

AMAZON

Industrial VRF Range

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AMAZON

Industrial VRF Range

The broadest product range on the market

Within the world of air-conditioning, the variable refrigerant flow systems (VRF) are the most versatile in terms of installation possibilities and technological innovation. Thanks to the DC Inverter technology, which varies the frequency of the compressor motor and fan motor of the outdoor unit depending on the total required load, and thanks to electronic expansion valves (both in the outdoor and the indoor units), which regulate the flow of refrigerant depending on the load required for each area, higher levels of efficiency and superior energy savings are achieved. The installation distances available are among the longest in the market, reaching up to 200 meters of equivalent length between the outdoor unit and the farthest indoor unit.

The possibilities of the indoor units are endless, not only for the different models available, but also for their power range, which is so wide that it covers from 1.7 kW to 56 kW and allows for installing up to 64 indoor units in the same cooling circuit. The independent control of indoor units allows each user to choose its own comfort level without interfering with the rest of users.

Our wide range of controllers provides end-user with many options to define its level of comfort. They allow installing from a simple individual control (wireless or wired), a centralised control, a computer control and even the possibility of managing the installation from a comprehensive building management system BMS (LONWORKS, MODBUS, BACNET and KNX).

AMAZON TOP DISCHARGE DN4S & DN5S (2 PIPES)

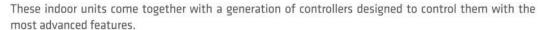
- From 28 to 90 kW
- Up to 64 indoor units
- · Up to 150% simultaneity
- Autoaddresing
- XYE port to connect a centralised control for indoor units





INDOOR UNITS

KAYSUN present his range of indoor units with new features. All of those units are equipped with DC fan motor with 7 fan speeds and a better regulation of his EXV to improve the comfort of the users. These developments provide units with a much more accurate control, and greater output and energy savings, and it reduces sound (low) pressure.





WALL-MOUNTED



- BUILT-IN EXV VALVE
- INTERACTIVE DISPLAY
- LOW SOUND LEVELS

DUCTS



- STATIC PRESSURE ADJUSTMENT WITH THE WIRED CONTROLLER
- REAR/LOWER OUTLET PANEL
 - FRAMES INCLUDE FOR AIR SUPPLY
 DUCT AND AIR RETURN DUCT

CASSETTE ART FLUX 360° (600x600)



- 360° AIRFLOW
- DRAIN PUMP AS STANDARD

HIGH PRESSURE DUCTS



- HIGH AIRFLOW
- WIDE POWER RANGE

CASSETTE ART FLUX 360°



- 360° AIRFLOW
- FRESH AIR SUPPLY
- DRAIN PUMP AS STANDARD

CEILING/FLOOR



- AIR FLOW DISTRIBUTION UP TO 8 METERS
- DOUBLE INSTALLATION



HIGH INVERTER TECHNOLOGY

The design of the Scroll DC Inverter compressor is based on the highest technology available.

With a more compact structure, this compressor provides maximum outputs, increases efficiency and reduces power consumption when the system is working at partial loads.

The compressor, which has been optimized for using R410A ecological refrigerant, has received the highest energy classification for both cooling and heating operation - EER and COP.

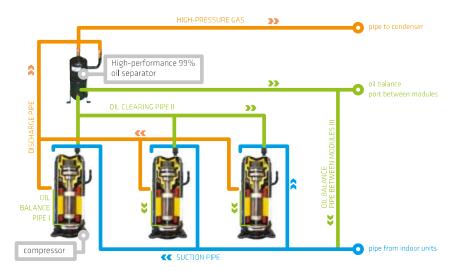
Speed in direct current can be adjusted and results in energy savings of up to 25%, more than any other conventional equipment on the market.



>> Compensation Technology For Oil Distribution

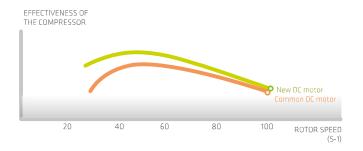
Outdoor units ensure individualised control and homogeneous distribution of oil between modules so that the compressor is able to provide a smooth and reliable performance. The oil balance and outlet pipes send the compressor's remaining oil to a system that will distribute it uniformly to the other compressors.

The oil centrifuge separator, is capable to work with an efficiency over 99%, by sending oil to the compressors on time and effectively in order to ensure that they have the correct amount of oil. This system is designed to extend the working life of KAYSUN units' compressors as much as possible.



>> Centralised Winding

The DC Inverter compressor's technology used in KAYSUN's AMAZON units, are fitted with centralised winding instead of distributing winding. This type of winding consists of very powerful magnets that allow for increasing the force of rotation and therefore, the compressor's effectiveness.



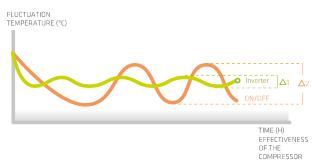


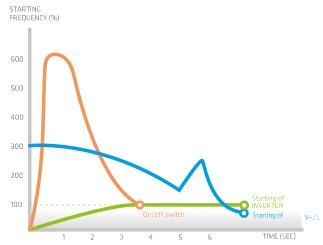


>> Smart Soft-Starter Technology

DC INVERTER compressors characterise by a soft, low frequency and low power consumption starter. This reduces the risk of overloading the power grid and prevents excessive consumption peaks during outdoor unit starting.

 $(\mbox{\ensuremath{^{\prime\prime}}})$ Comparison between starting with an inverter starter and with a conventional starter.



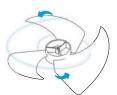




Our units are extremely quiet and efficient thanks to their DC Inverter fan, which allows for reducing noise level from 2-5 dB (A) and increases the airflow from 1000 to 4000 m³/h.



The new helical shape of the fun's blades supplies a large volume of air whilst reducing vibrations and resistance to a minimum.



OPTIMISED AIRFLOW OUTLET

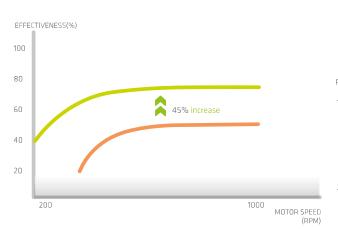
The efficiency of the fan's airflow has been improved thanks to the fan's design. This, in combination with the DC Inverter motor, allows for a static pressure increase of up to 60 Pa, a pressure loss decrease and a 10% optimization of the airflow.



DC INVERTER MOTOR

The fan's DC Inverter motor consumes minimal energy since the fan speed can be regulated depending on the power demand and the operating pressure of the cooling circuit.









EASY INSTALLATION AND MAINTENANCE

The outdoor units design allows for an easy installation and maintenance. The electrical box includes an inspection window in the main electronic board that allows for a straightforward access from outside the equipment. The compressor is located just opposite the electric box to make access easier when its replacement is required.

)) Working Range

Thanks to the new DC Inverter technology, the AMAZON range offers increased operability for cooling and heating modes within a much larger working range, thereby ensuring a perfect air-conditioning control during all seasons of the year.



 For further information on AMAZON V for other ranges, please check temperature tables.

)) Auto-address of the Indoor Units

There are two address setting options for indoor units:

Automatic: Using a dip switch of the outdoor unit (deactivated by default), the outdoor unit automatically distributes the address to the indoor units with no manual adjustment.

Manual: The address of all indoor units can be consulted and modifier using the wireless controller or the wired controller.

OU DIP SWITCH Wall-mounted No 2 Undoor UNIT INDOOR UNITS Wall-mounted No 2 Wall-mounted No 2 Wall-mounted No 2

)) Modules Automatic Redundancy

AMAZON's intelligent control system, defines the boot priority of the module according to the system load, and balances its operating time to optimise reliability and working life of the unit.

)) Exchanger Optimization

The exchanger for the AMAZON V has a new structure that optimize the structure of the rows, in a delta shape, that improve the cooling and the subcooling, giving more efficiency to the whole system.

)) Operating mode locking function (2 pipes)

From a switch located at the outdoor unit's electronic board, user may select 6 different operating modes for the cooling system:

- 1. Heating mode priority (default).
- 2. Cooling mode priority.
- 3. Cooling mode only.
- 4. Heating mode only.
- 5. Unit addressed as no. 63 determines the operating mode.
- Those units with the same operating mode forming a majority shall determine the operation mode of the whole system.

)) Centralised Controller Wiring

All AMAZON systems have an XYE port in the outdoor unit, allowing the three wires of the centralised control cable between the indoor units to be dispensed with. This means that it is possible to connect directly to the XYE port.





A NOD TO ENVIRONMENT

)) Working Range

The AMAZON units have one of the highest energy efficiency ratings in the market, with very high SEER, SCOP, EER and COP scores. Furthermore, since outdoor units are modular, units with the best SEER/SCOP scores can be combined to provide higher energy efficiency in facilities that require large cooling capacity.

)) Ecological Design

Kaysun not only offers the most technologically advanced products of the market, but also makes every single effort to produce them under the strictest ecological standards in order to ensure a minimal negative impact on the environment.



)) R-410A Refrigerant

The Amazon system uses the environmentally-friendly refrigerant R410A, which, in addition to having high efficiency and energy savings it is characterised for being respectful of the ozone layer and helps us to reduce the impact on the environment.



ECOLOGICAL DESIGN

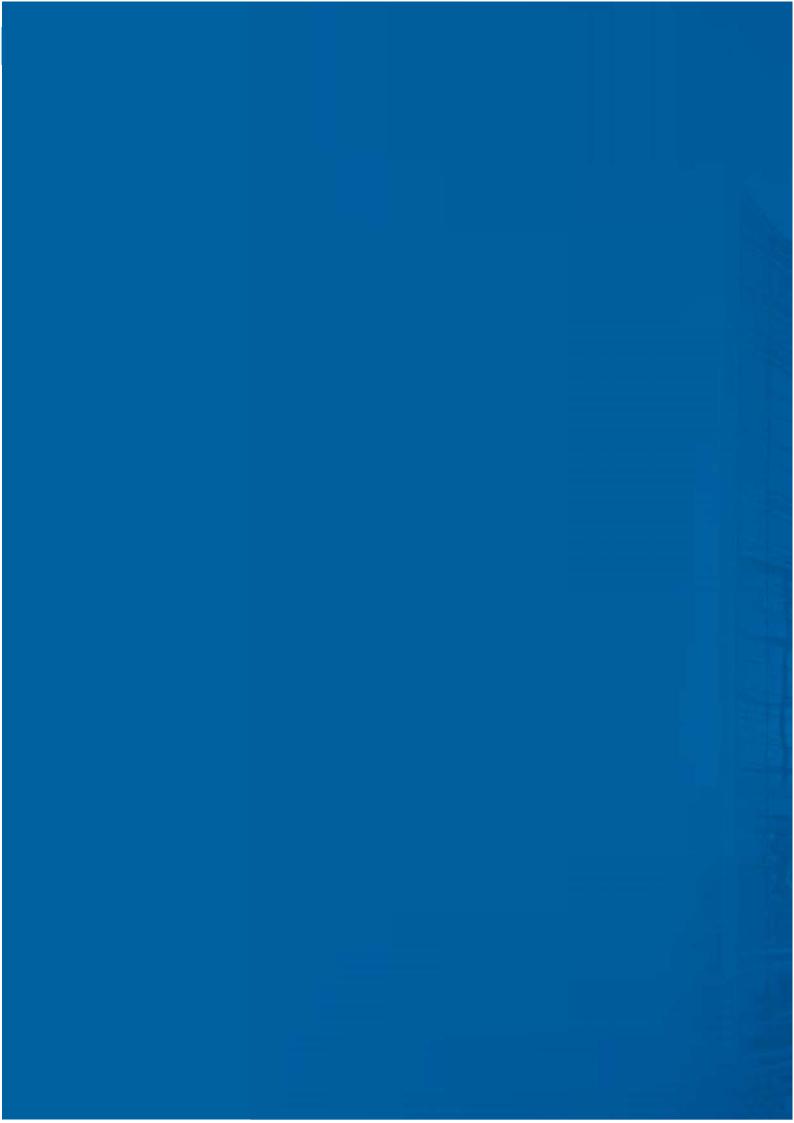


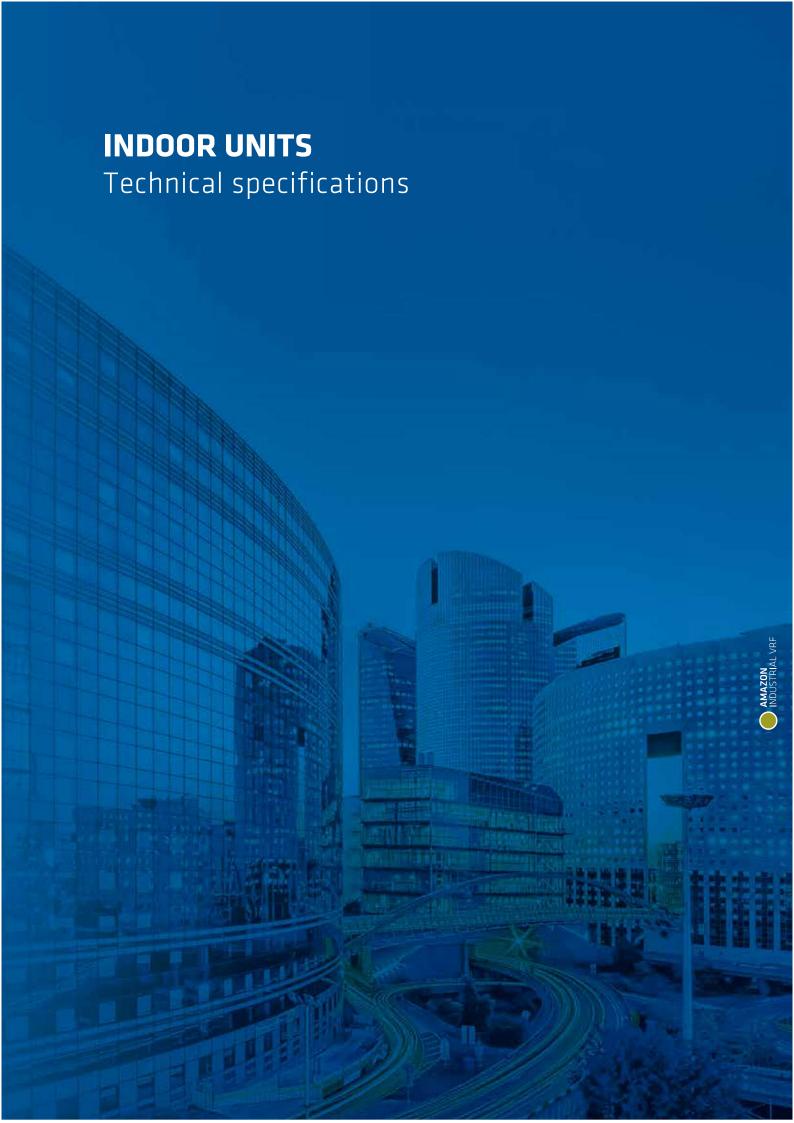
92% RECYCLABLE



ENERGY SAVING







•• INDOOR UNITS RANGE

POWER kW 1.7 2.2 2.8 3.6 4.5 5.2

WALL-MOUNTED (Page 166)

NEW

KAYF-17 DN4.0 KAYF-22 DN4.0 KAYF-28 DN4.0 KAYF-36 DN4.0 KAYF-45 DN4.0

DOUBLE FLOW CONSOLE (Page 168)

KSDF-28 DN4.0 KSDF-36 DN4.0 KSDF-45 DN4.0

FLOOR STANDING EXPOSED/CONCEALED (Page 170)

CEILING / FLOOR (Page 172)

ONE WAY CASSETTE (Page 174)

KCOF-22 DN4.0 KCOF-36 DN4.0

CASSETTE ART FLUX 360° (600x600) (Page 176)

NEW NEW

KCIF-17 DN4.0 KCIF-22 DN4.0 KCIF-28 DN4.0 KCIF-36 DN4.0 KCIF-45 DN4.0 KCIF-52 DN4.0

CASSETTE ART FLUX 360° (Page 178)

DUCTS (Page 180)

KAHU (Page 184)

NEW

KPDF-17 DN4 0 KPDF-27 DN4 0 KPDF-28 DN4 0 KPDF-36 DN4 0 KPDF-45 DN4 0

POWER kW 2.2 7.1 9.0 11.2 14.0 16.0

HIGH PRESSURE DUCTS (Page 182)

KPDHF-71 DN4.0 KPDHF-90 DN4.0 KPDHF-112 DN4.0 KPDHF-140 DN4.0 KPDHF-160 DN4.0

2000 FE 21

5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0
KAYF-56 DN4.0		KAYF-80 DN4.0					
KS(E)F-56 DN4.0	KS(E)F-71 DN4.0						
KPCF-56 DN4.0			KPCF-90 DN4.0				KPCF-140 DN4.0
	KCOF-71 DN4.0						
VCIED EC DNA 0	VCIED 71 DNA 0	VCIED OO DNA O		KCIFB-100 DN4.0	VCID 112 DNA 0		VCIE 140 DNA 0
KCIFB-56 DN4.0	KCIFB-71 DN4.0	KCIFB-80 DN4.0		KCIFB-IUU DN4.U	KCIB-112 DN4.0		KCIF-140 DN4.0
KPDF-56 DN4.0	KPDF-71 DN4.0	KPDF-80 DN4.0	KPDF-90 DN4.0		KPDF-112 DN4.0		KPDF-140 DN4.0
20.0	25.0	28.0	36.0	40.0	45.0	50.0	56.0
20.0	23.0	2010	30.0	7010	7310		30.0
KPDHF-200 DN4.0	KPDHF-250 DN4.0	KPDHF-280 DN4.0		KPDHF-400 DN4.0	KPDHF-450 DN4.0		KPDHF-560 DN4.0
		KAHU-360,3			КАНИ-:	560.3	

WALL-MOUNTED

GENERAL CHARACTERISTICS

Wall-mounted unit keeps using the most advanced technology in the market, equipped with a new electronically control like 0.5°C control temperature, more precise control of the expansion valve and DC fan motor with 7 speeds control. The unit maintains the same aesthetics like the before version, including the LED display with operation information located in the centre of the front panel.

