

YORK AIR-CONDITIONING PRODUCTS

Residential & VRF 2012



A photograph of a vast, open landscape. In the foreground, there is a field of tall, green grass dotted with numerous small, bright yellow flowers, likely buttercups. The field extends towards a dense line of trees in the middle ground. Above the trees, the sky is filled with heavy, greyish-white clouds, suggesting an overcast day or the approach of rain. The overall atmosphere is one of a rural, natural setting.

At Johnson Controls, we look at buildings in a way very few others have ever imagined. When we look at a building, we see beyond the bricks and mortar. Beyond the steel and glass. We see a bigger picture. We see the power of the human enterprise.

That's why we create buildings and environments that help people achieve – and that give buildings, businesses and people every opportunity to reach their full potential.



Residential & VRF Air-conditioning solutions

Every market is unique in air-conditioning requirements. In this catalogue our customers will be able to select the different options for residential market and VRF solutions for Light-Commercial market.

Johnson Controls wants to offer all the possible solutions for different building design and technical requirements, and the air-conditioning is an important part of those global solutions.



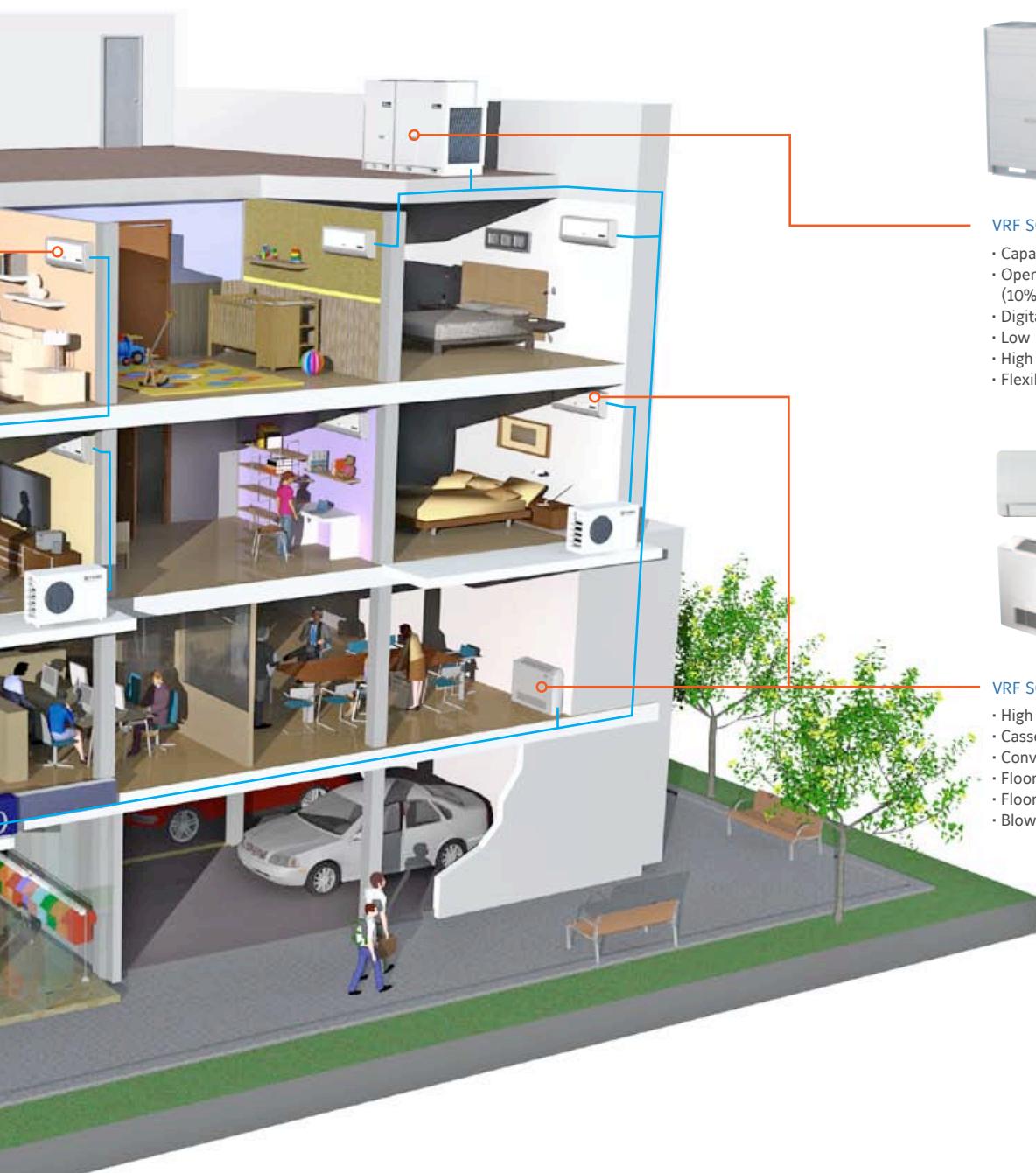
MINISPLIT SOLUTIONS

- High Wall inverter
- Multisplit inverter
- Console inverter
- Floor/ceiling inverter
- Cassette inverter
- Blower inverter
- High Wall on/off
- High Wall multisplit on/off
- Floor/ceiling on/off
- Cassette on/off
- Blower on/off
- Window unit



The majority of our products are already rated as Class A for Energy Efficiency, in order to guarantee a high level of comfort.

