature control for up to 8 zones. Zone control elements:

- Central communicator;
- Separate wired controller: 4.3 inch color screen, touch control;
- Independent temperature control and weekly timer function for each zone;
- Wireless RF thermostat: convenient wireless installation, easy setup;
- Wi-Fi module: control via the EwpeSmart application independently by zones: temperature, on/off, weekly timer. Note: Dampers with electric actuators must be purchased on the local market, power supply 24V~ Max. current 150mA, RJ11 port..

CH Wi-Fi controller Radio frequency remote control and sensor Zone control interface Wired controller Se .



CONNECTION TO BMS



To connect air conditioners to remote control/ monitoring systems via Modbus protocol, the ME30-24/E7 (M)* gateway is used. Only one air conditioner can be connected to one gateway. The maximum number of air conditioners in a Modbus network is 255 units.

CONNECTION TO CENTRAL CONTROL



To control air conditioners from the centralized controller CE52-24/F (C), the gateway ME30-24/ E7 (M)* is used. Only one air conditioner can be connected to one gateway. The maximum number of air conditioners that can be connected to one centralized controller is 36 units.

CONNECTION TO DEBUGGING AND DIAGNOSTICS SYSTEMS



The following devices are used for debugging or diagnostics:

- Converter ME40-00/B and PC with Windows operating system and software DE42-33/A (C).
- 2. Diagnostic console SE42-24/F (C).

TECHNICAL SPECIFICATIONS

Mod	el	Indoor unit			CH-IBD20NM(I)	CH-IBD25NM(I)	CH-IBD30NM(I)	CH-IBD40N(2)M(I)		
1100		Outdoor unit			CH-IBD20NM(0)	CH-IBD25NM(0)	CH-IBD30NM(0)	CH-IBD20NM(0)*2		
		Cooling		Btu/h	68200	85300	102400	136500		
Rated capacity at ESP		coomig	<u>.</u>	kW	20	25	30	40		
at E	SP	Heating		Btu/h	75100	93800	112600	146700		
		incuting		kW	22	27.5	33	43		
SEE	R/SCOP			W/W	4.9/3.41	4.61/3.61	4.7/3.4	4.6/3.42		
Ρον	ver innut		Cooling	kW	7.8	9.4	11.3	15.4		
			Heating		7.0	8.9	10.3	13.9		
Cur	rent innut		Cooling	····· A	16.5	18.9	22.7	27.8		
COI			Heating	~	15.6	17.2	20.7	26.4		
Refi	rigerant charg	e volume R410a		kg	6.4	8.0	9.5	6.4×2		
	Power supply	l,		V/Hz/Ph		~220-240V/50Hz/1Ph		~380-415V/50Hz/3Ph		
		Air flow volume		CFM	2178	2472	3060	4120		
				m³/h	3700	4200	5200	7000		
door unit		Power input		Wt	750	800	900	1350		
	Fan	Current input		Α	4.1	4.4	4.9	2.7		
		External static	Rated	Pa	120					
		pressure (ESP)	Range	Pa		0-2	<u>250</u>			
Ц		Sound pressure	!	dB(A)	52	53	55	56		
	Dimension (W/vDv/U) Outline			1315×760×385	1520×840×450	1520×840×450	1680×900×650			
	DIMENSION (V	νχυχη)	Package	11111	1578×883×472	1788×988×580	1788×988×580	1893×1123×850		
	Net weight/0	Gross weight		kg	82/104	99/134	105/145	165/210		
	Drain tube (C).D)	-	mm		25		33		
	Power supply	1	-	V/Hz/Ph		~380-415V	/50Hz/3Ph	-		
	Comprossor	Туре			Rot	ary	Spiral	Rotary		
	compressor	Current input	-	Α	10.1	12.9	15.8	10.1		
	Fan revolutio	ns per meter	_	rpm	100~800	100~950	100~950	100~800		
nit.	Sound pressu	Jre	_	dB(A)	62	63	65	66		
or L	Dimonsion ()	איטאין)	Outline	mm	940×320×1430	940×460×1615	940×460×1615	940*2×320*2×1430*2		
tdo	DIMENSION (V	VXDXN)	Package	11111	1033×433×1580	1033×573×1765	1033×573×1765	1033*2×433*2×1580*2		
лО	Net weight/0	Gross weight		kg	120/130	146/162	175/190	120×2/130×2		
		Liquid pipe		inch (mm)	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	3/8 (9.52)*2		
	Connecting	Gas pipe		inch (mm)	3/4 (19.05)	7/8 (22)	1 (25.4)	3/4 (19.05)*2		
	pipe	Maximum dista (Heaight/Leng	nce th)	m	30/50	30/50	30/50	30/50		

Note: two outdoor units CH-IBD20NM(O) are connected to the indoor unit CH-IBD40N(2)M(I), which has a dual-circuit heat exchanger.