- · Low noise level, creating a peaceful and comfortable atmosphere.
- · The swing angle of the louvers may reach up to 90°.
- · Built-in expansion valve.
- · ON/OFF dry contact and 220V alarm signal output.
- · 7 speeds DC fan motor
- · Left inlet for installation pipes (front view)
- 0.5°C temperature control
- · EXV control more comfortable



TECHNICAL SPECIFICATIONS

NEW

MODEL Cooling capacity rated kW			KAYF-17 DN4.0	KAYF-22 DN4.0	KAYF-28 DN4.0	KAYF-36 DN4.0	KAYF-45 DN4.0	KAYF-56 DN4.0	DN4.0
		kW	1.7	2.2	2.8	0.6	4.5	5.6	8
Heating capa	city rated	kW	2.2	2.4	3.2	4	5	6.3	9
Power input		W	28	28	28	30	40	45	55
	Air flow 7 speeds	m³/h	356 / 368 / 378 / 385 / 393 / 402 / 411	356 / 368 / 380 / 393 / 402 / 411 / 422	316 / 338 / 353 / 370 / 386 / 402 / 417	488 / 515 / 544 / 573 / 591 / 628 / 656	424 / 450 / 478 / 507 / 535 / 563 / 594	547 / 578 / 613 / 648 / 685 / 713 / 747	809 / 875 / 940 / 1005 / 1065 / 1130 / 1195
	Sound pressure 7 speeds	dB(A)	29 / 29 / 29 / 30 / 30 / 30 / 31	29 / 29 / 29 / 30 / 30 / 30 / 31	29 / 29 / 29 / 30 / 30 / 30 / 31	30 / 30 / 31 / 31 / 32 / 32 / 33	31 / 31 / 32 / 33 / 33 / 34 / 35	34 / 34 / 35 / 36 / 36 / 37 / 38	36 / 37 / 38 / 39 / 42 / 43 / 44
Indoor unit	Width/height/ depth	mm	835 / 280 / 203	835 / 280 / 203	835 / 280 / 203	990 / 315 / 223	990 / 315 / 223	990 / 315 / 223	1194 / 343 / 262
	Net weight	kg	8.4	8.4	9.5	11.4	12.8	12.8	17
	Power supply	V/ph/ Hz	220/1/50	220- 240/1/50	220- 240/1/50	220- 240/1/50	220- 240/1/50	220- 240/1/50	220- 240/1/50
	Power wiring	mm²	(2+T)x2.50						
Shielded communication wiring mm		mm²	2x1.50	3x1.50	3x1.50	3x1.50	3x1.50	3x1.50	3x1.50
Refrigerant	Liquid/gas pipe diameter	inch	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"







LOW SOUND LEVEL







KI-03 S RECOMMENDED

CONTROLLERS

For further information, please see our Controllers Range

WIFI







KCT-03 SRPS



DOUBLE FLOW CONSOLE

GENERAL CHARACTERISTICS

With a modern and cutting-edge design, the consoles can be gracefully incorporated into any space. Their reduced depth provides the unit with an external flexible design that adapts to every installation. This model is equipped with a new electronically control that incorporates 0.5°C control temperature, more precise control of the expansion valve and DC fan motor with 7 speeds control.

- Thanks to their four return air inlets and two outlets, the unit reach the selected temperature much faster.
- 7 speeds DC fan motor
- Low starting power and precise room temperature adjustment.
- The electronic expansion valve is integrated inside the indoor unit.
- 0.5°C temperature control
- EXV control more comfortable
- Can be able to use in low wall mounted installations
- ON/OFF dry contact and 220V alarm signal output.

COMPATIBLE WITH



MINI AMAZON II 2 PIPES see pag. 192-194



AMAZON UNITARIO 2 PIPES





AMAZON V 2 PIPES see pag. 202-204



AMAZON III W 2 PIPES



AMAZON III PRO 3 PIPES see pag. 210

TECHNICAL SPECIFICATIONS

MODEL			KSDF-28 DN4.0	KSDF-36 DN4.0	KSDF-45 DN4.0
Cooling capacit	ry rated	kW	2.8	3.6	4.5
Heating capaci	ty rated	kW	3.2	4	5
Power input		W	20	25	35
	Air flow 7 speeds	m³/h	229 / 286 / 355 / 430 / 456 / 482 / 510	229 / 286 / 355 / 430 / 456 / 482 / 510	400 / 436 / 478 / 512 / 561 / 614 / 660
	Sound pressure 7 speeds	dB(A)	27 / 29 / 31 / 33 / 35 / 37 / 39	27 / 29 / 31 / 33 / 35 / 37 / 39	36 / 36 / 37 / 39 / 40 / 41 / 42
Indoor unit	Width/height/depth	mm	700 / 600 / 210	700 / 600 / 210	700 / 600 / 210
	Net weight	kg	15 15		15
	Power supply	V/ph/ Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Power wiring mm ²		(2+T)x2.50	(2+T)x2.50	(2+T)×2.50
Shielded comm	nunication wiring	mm²	3x1.50	3x1.50	3x1.50
Refrigerant Liquid/gas pipe diameter		inch	1/4" / 1/2" 1/4" / 1/2"		1/4" / 1/2"











ACCURATE ROOM TEMP. ADJUSTMENT







KI-03 S RECOMMENDED

CONTROLLERS

For further information, please see our Controllers Range

WIFI





KCT-03 SR

KCT-03 SRPS



K01-WIFI



FLOOR STANDING EXPOSED/CONCEALED

GENERAL CHARACTERISTICS

The unit has big improvements in terms of electronically controlling to make the unit more comfortable. Kaysun maintains the streamlined design of this unit the perfect solution for saving space and adapting to every installation.

- · Built-in expansion valve.
- ON/OFF dry contact and 220V V alarm signal output.
- Its 40Pa static pressure helps move air supply.
- 7 speeds DC fan motor
- 0.5°C temperature control
- · EXV control more comfortable



TECHNICAL SPECIFICATIONS

MODEL			KS(E)F-56 DN4.0	KS(E)F-71 DN4.0	
Cooling capacit	ty rated	kW	5.6	7.1	
Heating capaci	ty rated	kW	6.3	8	
Power input		W	88	110	
	Air flow 7 speeds	m³/h	830 / 886 / 925 / 970 / 1028 / 1094 / 1150	870 / 955 / 1033 / 1100 / 1205 / 1290 / 1380	
	Sound pressure 7 speeds	dB(A)	31 / 32 / 33 / 35 / 37 / 39 / 41	33 / 35 / 37 / 39 / 40 / 42 / 44	
	Width/height/depth	mm	1500 / 596 / 225	1500 / 596 / 225	
	Width/height/depth exposed	mm	1345 / 544 / 212	1345 / 544 / 212	
Indoor unit	Net weight	kg	40	40	
	Net weight exposed	kg	30.5	30.5	
	Power supply	V/ph/ Hz	220-240/1/50	220-240/1/50	
	Power wiring	mm²	(2+T)x2.50	(2+T)×2.50	
Shielded comm	nunication wiring	mm²	3x1.50	3x1.50	
Refrigerant	Liquid/gas pipe diameter	inch	3/8" / 5/8"	3/8" / 5/8"	









CONTROLLERS

For further information, please see our Controllers Range

WIFI





KCT-03 SR

KCT-03 SRPS

•

K01-WIFI



CEILING / FLOOR

GENERAL CHARACTERISTICS

Ceiling/floor VRF indoor unit with 7 speeds DC fan motor, and with new features. Kaysun maintains its compact design helps to integrate the unit into every environment. As its name suggests, these units can be installed on the ceiling in a horizontal position and on the floor in vertical position. The design of their condensation water tray so permits.

- · Built-in expansion valve.
- ON/OFF dry contact and 220V V alarm signal output.
- Smoother air flow with less turbulences. Thanks to the multi blades fan and the design of its louvers, the airflow is softer and more comfortable.
- 7 speeds DC fan motor
- 0.5°C temperature control
- EXV control more comfortable





AMAZON III W 2 PIPES see pag. 206



AMAZON III PRO 3 PIPES see pag. 210

TECHNICAL SPECIFICATIONS

MODEL			KPCF-56 DN4.0	KPCF-90 DN4.0	KPCF-140 DN4.0
Cooling capacity rated		kW	5.6	9	14
Heating capaci	ity rated	kW	6.3	10	15.5
Power input		W	115	130	180
	Air flow 7 speeds	m³/h	720 / 755 / 792 / 830 / 860 / 895 / 930	1050 / 1085 / 1130 / 1170 / 1210 / 1245 / 1280	1580 / 1620 / 1660 / 1700 / 1765 / 1830 / 1890
	Sound pressure 7 speeds	dB(A)	38 / 38 / 39 / 41 / 41 / 42 / 43	40 / 41 / 42 / 43 / 43 / 44 / 45	42 / 43 / 44 / 45 / 45 / 46 / 47
Indoor unit	Width/height/depth	mm	990 / 660 / 203	1280 / 660 / 203	1670 / 680 / 244
	Net weight	kg	28	35	48
	Power supply	V/ph/ Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Power wiring	mm²	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50
Shielded communication wiring		mm²	3x1.50	3x1.50	3×1.50
Refrigerant	Liquid/gas pipe diameter	inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"





CONTROLLERS

For further information, please see our Controllers Range





KCT-03 SR

KCT-03 SRPS

WIFI



K01-WIFI



ONE WAY CASSETTE

GENERAL CHARACTERISTICS

With at just 153mm in height in the small models, Kaysun renews its units with a DC fan motor with 7 speeds and new electronic control. It has a compact and light design, making it very easy to install and maintain in any space. These units are perfectly merged with the ceiling, creating a clean and subtile aesthetic.

- The control box is built into the body of the unit.
 This saves space and allows facilitates maintenance.
- · Standard condensation pump.
- It has a very reduced height, making it ideal for very low suspended ceilings.
- 7 speeds DC fan motor
- 0.5°C temperature control
- EXV control more comfortable

COMPATIBLE WITH



MINI AMAZON II 2 PIPES see pag. 192-194



AMAZON UNITARIO

see pag. 196-198



AMAZON V 2 PIPES (see pag. 202-204



AMAZON III W 2 PIPES

see pag. 206



AMAZON III PRO 3 PIPES see pag. 210

TECHNICAL SPECIFICATIONS

MODEL			KCOF-22 DN4.0	KCOF-36 DN4.0	KCOF-71 DN4.0
Cooling capacit	ry rated	kW	2.2	3.6	7.1
Heating capaci	ty rated	kW	2.6	4	8
Power input		W	25	30	60
	Air flow 7 speeds	m³/h	275 / 312 / 360 / 404 / 448 / 482 / 523	315 / 364 / 420 / 456 / 492 / 531 / 573	592 / 637 / 689 / 749 / 815 / 873 / 933
	Sound pressure 7 speeds	dB(A)	30 / 31 / 32 / 34 / 35 / 36 / 37	34 / 35 / 35 / 36 / 37 / 38 / 39	37 / 38 / 39 / 41 / 42 / 43 / 44
Indoor unit	Width/height/depth	mm	1054 / 153 / 425	1054 / 153 / 425	1275 / 189 / 450
	Net weight	kg	11.8	12.3	17.6
	Power supply	V/ph/ Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Power wiring	mm²	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50
Danal	Width/height/depth	mm	1180 / 25 / 465	1180 / 25 / 465	1350 / 25 / 505
Panel	Net weight kg		3.5	3.5	4
Shielded comm	nunication wiring	mm²	3x1.50	3x1.50	3x1.50
Refrigerant	Liquid/gas pipe diameter	inch	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"

















KI-03 S RECOMMENDED

CONTROLLERS

For further information, please see our Controllers Range

WIFI





KCT-03 SR

KCT-03 SRPS



K01-WIFI



CASSETTE ART FLUX 360° (600x600)

GENERAL CHARACTERISTICS

This unit maintains 360° panel and is equipped with a new 7 fan speeds DC fan motor provides even, fast and far-reaching air-conditioning control, without leaving dead zones. This compact and light unit needs little space to install it. They can be completely integrated into any space, including shallow ceilings.

- On/Off dry contact and 220 V alarm output.
- 7 speeds DC fan motor
- 0.5°C temperature control
- · EXV control more comfortable
- · Standard condensation pump.



TECHNICAL SPECIFICATIONS

NEW

NEW

MODEL	MODEL			KCIF-22 DN4.0	KCIF-28 DN4.0	KCIF-36 DN4.0	KCIF-45 DN3.0	KCIF-52 DN4.0
Cooling capac	ity rated	kW	1.7	2.2	2.8	3.6	4.5	5.2
Heating capa	city rated	kW	2.2	2.4	3.2	4	5	5.6
Power input		W	35	35	35	40	50	62
	Air flow 7 speeds	m³/h	238 / 268 / 288 / 300 / 313 / 345 / 380	405 / 441 / 462 / 503 / 524 / 552 / 576	405 / 441 / 462 / 503 / 524 / 552 / 576	400 / 434 / 478 / 516 / 541 / 573 / 604	400 / 434 / 478 / 516 / 541 / 573 / 604	350 / 380 / 410 / 446 / 481 / 580 / 635
	Sound pressure 7 speeds	dB(A)	22 / 23 / 26 / 29 / 33 / 34 / 35	22 / 23 / 26 / 29 / 33 / 34 / 35	22 / 23 / 26 / 29 / 33 / 34 / 35	28 / 29 / 30 / 32 / 35 / 38 / 41	28 / 29 / 30 / 32 / 35 / 38 / 41	28 / 29 / 30 / 32 / 35 / 48 / 52
Indoor unit	Width/height/depth	mm	630 / 260 / 570					
	Net weight	kg	18	18	18	19.2	19.2	19.2
	Power supply	V/ph/ Hz	220/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220/1/50
	Power wiring	mm²	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50
Panel	Width/height/depth	mm	647 / 50 / 647	648 / 50 / 648	647 / 50 / 647			
	Net weight	kg	2.5	2.5	2.5	2.5	2.5	2.5
Shielded com	Shielded communication wiring		3x1.50	3x1.50	3x1.50	3x1.50	3x1.50	3x1.50
Refrigerant	Liquid/gas pipe diameter	inch	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"



















KI-03 S RECOMMENDED

CONTROLLERS

For further information, please see our Controllers Range

WIF





KCT-03 SR

KCT-03 SRPS



K01-WIFI



CASSETTE ART FLUX 360°

GENERAL CHARACTERISTICS

This cassette changes its aesthetics because is equipped with new design panel maintaining the 360° round flow. The new 7 fan speeds DC fan motor provides even, fast and far-reaching airconditioning control, without leaving dead zones.

- On/Off dry contact and 220 v Alarm output.
- Integrated control box inside the unit's body; it saves space and allows for ceiling installation.
- Ducts pre-installation holes, to supply air to adjoining rooms.
- Fresh air possibility to enter directly into the room through a preinstallation hole located at the unit's body.
- 7 speeds DC fan motor
- 0.5°C temperature control
- · EXV control more comfortable
- · Standard condensation pump.

COMPATIBLE WITH



MINI AMAZON II 2 PIPES see pag. 192-194



AMAZON UNITARIO 2 PIPES see pag.

196-198



AMAZON V 2 PIPES (see pag. 202-204



AMAZON III W 2 PIPES see pag. 206



AMAZON III PRO 3 PIPES see pag. 210

TECHNICAL SPECIFICATIONS

MODEL			KCIBF-56 DN4.0	KCIBF-71 DN4.0	KCIBF-80 DN4.0	KCIBF-100 DN4.0	KCIBF-112 DN4.0	KCIBF-140 DN4.0
Cooling capacit	y rated	kW	5.6	7.1	8	10	11.2	14
Heating capaci	leating capacity rated		6.3	8	9	11	12.5	15
Power input		W	31	46	48	75	75	94
	Air flow 7 speeds	m³/h	704 / 756 / 801 / 857 / 899 / 957 / 1029	748 / 866 / 920 / 996 / 1065 / 1132 / 1200	811 / 893 / 975 / 1055 / 1117 / 1195 / 1264	1034 / 1087 / 1154 / 1239 / 1365 / 1477 / 1596	1034 / 1087 / 1154 / 1239 / 1365 / 1477 / 1596	1224 / 1289 / 1351 / 1426 / 1517 / 1622 / 1727
	Sound pressure 7 speeds	dB(A)	34 / 35 / 36 / 38 / 39 / 41 / 43	34 / 35 / 37 / 39 / 41 / 43 / 45	35 / 36 / 38 / 40 / 42 / 44 / 46	36 / 37 / 39 / 41 / 43 / 45 / 47	36 / 37 / 39 / 41 / 43 / 45 / 47	35 / 36 / 38 / 45 / 46 / 48 / 50
Indoor unit	Width/height/depth	mm	904 / 230 / 840	904 / 230 / 840	904 / 230 / 840	904 / 300 / 840	904 / 300 / 840	904 / 300 / 840
	Net weight	kg	23.2	23.2	23.2	28.4	28.4	30.7
	Power supply	V/ph/ Hz	220 - 240/1/50	220 - 240/1/50	220 - 240/1/50	220 - 240/1/50	220 - 240/1/50	220 - 240/1/50
	Power wiring	mm²	(2+T)×2.50	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50
Panel	Width/height/depth	mm	950 / 55 / 950	950 / 55 / 950	950 / 55 / 950	950 / 46 / 950	950 / 46 / 950	950 / 46 / 950
	Net weight	kg	5	5	5	5	5	5
Shielded communication wiring		mm²	3x1.50	3x1.50	3x1.50	3x1.50	3x1.50	3x1.50
Refrigerant	Liquid/gas pipe diameter	inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"













CONTROLLERS

For further information, please see our Controllers Range

WIFI





KCT-03 SR

KCT-03 SRPS



K01-WIFI



DUCTS

GENERAL CHARACTERISTICS

A compact and versatile design unit with little height that allows for adapting to every installation, the units are equipped with more precise control of electronic expansion valve and 7 speeds fan motor that provides to the user a unit more comfy air conditioner. All these features added to existing ones provide to the customers a very thorough product.

- Broad range of capacities: from 1.7 kW to 14 kW, eleven models in total.
- 7 speeds DC fan motor,
- 0.5°C temperature control.
- EXV control more comfortable.
- Pre-installed entry in the unit's body for fresh air.
- · Flanges for fitting outlet and return ducts.
- Double return system possibility (rear inlet or lower inlet).
- It contains a tilted evaporator; it provides a wider exchange area and a compact and reduced height, which facilitates the unit installation in rooms with a limited false ceiling.
- On/Off dry contact and Alarm 220 V output.
- Receiver detaches up to 10 meters (optional cable).
- Possibility to change the available static pressure through the new wired controller.
- Standard condensation pump.