According to the market necessities our customers can find the best solution in our wide product range depending on the building characteristics.



VRF SOLUTIONS (Outdoor units)

- Capacities from 10 to 180 kW
- Operating range of nominal power (10% - 100 %)
- Digital Scroll Technology
- Low noise levels
- High performance
- Flexible and quickly installation



VRF SOLUTIONS (Indoor units)

- High Wall
- Cassette
- Convertible console floor/ceiling
- Floor standing
- Floor standing concealed
- Blower

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Cooling capacity kW



2.5 - 7.0

2.6 - 6.4

2.4 - 6.0

5.0 - 11.6

2.7 - 5.3

3.0 - 16.0

3.4 - 11.0

2.7 - 15.8

2.7 - 6.3

2.5 - 6.3

5.6 - 7.0

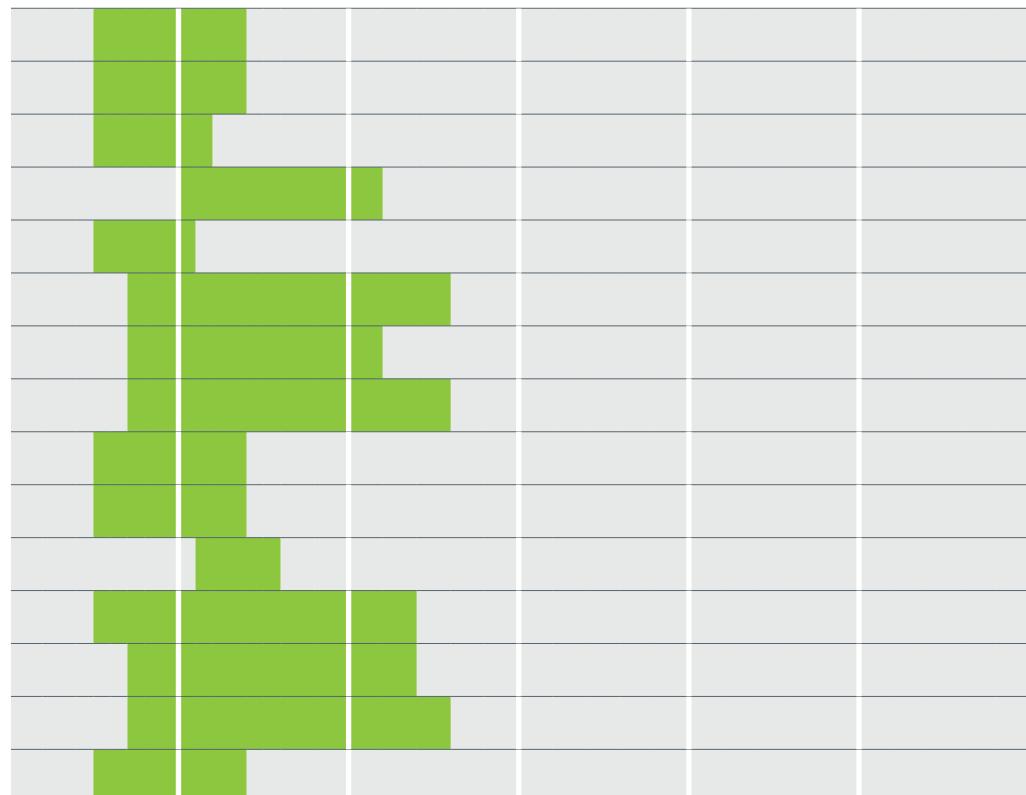
2.5 - 13.2

3.5 - 13.2

3.5 - 16.0

2.8 - 6.2

10 - 180



YORK AIR-CONDITIONING PRODUCTS



Minisplit Inverter Systems

HIGH WALL UNITS

MULTISPLITS FREE COMBINATION

CONSOLE, CASSETTE, FLOOR/CEILING &