ELECTRICAL PARAMETERS

Model	Power supply V/Hz/Ph	Circuit breaker capacity (A)	Number of power cables *Minimum cross-sectional area (mm²)
CH-IBD20NM(0)	~380-415V/50Hz/3Ph	20	5*2 <u>.5</u>
CH-IBD20NM(I)	~220-240V/50Hz/1Ph	10	3*1 <u>.5</u>
CH-IBD25NM(0)	~380-415V/50Hz/3Ph	25	5*2.5
CH-IBD25NM(I)	~220-240V/50Hz/1Ph	10	3*1.5
CH-IBD30NM(0)	~380-415V/50Hz/3Ph	32	5*4.0
CH-IBD30NM(I)	~220-240V/50Hz/1Ph	10	3*1.5
CH-IBD40N(2)M(I)	~380-415V/50Hz/3Ph	10 × 2	5*1.5 × 2

OVERALL DIMENSIONS OF THE INDOOR UNIT

Model	A	В	С	D	Ε	F
CH-IBD20NM(I)	1334	632	990	1150	192	363
CH-IBD25NM(I)	1541	705	980	1350	270	420
CH-IBD30NM(I)	1541	705	980	1350	270	420
CH-IBD40N(2)M(I)	1730	760	1054	1450	360	560

Units: mm



OVERALL DIMENSIONS OF THE OUTDOOR UNIT

Model	A	В	С	D	Ε
CH-IBD20NM(0)	940	320	1430	632	350
CH-IBD25NM(0)	940	460	1615	610	486
CH-IBD30NM(0)	940	460	1615	610	486

Units: mm

Note: two outdoor units CH-IBD20NM(0) are connected to the indoor unit CH-IBD40N(2)M(I), which has a dual-circuit heat exchanger.



OIL-CATCHING LOOPS

The height difference between the outdoor and indoor units impairs the oil return process to the compressor. If the height difference between the outdoor and indoor units exceeds 10 m, it is necessary to install oil-catching loops on the gas pipe.



Accessories

Group	Name	Labeling	Appearance	W-house
	Infrared remote control	YAP1F7		ο
Pomotos and controllors	Standard wired controller	ХК46		•
Remotes and controllers	Standard new generation wired controller	XE7A-24/H		ο
	Communication controller (connection to key card)	LE60-24/H1		•
Central controllers	Central controller	CE52-24/F(C)		•
Infrared signal receiving panel		JS13		ο
Converters for converting internal bus signals to industrial protocols	Modbus gateway for connection to central control and signal conversion to Modbus RTU	ME30-24/E6(M) ME30-24/E7(M)	CH ZUDEMON Transformer	•
	Diagnostic converter	ME40-00/B		•
Diagnostic converters	Diagnostic controller	CE42-24/F(C)		•
	Diagnostic controller new	DE43-00/EF(CM)	0 (25) 0 0 0 0 0	•
	Diagnostic program for PC (debugger)	DE42-33/A(C)		•

Notes: • - In stock • - to order



MODEL LINE OF VENTILATION SYSTEMS

Serie	es	EASY VENT	WKEC	K2	(A) K4	KDC	KDC2	TKEC
Installation type		Through wall	Wall-mounted	Under ceiling	Under ceiling/ floor	Under ceiling	Under ceiling	Wall-mounted
Main data		w S D	w S D	D B	w S M	C D B	W S M D B	
Арр	ereance							C
	80	•						
	150		٠			٠	٠	
	200			•				
	250					•	•	•
	300			•				
	350					●	•	•
(h)	400			•				
le (m	500					•	•	•
olum	600			•				
flow	650					•	•	
Air	800			•		•	•	
	1000			•		•	•	
	1300			•				
	1500				•	•	•	
	2000				•	•	•	
	2500				•			
	3000				•			

- w Wi-Fi (optional module required). Easy Vent WF and WKEC heat exchanger series are supplied with built-in Wi-Fi.
 - Counterflow heat exchanger
- C D S M EC motor
 - Sensors: CO_2 or air quality (pm 2.5) sensor control, humidity
 - Modbus

В

Bypass

Note: Some features are optional and require the purchase of additional sensors, modules, etc. Please consult Cooper&Hunter engineers for advice.

WALL-MOUNTED HEAT RECOVERY UNIT EASY VENT



*CH-HRV070K2 WF (CO₂)

CL



WALL-MOUNTED RECUPERATOR



- Highly efficient ceramic heat accumulator.
- Two operating modes: Recovery mode, Ventilation mode.
- Easy installation and maintenance.

- Louvers that automatically close when the device is not in use to prevent drafts. Light indication of operating modes.
- Remote control.
- Wi-Fi control NEW!



REVERSIBLE FAN

Reversible axial fan with EC motor. Thanks to EC technology, economical power consumption and ultra-quiet operation are achieved. The motor is equipped with thermal protection against overheating and high-quality bearings, which increase the working life.