COMPATIBLE WITH



MINI AMAZON II 2 PIPES see pag. 192-194



AMAZON UNITARIO

see pag. 196-198



AMAZON V 2 PIPES see pag. 202-204



AMAZON III W 2 PIPES see pag. 206

see pag. 210

AMAZON III PRO



TECHNICAL SPECIFICATIONS

NEW

MODEL			KPDF-17 DN4.0	KPDF-22 DN4.0	KPDF-28 DN4.0	KPDF-36 DN4.0	KPDF-45 DN4.0	KPDF-56 DN4.0
Cooling capa	city rated	kW	1.7	2.2	2.8	3.6	4.5	5.6
Heating capa	icity rated	kW	2.2	2.6	3.2	4	5	6.3
Power input		W	40	40	40	45	92	92
	Air flow 7 speeds	m³/h	300 / 330 / 360 / 400 / 440 / 480 / 490	300 / 330 / 360 / 400 / 440 / 480 / 520	300 / 330 / 360 / 400 / 440 / 480 / 520	370 / 400 / 430 / 460 / 500 / 540 / 580	400 / 480 / 540 / 620 / 680 / 740 / 800	560 / 600 / 640 / 680 / 720 / 760 / 830
-	Sound pressure 7 speeds	dB(A)	23 / 25 / 26 / 28 / 29 / 31 / 32	31 / 32 / 33 / 34 / 34 / 35 / 35	31 / 32 / 33 / 34 / 34 / 35 / 35	33 / 34 / 35 / 36 / 34 / 37 / 37	33 / 34 / 35 / 36 / 37 / 37 / 38	33 / 34 / 35 / 36 / 37 / 38 / 38
Indoor unit	Max. pressure available	Pa	50	70	70	70	70	70
	Width/height/ depth	mm	780 / 210 / 500	780 / 210 / 500	780 / 210 / 500	780 / 210 / 500	1000 / 210 / 500	1000 / 210 / 500
	Net weight	kg	18	18	18	18	21.5	21.5
	Power supply	V/ph/Hz	220/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Power wiring	mm²	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50
Shielded com	nmunication wiring	mm²	2x1.50	3x1.50	3x1.50	3x1.50	3x1.50	3x1.50
Refrigerant	Liquid/gas pipe diameter	inch	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"



















COMPACT UNITS



MANUAL PRESSURE ADJUSTMENT AVAILABLE

CONTROLLERS

For further information, please see our Controllers Range

WIFI

INDIVIDUALS





KI-03 S

KCT-03 SRPS



K01-WIFI

MODEL			KPDF-71 DN4.0	KPDF-80 DN4.0	KPDF-90 DN4.0	KPDF-112 DN4. 0	KPDF-140 DN4. 0
Cooling capa	city rated	kW	7.1	8	9	11.2	14
Heating capa	acity rated	kW	8	9	10	12.5	15.5
Power input		W	98	110	120	200	250
	Air flow 7 speeds	m³/h	680 / 720 / 780 / 840 / 900 / 960 / 1000	780 / 860 / 940 / 1020 / 1100 / 1180 / 1260	780 / 860 / 940 / 1020 / 1100 / 1180 / 1260	1080 / 1140 / 1210 / 1290 / 1360 / 1430 / 1500	1360 / 1460 / 1560 / 1660 / 1760 / 1860 / 1960
	Sound pressure dB(A)		34 / 35 / 36 / 37 / 38 / 39 / 40	37 / 38 / 39 / 41 / 42 / 43 / 44	37 / 38 / 39 / 41 / 42 / 43 / 44	37 / 39 / 41 / 43 / 44 / 46 / 47	38 / 39 / 41 / 43 / 44 / 46 / 47
Indoor unit -	Max. pressure Pa		70	100	100	100	150
mador ant	Width/height/ depth	mm	1220 / 210 / 500	1230 / 270 / 775	1230 / 270 / 775	1230 / 270 / 775	1290 / 300 / 865
	Net weight	kg	27.5	36.5	37	37	46.5
	Power supply	V/ph/ Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Power wiring	mm²	(2+T)x2.50	(2+T)×2.50	(2+T)×2.50	(2+T)x2.50	(2+T)×2.50
Shielded con	nmunication wiring	mm²	3x1.50	3x1.50	3x1.50	3x1.50	3x1.50
Refrigerant	Liquid/gas pipe diameter	inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"





HIGH PRESSURE DUCTS

GENERAL CHARACTERISTICS

With units in all the range equipped with 7 speeds DC fan motor. These duct units supply higher static pressure with big airflow capacity, which allows for a more flexible design. They adapt to every installation space, even those with very high ceilings.

- On/Off dry contact and Alarm 220 V output.
- · Units with high airflows.
- Power range from 7.1 kW to 56 kW.
- 7 speeds DC fan motor
- 0.5°C temperature control
- EXV control more comfortable
- · Condensation pump not included.



TECHNICAL SPECIFICATIONS

MODEL			KPDHF-71 DN4.0	KPDHF-90 DN4.0	KPDHF-112 DN4.0	KPDHF-140 DN4.0	KPDHF-160 DN4.0
Cooling capa	city rated	kW	7.1	9	11.2	14	16
Heating capa	acity rated	kW	8	10	12.5	16	17
Power input		W	180	220	380	420	700
	Air flow 7 speeds m³/h		1159 / 1197 / 1234 / 1264 / 1296 / 1333 / 1360	1151 / 1195 / 1237 / 1285 / 1328 / 1378 / 1428	1354 / 1429 / 1528 / 1614 / 1695 / 1775 / 1886	1601 / 1707 / 1818 / 1927 / 2033 / 2127 / 2258	1879 / 2013 / 2099 / 2239 / 2354 / 2501 / 2608
	Sound pressure 7 dB(A)		42 / 43 / 44 / 45 / 45 / 46 / 46	45 / 46 / 47 / 48 / 48 / 49 / 50	45 / 46 / 47 / 48 / 49 / 50 / 50	48 / 49 / 50 / 51 / 51 / 52 / 53	50 / 50 / 51 / 52 / 53 / 54 / 54
Indoor unit	Max. pressure available	Pa	200	200	200	200	200
	Width/height/depth	mm	952 / 420 / 690	952 / 420 / 690	952 / 420 / 690	1300 / 420 / 690	1300 / 420 / 690
-	Net weight	kg	41	51	51	63	63
-	Power supply	V/ph/ Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Power wiring	mm²	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50
Shielded con	nmunication wiring	mm²	3x1.50	3x1.50	3x1.50	3x1.50	3x1.50
Refrigerant	Liquid/gas pipe diameter	inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 3/4"	3/8" / 3/4"













HIGH AIRFLOWS

CONTROLLERS

For further information, please see our Controllers Range

WIFI







KCT-03 SRPS



K01-WIFI

MODEL			KPDHF-200 DN4.0	KPDHF-250 DN4.0	KPDHF-280 DN4.0	KPDHF-400 DN4.0	KPDHF-450 DN4.0	KPDHF-560 DN4.0
Cooling capacity rated		kW	20	25	28	40	45	56
Heating capacity rated		kW	22.5	26	31.5	45	50	63
Power input		W	990	1200	1200	1585	1585	2272
Indoor unit	Air flow 7 speeds	m³/h	3745 / 3837 / 3941 / 4043 / 4144 / 4237 / 4358	3745 / 3837 / 3941 / 4043 / 4144 / 4237 / 4358	3745 / 3837 / 3941 / 4043 / 4144 / 4237 / 4358	4400 / 4750 / 5100 / 5450 / 5800 / 6150 / 6500	4400 / 4750 / 5100 / 5450 / 5800 / 6150 / 6500	5000 / 5400 / 5800 / 6200 / 6600 / 7000 / 7400
	Sound pressure 7 speeds	dB(A)	50 / 52 / 53 / 54 / 55 / 56 / 57	50 / 52 / 53 / 54 / 55 / 56 / 57	50 / 52 / 53 / 54 / 55 / 56 / 57	49 / 51 / 53 / 54 / 55 / 56 / 57	49 / 51 / 53 / 54 / 55 / 56 / 57	51 / 53 / 55 / 56 / 57 / 58 / 59
	Max. pressure available	Pa	250	250	250	300	300	300
	Width/height/depth	mm	1440 / 505 / 925	1440 / 505 / 925	1440 / 505 / 925	1937 / 680 / 905	1937 / 680 / 905	1937 / 680 / 905
	Net weight	kg	130	130	130	205	205	218
	Power supply	V/ph/ Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Power wiring	mm²	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50	(2+T)x4	(2+T)x4	(2+T)×4
Shielded communication wiring		mm²	3x1.50	3x1.50	3x1.50	3x1.50	3x1.50	3x1.50
Refrigerant	Liquid/gas pipe diameter	inch	1/2" / 7/8"	1/2" / 7/8"	1/2" / 7/8"	5/8" / 11/8"	5/8" / 11/8"	5/8" / 11/8"



KAHU

GENERAL CHARACTERISTICS

This is an interface that allows you to connect a AHU (air handling unit) with a direct-expansion coil to the VRF system. This unit shall be treated like an additional indoor unit within the VRF system.

- · Can be installed on direct expansion batteries up to 56 Kw.
- It consists of an electrical control box, electronic expansion valve, cables and control sensors.
- It includes an XYE port to connect to a centralised indoor unit control.
- On/Off dry contact and 220 V Alarm output.
- · Compatible only with 2 pipes outdoor units.
- More than one unit can be connected at the same time to increase the connectable power.
- KAHU.3 models can be controlled through dry contacts and 0-10v signal for temperature setpoint or 0-10v for capacity control. Please, check the Technical Manual.

COMPATIBLE WITH



MINI AMAZON II 2 PIPES see pag. 192-194



AMAZON UNITARIO

see pag. 196-198



AMAZON V 2 PIPES (see pag. 202-204



AMAZON III W
2 PIPES

see pag. 206

TECHNICAL SPECIFICATIONS

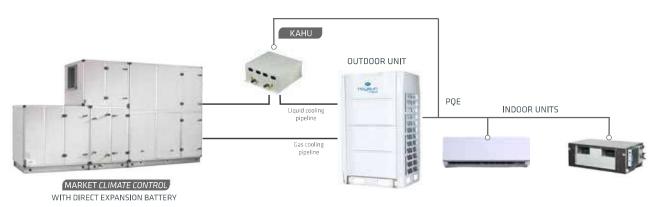
MODEL			KAHU-90.3	KAHU-200.3	KAHU-360.3	KAHU-560.3
Capacity	Cooling min./max.	kW	2 / 8	9 / 20	21 / 36	37 / 56
	Width/height/depth	mm	350 / 375 / 150	350 / 375 / 150	350 / 375 / 150	350 / 375 / 150
Indoorunit	Net weight	kg	8.4	8.4	8.7	8.9
Indoor unit	Power supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Power wiring	mm²	(2+T)x2.50	(2+T)x2.50	(2+T)x2.50	(2+T)×2.50
Shielded communication wiring		mm²	3x1.50	3x1.50	3x1.50	3x1.50
Refrigerant	Liquid/gas pipe diameter	inch	3/8" / 3/8"	3/8" / 3/8"	1/2" / 1/2"	5/8" / 5/8"

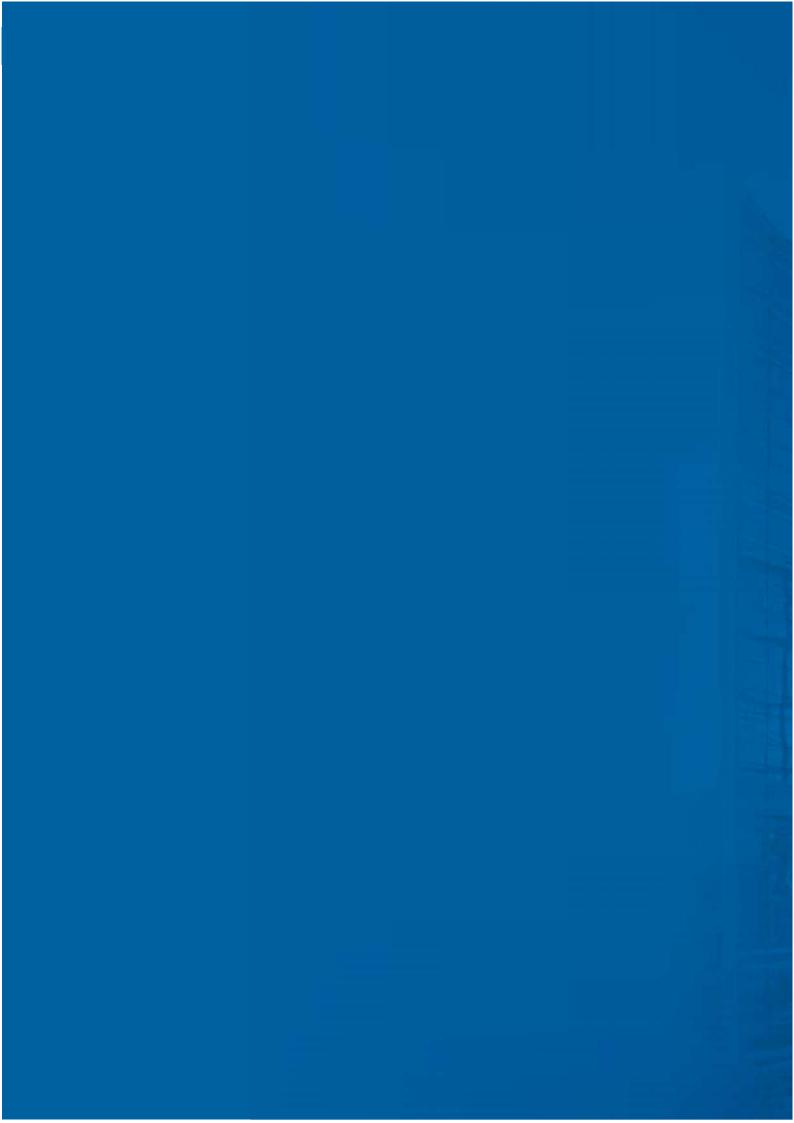
Power can be adjusted by a dip switch located at the electric board.

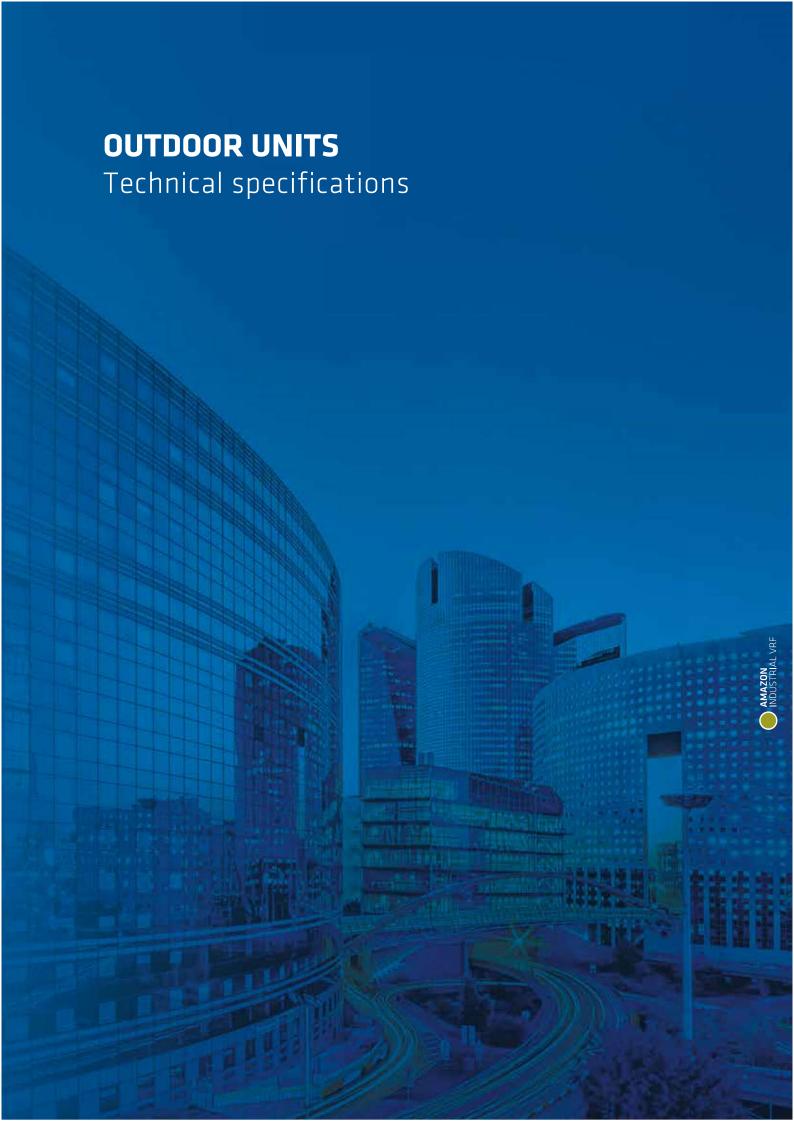
Kaysun by frigicoll



INSTALLATION EXAMPLE









COMBINABLE UP TO 3 MODULES

OUTDOOR UNITS RANGE

2 PIPES

FULL DC INVERTER

FULL DC INVERTER

FULL DC INVERTER

POWER kW 8,0 10,5 12,0 14.0 16,0 18,0

MINI AMAZON II

SINGLE-PHASE (Page 192)

KMF-80 DVN3

THREE-PHASE (Page 194)

POWER kW 20.0 22,4 25.2 26.0 28.0 33,5

AMAZON UNITARIO

NEW NEW FRONT AIR DISCHARGE (Page 196)

TOP DISCHARGE DN4 S (Page 198)

AMAZON V NEW (Page 202)

K2F-280 DN5S K2F-335 DN5S K2F-252 DN5S

AMAZON III W (Page 206) COMBINABLE UP TO 3 MODULES

K2F-280 DN3W

3 PIPES

POWER kW 20,0 22,4 25,2 26,0 28,0 33,5

AMAZON III PRO (Page 210) COMBINABLE UP TO 4 MODULES



VRF OUTDOOR UNITS 2 PIPES

AMAZON V

NEW

KAYSUN launch the new outdoor range AMAZON V. All the compressors and fans of this range are DC INVERTER. Furthermore, unlike previous ranges, these units are fitted with 2 additional modules, thereby allowing more combinations. With a completly wide range of capacities and being avaiable to combine up to 270kW (3 modules of 90kW, the maximum capacity module) and it also incloude an increase of the static pressure up to 60Pa. Among other things, has a modern design makes easy to distinguish them above the rest of the market, which allows installing the units in smaller spaces according to their capacity.