BLOWER UNITS



YORK AIR-CONDITIONING PRODUCTS





efficient comfort

HIGH EFFICIENCY INVERTER RANGE

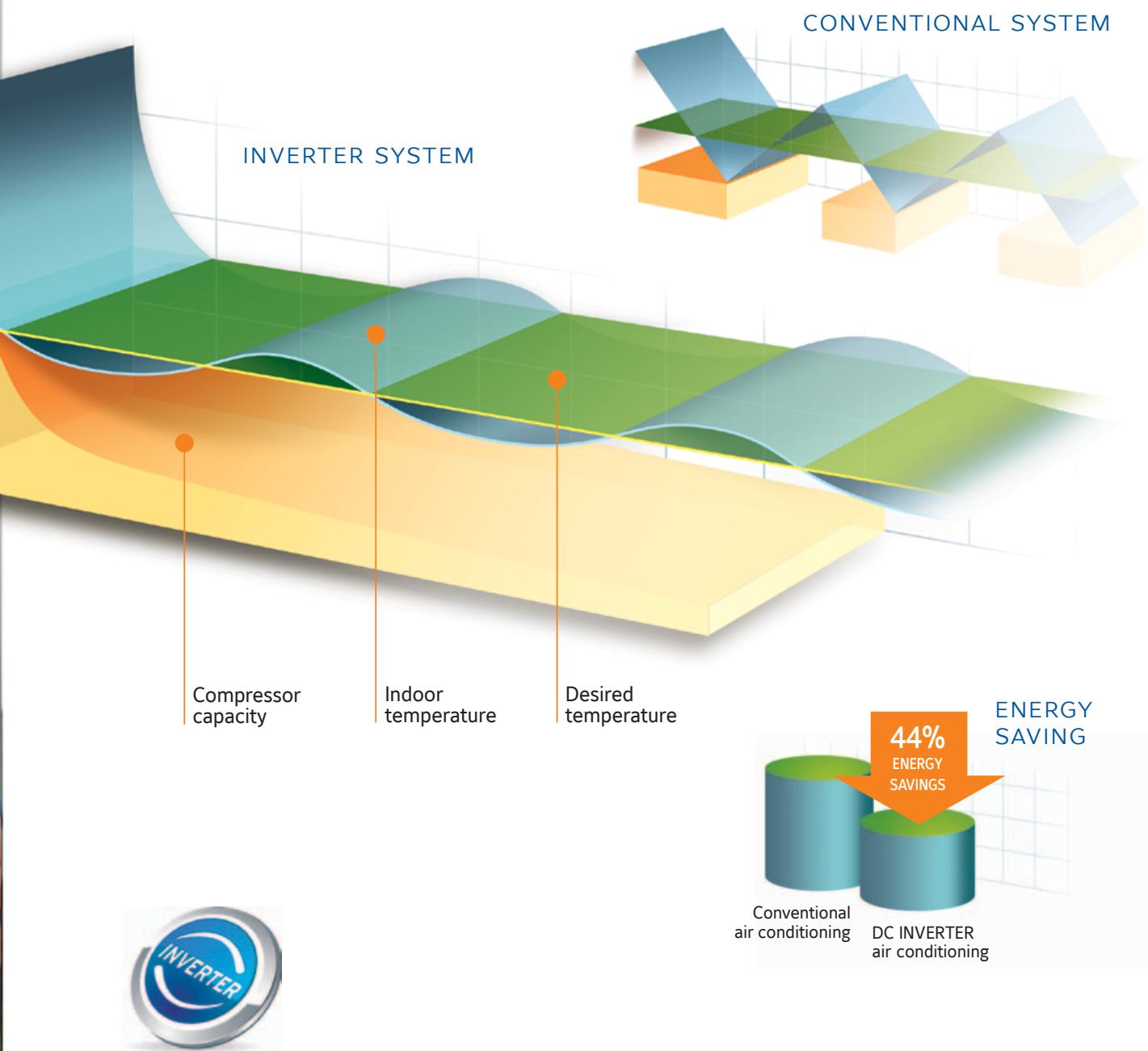
The High Wall inverter air conditioners have been designed thinking about comfort and sustainability. Comfort as the ultimate technology of DC Inverter compressor installed in these units is able to achieve performances of 4.25 COP in heating and cooling mode, the temperature variations in the room are minimized and the noise level is lower. The active carbon electrostatic filter improves the air quality and thanks to the motorized louver system, the air is distributed equally in the room.

Sustainable because the high efficiency of the unit results in a very low energy consumption, one of the most efficient in the market, the materials used are recyclable and free of hazardous substances, all together makes this unit the appropriate choice for conditioning your home.