CERAMIC HIGH-EFFICIENCY REGENERATOR

The high-tech ceramic regenerator uses up to 97% of the heat of the exhaust air from the room. This allows you to significantly save resources for heating the supply air. Thanks to the unique design of the regenerator with a large heat exchange area, exceptional heat recovery rates are achieved. The regenerator material is covered with an antibacterial layer that prevents the formation of pests on the surface of the regenerator. The regenerator has a service life of up to 10 years.

DESIGN



OPERATION MODES

Ventilation mode. The fan operates on air exhaust or fresh air supply. In the case of synchronous operation of two devices, one operates on air exhaust, the other on fresh air supply.



Recuperation mode. The fan operates in stages every 75 seconds on the exhaust and supply air. This ensures heat exchange between the exhaust and supply air.

OPERATION PRINCIPLE

The reversible fan operation makes heat recovery possible in two cycles:



Cycle 1

Warm, dirty exhaust air is extracted from the room and passes through a ceramic regenerator, which accumulates the exhaust heat and humidity of the room. During these 75 seconds, the regenerator heats up and automatically switches to supply air mode.

Cycle 2

Fresh but cold air passes through the regenerator and accumulates heat, thus increasing the temperature of the supply air that is supplied to the room. Within 75 seconds, the regenerator cools down and the fan switches to exhaust mode, thus repeating the cycle.

OPERATION SCHEME



TECHNICAL SPECIFICATIONS





Technical data	Item	CH-HRV070K WF	CH-HRV070K2 WF (CO,)		
CO ₂ Sensor	-	No	Yes		
Wi-Fi	-	Yes	Yes		
Voltage	V	22	0-240		
Frequency	Hz	5	50/60		
Power	W	5.9/8.8/11.3	6/7/7.8		
Current rate	A	0.03/0.05/0.06	0.04/0.05/0.06		
RPM	-	1000/1550/1800	1000/1550/1800		
RPM (max)	-	2200	2200		
Airflow rate (L/M/H) supply/exhaust		26/55/64	34/56/70		
Airflow rate maximum	m³/h	70	70		
Sound pressure	dB(A)	36.7	32.7		
Heat recovery rate	%		97		
Safety class	-	IPX4			
Air duct connection	mm	158			
SEC	-	Class A			
Net weight	kg	3.4	4.2		



WALL-MOUNTED RECUPERATOR

- CO₂, temperature and humidity display
- Mode selection: Manual/Auto/Sleep
- Functional timer
- Convenient remote control

CH-HRV1.5WKEC

WALL-MOUNTED RECUPERATOR

		Îm	Ð		(z z z z z z z z z z z z z z z z z z z	(24h)	88.5	
	Smart functions	Manual control	Auto control	Remote control	Night mode	Timer	LED display	Filter H10
In «Auto» mode, the heat exchanger automatically adjusts the supply air capacity to the room, according to the CO_2 level.								

CO, Level	Condition	Velocity
CO₂ ≤ 500	Perfect	1
500 < CO₂ ≤ 650	Good	3
650 < C0, ≤ 800	Little dirty	5
CO ₂ > 800	Serious dirty	8





TECHNICAL SPECIFICATIONS

Model		CH-HRV1.5WKEC		
Capacity	m³/h	150		
Power supply		~220-240V/ 50Hz		
Filtration class	%	99		
Heat recovery rate	%	82		
Air duct connection	Mm	100		
Weight	Kg	10		
IP Class		IPX2		
Sound pressure	dB(A)	36		
Power consumption	W	35		
Dimensions (LxWxD)	mm	660×450×155		





SUPPLY AND EXHAUST VENTILATION SYSTEM WITH HEAT RECOVERY K2 SERIES






EFFICIENT VENTILATION

The ventilation unit supplies fresh outside air into the room while simultaneously removing exhaust air to the outside, thereby providing a feeling of natural comfort.



HIGH ENERGY SAVING RATE

The built-in cross-flow enthalpy recuperator returns thermal energy from the exhaust air to the supply air, thus recovering over 70% of the thermal energy.

SILENT DESIGN

The unit is designed according to a worldwide standard design and manufactured using precision pressed molds. The use of anechoic micro-perforation technology reduces noise levels.

AIR FILTRATION AND PURIFICATION

The internal air filter cleans the outside air from large particles such as fluff, animal hair, insects, plant seeds and other particles with a size of 0.4 microns. The filter in the exhaust part protects the recuperator from dust, increasing its service life.

BYPASS FUNCTION

The unit can bypass the exhaust air to the heat exchanger depending on the outside air temperature, creating a free cooling effect (cooling the room with outside air).

LOW AIR PERMEABILITY AND EASY MAINTENANCE

The recuperator is connected to the equipment by means of an internal press mold with special soft seals. It can be pulled out by hand and is easy to maintain. The fresh and exhaust air flows are completely separated.