As is always the case, depending on the type of combination, the units of this new range allow us o connect up to 64 indoor units. However, some of the most oustanding features of previous models have been kept for this new range, such as: Delta-shaped heat exchangers that enhance subcooling and allow for longer installation distances self-addressing function, up to 150% simultaneity and silent ventilation.





AMAZON UNITARIO

AMAZON UNITARIO, the KAYSUN range of non-combinable units, has units with 28kW to 90 kW top discharge and up to 60Pa available pressure, and 5 front air discharge units from 20kW to 45kW. This INVERTER technology single solution of KAYSUN allows for combining up to 53 indoor units and a 200 metres maximum installation distance between the outdoor unit and the furthest indoor unit. This unit also provides a 150% simultaneity, highly efficient compressors and a silent ventilation system. This is a very thorough and competitive product.



MINI AMAZON II

The MINI AMAZON II generation with 2 ducts, DC Inverter compressor and fan motor keeps it's 9 models. The design of fan's blades and grille, as well as the DC Inverter technology used therein and in the "Twin Rotary" compressor motor, provides the unit with outstanding energy efficiency and work range. KAYSUN seeks to provide versatility and total freedom, adding up to 9 indoor units to the combinations of the Mini AMAZON range and expanding the cooling distances up to 60 meters of actual overall length. Outdoor units automatically distribute the address to indoor units with no manual adjustment. In addition, 12, 14, 16 and 18 kW can be installed in 4 different positions, thereby making installation easier. Moreover, the XYE port in the outdoor unit's board allows for the connection of the centralised control panel of indoor unit directly to the outdoor unit.



AMAZON III W

The new AMAZON III W range of 2 water condensed pipes with DC INVERTER compressors stands out from the whole range because of its modular design, which supports combinations up to 36 HP through the combination of 3 basic modules of 8-10-12 HP with which you can install up to a maximum of 59 indoor units. The structure of the new unit is much more compact and lightweight compared to the AMAZON air-condensed outdoor units. Thanks to its small size and the possibility of vertical installation (one outdoor on top of the other due to the lack of fans) allows it to be installed in very tight spaces. The lack of fans obviously reduces the sound pressure levels of outdoor units. Furthermore, due to the savings on consumption resulting from the lack of fans, energy efficiency notably increases if compared to the AMAZON air-condensed system, making it one of the strengths of the AMAZON III W.



MULTIPLE COMBINATIONS

The AMAZON range offers a wide variety of installation possibilities from 9 types of indoor units with different ranges of cooling power, thereby allowing for the installation of 64 indoor units maximum, depending on the outdoor unit model or combinations thereof. This combination flexibility allows it to adapt to a wide variety of projects. One solution for every single need. Kaysun's VRF system allows for installations with 50 % to 150% simultaneity.



SYSTEMS WITH LONG DISTANCE COOLING PIPELINES

AMAZON equipment allows for designing and arranging an entire cooling and heating system with greater flexibility. The planning and design difficulty inherent to air-conditioning projects in complex or large buildings are made simple thanks to the long pipes distance and height provided by our range of products.



MINI AMAZON II SINGLE-PHASE 2 PIPES

TECHNICAL SPECIFICATIONS

MODEL			KMF-80 DVN3	KMF-105 DVN3	KMF-120 DVN2	KMF-140 DVN2	KMF-160 DVN2
Cooling capacity	Cooling capacity rated		7.2	9	12.3	14	15.5
Heating capacity	y rated	kW	7.2	9	13.2	15.4	17
Cooling input ra	ted	W	1850	2300	3250	3850	4390
Heating input ra	nted	W	1790	2270	3470	4050	4640
	EER		3.9	3.92	3.78	3.64	3.53
Energy effi-	COP		4.02	3.97	3.8	3.8	3.66
ciency	SEER		6.5	6.25	5.6	5.9	6
	SCOP		4.05	4.05	4.05	4	3.7
N° indoor units			6	7	10	12	13
	Compressor type		Inverter	Inverter	Inverter	Inverter	Inverter
	N° compressor		1	1	1	1	1
	N° fans		1	1	2	2	2
	Air flow	m³/h	5500	5500	6000	6000	6000
	Sound pressure	dB(A)	56	57	57	57	57
Outdoor unit	Width/height/depth	mm	1075 / 966 / 396	1075 / 966 / 396	900 / 1327 / 400	900 / 1327 / 400	900 / 1327 / 400
	Net weight	kg	75.5	75.5	95	95	100
	Power supply	V/ph/ Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Power wiring	mm²	(2+T)x2.50	(2+T)x4	(2+T)x4	(2+T)x6	(2+T)x6
Shielded commu	unication wiring	mm²	3x1.50	3x1.50	3x1.50	3x1.50	3x1.50
	Type refrigerant		R-410A	R-410A	R-410A	R-410A	R-410A
Refrigerant	Refrigerant charge	kg	2.95	2.95	3.3	3.9	3.9
	Liquid/gas pipe diameter	inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
Morling range	Outdoor ambient temperature for cooling min./max.	°C	-15°C / 43°C				
Working range	Outdoor ambient temperature for heating min./max.	°C	-15°C / 27°C				

BRANCH PIPES

MODEL

KCMI 112 (FRG100 + FRG200)











The Mini Amazon II system is ideal to meet the needs in small industrial environments. Its air condensed 2 pipe direct-expansion technology covers a range of cooling capacities from 8 up to 16 kW in single phase models.

- Depending on the model, single-phase units accept up to 13 indoor units.
- It admits a 50 % to 150 % simultaneity index of the outdoor unit's power.
- Since it is fitted with horizontal air discharge, it does not require much space for installation or maintenance.
- The entire range works only with DC Inverter compressors and fans, which provides it with remarkable energy efficiency and low consumption and sound levels.
- Compressor with highly-efficiency double eccentric Twin Rotary DC Inverter with environmentally friendly refrigerant R410A.
- It includes a self-addressing feature for indoor units.
- · The outdoor unit includes the XYE port to communicate with the centralised control panel of indoor units.
- The cooling pipeline of 12, 14 and 16kW models may be installed in 4 different positions, thereby facilitating their installation.
- Up to 70 metres equivalent length between the outdoor unit and the farthest indoor unit (for further information, see the cooling distances tables).











MINI AMAZON II THREE-PHASE 2 PIPES

TECHNICAL SPECIFICATIONS

MODEL			KMF-120 DTN2	KMF-140 DTN2	KMF-160 DTN2	KMF-180 DTN2
Cooling capacity	rated	kW	12.3	14	15.5	17.5
Heating capacity rated		kW	13.2	15.4	17	19
Cooling input rat	ted	W	3250	3850	4390	5300
Heating input ra	ited	W	3470	4050	4640	5140
	EER		3.78	3.64	3.53	3.3
Energy effi-	COP		3.8	3.8	3.66	3.7
ciency	SEER		5.6	5.9	6	5.5
	SCOP		4.05	4	3.7	4.1
N° indoor units			10	12	13	15
	Compressor type		Inverter	Inverter	Inverter	Inverter
	N° compressor		1	1	1	1
	N° fans		2	2	2	2
	Air flow	m³/h	6000	6000	6000	6800
Outdoor unit	Sound pressure	dB(A)	57	57	57	59
	Width/height/depth	mm	900 / 1327 / 400	900 / 1327 / 400	900 / 1327 / 400	900 / 1327 / 400
	Net weight	kg	95	95	102	107
	Power supply	V/ph/ Hz	380-400/3/50	380-400/3/50	380-400/3/50	380-400/3/50
	Power wiring	mm²	(4+T)x2.50	(4+T)x2.50	(4+T)x2.50	(4+T)x2.50
Shielded commu	unication wiring	mm²	3x1.50	3x1.50	3x1.50	3x1.50
	Type refrigerant		R-410A	R-410A	R-410A	R-410A
Refrigerant	Refrigerant charge	kg	3.3	3.9	3.9	4.5
	Liquid/gas pipe diameter	inch	3/8" / 5/8"	3/8" / 5/8"	3/8" / 3/4"	3/8" / 3/4"
Working range	Outdoor ambient temperature for cooling min./max.	°C	-15°C / 43°C	-15°C / 43°C	-15°C / 43°C	-15°C / 43°C
Working range	Outdoor ambient temperature for heating min./max.	°C	-15°C / 27°C	-15°C / 27°C	-15°C / 27°C	-15°C / 27°C

BRANCH PIPES

MODEL

KCMI 112 (FRG100 + FRG200)











The Mini Amazon II system is ideal to meet the needs in small industrial environments. Its air condensed 2 pipe direct-expansion technology covers a range of cooling capacities from 12 up to 18 kW in three phase models.

- Depending on the model, three-phase units accept up to 15 indoor units.
- It admits a 50 % to 150 % simultaneity index of the outdoor unit's power.
- Since it is fitted with horizontal air discharge, it does not require much space for installation or maintenance.
- The entire range works only with DC Inverter compressors and fans, which provides it with remarkable energy efficiency and low consumption and sound levels.
- Compressor with highly-efficiency double eccentric Twin Rotary DC Inverter with environmentally friendly refrigerant R410A.
- It includes a self-addressing feature for indoor units.
- The outdoor unit includes the XYE port to communicate with the centralised control panel of indoor units.
- The cooling pipeline of 12, 14, 16 and 18 kW models may be installed in 4 different positions, thereby facilitating their installation.
- Up to 70 metres equivalent length between the outdoor unit and the farthest indoor unit (for further information, see the cooling distances tables).





DC INVERTER COMPRESSOR AND FAN



UP TO 12 INDOOR UNITS



AMAZON UNITARIO FRONT AIR DISCHARGE 2 PIPES

TECHNICAL SPECIFICATIONS

NEW NEW

MODEL			KMF-200 DN2	KMF-224 DN2	KMF-260 DN2	KMF-280 DN3	KMF-335 DN3	KMF-400 DN3	KMF-450 DN3
Cooling capa	city rated	kW	20	22.4	26	28	33.5	40	45
Heating capa	acity rated	kW	22	24.5	28.5	31.5	37.5	40	45
Cooling inpu	t rated	W	6350	6810	8130	6830	9200	15060	13550
Heating inpu	ıt rated	W	6200	5900	7220	7500	9200	10000	11110
	EER		3.15	3.29	3.2	4.1	3.64	2.65	3.32
Energy	СОР		3.55	4.15	3.95	4.2	4.08	4	4.05
efficiency	SEER		5.8	5.9	5.7	Consult	Consult	5.7	5.65
	SCOP		3.75	3.8	4	Consult	Consult	3.75	3.7
N° indoor un	its		17	19	22	24	29	35	39
	Compressor type		Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	N° compressor		1	1	1	1	1	2	2
	N° fans		2	2	2	2	2	2	2
	Air flow	m³/h	10999	10494	10494	11000	11300	16575	16575
Outdoor	Sound pressure	dB(A)	59	59	60	59	61	62	62
unit	Width/height/depth	mm	1120 / 1558 / 528	1120 / 1558 / 528	1120 / 1558 / 528	1120 / 1558 / 528	1120 / 1558 / 528	1360 / 1650 / 540	1460 / 1650 / 540
	Net weight	kg	137	146	147	157	157	250	280
	Power supply	V/ph/ Hz	380- 400/3/50	380 - 400/3/50	380 - 400/3/50	380 - 415/3/50	380 - 415/3/50	380 - 400/3/50	380- 400/3/50
	Power wiring	mm²	(4+T)x2.50	(4+T)x2.50	(4+T)x2.50	(4+T)x2.50	(4+T)x2.50	(4+T)×10	(4+T)x16
Shielded cor	nmunication wiring	mm²	3x1.50	3x1.50	3x1.50	3x1.50	3x1.50	3x1.50	3x1.50
	Type refrigerant		R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Refrigerant	Refrigerant charge	kg	4.8	6.3	6.3	8	8	9	12
	Liquid/gas pipe diameter	inch	3/8" / 3/4"	3/8" / 3/4"	3/8" / 7/8"	3/8" / 7/8"	1/2" / 1"	1/2" / 7/8"	1/2" / 1"
Working range	Outdoor ambient temperature for cooling min./max.	°C	-15°C / 46°C	-15°C / 46°C	-15°C / 46°C	-5°C / 54°C	-5°C / 54°C	-15°C / 46°C	-15°C / 46°C
	Outdoor ambient temperature for heating min./max.	°C	-15°C / 24°C	-15°C / 24°C	-15°C / 24°C	-20°C / 24°C	-20°C / 24°C	-15°C / 24°C	-15°C / 24°C

MODEL	DESCRIPTION
KCMI 112 (FRG100 + FRG200)	
KCMI 212 (FRG100+FRG300)	
KCMI 312 (FRG200+FRG300)	
KCMI 412 (FRG200+FRG400)	
KCMI 512 (FRG300+FRG500)	











The AMAZON UNITARIO SIDE AIR DISCHARGE range has non-combinable external VRF units between 20 kW and 45 kW. The big advantage of these units is the possibility to install higher power equipments in confined spaces.

- Depending on the model, they accept up to 39 indoor units.
- It admits a 50 % to 150 % simultaneity index of the outdoor unit's power.
- Since it is fitted with front air discharge, it does not require much space for installation or maintenance.
- The entire range works only with Twin Rotary DC Inverter compressors and DC Inverter fans, which provides it with remarkable energy efficiency and low consumption and sound levels.
- Night mode is included as an option in order to reduce the sound level of outdoor units.
- It includes a self-addressing feature for indoor units.
- The outdoor unit includes the XYE port to communicate with the centralised control panel of indoor units.
- Up to 120 metres equivalent length between the outdoor unit and the farthest indoor unit (for further information, see the cooling distances tables).









AMAZON UNITARIO TOP DISCHARGE 2 PIPES

TECHNICAL SPECIFICATIONS

MODEL			K2UF-280 DN4 S	K2UF-335 DN4 S	K2UF-400 DN4 S	K2UF-450 DN4 S
Capacity		HP	10	12	14	16
Cooling capacity	rated	kW	28	33.5	40	45
Heating capacity	rated	kW	28	33.5	40	45
Cooling input rat	ted	W	6700	8900	11000	12900
Heating input ra	ted	W	5500	7600	9300	10700
	EER		4.2	3.75	3.65	3.5
Energy	COP		5.1	4.4	4.3	4.2
efficiency	SEER		7.45	7.2	6.1	5.9
	SCOP		4	4.41	4.2	4.2
N° indoor units			24	29	35	39
	Compressor type		Inverter	Inverter	Inverter	Inverter
	N° compressor		1	1	1	1
	N° fans		1	1	1	1
	Air flow	m³/h	11000	11000	13000	13000
	Static pressure	Pa	60	60	60	60
Outdoor unit	Sound pressure	dB(A)	58	60	62	65
	Width/height/depth	mm	990 / 1635 / 790	990 / 1635 / 790	1340 / 1635 / 850	1340 / 1635 / 850
	Net weight	kg	227	227	277	277
	Power supply	V/ph/ Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Power wiring	mm²	(4+T)x4	(4+T)x6	(4+T)x10	(4+T)x16
Shielded commu	unication wiring	mm²	3x1.50	3×1.50	3x1.50	3x1.50
	Type refrigerant		R-410A	R-410A	R-410A	R-410A
Refrigerant	Refrigerant charge	kg	11	11	13	13
	Liquid/gas pipe diameter	inch	1/2" / 1"	5/8" / 11/8"	5/8" / 11/4"	5/8" / 11/4"
Marking van	Outdoor ambient temperature for cooling min./max.	°C	-5°C / 48°C	-5°C / 48°C	-5°C / 48°C	-5°C / 48°C
Working range	Outdoor ambient temperature for heating min./max.	°C	-23°C / 24°C	-23°C / 24°C	-23°C / 24°C	-23°C / 24°C

MODEL	
KCMI 112 (FRG100 + FRG200)	
KCMI 212 (FRG100+FRG300)	
KCMI 312 (FRG200+FRG300)	
KCMI 412 (FRG200+FRG400)	
KCMI 512 (FRG300+FRG500)	











MODEL			K2UF-500 DN4 S	K2UF-560 DN4 S	K2UF-615 DN4 S	K2UF-670 DN4 S
Capacity		HP	18	20	22	24
Cooling capacity rated kW		kW	50	56	61.5	67
Heating capacity	rated rated	kW	50	56	61.5	67
Cooling input rat	ted	W	14700	16000	20200	21600
Heating input ra	ted	W	12200	13800	17600	16800
	EER		3.4	3.5	3.05	3.1
Energy	COP		4.1	4.05	3.5	4
efficiency	SEER		6.8	6.45	6.25	6.84
	SCOP		3.65	3.65	3.65	3.7
N° indoor units			44	49	54	59
	Compressor type		Inverter	Inverter	Inverter	Inverter
	N° compressor		1	2	2	2
	N° fans		1	2	2	2
	Air flow	m³/h	13000	17000	17000	25000
	Static pressure	Pa	60	60	60	60
Outdoor unit	Sound pressure	dB(A)	65	66	66	67
	Width/height/depth	mm	1340 / 1635 / 850	1340 / 1635 / 825	1340 / 1635 / 825	1730 / 1830 / 850
	Net weight	kg	295	344	344	407
	Power supply	V/ph/ Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Power wiring	mm²	(4+T)x16	(4+T)x16	(4+T)x25	(4+T)x25
Shielded commu	unication wiring	mm²	3x1.50	3x1.50	3x1.50	3×1.50
	Type refrigerant		R-410A	R-410A	R-410A	R-410A
Refrigerant	Refrigerant charge	kg	13	17	17	22
	Liquid/gas pipe diameter	inch	3/4" / 11/4"	3/4" / 11/4"	3/4" / 11/4"	3/4" / 11/4"
Morking range	Outdoor ambient temperature for cooling min./max.	٥С	-5°C / 48°C	-5°C / 48°C	-5°C / 48°C	-5°C / 48°C
Working range	Outdoor ambient temperature for heating min./max.	°C	-23°C / 24°C	-23°C / 24°C	-23°C / 24°C	-23°C / 24°C