INVERTER SYSTEM HIGHER EFFICIENCY AND COMFORT



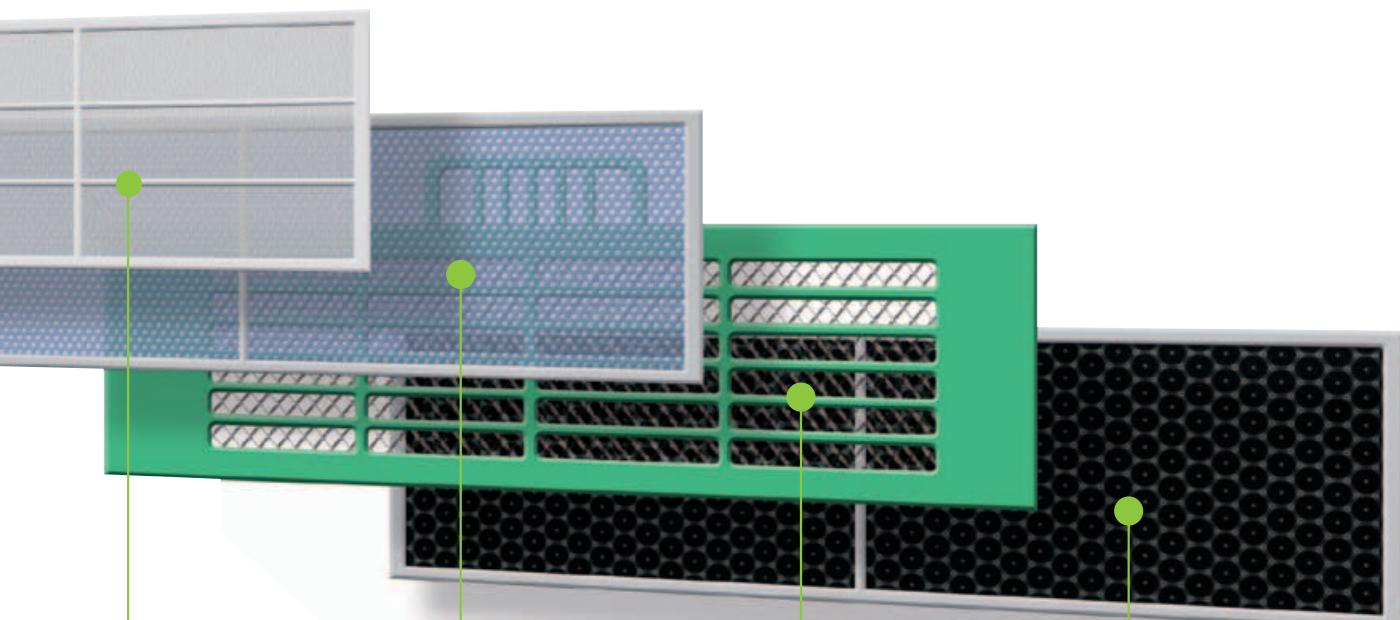
DC Inverter technology regulates the frequency of the compressor which results in many advantages:

- Energy saving by avoiding consumption peaks of the compressor compared to an on-off system. Inverter compressors reduce the frequency and therefore increase the efficiency.
- The variations of the temperature in the room are reduced improving the comfort.
- The setting temperature is achieved faster thanks to the flexibility of the system which allows reaching even 30% more of the nominal capacity.
- The overall performance is more uniform and silent.

YORK AIR-CONDITIONING PRODUCTS



FILTER OPTIONS FOR A CLEAN AND HEALTHY AIR



STANDARD FILTER

These filters prevent the bigger dust particules to enter the room by creating a barrier against dirtiness and insects.

SILVER ION FILTER

The Silver ion filter kills bacteria in the air and controls the growth of microbes, such as bacteria, virus, fungi, and spores, by destroying their inner configuration and absorbing the cells elements.

PLASMA FILTER

The Plasma Dust Collector can generate an ionization zone. The air is converted to plasma as it passes the high voltage ion generator. 95% of the dust, smoke and pollen particles are attracted to the electrostatic filter.