CONTROL INPUTS AND OUTPUTS

The unit has the following external control elements:

- Control signal 220 V for electric heater of pre-heating (2 stages).
- Air damper control contact.
- Remote on/off dry contact.
- Dry contact of shutdown from the fire alarm signal.
- Alarm output signal of unit.
- Port for CO₂ sensor. The sensor is optional and must be purchased separately.
- Port for humidity sensor. The sensor is optional and must be purchased separately. To control the humidity sensor, a Touch Screen remote controller is required.
- RS485 port with Modbus protocol.
- Wi-Fi module connection port. The module itself is optional and purchased separately. Control via the SmartVent app.



Cooper

OVERALL DIMENSIONS

CH-HRV2K2





CH-HRV3~13K2

OA – inlet to the unit (intake) RA – extract air (exhaust) SA – supply air (inflow) FR (EA) – exhaust air (emission)

Model	L	L1	W	W1	W2	Н	H1	C	G	N
CH-HRV2K2	666	725	580	510	290	264	20	100	19	Ø 144
CH-HRV3K2	744	675	599	657	315	270	111	100	19	Ø 144
CH-HRV4K2	744	675	804	860	480	270	111	100	19	Ø 144
CH-HRV6K2	824	754	904	960	500	270	111	107	19	Ø 194
CH-HRV8K2	1116	1045	884	940	428	388	170	85	19	Ø 242
CH-HRV10K2	1116	1045	1134	1190	678	388	170	85	19	Ø 242
CH-HRV13K2	1129	1059	1216	1273	621	388	170	85	19	Ø 242

TECHNICAL SPECIFICATIONS

Model			CH-HRV2K2	CH-HRV3K2	CH-HRV4K2	CH-HRV6K2	/6K2 CH-HRV8K2 CH-HRV10K2 CH-HRV13K 700 900 1000				
		L	150	250	350	500	700	900	1000		
Air flow volume	(m³/h)	М	200	300	400	600	800	1000	1300		
		Н	200	300	400	600	800	1000	1300		
		L	60	75	80	89	92	80	75		
External pressu	re (Pa)	М	70	82	85	92	96	85	85		
		H	75	85	88	97	100	86	90		
		L	60	62	62	63	57	60	58		
	Summer	М	55	57	57	59	55	58	56		
Enthalpy		Н	55	57	57	59	55	58	56		
Efficiency (%)		L	63	65	65	67	63	64	62		
	Winter	М	59	61	60	61	57	62	59		
		H	59	61	60	61	57	62	59		
		L	75	73	74	76	74	76	76		
Temp. Eff.(%)		М	70	68	69	70	68	70	70		
		H	70	68	69	70	68	70	70		
		L	25	27	31	29	34	34	38		
Noise dB(A)		М	30	34	37	35	39	38	41		
		Н	31.5	34.5	37.5	39	41	42	43		
Power supply	rer supply ~220-240V/50Hz/1Ph										
Current (A)		0.5 0.56 0.72 0.96 1.7 2.1 3.							3.4		
Input power (W	nput power (W) 105 117 150 200 355 440 7							710			
Net weight (kg)			23	25	31	36	60	70	79		

PERFOMANCE CHART





SUPPLY AND EXHAUST VENTILATION SYSTEM WITH HEAT RECOVERY K4 SERIES







EFFICIENT VENTILATION

The ventilation unit supplies fresh outside air into the room while simultaneously removing exhaust air to the outside, thereby providing a feeling of natural comfort.

TWO VERSIONS OF CROSS-PRECISION RECUPEATOR WITH TEMPERATURE EFFICIENCY OVER 70%

CH-HRV__K4 - ventilation unit with enthalpy recuperator.

CH-HRV__AK4 – ventilation unit with aluminum recuperator. Condensate drainage from the unit's pan is provided.



SILENT DESIGN

The unit is designed according to a worldwide standard design and manufactured using precision pressed molds. The use of anechoic micro-perforation technology reduces noise levels.



AIR FILTRATION AND PURIFICATION

The internal air filter cleans the outside air from large particles such as fluff, animal hair, insects, plant seeds and other particles with a size of 0.4 microns. The filter in the exhaust section protects the recuperator from dust, increasing its service life.



LOW AIR PERMEABILITY AND EASY MAINTENANCE

The recuperator is connected to the equipment by an internal mold with special soft seals. It can be pulled out by hand and is easy to maintain. The fresh and exhaust air flows are completely separated.