MODEL		
KCMI 112 (FRG100 + FRG200)		
KCMI 212 (FRG100+FRG300)		
KCMI 312 (FRG200+FRG300)		
KCMI 412 (FRG200+FRG400)		
KCMI 512 (FRG300+FRG500)		



AMAZON UNITARIO TOP DISCHARGE 2 PIPES

TECHNICAL SPECIFICATIONS

MODEL			K2UF-730 DN4 S	K2UF-785 DN4 S	K2UF-850 DN4 S	K2UF-900 DN4 S
Capacity		HP	26	28	30	32
Cooling capacity	rated	kW	73	78.5	85	90
Heating capacity	/ rated	kW	73	78.5	85	90
Cooling input rat	ted	W	21600	24900	28300	32100
Heating input ra	ted	W	18100	21800	24300	26500
	EER		3.4	3.15	3	2.8
Energy	COP		4.05	3.6	3.5	3.4
efficiency	SEER		6.49	6.2	6.05	5.87
	SCOP		3.7	3.7	3.75	3.75
N° indoor units			64	64	64	64
	Compressor type		Inverter	Inverter	Inverter	Inverter
	N° compressor		2	2	2	2
	N° fans		2	2	2	2
	Air flow	m³/h	25000	25000	24000	24000
	Static pressure	Pa	60	60	60	60
Outdoor unit	Sound pressure	dB(A)	68	68	68	68
	Width/height/depth	mm	1730 / 1830 / 850	1730 / 1830 / 850	1730 / 1830 / 850	1730 / 1830 / 850
	Net weight	kg	429	429	475	475
	Power supply	V/ph/ Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Power wiring	mm²	(4+T)x25	(4+T)x25	(4+T)x25	(4+T)x25
Shielded commu	unication wiring	mm²	3x1.50	3x1.50	3x1.50	3x1.50
	Type refrigerant		R-410A	R-410A	R-410A	R-410A
Refrigerant	Refrigerant charge	kg	22	22	25	25
	Liquid/gas pipe diameter	inch	7/8" / 11/4"	7/8" / 11/4"	7/8" / 11/2"	7/8" / 11/2"
Working range	Outdoor ambient temperature for cooling min./max.	°C	-5°C / 48°C	-5°C / 48°C	-5°C / 48°C	-5°C / 48°C
Working range	Outdoor ambient temperature for heating min./max.	°C	-23°C / 24°C	-23°C / 24°C	-23°C / 24°C	-23°C / 24°C

MODEL	
KCMI 112 (FRG100 + FRG200)	
KCMI 212 (FRG100+FRG300)	
KCMI 312 (FRG200+FRG300)	
KCMI 412 (FRG200+FRG400)	
KCMI 512 (FRG300+FRG500)	











Direct-expansion system for 2 air-condensed pipes designed for 28 kW to 90 kW cooling power units. It is ideal for airconditioning large spaces that require the creation of atmospheres with different temperatures.

- Individual (non-combinable) outdoor units with capacity ranging from 10 to 32 hp. This system is able to combine between 24 and 64 indoor units.
- It admits a 50 % to 150 % simultaneity index of the outdoor unit's power.
- Fitted with a top air discharge system, this range is able to make air circulates through the condensation system thanks to the 60 Pa available pressure supplied by its DC Inverter fan.
- Night mode is included as an option in order to reduce the sound level of outdoor units.
- This range is equipped with high capacity EVI Scroll DC Inverter compressors and environmentally friendly R410A refrigerant. These features make these units even more efficient than previous models.
- · Up to 200 metres equivalent length between the outdoor unit and the farthest indoor unit (for further information, see the cooling distances tables).
- In the major part of the range they include a gas-to-gas heat exchanger. When the units works in cooling mode, it improves refrigerant subcooling; when it is in Heating mode, it improves units' performance by enhanced vapor injection.
- Delta-shaped heat exchanger; it enhances subcooling values up to 12°C and improves the exchanger's efficiency.





AMAZON V TOP DISCHARGE 2 PIPES

NEW

TECHNICAL SPECIFICATIONS

MODEL			K2F-252 DN5S	K2F-280 DN5S	K2F-335 DN5S	K2F-400 DN5S
Capacity		HP	8	10	12	14
Cooling capacity	rated	kW	25.2	28	33.5	40
Heating capacity	rated	kW	25.2	28	33.5	40
Cooling input rat	red	W	5310	6290	8700	9880
Heating input ra	ted	W	4580	5190	6570	8510
	EER		4.75	4.45	3.85	4.05
Energy effi-	СОР		5.5	5.4	5.1	4.7
ciency	SEER		7.7	7.54	7.28	6.22
	SCOP		4.11	4.11	4.51	4.31
N° indoor units			22	24	29	35
	Compressor type		Inverter	Inverter	Inverter	Inverter
	N° compressor		1	1	1	1
	N° fans		1	1	1	1
	Air flow	m³/h	11000	11000	11000	13000
	Static pressure	Pa	60	60	60	60
Outdoor unit	Sound pressure	dB(A)	58	58	60	62
	Width/height/depth	mm	990 / 1635 / 790	990 / 1635 / 790	990 / 1635 / 790	1340 / 1635 / 850
	Net weight	kg	227	227	227	277
	Power supply	V/ph/ Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Power wiring	mm²	(4+T)x2.50	(4+T)x4	(4+T)x6	(4+T)x10
Shielded commu	ınication wiring	mm²	2x1.50	2x1.50	2×1.50	2x1.50
	Type refrigerant		R-410A	R-410A	R-410A	R-410A
Refrigerant	Refrigerant charge	kg	11	11	11	13
	Liquid/gas pipe diameter	inch	1/2" / 1"	1/2" / 1"	5/8" / 11/8"	5/8" / 11/4"
Morking van-	Outdoor ambient temperature for cooling min./max.	°C	-5°C / 48°C	-5°C / 48°C	-5°C / 48°C	-5°C / 48°C
Working range	Outdoor ambient temperature for heating min./max.	°C	-23°C / 24°C	-23°C / 24°C	-23°C / 24°C	-23°C / 24°C

BRANCH PIPES

MODEL	DESCRIPTION	
KCMI 112 (FRG100 + FRG200)		
KCMI 212 (FRG100+FRG300)		
KCMI 312 (FRG200+FRG300)		
KCMI 412 (FRG200+FRG400)		
KCMI 512 (FRG300+FRG500)		

MODEL	DESCRIPTION
KCME 12.6	
KCME 13.6	







MODEL			K2F-450 DN5S	K2F-500 DN5S	K2F-560 DN5S	K2F-615 DN5S
Capacity		HP	16	18	20	22
Cooling capacity	rated	kW	45	50	56	61.5
Heating capacity	y rated	kW	45	50	56	61.5
Cooling input ra	ted	W	12000	12500	15140	18360
Heating input ra	ited	W	9780	10640	12730	15000
	EER		3.75	4	3.7	3.35
Energy effi-	COP		4.6	4.7	4.4	4.1
ciency	SEER		5.98	6.85	6.54	6.35
	SCOP		4.31	3.8	3.8	3.8
N° indoor units			39	44	49	54
	Compressor type		Inverter	Inverter	Inverter	Inverter
	N° compressor		1	2	2	2
	N° fans		1	2	2	2
	Air flow	m³/h	13000	17000	17000	17000
	Static pressure	Pa	60	60	60	60
Outdoor unit	Sound pressure	dB(A)	65	65	66	66
	Width/height/depth	mm	1340 / 1635 / 850	1340 / 1635 / 825	1340 / 1635 / 825	1340 / 1635 / 82
	Net weight	kg	277	348	348	348
	Power supply	V/ph/ Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Power wiring	mm²	(4+T)x16	(4+T)x16	(4+T)x16	(4+T)x16
Shielded commu	unication wiring	mm²	2x1.50	2x1.50	2x1.50	2x1.50
	Type refrigerant		R-410A	R-410A	R-410A	R-410A
Refrigerant	Refrigerant charge	kg	13	17	17	17
	Liquid/gas pipe diameter	inch	5/8" / 11/4"	3/4" / 11/4"	3/4" / 11/4"	3/4" / 11/4"
Morking var	Outdoor ambient temperature for cooling min./max.	°C	-5°C / 48°C	-5°C / 48°C	-5°C / 48°C	-5°C / 48°C
Working range	Outdoor ambient temperature for heating min./max.	°C	-23°C / 24°C	-23°C / 24°C	-23°C / 24°C	-23°C / 24°C

BRANCH PIPES

MODEL	DESCRIPTION
KCMI 112 (FRG100 + FRG200)	
KCMI 212 (FRG100+FRG300)	
KCMI 312 (FRG200+FRG300)	
KCMI 412 (FRG200+FRG400)	
KCMI 512 (FRG300+FRG500)	

MODEL	DESCRIPTION
KCME 12.6	
KCME 13.6	



AMAZON V 2 PIPES NEW



TECHNICAL SPECIFICATIONS

MODEL			K2F-670 DN5S	K2F-730 DN5S	K2F-785 DN5S	K2F-850 DN5S	K2F-900 DN5S
Capacity		HP	24	26	28	30	32
Cooling capacity	rated	kW	67	73	78.5	85	90
Heating capacity	rated	kW	67	73	78.5	85	90
Cooling input rat	ed	W	18110	20860	24150	24420	31030
Heating input ra	ted	W	14890	17590	20660	22970	25710
	EER		3.7	3.5	3.25	3.1	2.9
Energy effi-	COP		4.5	4.15	3.8	3.7	3.5
ciency	SEER		7	6.51	6.22	6.1	5.9
	SCOP		3.86	3.86	3.86	3.84	3.84
N° indoor units			59	64	64	64	64
	Compressor type		Inverter	Inverter	Inverter	Inverter	Inverter
	N° compressor		2	2	2	2	2
	N° fans		2	2	2	2	2
	Air flow	m³/h	25000	25000	25000	24000	24000
	Static pressure	Pa	60	60	60	60	60
Outdoor unit	Sound pressure	dB(A)	67	68	68	68	68
	Width/height/depth	mm	1730 / 1830 / 850				
	Net weight	kg	430	430	430	475	475
	Power supply	V/ph/ Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Power wiring	mm²	(4+T)x25	(4+T)x25	(4+T)x25	(4+T)x25	(4+T)x25
Shielded commu	ınication wiring	mm²	2x1.50	2x1.50	2x1.50	2x1.50	2x1.50
	Type refrigerant		R-410A	R-410A	R-410A	R-410A	R-410A
Refrigerant	Refrigerant charge	kg	22	22	22	25	25
	Liquid/gas pipe diameter	inch	3/4" / 11/4"	7/8" / 11/2"	7/8" / 11/2"	7/8" / 11/2"	7/8" / 11/2"
Morking	Outdoor ambient temperature for cooling min./max.	°C	-5°C / 48°C				
Working range	Outdoor ambient temperature for heating min./max.	°C	-23°C / 24°C				

BRANCH PIPES

MODEL	DESCRIPTION
KCMI 112 (FRG100 + FRG200)	
KCMI 212 (FRG100+FRG300)	
KCMI 312 (FRG200+FRG300)	
KCMI 412 (FRG200+FRG400)	
KCMI 512 (FRG300+FRG500)	

MODEL	DESCRIPTION
KCME 12.6	
KCME 13.6	













Direct-expansion system for 2 pipes air-condensed units from 25.2 kW to 270 kW cooling power. Ideal for meeting the needs in medium and large industrial environments.

- · This range is equipped with high capacity Scroll DC Inverter compressors and environmentally friendly R410A refrigerant. These features make these units even more efficient than previous models.
- The design of the fan's blades and protection grille reduces sound levels and increase airflow.
- Modular design with the option of combining the 13 individual modules (8-10-12-14-16-18-20-22-24-26-28-30 and 32 HP) up to 96 hp (3 modules maximum).
- · Standard automatic redundancy between modules. It balances and extends the working life of the compressors of each module, whether of the Master unit or any of the Slaves.
- They allow for combinations containing up to 64 indoor units.
- It admits a 50 % to 150 % simultaneity index of the outdoor unit's power.
- Fitted with a top air discharge system, this range is able to make air circulates through the condensation system thanks to the 60 Pa available pressure supplied by its DC Inverter fan.
- Delta-shaped heat exchanger; it enhances subcooling values up to 18°C and improves the exchanger's efficiency.
- · Up to 200 metres equivalent length between the outdoor unit and the farthest indoor unit (for further information, see the cooling distances tables).





AMAZON III W 2 PIPES

TECHNICAL SPECIFICATIONS

MODEL			K2F-252 DN3W	K2F-280 DN3W	K2F-335 DN3W
Capacity		HP	8	10	12
Cooling capacity	rated	kW	25.2	28	33.5
Heating capacity	y rated	kW	27	31.5	37.5
Cooling input ra	ted	W	4800	6100	8000
Heating input ra	nted	W	4500	5800	7800
Energy effi-	EER		5.25	4.59	4.19
ciency	COP		6.07	5.4	4.81
N° indoor units			22	24	29
	Compressor type		Inverter	Inverter	Inverter
	N° compressor		1	1	1
	Sound pressure	dB(A)	51	52	52
Outdoor unit	Width/height/depth	mm 780 / 1000 / 550 780 / 1000 / 550	780 / 1000 / 550		
	Net weight	kg	146	146	146
	Power supply	V/ph/ Hz	380-415/3/50	380-415/3/50	380-415/3/50
	Power wiring	mm²	(4+T)×2.50	(4+T)x4	(4+T)x6
Shielded commi	unication wiring	mm²	3x1.50	3x1.50	3x1.50
	Type refrigerant		R-410A	R-410A	R-410A
Defiles	Refrigerant charge	kg	2	2	2
Refrigerant	Liquid/gas pipe diameter	inch	1/2" / 1"	1/2" / 1"	5/8" / 11/4"
	Oil balance pipe diameter	inch	1/4"	1/4"	1/4"
	Water flow rated	m³/h	5.4	6	7.2
	Exchanger type		Pipe in pipe	Pipe in pipe	Pipe in pipe
Hydraulic	Load loss	kPa	35	40	48
system	Water pressure max.	Pa	1980000	1980000	1980000
	Water pipe connections inlet/outlet water	inch	11/4"	11/4"	11/4"
Working range	Water inlet temperature min./max.	°C	7°C / 45°C	7°C / 45°C	7°C / 45°C

BRANCH PIPES

MODEL	
KCMI 112 (FRG100 + FRG200)	
KCMI 212 (FRG100+FRG300)	
KCMI 312 (FRG200+FRG300)	
KCMI 412 (FRG200+FRG400)	
KCMI 512 (FRG300+FRG500)	

MODEL			
KCME 12			
KCME 13			
KCME 14			







Direct-expansion system for 2 pipes water-condensed units from 25.2 kW to 100.5 kW cooling power units. Ideal for meeting the needs in medium and large industrial environments.

- → This range is equipped with high capacity Scroll DC Inverter compressors and environmentally friendly R410A refrigerant. These features make these units a very efficient product.
- → Modular design with the option of combining the 3 individual modules (8-10-12 hp) up to 36 hp (3 modules maximum).
- → Shell and tube heat exchanger and highly-efficient cross airflow.
- → Standard automatic redundancy between modules. It balances and extends the working life of the compressors of each module, whether of the Master unit or any of the Slaves.
- → They allow for combinations containing up to 64 indoor units.
- → It admits a 50 % to 150 % simultaneity index of the outdoor unit's power.
- → Because of the lack of fans, this system is more efficient that air-condensed systems and provides low consumption and sound levels.
- → Compared to previous air-condensed outdoor units, this outdoor unit is more compact and lightweight and provides a significant reduction in weight, area and volume.
- → Up to 150 metres equivalent length between the outdoor unit and the farthest indoor unit (for further information, see the cooling distances tables).







VRF OUTDOOR UNITS 3 PIPES

3 PIPES AMAZON III PRO

- · 5 available modules from 25,2 kW to 45 kW
- · Up to 4 combinable modules (180 kW)
- · Up to 64 combinable indoor units
- · Optimized fan design
- · Better energy efficiency
- Working range between -5°C and 48°C in cooling mode and between -20°C and 24°C in heating mode.



LONG DISTANCE COOLING PIPES



CONTINUOUS HEATING DURING DEFROSTING



FULL DC INVERTER





Ventilation system

One fan with 3 blades and a second fan with 4 blades



- DOUBLE SUBCOOLING:
- Condenser interchanger in delta form
- · Subcooling takes place in exchanger.



• AMAZON III PRO Full DC Inverter



- · Compact and lightweight
- Easy transport and installation.
- · Rotating electrical box

>> CONTINUOUS HEATING DURING DEFROSTING

Thanks to the double condenser, the first performs the defrosting process first, then the second, thus maintaining the indoor units in heating mode during the entire process. At the same time, the unit can work with a single condenser to compensate for the highest load of the system both in cold and heat, which represents substantial energy savings and remarkable energy efficiency in the cooling circuit.

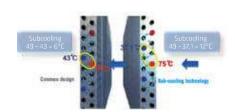






>> DOUBLE SUBCOOLING

AMAZON III PRO 3 pipes has a dual system of liquid subcooling that increases the system's energy efficiency. The delta-shaped heat exchanger shouldreduce its load loss by increasing liquid proportion and therefore, arranging longer pipeline lengths. Thanks to this subcooling technology, liquid temperatures at the condenser outlet may reach up to 37.1°C.



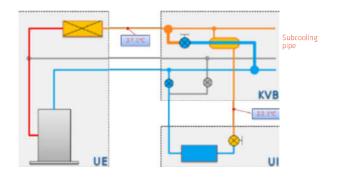
The second stage of the subcooling process is carried out in each series inverter box since, thanks to a small liquid bypass pipe, subcooling temperature may reach 22.1°C.

>> OPTIMISED FAN DESIGN

New ventilation system: one fan fitted with 3 blades and a second fan fitted with 4 blades. This reduces the effect of acoustic resonance that directly affects the noise level of the outdoor unit,

>> MAINTENANCE

Thanks to the rotary electrical box, the cooling circuit can be accessed more easily for maintenance and installation. At the same time, the electrical box is fitted with an inspection window at the electronic board to check any malfunction without disassembling it.