CARBON ELECTROSTATIC FILTER

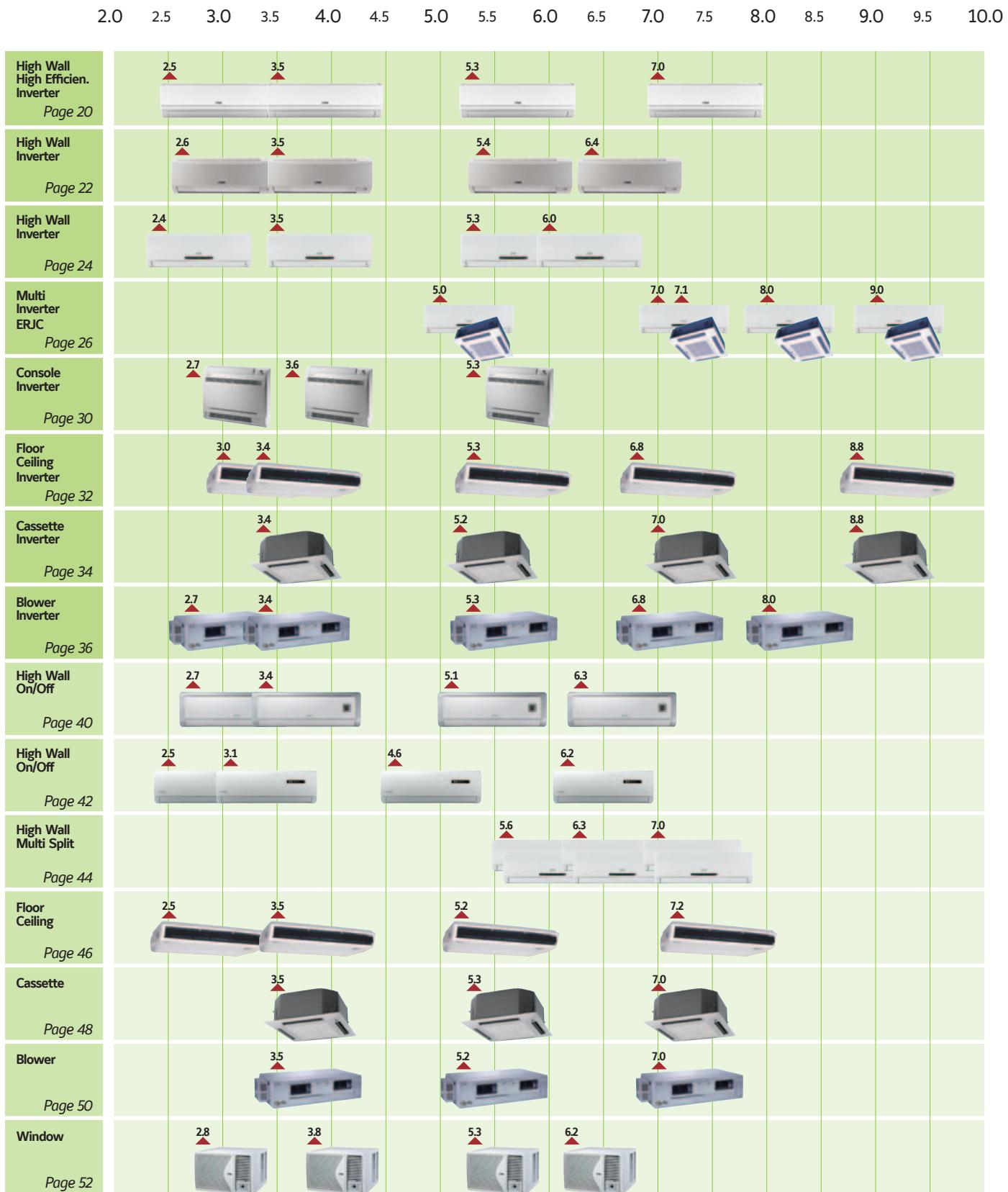
Active Carbon Filter eliminates certain kinds of odors such as ammonia (NH₃) and deactivates harmful chemical gas such as formaldehyde (HCHO).