CONTROL INPUTS AND OUTPUTS

The unit has the following external control elements:

- Control signal 220 V for electric heater of pre-heating (2 stages).
- Air damper control contact.
- Remote on/off dry contact.
- Dry contact of shutdown from the fire alarm signal.
- Alarm output signal of unit.
- Port for CO₂ sensor. The sensor is optional and must be purchased separately.
- Port for humidity sensor. The sensor is optional and must be purchased separately. To control the humidity sensor, a Touch Screen remote controller is required.
- RS485 port with Modbus protocol.
- Wi-Fi module connection port. The module itself is optional and purchased separately. Control via the SmartVent app.



Cool

OVERALL DIMENSIONS



Model	L	W	L1	W1	Н	W2	H1	K	В	BI	B2	Α	A1	A2	D	DI	D2	C	Cl	C2
CH-HRV15(A)K4	1250	1200	1300	1170	520	600	339	300	230	255	280	308	333	358	320	345	370	400	425	450
CH-HRV20(A)K4	1250	1200	1300	1170	520	600	339	300	230	255	280	308	333	358	320	345	370	400	425	450
CH-HRV25(A)K4	1524	1400	1574	1370	580	700	334	335	273	298	323	350	375	400	350	375	400	500	525	550
CH-HRV30(A)K4	1624	1500	1674	1470	650	750	400	405	285	310	335	373	398	423	350	375	400	500	525	550

TECHNICAL SPECIFICATIONS

Model		CH-HRV15K4 CH-HRV15AK4 CH-HRV20K4 CH-HRV20AK4 CH-HRV25K4 CH		CH-HRV25AK4	CH-HRV30K4	CH-HRV30AK4				
Air flour volum		L	1000		12	00	20	000	25	500
All HOW VOIUII (m^3/h)	le	М	15	00	20	00	2	500	3(000
(1171)		Н	15	00	20	00	2	500	3(000
		L	{	34	110		140		150	
External pres	sure (Pa)	М	1	35	132		170		180	
		Н	1	63	1	76	2	00	2	10
		L	69	-	65	-	64	-	63	-
Fash alars	Summer	М	66	-	62	-	61	-	60	-
Enthalpy		Н	66	-	62	_	61	-	60	-
(%)		L	74	-	73	-	72	-	71	-
(70)	Winter	М	70	-	71	-	70	-	69	-
		Н	70	-	71	-	70	-	69	-
		L	74	76	74	76	73	74	73	74
Temp. Eff.(%))	М	71	74	71	74	70	72	70	72
		Н	71	74	71	74	70	72	70	72
		L	L	46	L	19		50		51
Noise dB(A)		М	L	49	Ę	51		52	,	54
	-	Н	ļ	51	Ę	53		55		57
Power supply						~220-240V	/50Hz/1Ph			
		L	2	2.3	3	.0	l	4.5	(5.5
Current (A)		М	Z	5.6	4	.6	(5.0	{	3.7
		Н	3	.8	4	,8	(5.3	Ģ	2.0
		L	4	85	6	50	ς	40	1/	+00
Input power (W)	М	7	40	9	80	1250		18	370
		Н	7	85	10	20	1300		1950	
Net weight (kg)		110	114	112	116	130 142		142	155	

PERFOMANCE CHART

CH-HRV15K4 (CH-HRV15AK4)



CH-HRV25K4 (CH-HRV25AK4)



Enthalpy

eff. (heating)

Enthalpy

eff. (cooling)

CH-HRV30K4 (CH-HRV30AK4)



Medium

High

Temperature eff.

Low



SUPPLY AND EXHAUST VEN-TILATION SYSTEM WITH EN-ERGY RECOVERY **KDC SERIES** -<u>_</u>





DC MOTOR

Thanks to DC fan motors, maximum energy efficiency is achieved across the entire speed range. The user has access to 10 speeds for the supply and exhaust fans.

EFFICIENT VENTILATION

The ventilation unit supplies fresh outside air into the room while simultaneously removing exhaust air to the outside, thereby providing a feeling of natural comfort.

HIGH ENERGY SAVING RATE

The built-in high-efficiency counter-flow recuperator returns heat energy from the exhaust air to the supply air, thus recovering over 82% of the heat energy.

SILENT DESIGN

The unit is designed according to a worldwide design and manufactured using precise compression molds. The use of anechoic micro-perforation technology reduces noise levels. In combination with DC motors, this series is characterized by the lowest noise levels.

AIR FILTRATION AND PURIFICATION

The internal air filter cleans the outside air from large particles such as fluff, animal hair, insects, plant seeds and other particles of 0.4 microns in size. The filter in the exhaust section protects the recuperator from dust, increasing its service life.

BYPASS FUNCTION

The unit can bypass the exhaust air to the heat exchanger depending on the outside air temperature, creating a free cooling effect (cooling the room with outside air).

LOW AIR PERMEABILITY AND EASY MAINTENANCE OF THE RECUPERATOR

The heat exchanger is connected to the equipment by an internal mold with special soft seals. It can be pulled out by hand and is easy to maintain. The fresh and exhaust air flows are completely separated.