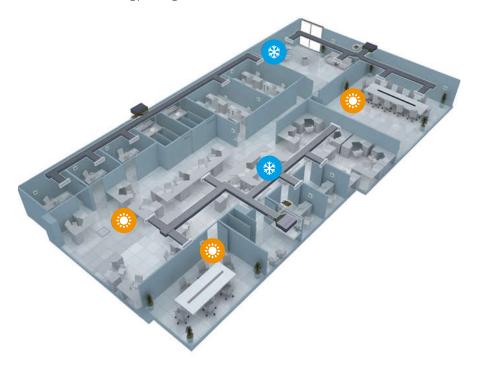




CHANGEOVER BOXES

>> SIMULTANEITY BETWEEN HEAT AND COLD

Thanks to the changeover boxes, the system is capable of providing heat and cold simultaneously, generating heat recovery in the system and therefore overall energy savings.



>> CHANGEOVER BOX MULTIGROUP

Available in versions of 2, 4 and 6 outputs, they support a maximum of 45 kW of capacity and up to 24 indoor units depending on the model (see table in the AMAZON III PRO Changeover Box section). Each output can work in a different mode.





AMAZON III PRO 3 PIPES

TECHNICAL SPECIFICATIONS

MODEL			K3F-252 DN3S	K3F-280 DN3S	K3F-335 DN3S	K3F-400 DN3S	K3F-450 DN3S
Capacity		HP	8	10	12	14	16
Cooling capacit	y rated	kW	25.2	28	33.5	40	45
Heating capaci	ty rated	kW	27	31.5	37.5	40	45
Cooling input ra	ated	W	7300	8620	11510	11490	14200
Heating input	rated	W	5910	7660	9660	9760	11900
	EER		3.45	3.24	3.91	3.48	3.17
Energy	COP		4.57	4.11	3.88	4.1	3.78
efficiency	SEER		5.9	5.92	5.82	5.82	5.59
	SCOP		4.15	4.15	4.24	4.01	4.01
N° indoor units	;		22	24	29	35	39
	Compressor type		Inverter	Inverter	Inverter	Inverter	Inverter
	N° compressor		1	1	1	2	2
	N° fans		2	2	2	2	2
Outdoor unit	Air flow	m³/h	12000	12000	13000	15000	15000
	Static pressure	Pa	40	40	40	40	40
	Sound pressure	dB(A)	57	57	58	60	60
	Width/height/depth	mm	1250 / 1615 / 765				
	Net weight	kg	255	255	255	303	303
	Power supply	V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
	Power wiring	mm²	(4+T)x2.50	(4+T)×4	(4+T)x6	(4+T)x10	(4+T)x16
Shielded comm	nunication wiring	mm²	3x1.50	3x1.50	3x1.50	3x1.50	3x1.50
	Type refrigerant		R-410A	R-410A	R-410A	R-410A	R-410A
	Refrigerant charge	kg	10	10	10	13	13
	Liquid pipe diameter	inch	3/8"	1/2"	1/2"	5/8"	5/8"
Refrigerant	High pressure gas pipe diameter	inch	3/4"	3/4"	3/4"	7/8"	7/8"
3	Low pressure gas pipe diameter	inch	7/8"	7/8"	1"	11/8"	11/8"
	Oil balance pipe diameter high pressure gas	inch	3/4"	3/4"	3/4"	3/4"	3/4"
	Oil balance pipe diameter	inch	1/4"	1/4"	1/4"	1/4"	1/4"
Working	Outdoor ambient temperature for cooling min./max.	°C	-5°C / 48°C				
range	Outdoor ambient temperature for heating min./max.	°C	-20°C / 24°C				

BRANCH PIPES - 3 PIPES

MODEL	
KCMI 113 (FRG100+FRG200+FRG200)	
KCMI 213 (FRG100+FRG200+FRG300)	
KCMI 313 (FRG200+FRG300+FRG300)	
KCMI 413 (FRG200+FRG300+FRG400)	
KCMI 513 (FRG300+FRG400+FRG500)	
,	

BRANCH PIPES - 2 PIPES

MODEL
KCMI 112 (FRG100+FRG200)

OUTDOOK MODULES IT IT I BRANCHES
MODEL
KCMER 32
KCMER 33
KCMER 34















Direct-expansion system for 3 pipes air-condensed units from 25.2 kW to 180 kW cooling power. Ideal for meeting the needs in medium and large industrial environments.

- High capacity Scroll DC Inverter compressors and ecological R410A refrigerant.
- Modular design with the option of combining the 5 individual modules (8-10-12-14 and 16 HP) up to 64 hp (4 modules maximum).
- Standard automatic redundancy between modules. It balances and extends the working life of the compressors of each module, whether of the Master unit or any of the Slaves.
- They allow for combinations containing up to 64 indoor units.
- It admits a 50 % to 150 % simultaneity index of the outdoor unit's power.
- Fitted with a vertical air discharge system, this range is able to make air circulates through the condensation system thanks to the 40 Pa available pressure supplied by its DC Inverter fan.
- · Cooling system with double liquid subcooling; the first system performs the subcooling process thanks to the delta-shaped heat exchanger and the second system carries out the subcooling process in each series inverter box, thereby reaching up to 22.1 °C and very high levels of energy efficiency.
- Up to 200 metres equivalent length between the outdoor unit and the farthest indoor unit (for further information, see the cooling distances tables).











CHANGEOVER BOXES 3 PIPES

TECHNICAL SPECIFICATIONS

MODEL			KVBM1 DN3	KVBM2 DN3	KVBM4 DN3	KVBM6 DN3	KVBH2 DN3
Cooling capacit	y max.	kW	16	28	45	45	28
Max. power per	routput	kW	16	16	16	16	16
N° indoor units			4	8	16	24	1
N° indoors per	output		4	4	4	4	-
	Width/height/depth	mm	630 / 225 / 600	630 / 225 / 600	960 / 225 / 600	960 / 225 / 600	630 / 225 / 600
Outdoor unit	Net weight	kg	19	19.5	31	35	19.5
	Power supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Power wiring	mm²	(2+T)×2.50	(2+T)×2.50	(2+T)x2.50	(2+T)x2.50	(2+T)×2.50
Shielded comm	nunication wiring	mm²	3x1.50	3x0.75	3×0.75	3x0.75	3x0.75
	Liquid pipe diameter	inch	3/8"	1/2"	5/8"	5/8"	1/2"
	High pressure gas pipe diameter	inch	5/8"	3/4"	7/8"	7/8"	3/4"
Refrigerant	Low pressure gas pipe diameter	inch	3/4"	1"	11/4"	11/4"	1"
	Outlet liquid pipe diameter	inch	3/8"	3/8"	3/8"	3/8"	3/8"
	Outlet gas pipe diameter	inch	5/8"	5/8"	5/8"	5/8"	5/8"



CHANGEOVER BOX MULTI

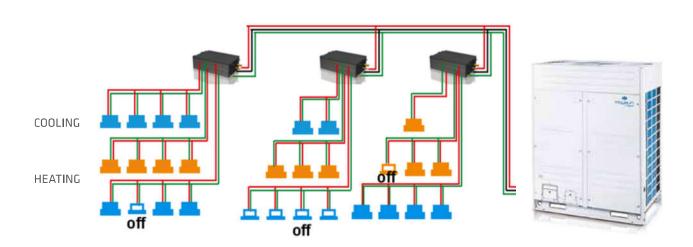


Thanks to the Changeover boxes, the system is capable of providing heat and cold simultaneously, generating heat recovery in the system and therefore overall energy savings.

KVBM boxes available in versions of 2.4 and 6 outputs, they support a maximum of 45 kW of capacity and up to 24 indoor units depending on the model. KVBH boxes are designed for high-capacity ducts units (for further information, please see attached table).

CHANGEOVER BOX MULTIGROUP

		PER 0	UTPUT	PER CHANG	EOVER BOX
MODEL	NUMBER OF OUTPUTS	Max UI Capacity (KW)	Max UI Capacity (Num)	Max UI Capacity (KW)	Max UI Capacity (Num)
KVBM1 DN3	1	16	4	16	4
KVBM2 DN3	2	16	4	28	8
KVBM4 DN3	4	16	4	45	16
KVBM6 DN3	6	16	4	45	24
KVBH2 DN3	2	-	-	28	1







● MINI AMAZON II 2 PIPES

HOW TO CHOOSE THE BRANCH AND THE REFRIGERANT PIPELINE

f 1 Selection of main pipe (L1) and its relevant drifter (A)

TABLE A								
CA DA CITY	TOTAL LENGTH OF LIQUID PIPE <45 M			TOTAL LENGTH OF LIQUID PIPE ≥45 M				
CAPACITY OF OUTDOOR UNIT	PIPE DIAMETE	R MM (INCHES)		PIPE DIAMETER MM (INCHES)		BD A NCH		
ONIT	GAS	LIQUID	BRANCH	GAS	LIQUID	BRANCH		
From 8 kW to 14 kW	Ø15.9 (5/8")	Ø9.5 (3/8")	KCMI 112	Ø19.1 (3/4")	Ø12.7 (1/2")	KCMI 112		
From 16 kW to 18 kW	Ø19.1 (3/4")	Ø9.5 (3/8")	KCMI 112	Ø22.2 (7/8'')	Ø12.7 (1/2")	KCMI 212		

Note: To select the main pipe, use the greater diameter between A and B.

2 Selection of main and middle pipes (L1,L2,L3,L4,L5) and their respective drifters (A,B,C)

TABLE B								
CAPACITY OF UNITS CONECTED		E BETWEEN FIRST BRANCH PIPE E FARTHEST INDOOR UNIT ≤20 M		DISTANCE BETWEEN FIRST BRANCH PIPE AND THE FARTHEST INDOOR UNIT ≤20 M				
TO DRIFTER OR OUTDOOR UNIT	PIPE DIAMETE	R MM (INCHES)	BRANCH	PIPE DIAMETER MM (INCHES)		BRANCH		
(X100W)	GAS	LIQUID	BRANCH	GAS	LIQUID	BRANCH		
A<160	Ø15.9 (5/8")	Ø9.5 (3/8")	KCMI 112	Ø19.1 (3/4")	Ø12.7 (1/2")	KCMI 112		
160≤A<230	Ø19.1 (3/4")	Ø9.5 (3/8")	KCMI 112	Ø22,2 (7/8")	Ø12,7 (1/2")	KCMI 212		
230≤A<330	Ø22.2 (7/8")	Ø9.5 (3/8")	KCMI 212	Ø22.2 (7/8")	Ø12.7 (1/2")	KCMI 212		

Note: The left side of this table corresponds to L1.

Intermediate pipes may not be larger than the upper pipe. L1>=L2 and L1>=L3>=L4 or L5.

A - Capacity of indoor unit/units

Selection of the right pipe for indoor units (a,b,c,d,e,f)

TABLE C							
INDOOR UNIT TOTAL CAPACITY (X100W)		WEEN DRIFTER R UNIT ≤10 M	DISTANCE BETWEEN DRIFTER AND INDOOR UNIT >10 M*				
	PIPE DIAMETE	R MM (INCHES)	PIPE DIAMETER MM (INCHES)				
	GAS	LIQUID	GAS	LIQUID			
A≤45	Ø12.7 (1/2")	Ø6.4 (1/4")	Ø15.9 (5/8")	Ø9.5 (3/8")			
56≤A≤160	Ø15.9 (5/8")	Ø9.5 (3/8")	Ø19.1 (3/4")	Ø12.7 (1/2")			

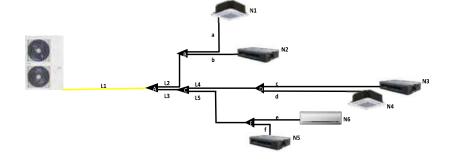
Note: *Applicable only when upper pipe is equal or higher than the diameter of the selected pipe. L4>=c and d.

A - Capacity of indoor unit/units

Important:

Each elbow and drifter equals to a pipe of 0.5 metres.

The minimum distance between branch pipes is 0.5m.





AMAZON UNITARIO FRONT AIR DISCHARGE 2 PIPES

HOW TO CHOOSE THE BRANCH AND THE REFRIGERANT PIPELINE

f 1 Selection of main pipe (L1) and its relevant drifter (A)

TABLE A								
CA DA CITY	TOTAL LENGTH OF LIQUID PIPE <45 M			TOTAL LENGTH OF LIQUID PIPE ≥45 M				
CAPACITY OF OUTDOOR	PIPE DIAMETEI	R MM (INCHES)	PIPE DIAMETER MM (INCHES)		DDANCH			
UNIT	GAS	LIQUID	BRANCH	GAS	LIQUID	BRANCH		
From 20 kW to 22.4 kW	Ø19.1 (3/4")	Ø9.5 (3/8")	KCMI 112	Ø22.2 (7/8")	Ø12.7 (1/2'')	KCMI 212		
26 kW	Ø22,2 (7/8")	Ø9.5 (3/8")	KCMI 212	Ø25.4 (1")	Ø12,7 (1/2")	KCMI 312		
40 kW	Ø25,4 (1")	Ø12,7 (1/2")	KCMI 312	Ø28,6 (1"-1/8)	Ø15.9 (5/8'')	KCMI 312		
45 kW	Ø25.4 (1")	Ø12.7 (1/2")	KCMI 312	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	KCMI 312		

Note: To select the main pipe, use the greater diameter between A and B.

2 Selection of main and middle pipes (L1,L2,L3,L4,L5) and their respective branches (A,B,C)

TABLE B								
CAPACITY OF UNITS CONECTED	DISTANCE BETWEEN FIRST BRANCH PIPE AND THE FARTHEST INDOOR UNIT ≤20 M			DISTANCE BETWEEN FIRST BRANCH PIPE AND THE FARTHEST INDOOR UNIT ≤20 M				
TO DRIFTER OR OUTDOOR UNIT	PIPE DIAMETE	R MM (INCHES)	DDANGII	PIPE DIAMETER MM (INCHES)		DD ANGU		
(X100W)	GAS	LIQUID	BRANCH	GAS	LIQUID	BRANCH		
A<166	Ø15.9 (5/8")	Ø9.5 (3/8")	KCMI 112	Ø19.1 (3/4")	Ø12.7 (1/2")	KCMI 112		
166≤A<230	Ø19.1 (3/4")	Ø9.5 (3/8")	KCMI 112	Ø22.2 (7/8")	Ø12.7 (1/2'')	KCMI 212		
230≤A<330	Ø22.2 (7/8")	Ø9.5 (3/8")	KCMI 212	Ø25.4 (1")	Ø12.7 (1/2")	KCMI 312		
330≤A<460	Ø25.4 (1")	Ø12.7 (1/2")	KCMI 312	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	KCMI 312		
460≤A<660	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	KCMI 312	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	KCMI 312		

Note: The left side of this table corresponds to L1. Intermediate pipes may not be larger than the upper pipe. L1>=L2 and L1>=L3>=L4 or L5

A - Capacity of indoor unit/units

$oldsymbol{3}$ Selection of the right pipe for indoor units (a,b,c,d,e,f)

TABLE C								
INDOOR UNIT TOTAL		WEEN DRIFTER R UNIT ≤10 M	DISTANCE BETWEEN DRIFTER AND INDOOR UNIT >10 M*					
CAPACITY (X100W)	PIPE DIAMETE	PIPE DIAMETER MM (INCHES)		R MM (INCHES)				
	GAS	LIQUID	GAS	LIQUID				
A≤45	Ø12.7 (1/2")	Ø6.4 (1/4")	Ø15.9 (5/8'')	Ø9.5 (3/8")				
56≤A≤160	Ø15.9 (5/8")	Ø9.5 (3/8")	Ø19.1 (3/4")	Ø12.7 (1/2")				
200	Ø19.1 (3/4")	Ø9.5 (3/8")	Ø22.2 (7/8")	Ø12.7 (1/2")				
250	Ø22.2 (7/8")	Ø9.5 (3/8")	Ø25.4 (1")	Ø12.7 (1/2")				
280	Ø22,2 (7/8")	Ø9.5 (3/8")	Ø25.4 (1")	Ø12,7 (1/2")				
400	Ø28.6 (1"-1/8)	Ø12,7 (1/2")	Ø28.6 (1"-1/8)	Ø12,7 (1/2")				
450	Ø28.6 (1"-1/8)	Ø12.7 (1/2")	Ø28.6 (1"-1/8)	Ø12.7 (1/2")				

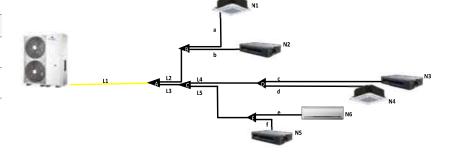
Note: *Applicable only when upper pipe is equal or higher than the diameter of the selected pipe. L4>=c and d

A - Capacity of indoor unit/units

Important:

Each elbow and drifter equals to a pipe of 0.5 metres.

The minimum distance between branch pipes is 0.5m.





● AMAZON UNITARIO TOP AIR DISCHARGE DN4 S 2 PIPES

HOW TO CHOOSE THE BRANCH AND THE REFRIGERANT PIPELINE

f 1 Selection of main pipe (L1) and its relevant drifter (A)

TABLE A TOTAL LENGTH OF LIQUID PIPE <90 M TOTAL LENGTH OF LIQUID PIPE ≥90 M CAPACITY PIPE DIAMETER MM (INCHES) PIPE DIAMETER MM (INCHES) OF OUTDOOR UNIT BRANCH BRANCH GAS LIQUID GAS LIQUID 28 kW Ø22.2 (7/8") Ø9.5 (3/8") KCMI 212 Ø25.4 (1") Ø12.7 (1/2") KCMI 312 33,5 to 40 kW Ø25.4 (1") Ø12.7 (1/2") **KCMI 312** Ø28.6 (1"-1/8) Ø15.9 (5/8") KCMI 312 45 kW Ø28.6 (1"-1/8) Ø12.7 (1/2") **KCMI 312** Ø34.9 (1"-3/8) Ø15.9 (5/8") KCMI 412 50 to 67 kW Ø28.6 (1"-1/8) Ø15.9 (5/8") KCMI 312 Ø34.9 (1"-3/8) Ø19.1 (3/4") KCMI 412 73 to 90kW Ø34.9 (1"-3/8) Ø19.1 (3/4") **KCMI 412** Ø41.3 (1"-5/8) Ø22.2 (7/8") KCMI 412

Note: To select the main pipe, use the greater diameter between A and B.