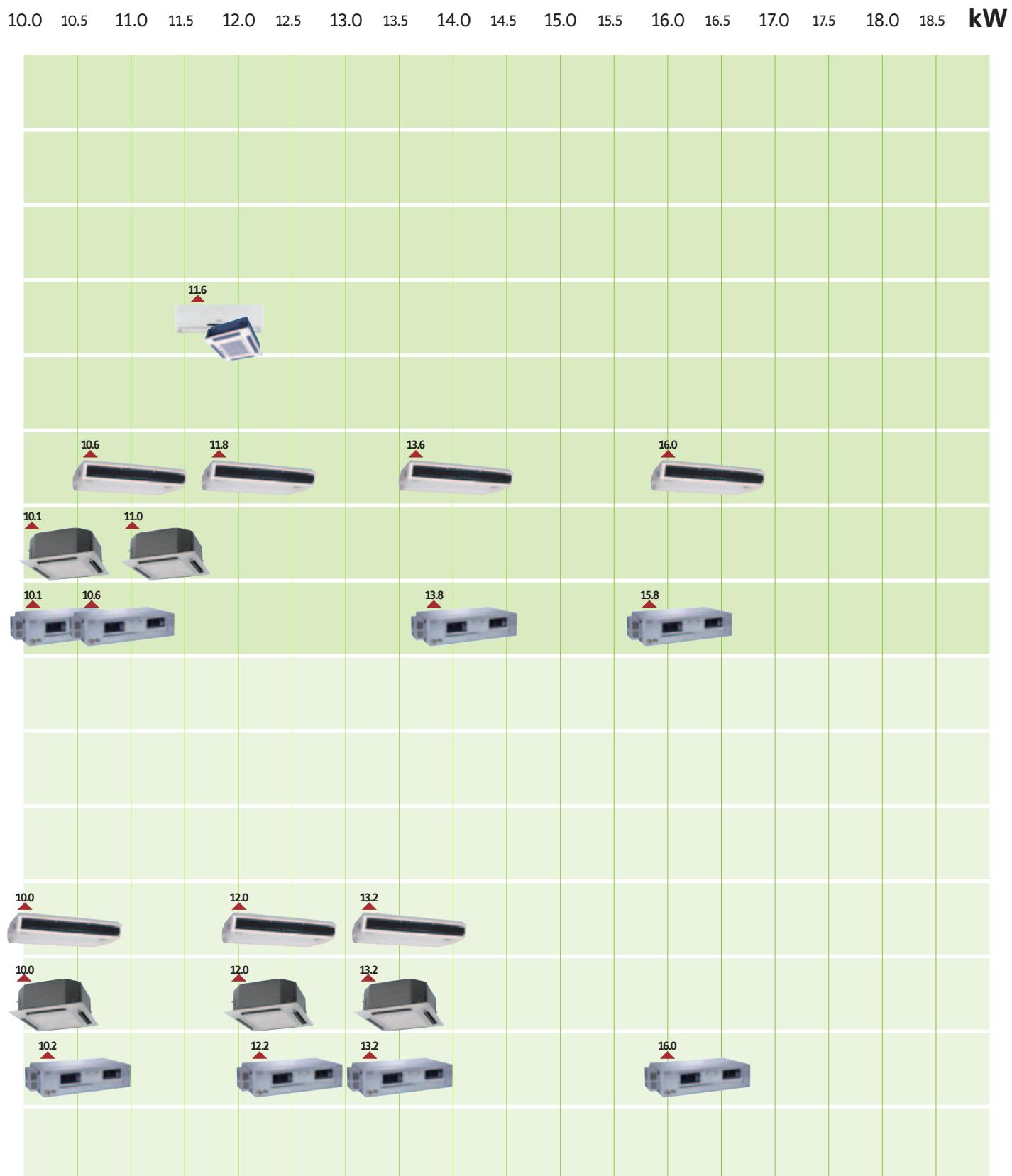


DRY MOULD PROOF

Turn off the unit that contains this function when it is cooling or drying, indoor fan would still operate in low speed to dry the inner components and parts. This action can remain unit inside clean and dry, prevent mould growing and olor.

Range Capacities



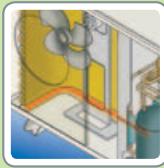


Main Features



EU Energy Label A Class

With the powerful compressor and optimized refrigerant, the EER can reach EU Energy Label A Class (over 3.2 w/w) or B Class (over 3.0 w/w), greatly reducing the power consumption.



Heater Cable

Heater cable prevents ice forming on the outdoor unit. Specially indicated in heat pump mode and low ambient temperature conditions. A thermostat regulates the activation of the heater.



Auto-Restart Function

When the power supply is interrupted and then restored, the air conditioners automatically restore the previous function setting.



Turbo Mode

Press the Turbo button and the A/C will reach the preset temperature in the shortest time.



Two-direction Air Vane Tech

With special structural design and microcomputer control, York air conditioners employs a unique bi-directional rotary air vane technology.



Condensate pump

Made up of a pump and a remote detection unit. The pump absorbs the condensates from the indoor unit and sends it to the draining pipes.



Low Ambient Kit

The air conditioning unit can operate in cooling mode at low ambient temperature conditions. The kit is suitable for special applications such as computer and power station control rooms where cooling is required even in the winter months.



Dehumidification

Independent dehumidification function is usually used in rainy days in springtime or damp areas. The unit will alternately operate in cooling mode or fan only mode, which assures strong dehumidification while not lowering room temperature.



Sleep Mode

With Sleep Mode, the air conditioner's set temperature will automatically increase (cooling) or decrease (heating) 1°C per hour for the first two hours then hold steady for the next 5 hours after which the air conditioner will stop operation. With the sleep mode function can maintain the most comfortable temperature and save energy.



Bio Filter

Bio Filter consists of a specialized biological enzyme and Eco Filter. The Eco Filter catches very small airborne dust particles and neutrallites bacteria, fungi and microbes. Biological enzyme eliminates bacteria by dissolving their cell wall thus eliminating the problem of re-pollution seen in traditional air conditioners.

Main Features



Active Carbon Electrostatic Filter

Active Carbon Filter eliminates certain kinds of odors such as ammonia (NH₃) and deactivates harmful chemical gas such as formaldehyde (HCHO). By forming positive positions on the filter surface, Electrostatic Fiber Filter traps small dust particles, smoke and pet fur to prevent allergic reactions.



Ionizer

Ionizer brings refreshing air into the home. Anions can stimulate the blood circulation system, improve lung function and effectively prevent respiratory passage illnesses (such as asthma and pneumonia).



Plasma Filter

The Plasma Dust Collector can generate an ionization zone. The air is converted to plasma as it passes the high voltage ion generator. 95% of the dust, smoke and pollen particles are attracted to the electrostatic filter.



Valve Protection Cover

It protects the service valves and prevents water from dripping.



Anti-Rust Cabinet

Made from electrolytic zinc steel sheet and anti-rust coated components. York's outdoor units are rust free even in coastal regions.