CONTROL INPUTS AND OUTPUTS

The unit has the following external control elements:

- Control signal 220 V for the pre-heating electric heater (2 stages);
- Air damper control contact; .
- Dry contact of remote on/off;
- Dry contact of shutdown from the fire alarm signal;
- Alarm output signal of unit; •
- Port for CO, sensor.*
- Port for humidity sensor.* (Touch Screen remote control required for humidity sensor • control).
- RS485 port with Modbus protocol. Modbus is not available on models 15 and 20.
- Wi-Fi module connection port. The module itself is optional and purchased separately. Control via the SmartVent app.

* The sensor is optional and must be purchased separately.













Coope

OVERALL DIMENSIONS



Model	L	L1	W	W1	W2	Н	H1	C	G	N
CH-HRV1.5KDC	808	867	580	510	290	264	20	100	19	Ø 144
CH-HRV2.5KDC	882	810	599	657	315	270	111	100	19	Ø 144
CH-HRV3.5KDC	882	810	804	860	480	270	111	100	19	Ø 144
CH-HRV5KDC	962	890	904	960	500	270	111	107	19	Ø 194
CH-HRV6.5KDC	1222	1150	884	940	480	340	146	107	19	Ø 194
CH-HRV8KDC	1322	1250	884	940	428	388	170	85	19	Ø 242
CH-HRV10KDC	1322	1250	1134	1190	678	388	170	85	19	Ø 242
CH-HRV15KDC	1322	1250	884	940	428	785	170	150	19	280×650
CH-HRV20KDC	1322	1250	1134	1190	678	785	170	150	19	280×650

TECHNICAL SPECIFICATIONS

Model		ltem	CH- HRV1.5KDC	CH- HRV2.5KDC	CH- HRV3.5KDC	CH- HRV5KDC	CH- HRV6.5KDC	CH- HRV8KDC	CH- HRV10KDC	CH- HRV15KDC	CH- HRV20KDC
Air flow volum	е	m³/h	150	250	350	500	650	800	1000	1500	2000
Energy	Heating	0/	70-76	70-75	69-75	67-75	68-73	71-77	71-78	71-77	71-78
efficiency rate	Cooling	70	63-70	63-73	66-72	62-74	62-70	65-74	65-74	65-74	65-74
Thermal efficie	ency rate	%	75-82	75-82	75-84	75-86	75-84	75-84	75-85	75-84	75-85
Sound pressur	е	dB(A)	31.5	34.5	37.5	39	39.5	42	43	50	51.5
Power supply		V/Hz/Ph		-	-	~22	0-240V/50Hz/	′1Ph	-	-	-
Output power		W	26	46	60	88	114	186	243	372	486
Weight		kg	25	29	37	43	64	71	83	165	189
Dimensions (W	/xHxD)	mm	580×264×808	599×270×882	804×270×882	904×270×962	884×340×1222	884×388×1322	1134×388×1322	884×785×1322	1134×785×1322

Efficiency (%)

PERFOMANCE CHART









SOUND PRESSURE DB(A)

Madal	Speed												
Model	1	2	3	4	5	6	7	8	9	10			
CH-HRV1.5KDC	21.0	22.2	23.3	24.5	25.7	26.9	28.0	29.2	30.4	31.5			
CH-HRV2.5KDC	23.0	24.3	25.5	26.8	28.1	29.4	30.6	31.9	33.2	34.5			
CH-HRV3.5KDC	25.0	26.4	27.8	29.1	30.5	31.9	33.3	34.7	36.0	37.5			
CH-HRV5KDC	26.0	27.4	28.9	30.3	31.8	33.2	34.6	36.1	37.5	39.0			
CH-HRV6.5KDC	26.3	27.8	29.3	30.7	32.2	33.6	35.1	36.6	38.0	39.5			
CH-HRV8KDC	28.0	29.6	31.1	32.7	34.2	35.8	37.3	38.9	40.4	42.0			
CH-HRV10KDC	28.7	30.2	31.8	33.4	35.0	36.6	38.1	39.7	41.3	43.0			
CH-HRV15KDC	33.3	35.2	37.0	38.9	40.7	42.6	44.4	46.3	48.1	50.0			
CH-HRV20KDC	34.3	36.2	38.2	40.1	42.0	43.9	45.8	47.7	49.6	51.5			

SUPPLY AND EXHAUST VENTILATION SYSTEM WITH ENERGY RECOVERY KDC2 SERIES







■ FEATURES

- 5th generation enthalpy heat exchanger with increased energy efficiency, up to 87%;
- DC motor in plastic casing, 10 airflow control speeds;
- Supply and exhaust air purification with G3 class filter;
- Automatic bypass;
- Two types of installation side connections for fresh and exhaust air;
- Remote control system via Wi-Fi via Android/ IOS application (optional).