2 Selection of main and middle pipes (L1,L2,L3,L4,L5) and their respective drifters (A,B,C)

TABLE B								
CAPACITY OF UNITS CONECTED	DISTANCE BETWEEN FIRST BRANCH PIPE AND THE FARTHEST INDOOR UNIT ≤40 M			DISTANCE BETWEEN FIRST BRANCH PIPE AND THE FARTHEST INDOOR UNIT ≤40 M				
TO DRIFTER OR OUTDOOR UNIT	PIPE DIAMETE	R MM (INCHES)		PIPE DIAMETE	R MM (INCHES)	DD ANGU		
(x100W)	GAS	LIQUID	BRANCH	GAS	LIQUID	BRANCH		
A<168	Ø15.9 (5/8")	Ø9.5 (3/8")	KCMI 112	Ø19.1 (3/4")	Ø12.7 (1/2")	KCMI 112		
168≤A<224	Ø19.1 (3/4")	Ø9.5 (3/8")	KCMI 112	Ø22.2 (7/8")	Ø12.7 (1/2")	KCMI 212		
224≤A<330	Ø22.2 (7/8")	Ø9.5 (3/8")	KCMI 212	Ø25.4 (1")	Ø12.7 (1/2")	KCMI 312		
330≤A<470	Ø28.6 (1"-1/8)	Ø12.7 (1/2'')	KCMI 312	Ø34.9 (1"-3/8)	Ø15.9 (5/8")	KCMI 312		
470≤A<710	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	KCMI 312	Ø34.9 (1"-3/8)	Ø19.1 (3/4")	KCMI 412		
710≤A<1040	Ø34.9 (1"-3/8)	Ø19.1 (3/4")	KCMI 412	Ø41.3 (1"-5/8)	Ø22.2 (7/8")	KCMI 412		
1040≤A<1540	Ø41.3 (1"-5/8)	Ø19.1 (3/4")	KCMI 412	Ø41.3 (1"-5/8)	Ø22.2 (7/8")	KCMI 412		

Note: The left side of this table corresponds to L1. Intermediate pipes may not be larger than the upper pipe. L1>=L2 and L1>=L3>=L4 or L5.

A - Indoor units capacity

3 Selection of the right pipe for indoor units (a,b,c,d,e,f)

TABLE C							
INDOOR UNIT TOTAL		WEEN BRANCH R UNIT ≤10 M	DISTANCE BETWEEN BRANCH AND INDOOR UNIT >10 M*				
CAPACITY (x100W)	PIPE DIAMETE	R MM (INCHES)	PIPE DIAMETE	R MM (INCHES)			
	GAS	LIQUID	GAS	LIQUID			
A≤45	Ø12.7 (1/2")	Ø6.4 (1/4")	Ø15.9 (5/8")	Ø9.5 (3/8")			
56≤A≤160	Ø15.9 (5/8")	Ø9.5 (3/8")	Ø19.1 (3/4")	Ø12.7 (1/2")			
200	Ø19.1 (3/4")	Ø9.5 (3/8")	Ø22.2 (7/8")	Ø12.7 (1/2")			
250	Ø22.2 (7/8")	Ø9.5 (3/8")	Ø25.4 (1")	Ø12.7 (1/2")			
280	Ø22.2 (7/8")	Ø9.5 (3/8")	Ø25.4 (1")	Ø12.7 (1/2")			
400	Ø28.6 (1"-1/8)	Ø12.7 (1/2")	Ø28.6 (1"-1/8)	Ø12.7 (1/2")			
450	Ø28.6 (1"-1/8)	Ø12.7 (1/2")	Ø28.6 (1"-1/8)	Ø12.7 (1/2")			
560	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	Ø28.6 (1"-1/8)	Ø15.9 (5/8")			

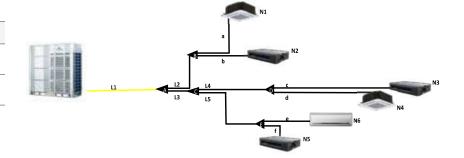
Note: *Applicable only when upper pipe is equal or higher than the diameter of the selected pipe. L4>=c and d. For 400,450 and 560kW capacities, when there are more than 40 metres from the first drifter to the unit, please refer the right side of Table B.

A - Capacity of indoor unit/units

Important:

Each elbow and drifter equals to a pipe of 0.5 metres.

The minimum distance between branch pipes is 0.5m.





• AMAZON III W 2 PIPES

HOW TO CHOOSE THE BRANCH AND THE REFRIGERANT PIPELINE

1 Selection of main pipe (L1) and its relevant drifter (A)

CADACITY	TOTAL L	ENGTH OF LIQUID PIPE	<90 M	TOTAL LENGTH OF LIQUID PIPE ≥90 M		
CAPACITY OF OUTDOOR UNIT	PIPE DIAMETER MM (INCHES)		BRANCH	PIPE DIAMETER MM (INCHES)		DDANGU
OF OUTDOOK GIVIT	GAS	LIQUID	BRANCH	GAS	LIQUID	BRANCH
25.2 kW	Ø22.2 (7/8")	Ø9.5 (3/8")	KCMI 212	Ø22.2 (7/8")	Ø12.7 (1/2")	KCMI 212
28 kW	Ø22.2 (7/8")	Ø9.5 (3/8")	KCMI 212	Ø25.4 (1")	Ø12.7 (1/2")	KCMI 312
33.5 kW	Ø25.4 (1")	Ø12.7 (1/2")	KCMI 312	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	KCMI 312
45 kW	Ø28.6 (1"-1/8)	Ø12.7 (1/2")	KCMI 312	Ø34.9 (1"-3/8)	Ø15.9 (5/8")	KCMI 312
From 50 to 61.5 kW	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	KCMI 312	Ø34.9 (1"-3/8)	Ø19.1 (3/4")	KCMI 412
67 kW	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	KCMI 312	Ø34.9 (1"-3/8)	Ø19.1 (3/4")	KCMI 412
From 73 to 95 kW	Ø34.9 (1"-3/8)	Ø19.1 (3/4")	KCMI 412	Ø41.3 (1"-5/8)	Ø22.2 (7/8")	KCMI 412
100 kW	Ø41.3 (1"-5/8)	Ø19.1 (3/4")	KCMI 412	Ø41.3 (1"-5/8)	Ø22.2 (7/8")	KCMI 412

Note: To select the main pipe, use the greater diameter between A and B.

2 Selection of main and middle pipes (L1,L2,L3,L4,L5) and their respective drifters (A,B,C)

CAPACITY OF UNITS CONECTED TO DRIFTER OR OUTDOOR UNIT (x100W)		BETWEEN FIRST BRAI FARTHEST INDOOR UN	3.710 A. M	DISTANCE BETWEEN FIRST BRANCH PIPE AND THE FARTHEST INDOOR UNIT ≤40 M		
	PIPE DIAMETER MM (INCHES)		DOANCH	PIPE DIAMETER MM (INCHES)		BRANCH
	GAS	LIQUID	BRANCH	GAS	LIQUID	DRANCH
A<166	Ø15.9 (5/8")	Ø9.5 (3/8")	KCMI 112	Ø19.1 (3/4")	Ø12.7 (1/2")	KCMI 112
166≤A<230	Ø19.1 (3/4")	Ø9.5 (3/8")	KCMI 112	Ø22.2 (7/8")	Ø12.7 (1/2")	KCMI 212
230≤A<330	Ø22.2 (7/8")	Ø9.5 (3/8")	KCMI 212	Ø25.4 (1")	Ø12.7 (1/2")	KCMI 312
330≤A<460	Ø28.6 (1"-1/8)	Ø12.7 (1/2")	KCMI 312	Ø34.9 (1"-3/8)	Ø15.9 (5/8")	KCMI 412
460≤A<660	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	KCMI 312	Ø34.9 (1"-3/8)	Ø19.1 (3/4")	KCMI 412
660≤A<920	Ø34.9 (1"-3/8)	Ø19.1 (3/4")	KCMI 412	Ø41.3 (1"-5/8)	Ø22.2 (7/8")	KCMI 412
920≤A<1350	Ø41.3 (1"-5/8)	Ø19.1 (3/4")	KCMI 412	Ø41.3 (1"-5/8)	Ø22.2 (7/8")	KCMI 412

Note: The left side of this table corresponds to L1. Intermediate pipes may not be larger than the upper pipe. L1>=L2 and L1>=L3>=L4 or L5.

A - Indoor units capacity

$\bf 3$ Selection of the right pipe for indoor units (a,b,c,d,e,f)

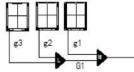
INDOOR UNIT TOTAL	DISTANCE BETV AND INDOOR		DISTANCE BETY AND INDOOR		
CAPACITY (x100W)	PIPE DIAMETER	R MM (INCHES)	PIPE DIAMETER MM (INCHES)		
	GAS	LIQUID	GAS	LIQUID	
A≤45	Ø12.7 (1/2")	Ø6.4 (1/4")	Ø15.9 (5/8")	Ø9.5 (3/8")	
56≤A≤160	Ø15.9 (5/8")	Ø9.5 (3/8")	Ø19.1 (3/4")	Ø12.7 (1/2")	
200	Ø19.1 (3/4")	Ø9.5 (3/8")	Ø22.2 (7/8")	Ø12.7 (1/2")	
250	Ø22.2 (7/8")	Ø9.5 (3/8")	Ø25.4 (1")	Ø12.7 (1/2")	
280	Ø22.2 (7/8")	Ø9.5 (3/8")	Ø25.4 (1")	Ø12.7 (1/2")	
400	Ø28.6 (1"-1/8)	Ø12.7 (1/2")	Ø28.6 (1"-1/8)	Ø12.7 (1/2")	
450	Ø28.6 (1"-1/8)	Ø12.7 (1/2")	Ø28.6 (1"-1/8)	Ø12.7 (1/2")	
560	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	

Note: *Applicable only when upper pipe is equal or higher than the diameter of the selected pipe. L4>=c and d. For 400,450 and 560kW capacities, when there are more than 40 metres from the first drifter to the unit, please refer the right side of Table B.

A - Capacity of indoor unit/units

4 Selection of drifters (L,M) and pipes (G1,g1,g2,g3) of outdoor unit when there is more than one outdoor module.

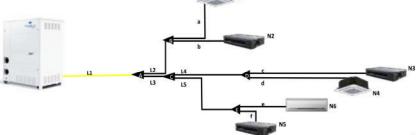
NUMBER OF ONLINE	BRANCH MODEL	PIPES	OUTDOOR UNIT MODULES	PIPE DIAMETER MM (INCHES)		
OUTDOOR UNITS	BRANCH MUDEL	DEL PIPES CAPACITY	CAPACITY	GAS	LIQUID	
2 (L)	KCME 12	Not required				
3 (L and M)	KCME 13	G1	All possibilities	Ø41.3 (1"-5/8)	Ø19.1 (3/4")	
1955-676 NE - NE	2903	-1 -2 -ud -2	From 25.2 to 28 kW	Ø25.4 (1")	Ø12.7 (1/2")	
	F1	g1,g2 and g3	33.5 kW	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	



Important:

Each elbow and drifter equals to a pipe of 0.5 metres.

The minimum distance between branch pipes is 0.5m.







HOW TO CHOOSE THE BRANCH AND THE REFRIGERANT PIPELINE

f 1 Selection of main pipe (L1) and its relevant drifter (A)

TABLE A						
	TOTAL	ENGTH OF LIQUID PIPE	<90 M	TOTAL LENGTH OF LIQUID PIPE ≥90 M		
CAPACITY OF OUTDOOR UNIT	PIPE DIAMETE	R MM (INCHES)	BRANCH	PIPE DIAMETER MM (INCHES)		DDANGU
	GAS	LIQUID	BRANCH	GAS	LIQUID	BRANCH
25,2 kW	Ø19.1 (3/4")	Ø9.5 (3/8")	KCMI 112	Ø22.2 (7/8")	Ø12.7 (1/2")	KCMI 212
28 kW	Ø22.2 (7/8")	Ø9.5 (3/8")	KCMI 212	Ø25.4 (1")	Ø12.7 (1/2")	KCMI 312
33,5 hasta 40 kW	Ø25.4 (1")	Ø12.7 (1/2")	KCMI 312	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	KCMI 312
45 kW	Ø28.6 (1''-1/8)	Ø12.7 (1/2")	KCMI 312	Ø34.9 (1"-3/8)	Ø15.9 (5/8")	KCMI 412
50 hasta 67 kW	Ø28.6 (1''-1/8)	Ø15.9 (5/8")	KCMI 312	Ø34.9 (1"-3/8)	Ø19.1 (3/4")	KCMI 412
73 hasta 95 kW	Ø34.9 (1"-3/8)	Ø19.1 (3/4")	KCMI 412	Ø41.3 (1"-5/8)	Ø22.2 (7/8")	KCMI 412
101,5 hasta 151,5 kW	Ø41.3 (1"-5/8)	Ø19.1 (3/4")	KCMI 412	Ø53.9 (2"-1/8)	Ø22.2 (7/8")	KCMI 512
157 hasta 185 kW	Ø41.3 (1"-5/8)	Ø19.1 (3/4")	KCMI 412	Ø53.9 (2"-1/8)	Ø22.2 (7/8")	KCMI 512
191,5 hasta 230 kW	Ø53.9 (2''-1/8)	Ø22.2 (7/8")	KCMI 512	Ø53.9 (2"-1/8)	Ø25.4 (1")	KCMI 512
236 hasta 270 kW	Ø53.9 (2"-1/8)	Ø25.4 (1")	KCMI 512	Ø53.9 (2"-1/8)	Ø28.6 (1"-1/8)	KCMI 512

Note: To select the main pipe, use the greater diameter between A and B.

2 Selection of main and intermediate pipes (L1,L2,L3,L4,L5) and their respective drifters (A,B,C):

ABLE B						
CAPACITY OF UNITS CONECTED	LENGTH BETWEEN	I THE FIRST BRANCH A INDOOR UNIT ≤40 M.	ND THE FARTHEST	LENGTH BETWEEN THE FIRST BRANCH AND THE FARTHEST INDOOR UNIT >40 M.		
TO BRANCH OR OUTDOOR UNIT	PIPE DIAMETE	R MM (INCHES)	DD ANGL	PIPE DIAMETE	DD ANGU	
(x100W)	GAS	LIQUID	BRANCH	GAS	LIQUID	BRANCH
A<166	Ø15.9 (5/8")	Ø9.5 (3/8")	KCMI 112	Ø19.1 (3/4")	Ø12.7 (1/2")	KCMI 112
166≤A<230	Ø19.1 (3/4")	Ø9.5 (3/8")	KCMI 112	Ø22.2 (7/8")	Ø12.7 (1/2")	KCMI 212
230≤A<330	Ø22.2 (7/8")	Ø9.5 (3/8")	KCMI 212	Ø25.4 (1")	Ø12.7 (1/2")	KCMI 312
330≤A<460	Ø28.6 (1"-1/8)	Ø12.7 (1/2")	KCMI 312	Ø34.9 (1"-3/8)	Ø15.9 (5/8")	KCMI 312
460≤A<660	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	KCMI 312	Ø34.9 (1"-3/8)	Ø15.9 (5/8")	KCMI 412
660≤A<920	Ø34.9 (1"-3/8)	Ø19.1 (3/4'')	KCMI 412	Ø34.9 (1"-3/8)	Ø19.1 (3/4'')	KCMI 412
920≤A<1350	Ø41.3 (1"-5/8)	Ø19.1 (3/4'')	KCMI 412	Ø41.3 (1''-5/8)	Ø22.2 (7/8")	KCMI 412
1350≤A<1800	Ø41.3 (1"-5/8)	Ø22.2 (7/8")	KCMI 412	Ø53.9 (2"-1/8)	Ø22.2 (7/8")	KCMI 512
1800≤A	Ø53.9 (2"-1/8)	Ø25.4 (1")	KCMI 512	Ø53.9 (2"-1/8)	Ø25.4 (1")	KCMI 512

Note: The left side of this table corresponds to L1. Intermediate pipes may not be larger than the upper pipe. L1>=L2 and L1>=L3>=L4 or L5.

A - Indoor units capacity

$\bf 3$ Selection of the right pipe for indoor units (a,b,c,d,e,f)

TABLE C DISTANCE BETWEEN BRANCH DISTANCE BETWEEN BRANCH AND INDOOR UNIT ≤10 M AND INDOOR UNIT >10 M* INDOOR UNIT TOTAL CAPACITY (x100W) PIPE DIAMETER MM (INCHES) PIPE DIAMETER MM (INCHES) GAS LIQUID A≤45 Ø12.7 (1/2") Ø6.4 (1/4") Ø15.9 (5/8") Ø9.5 (3/8") 56≤A≤160 Ø15.9 (5/8") Ø9.5 (3/8") Ø19.1 (3/4") Ø12.7 (1/2") 200 Ø19.1 (3/4") Ø22.2 (7/8") Ø12.7 (1/2") Ø9.5 (3/8") Ø25.4 (1") Ø12.7 (1/2") 250 Ø22.2 (7/8") Ø9.5 (3/8") 280 Ø12.7 (1/2") Ø22.2 (7/8") Ø9.5 (3/8") Ø25.4 (1") 400 Ø28.6 (1"-1/8) Ø28.6 (1"-1/8) Ø12.7 (1/2") Ø12.7 (1/2") 450 Ø28.6 (1"-1/8) Ø12.7 (1/2") Ø28.6 (1"-1/8) Ø12.7 (1/2") Ø28.6 (1"-1/8) Ø15.9 (5/8") Ø28.6 (1"-1/8) 560 Ø15.9 (5/8")

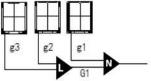
Note: *Applicable only when upper pipe is equal or higher than the diameter of the selected pipe. L4>=c and d. For 400,450 and 560kW capacities, when there are more than 40 metres from the first drifter to the unit, please refer the right side of Table B.

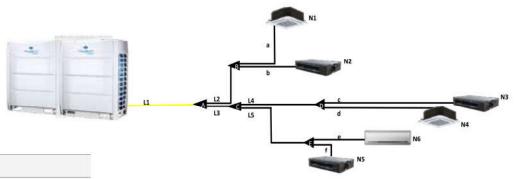
A - Capacity of indoor unit/units



4 Selection of drifters (L,M,N) and pipes (G1,G2,g1,g2,g3,g4) of outdoor unit when there is more than one outdoor module.