Iconography



Infrared control



Wired control



Infrared or Wired control



Dry mode



Sleep mode



Timer



Auto Sweep



Auto Restart



Turbo mode



Thin profile



Quiet



4 Way Air Flow



Floor/Ceiling



Ducted Installation



Air Filter



Low Ambient Kit

High Wall High Efficiency Inverter

YWHJZH 09 to 24

A complete range from 2.5 kW to 6.4 kW

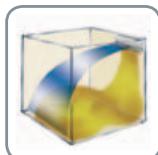


NEW



Features

- DC Inverter compressor
- Low noise levels
- Ultra high EER&COP, up to 5.01/5.21
- Multi louvers design for faster heating
- 1W standby
- Quiet design with low noise to 21dB(A)
- 8°C heating
- 3 sleep modes/curves
- Intelligent defrosting
- LED display
- Overlong distance air flow
- Blue crystal fin evaporator
- 7 fan speeds with turbo cooling
- 3D-airflow with auto horizontal airflow (Left/Right)
- Low Ambient Kit
- Heater cable
- Gold fin condenser
- Service valve protection cover



Remote controller



- Wireless
- I FEEL function
- 5 operation modes(Cool/Heat/Auto/Dry/Fan)
- 5 Fan speeds selection
- Quiet/sleep button
- Air flow direction setting
- LCD display
- Turbo mode
- Room temperature setting
- Lock Button Function



High Wall High Efficiency Inverter

YWHJZH 09 to 24



Technical features

Set reference		YWHJZH			
Indoor unit	Sizes	YWHJXH-09	YWHJXH-12	YWHJXH-18	YWHJXH-24
Outdoor unit	Sizes	YWHJYH-09	YWHJYH-12	YWHJYH-18	YWHJYH-24
Cooling capacity	kW	2.5 (0.7 - 3.8)	3.5 (0.7 - 4.5)	5.3 (0.8 - 6.7)	7.0 (1.3 - 8.7)
Heating capacity	kW	2.7 (0.7 - 4.0)	3.6 (0.7 - 5.5)	5.6 (1.0 - 7.3)	7.6 (1.2 - 10.0)
Compressor	Type	Rotary			
Refrigerant		R410A			
Power supply	V/Ph/Hz	230 / 1 / 50 + E			
Power input	cooling kW	0.60	0.83	1.45	2.00
	heating kW	0.66	0.83	1.47	2.11
EER		4.16	4.21	3.65	3.50
COP		4.16	4.00	3.81	3.61
Energy Class	cooling	A	A	A	A
	heating	A	A	A	A
Indoor airflow (L / M / H)	m³/h	330 / 370 / 420	410 / 530 / 670	630 / 710 / 870	700 / 800 / 900
Sound pressure at 1 m	Indoor (L/M/H) dB(A)	24 / 28 / 32	24 / 32 / 36	36 / 39 / 41	41 / 43 / 45
	Outdoor dB(A)	41	43	49	51
Dimensions	Indoor H (mm)	292	292	315	326
	Indoor W (mm)	806	866	1 017	1 178
	Indoor D (mm)	206	206	234	264
	Indoor H (mm)	540	596	700	790
	Indoor W (mm)	848	899	955	980
	Indoor D (mm)	320	378	396	427
Net weight	Indoor unit kg	10.5	11	15	18
	Outdoor unit kg	36	43	50	68
Piping	Type of connection	Flare			
	Diameter Gas	3/8"	3/8"	5/8"	5/8"
	Diameter Liquid	1/4"	1/4"	1/4"	1/4"
Refrigerant charge		740	1 000	1 160	1 700
Pipe run	Length m	15	20	25	25
	Height m	10	10	10	10
Operating limit - cooling mode		+10°C / +48°C			
Operating limit - heating mode		-15°C / +24°C			

Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB

Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB

Piping length : 5 m with initial charge

Accessories

Sizes	09	12	18	24
Electrostatic dedusting filter		Optional		
Silver ion filter		Optional		
Active carbon filter		Optional		



Manufacturer reserves the rights to change specifications without prior notice.

High Wall Inverter

YRHJZH 09 to 24

A complete range from 2.6 kW to 6.4 kW

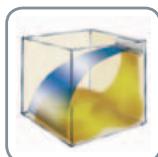


NEW



Features

- DC Inverter compressor
- Low noise levels
- High EER&COP, Class A
- 1W standby
- LED display
- Automatic restart
- Automatic clean
- Intelligent defrosting
- Comfortable sleep mode
- Cold air prevention
- Self-diagnosis
- Service valve protection cover
- **Blue fin protection (indoor and outdoor units)**



Remote controller

- Wireless
- 5 operation modes(Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Air flow direction setting
- LCD display
- Turbo mode
- Lock Button Function