DESING Pilter DC fan DC fan Sth generation heat exchanger DC fan DC fan Spigot Spigot

CASE

- Fan casing provides better insulation, airtightness and reduces noise
- Fans are mounted in the middle for greater stabilization of the airflow to have better heat transfer efficiency.

FLEXIBLE CONNECTION

Two connection options are available

- Parallel air flow (standard)
- Side connections for fresh air and exhaust air.

t EA



EA OA CA RA RA RA CA RA CA

■ 5TH GENERATION HEAT EXCHANGER

- New ER paper with up to 87% higher heat exchange efficiency.
- The enthalpy heat exchanger returns heat and moisture from the exhaust air to the supply air, reducing heating and humidification costs.
- The heat exchanger materials are mold resistant
- The integrated structure has better air tightness.







Coop

OVERALL DIMENSIONS

CH-HRV1.5~10KDC2





Model	L	L1	W	W1	W2	Н	H1	C	G	N
CH-HRV1.5KDC2	780	819	610	594	450	289	78	53	Ø 95	Ø 110
CH-HRV2.5KDC2	780	819	735	719	526	289	78	58	Ø 144	Ø 160
CH-HRV3.5KDC2	884	922	874	958	650	331	81	58	Ø 144	Ø 160
CH-HRV5KDC2	884	922	1016	1000	750	331	81	61	Ø 195	Ø 211
CH-HRV6.5KDC2	908	947	954	935	692	404	71	61	Ø 195	Ø 211
CH-HRV8KDC2	1144	1182	1004	986	690	404	82	62	Ø 244	Ø 261
CH-HRV10KDC2	1144	1182	1231	1213	917	404	82	62	Ø 244	Ø 261
CH-HRV15KDC2	1144	1182	1004	986	690	808	82	108	248*668	-
CH-HRV20KDC2	1144	1182	1231	1213	917	808	82	108	248*668	-

TECHNICAL SPECIFICATIONS

Model		ltem	CH- HRV1.5KDC2	CH- HRV2.5KDC2	CH- HRV3.5KDC2	CH- HRV5KDC2	CH- HRV6.5KDC2	CH- HRV8KDC2	CH- HRV10KDC2	CH- HRV15KDC2	CH- HRV20KDC2
Air flow volu	me	m³/h	150	250	350	500	650	800	1000	1500	2000
Energy	Heating		73–79	70-83	72-84	69-83	69-82	71-82	73-87	72-82	73-87
efficiency rate	Cooling	%	71–79	68-83	71-82	67-82	66-81	70-81	71-86	71-81	71-86
Thermal effic	iency rate	%	80-84	79-86	80-89	78-87	77-86	79-85	80-90	80-85	80-90
Sound pressu	Jre	dB(A)	29	28	32	34	35	35	37	39	40
Power supply	/	V/Hz/Ph		-			220-240/1/50		-		
Output powe	r	W	58	62	140	165	252	335	420	670	850
Weight		kg	20	23	30	33	38	48	54	98	112
Dimensions (WxHxD)	mm	780×289×610	780×289×735	884×331×874	884×331×1016	908×404×954	1144×404×1004	1144×404×1231	1144×808×1004	1144×808×1231

PERFOMANCE CHART







Standard and optional controllers









Controller				LH-13	001	LH-13001
Туре		Custon	n control*			Centralized control of up to 16 units of ventilation systems*.
Air handling series	KDC2	K2, KDC	K4	K2, KDC	K4	K2, K4, KDC
Temperature indication	0A/RA/SA/FR	0A/RA/	'SA/FR	0A/RA/	'SA/FR	OA/RA/SA/FR
Different Velocities	•)	•)	•
Weekly timer	•)	•)	•
By-pass	Auto	Auto	0	Auto	0	Custom control
External switch ON/OFF	•)	•)	Custom control
Auxiliary heater control	•	•)	•)	•
Stop-freezing	•))	Custom control
Control by CO ₂	•)	•)	Custom control
Filter cleaning indication	•))	•
Fault signalization	•	•))	•
Saving settings	•))	•
Nighttime period time direct cooling (free cooling)	•	•	0	•	0	Custom control
BMS integration (Modbus)	•	•))	•
Control by humidity sensor %	•)	C)	Custom control
Heater control for frost protection	•	•)	•)	Custom control

) : Not Available • : Available

* Note: The remote control program for K2(4) and KDC is different. When ordering the control panels, always specify the installation series.

Individual control – a function that operates from an individual controller OA – inlet to the unit (intake)

RA – extract air (exhaust) SA – supply air (inflow) FR (EA) – exhaust air (emission)

INDOOR AIR QUALITY MONITORING

Monitor local weather, temperature, humidity, CO, concentration, air quality to lead a healthy lifestyle. FLEXIBLE SETTINGS

Changing the main parameters of the filter speed/temperature/bypass/timer/alarm.

LANGUAGE OF CHOICE

Available languages: English/French/Italian/Spanish.