NUMBER OF ONLINE	DD ANGU MODEL	PIPES	OUTDOOR UNIT	PIPE DIAMETER MM (INCHES)	
OUTDOOR UNITS	BRANCH MODEL		MODULES CAPACITY	GAS	LIQUID
2 (L)	KCME 12.6		uired		
3 (L y M)	KCME 13.6	G1	All possibilities	Ø41.3 (1"-5/8)	Ø22.2 (7/8")
			25,2 to 33,5 kW	Ø25.4 (1")	Ø12.7 (1/2")
		g1, g2 y g3	40 to 61,5 kW	Ø34.9 (1"-3/8")	Ø15.9 (5/8")
			67 to 90 kW	Ø41.3 (1"-5/8")	Ø19.1 (3/4")





Important:

Each elbow and drifter equals to a pipe of 0.5 metres.

The minimum distance between branch pipes is 0.5m.





HOW TO CHOOSE THE BRANCH AND THE REFRIGERANT PIPELINE

1 Selection of main pipe (L1) and its relevant drifter (A)

TABLE A								
	Т	OTAL LENGTH OF LI	QUID PIPE <90 M		TOTAL LENGTH OF LIQUID PIPE ≥90 M			
CAPACITY OF OUTDOOR	PIPE C	NAMETER MM (INC	HES)		PIPE DIAMETER MM (INCHES)			
UNIT	HIGH-PRESSURE GAS	HIGH-PRESSURE GAS	LIQUID	Ph	HIGH- PRESSURE GAS	HIGH- PRESSURE GAS	LIQUID	BRANCH
25.2 kW	Ø22.2 (7/8")	Ø19.1 (3/4")	Ø9.5 (3/8")	KCMI 213	Ø22.2 (7/8")	Ø19.1 (3/4")	Ø12.7 (1/2")	KCMI 213
28 kW	Ø22.2 (7/8")	Ø19.1 (3/4")	Ø12.7 (1/2")	KCMI 213	Ø22,2 (7/8")	Ø19.1 (3/4")	Ø12.7 (1/2")	KCMI 213
33.5 kW	Ø25.4 (1")	Ø19.1 (3/4")	Ø12.7 (1/2")	KCMI 313	Ø25.4 (1")	Ø19.1 (3/4")	Ø15.9 (5/8")	KCMI 313
From 40 to 45 kW	Ø28.6 (1"-1/8)	Ø22.2 (7/8")	Ø15.9 (5/8")	KCMI 313	Ø28.6 (1"-1/8)	Ø22.2 (7/8")	Ø15.9 (5/8")	KCMI 313
From 50 to 61.5 kW	Ø34.9 (1"-3/8)	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	KCMI 413	Ø34.9 (1"-3/8)	Ø28.6 (1"-1/8)	Ø19.1 (3/4")	KCMI 413
67 kW	Ø34.9 (1"-3/8)	Ø28.6 (1"-1/8)	Ø15.9 (5/8")	KCMI 413	Ø34.9 (1"-3/8)	Ø28.6 (1"-1/8)	Ø19.1 (3/4")	KCMI 413
From 73 to 95 kW	Ø34.9 (1"-3/8)	Ø28.6 (1"-1/8)	Ø19.1 (3/4")	KCMI 413	Ø34.9 (1"-3/8)	Ø28.6 (1"-1/8)	Ø22.2 (7/8")	KCMI 413
From 100 to 140 kW	Ø41.3 (1"-5/8)	Ø34.9 (1"-3/8)	Ø19.1 (3/4")	KCMI 513	Ø41.3 (1"-5/8)	Ø34.9 (1"-3/8)	Ø22.2 (7/8")	KCMI 513
From 145 to 185 kW	Ø53.9 (2"-1/8)	Ø41.3 (1"-5/8)	Ø22.2 (7/8")	KCMI 513	Ø53.9 (2"-1/8)	Ø41.3 (1"-5/8)	Ø25.4 (1")	KCMI 513

Note: To select the main pipe, use the greater diameter between A and B.

2 Selection of main and intermediate pipes (L1,L2,L3,L4,L5,L6,L7,L8,L9,L10,L11) and their respective drifters (A,B,C,D,E):

TABLE B								
CAPACITY OF		TANCE BETWEEN I			DISTANCE BETWEEN FIRST BRANCH PIPE AND THE FARTHEST INDOOR UNIT ≤40 M			
UNITS CONECTED TO BRANCH OR PIFOUTDOOR UNIT	PIPE D	PIPE DIAMETER MM (INCHES)			PIPE [PIPE DIAMETER MM (INCHES)		
(x100W)	W) HIGH- HIGH- PRESSURE PRESSURE LIQUID GAS GAS	BRANCH	HIGH- PRESSURE GAS	HIGH- PRESSURE GAS	LIQUID	BRANCH		
A<56	Ø12.7 (1/2")	Ø9.5 (3/8")	Ø6.4 (1/4")	KCMI 113	Ø15.9 (5/8")	Ø12.7 (1/2'')	Ø9.5 (3/8")	KCMI 113
56≤A<166	Ø19.1 (3/4")	Ø15.9 (5/8")	Ø9.5 (3/8")	KCMI 113	Ø22.2 (7/8")	Ø19.1 (3/4")	Ø12.7 (1/2")	KCMI 213
166≤A<230	Ø22.2 (7/8")	Ø19.1 (3/4")	Ø9.5 (3/8")	KCMI 213	Ø25.4 (1")	Ø22.2 (7/8")	Ø12.7 (1/2")	KCMI 313
230≤A<330	Ø22.2 (7/8")	Ø19.1 (3/4")	Ø12.7 (1/2'')	KCMI 213	Ø25.4 (1")	Ø22.2 (7/8")	Ø15.9 (5/8")	KCMI 313
330≤A<460	Ø28.6 (1"-1/8)	Ø22.2 (7/8")	Ø12.7 (1/2'')	KCMI 313	Ø34.9 (1"-3/8)	Ø25.4 (1")	Ø15.9 (5/8")	KCMI 313
460≤A<660	Ø28.6 (1"-1/8)	Ø22.2 (7/8")	Ø15.9 (5/8")	KCMI 313	Ø34.9 (1"-3/8)	Ø25.4 (1")	Ø19.1 (3/4'')	KCMI 413
660≤A<920	Ø34.9 (1"-3/8)	Ø28.6 (1"-1/8)	Ø19.1 (3/4")	KCMI 413	Ø41.3 (1"-5/8)	Ø34.9 (1"-3/8)	Ø22.2 (7/8")	KCMI 513
920≤A<1350	Ø41.3 (1"-5/8)	Ø34.9 (1"-3/8)	Ø19.1 (3/4")	KCMI 513	Ø53.9 (2"-1/8)	Ø41.3 (1"-5/8)	Ø22.2 (7/8")	KCMI 513
1350≤A	Ø53.9 (2"-1/8)	Ø41.3 (1"-5/8)	Ø22.2 (7/8")	KCMI 513	Ø53.9 (2"-1/8)	Ø41.3 (1"-5/8)	Ø22.2 (7/8")	KCMI 513

Note: The left side of this table corresponds to L1. Intermediate pipes may not be larger than the upper pipe. L1>=L2>=L3>=L4 or L1>=L7>=L9.

A - Indoor units capacity

3 Selection of pipes in indoor units (a,b,c,d,e,f,g,h,i,j,k,l,m,n) and their respective drifters (F,G,H,I)

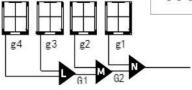
CAPACITY		H BETWEEN KVB BOX/E AND INDOOR UNIT ≤10 M		LENGTH BETWEEN KVB BOX/BRANCH AND INDOOR UNIT >10 M*			
OF INDOOR UNIT (x100W) PIPE DIAME	PIPE DIAMETE	PIPE DIAMETER MM (INCHES)		PIPE DIAMETER MM (INCHES)			
	GAS	LIQUID	BRANCH	GAS	LIQUID	BRANCH	
A≤45	Ø12.7 (1/2")	Ø6.4 (1/4")	KCMI 112	Ø15.9 (5/8")	Ø9.5 (3/8")	KCMI 112	
56≤A≤160	Ø15.9 (5/8")	Ø9.5 (3/8")	KCMI 112	Ø19.1 (3/4")	Ø12.7 (1/2")	KCMI 112	
200	Ø19.1 (3/4")	Ø9.5 (3/8")		Ø22.2 (7/8")	Ø12.7 (1/2")		
250	Ø22.2 (7/8")	Ø9.5 (3/8")		Ø25.4 (1")	Ø12.7 (1/2")		
280	Ø22.2 (7/8")	Ø9.5 (3/8")	N.A	Ø25.4 (1")	Ø12.7 (1/2")		
400	Ø28.6 (1"-1/8)	Ø12.7 (1/2")	Not applicable	Ø28.6 (1"-1/8)	Ø12,7 (1/2")	Not applicable	
450	Ø28.6 (1"-1/8)	Ø12.7 (1/2")		Ø28.6 (1"-1/8)	Ø12.7 (1/2")		
560	Ø28.6 (1"-1/8)	Ø15.9 (5/8")		Ø28.6 (1"-1/8)	Ø15.9 (5/8")	1	

A - Indoor units capacity



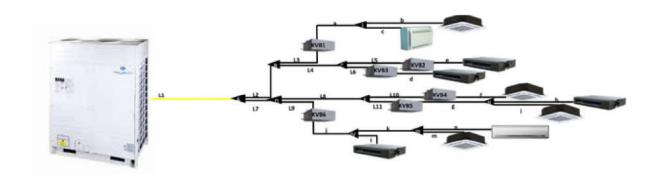
4 Selection of drifters (L,M,N) and pipes (G1,G2,g1,g2,g3,g4) of outdoor unit when there is more than one outdoor module.

NUMBER OF ONLINE		PIPES	OUTDOOR UNIT MODULES CAPACITY	PIPE DIAMETER MM (INCHES)			
OUTDOOR UNITS	BRANCH MODEL			HIGH-PRESSURE GAS	HIGH-PRESSURE GAS	LIQUID	
2 (L)	KCMER 32	Not required					
3 (L and M)	KCMER 33	G1	All possibilities	Ø34.9 (1"-3/8)	Ø28.6 (1"-1/8)	Ø19.1 (3/4")	
4 (L, M and N)	KCMER 34	G1 and G2	All possibilities	Ø41.3 (1"-5/8)	Ø34.9 (1"-3/8)	Ø22.2 (7/8")	
			From 25.2 to 33.5 kW	Ø22.2 (7/8")	Ø19.1 (3/4")	Ø12.7 (1/2")	
		g1,g2,g3 and g4	From 40 to 45 kW	Ø28.6 (1"-1/8)	Ø22.2 (7/8")	Ø15.9 (5/8")	



5 Selection of KVB boxes (1,2,3,4,5,6)

TABLE E CAPACITY PER OUTPUT CAPACITY PER KVB MODEL CAPACITY (KW) QUANTITY (NO) CAPACITY (KW) QUANTITY (NO) Max. IU Max. IU Max. IU Max. IU KVBM2 DN3 16 28 KVBM4 DN3 16 4 45 16 KVBM6 DN3 16 45 24 KVBH2 DN3 28 Not applicable 1 KVBH4 DN3



Important:

Each elbow and drifter equals to a pipe of 0.5 metres.

The minimum distance between branch pipes is 0.5m.



• DISTANCES AND HEIGHTS 2 PIPES



MINI AMAZ	ZON II		8/10,5 KW	12/14/16/18KW
	Total length from outdoor unit to all the	≤100m		
	Length between the outdoor unit and	Real	≤45m	≤60m
PIPING LENGTH	the furthest indoor unit.	Equivalent	≤50m	≤70m
	Length between the first distributor and	≤20 (40m*)		
	Length between one indoor unit and the	15m		
	Level difference between outdoor unit	The outdoor unit is higher than the indoor unit.	≤30m	
HEIGHT DIFFERENCE	and indoor unit	The outdoor unit is lower than the indoor unit.	≤20m	
	Level difference between indoor units		≤8m	

^{*}Check for lengths between 20 and 40 metres.



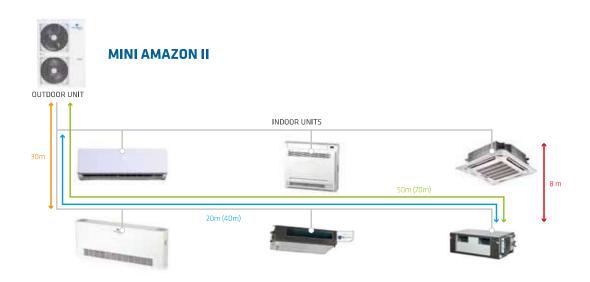
AMAZON V			ALL MODULES
PIPING LENGTH	Total length from outdoor unit to all the indoor units.		≤ 1000m
	Length between the outdoor unit and the furthest indoor unit.	Real	≤ 175m
		Equivalent	≤ 200m
	Length between the first distributor and the furthest indoor unit.		≤ 40 (90m*)
	Length between one indoor unit and the closest distributor.		-
HEIGHT DIFFERENCE	Level difference between outdoor unit and indoor unit.	The outdoor unit is higher than the indoor unit.	≤ 110m
		The outdoor unit is lower than the indoor unit.	≤90m
	Level difference between indoor units.		≤ 30m

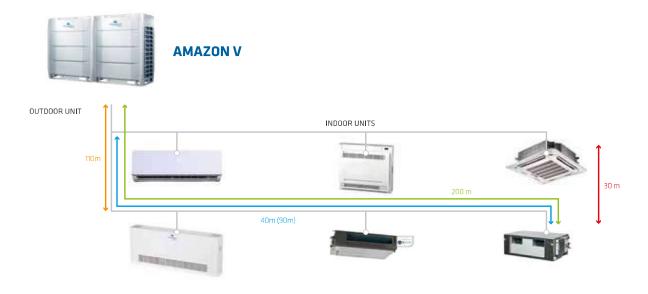
^{*}Check for lengths between 40 and 90 metres.



AMAZON III W		8/10/12 HP	
PIPING LENGTH	Total length from outdoor unit to all the indoor units.		≤300m
	Length between the outdoor unit and the furthest indoor unit.	Real	≤120m
		Equivalent	≤150m
	Length between the first distributor and the furthest indoor unit.		≤40 (90 m*)
	Length between one indoor unit and the closest distributor.		-
HEIGHT DIFFERENCE	Level difference between outdoor unit and indoor unit.	The outdoor unit is higher than the indoor unit.	≤50m
		The outdoor unit is lower than the indoor unit.	≤40m
	Level difference between indoor units.		≤30m

^{*}Check for lengths between 40 and 90 metres.









•• DISTANCES AND HEIGHTS 2 PIPES



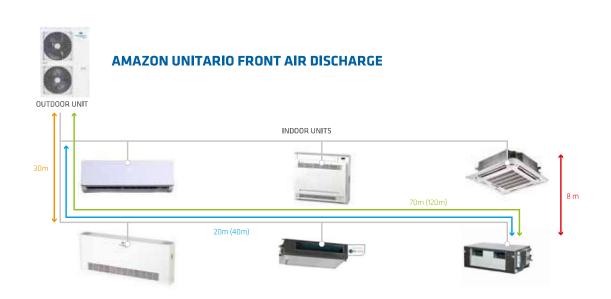
AMAZON UNITARIO FRONT AIR DISCHARGE			20/22/24 KW	28/33.5 KW	40/45 KW
	Total length from outdoor unit to all the indoor units.		≤120m	≤150m	≤250m
	Length between the outdoor unit and the furthest indoor unit.	Real	≤60m	≤100m	≤100m
PIPING LENGTH		Equivalent	≤70m	≤110m	≤120m
	Length between the first distributor and the furthest indoor unit.		≤20m	≤40 m	≤40 m
	Length between one indoor unit and the closest distributor.		≤15m	≤15m	≤15m
	Level difference between outdoor unit and indoor unit.	The outdoor unit is higher than the indoor unit.	≤30m	≤50m	≤30m
HEIGHT DIFFERENCE		The outdoor unit is lower than the indoor unit.	≤20m	≤40m	≤20m
	Level difference between indoor units.		≤8m	≤15m	≤8m

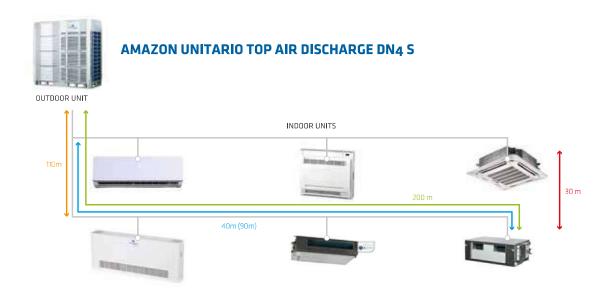


AMAZON U	AMAZON UNITARIO TOP AIR DISCHARGE DN4 S		ALL MODULES
PIPING LENGTH	Total length from outdoor unit to all the indoor units.		≤ 1000m
	Length between the outdoor unit and the furthest indoor unit.	Real	≤ 175m
		Equivalent	≤ 200m
	Length between the first distributor and the furthest indoor unit.		≤ 40 (90m*)
	Length between one indoor unit and the closest distributor.		-
HEIGHT DIFFERENCE	Level difference between outdoor unit and indoor unit.	The outdoor unit is higher than the indoor unit.	≤ 110m
		The outdoor unit is lower than the indoor unit.	≤90m
	Level difference between indoor units.		≤ 30m

^{*}Check for lengths between 40 and 90 metres.









• DISTANCES AND HEIGHTS 3 PIPES

AMAZON III PRO 3-PIPES



AMAZON III PRO			ALL MODULES
PIPING LENGTH	Total length from outdoor unit to all the indoor units.		≤1000 m
	Length between the outdoor unit and the furthest indoor unit.	Real	≤175 m
		Equivalent	≤200 m
	Length between the first distributor and the furthest indoor unit.		≤40m (90 m)
HEIGHT DIFFERENCE	Level difference between outdoor unit and indoor unit.	The outdoor unit is higher than the indoor unit.	≤110m
		The outdoor unit is lower than the indoor unit.	≤ 70 m
	Level difference between indoor units.		≤ 30 m

^{*}Length between the KVB box and the furthest indoor unit. 40 m.





^{*}Check for lengths between 40 and 90 metres.