GROUP CONTROL Single Smart Vent app can control multiple devices.





VERTICAL SUPPLY-EXHAUST UNIT WITH ENERGY RECOVERY





MAIN CHARACTERISTICS



- Compact design.
- 4 operation modes
- Automatic CO₂ control
- Air duct connection from above
- Counterflow heat exchanger
- Heat recovery efficiency up to 95%
- DC fan
- «Bypass» function
- Control on the casing + remote control (optional)
- Left or right installation type
- Wi-Fi control (optional)





CONTROL FUNCTIONS



DESIGN



FLEXIBLE INSTALLATION

The right/left installation type can be configured on site according to site requirements.





OA – inlet to the unit (intake) RA – exhaust air (exhaust) SA – supply air (inflow) FR (EA) – exhaust air (exhaust)

PERFOMANCE CHART







CH-HRV2.5TKEC										
N⁰	Air flow rate (m³/h)	P (Pa)	N (W)	SFP*(W/l/sec)						
1	250	100	128.0	0.14						
2	250	50	110.0	0.12						
3	175	100	78.5	0.12						
4	175	50	62.0	0.10						
5	80	100	41.3	0.14						
6	80	50	31.0	0.11						

CH-HRV3.STKEC										
N⁰	Air flow rate (m³/h)	P (Pa)	N (W)	SFP*(W/I/sec)						
1	350	100	267.3	0.21						
2	350	50	260.0	0.21						
3	245	100	128.0	0.15						
4	245	50	106.0	0.12						
5	100	100	43.8	0.12						
6	100	50	34.0	0.09						

CH-HRV5TKEC						
N⁰	Air flow rate (m³/h)	P (Pa)	N (W)	SFP*(W/I/sec)		
1	500	100	399.0	0.22		
2	500	50	380.0	0.21		
3	350	100	209.3	0.17		
4	350	50	155.0	0.12		
5	105	100	60.9	0.16		
6	105	50	30.0	0.08		

Airflow (m3/h) * SFP (indicator of power ventilation pressure) includes the energy consumption of fans and heating circuit boards.



TECHNICAL SPECIFICATIONS

Model		CH-HRV2.5TKEC	CH-HRV3.5TKEC	CH-HRV5TKEC		
Power supply	V/Hz/Ph	230/1/50				
Air flow volume	m³/h	250	350	500		
External static pressure	Pa	130	150	160		
Temperature efficiency rate	%	85	85	85		
Heat recovery rate	%	90	87	88		
Power input	W	137	272	412		
Current input	A	1.5	2.4	3.2		
Operating range (with heater)	°C	-25+40				
Operating range (no heater)	°C	-10+40				
Case material		Galvanized steel				
Isolation		Foam polypropylene				
Filter class		G4				
Connection diameter	mm	160	160	200		
Sound pressure*	dB(A)	35	37	39		
Energy efficiency grade		А+	А	А		
Weight	kg	40	40	50		

Note: This noise level is measured at 70% of maximum air flow and 50 Pa static pressure.

OVERALL DIMENSIONS

CH-HRV2.5TKEC, CH-HRV3.5TKEC



YOUR HOME CLIMATE IS IN YOUR HANDS WITH THE APP **SMART LIFE**

■ WI-FI FUNCTION

The Wi-Fi function is available to control and monitor the ventilation system from anywhere in the world using a smartphone. The user can monitor the air quality in the room.

■ INDOOR AIR QUALITY MONITORING

Keep track of local weather, temperature, humidity, CO_2 concentration — an important element of a healthy lifestyle is in your hands.

OWN SCENARIOS

The user can create scenarios according to weather changes, schedules, or device status changes.

For example, when the weather shows that the relative humidity outside is over 85%, the user can set the fan to stop to prevent outside moisture from entering the house. The device will operate according to the settings automatically.

GROUP CONTROL

Multiple devices can be controlled with one app. The user can easily control a group of ventilation units. Connect to other devices using Tuya Smart.

■ CONNECTION WITH OTHER SMART DEVICES

Add devices from the Tuya app to your home screen. For example, you can add air conditioners, exhaust fans, light switches, etc. to the app and control them through a single app.





SMART LIFE APP

Available on Google Play Market and App Store.











■ GROUP CONTROL

Using the APP, you can combine an unlimited number of units and manage groups or all units simultaneously.







CONTROL SCENARIOS

The user can create a scenario according to the weather change, schedule or device status change. For example, when the relative humidity outside exceeds 85%, the user can set the fan to stop to prevent the outside moisture from entering the room.

■ SMART HOME

Users can add devices to the Tuya APP on the home screen. For example, you can add all the fans for individual rooms, exhaust fans or light switches and control them from one app.







HEAT PUMPS





* Cooper&Hunter is constantly striving to improve its products and the information in this manual is subject to change without notice.