High Wall Inverter

YRHJZH 09 to 24



Technical features

Set reference		YRHJZH			
Indoor unit	Sizes	YRHJXH-09	YRHJXH-12	YRHJXH-18	YRHJXH-24
Outdoor unit	Sizes	YRHJYH-09	YRHJYH-12	YRHJYH-18	YRHJYH-24
Cooling capacity	kW	2.6 (0.4 - 3.2)	3.5 (0.6 - 4.0)	5.4 (1.0 - 6.4)	6.4 (1.4 - 7.0)
Heating capacity	kW	3.5 (0.4 - 4.1)	4.0 (0.6 - 5.1)	5.7 (1.0 - 7.1)	6.7 (1.2 - 8.0)
Compressor	Type	Rotary			
Refrigerant		R410A			
Power supply	V/Ph/Hz	230 / 1 / 50 + E			
Power input	cooling kW	0.80	1.10	1.70	2.00
	heating kW	0.99	1.14	1.70	1.90
EER		3.30	3.25	3.23	3.22
COP		3.65	3.63	3.61	3.62
Energy Class	cooling	A	A	A	A
	heating	A	A	A	A
Indoor airflow (L / M / H)	m³/h	280 / 370 / 520	300 / 410 / 560	460 / 560 / 680	550 / 700 / 800
Sound pressure at 1 m	Indoor (L/M/H)	dB(A)	24 / 30 / 36	25 / 31 / 37	32 / 37 / 40
	Outdoor	dB(A)	34	35	42
	Indoor	H (mm)	283	283	380
		W (mm)	770	770	945
Dimensions		D (mm)	201	201	295
	Indoor	H (mm)	550	550	700
		W (mm)	658	658	955
	Outdoor	D (mm)	275	275	396
Net weight	Indoor unit kg	8	9	12	15
	Outdoor unit kg	28	30	52	55
Piping	Type of connection	Flare			
	Diameter Gas	3/8"	3/8"	1/2"	1/2"
	Liquid	1/4"	1/4"	1/4"	1/4"
Refrigerant charge	g	740	1 000	1 160	1 700
Pipe run	Length m	15	15	25	25
	Height m	5	5	10	10
Operating limit - cooling mode	min./max.	+10°C / +48°C			
Operating limit - heating mode	min./max.	-15°C / +24°C			

Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB

Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB

Piping length : 5 m with initial charge

Accessories

Sizes	09	12	18	24
Electrostatic dedusting filter			Optional	
Silver ion filter			Optional	
Active carbon filter			Optional	

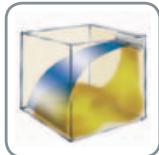


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High Wall Inverter

EVHC-D 09 to 24

A complete range from 2.4 kW to 6.0 kW



Features

- DC Inverter compressor
- Low noise levels
- Dry mould proof
- Automatic restart
- ON/OFF timer
- Automatic air sweep
- Service valve protection cover
- Rustproof casing
- **Blue fin protection (indoor and outdoor units)**



Remote controller

- Wireless
- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer setting function
- Air flow direction setting
- LCD display
- Turbo mode
- Lock button function



High Wall Inverter

EVHC-D 09 to 24



Technical features

Set reference		EVHC			
Indoor unit	Sizes	EVKC-09DS	EVKC-12DS	EVKC-18DS	EVKC-24DS
Outdoor unit	Sizes	EVJC-09DS	EVJC-12DS	EVJC-18DS	EVJC-24DS
Cooling capacity	kW	2.4 (0.6 - 3.2)	3.5 (0.5 - 3.9)	5.3 (1.3 - 6.2)	6.0 (1.4 - 6.8)
Heating capacity	kW	2.8 (0.8 - 3.6)	3.9 (0.9 - 4.4)	5.8 (1.3 - 6.3)	6.8 (1.3 - 8.0)
Compressor	Type	Rotary			
Refrigerant		R410A			
Power supply	V/Ph/Hz	230 / 1 / 50 + E			
Power input	cooling kW	0.78	1.08	1.70	1.96
	heating kW	0.78	1.12	1.71	2.05
EER		3.21	3.24	3.21	3.21
COP		3.61	3.61	3.41	3.41
Energy Class	cooling	A	A	A	A
	heating	A	A	B	B
Indoor airflow (high speed)	m³/h	500	500	850	900
Sound pressure at 1 m	Indoor (L/M/H) dB(A)	32 / 35 / 37	33 / 36 / 39	38 / 42 / 45	40 / 43 / 48
	Outdoor dB(A)	50	52	53	54
Dimensions	Indoor H (mm)	265	275	298	330
	Indoor W (mm)	790	845	940	1 060
	Indoor D (mm)	170	180	200	208
	Outdoor H (mm)	540	540	700	700
	Outdoor W (mm)	776	776	890	890
	Outdoor D (mm)	320	320	340	340
Net weight	Indoor unit kg	9	11	13	16
	Outdoor unit kg	27	29	47	50
Piping	Type of connection	Flare			
	Diameter Gas	3/8"	3/8"	1/2"	1/2"
	Liquid	1/4"	1/4"	1/4"	1/4"
Refrigerant charge	g	730	950	1 100	1 400
Pipe run	Length m	15	20	25	25
	Height m	10	10	10	10
Operating limit - cooling mode	min./max.	+18°C / +50°C			
Operating limit - heating mode	min./max.	-15°C / +24°C			

Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB

Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB

Piping length : 5 m with initial charge

Accessories

Sizes	09	12	18	24
Electrostatic dedusting filter		Optional		
Silver ion filter		Optional		
Cold Plasma filter		Optional		
Active carbon filter		Optional		



Manufacturer reserves the rights to change specifications without prior notice.

Multi Inverter Free Indoor Units

ERJC 18 to 42

A complete range from 5.0 kW to 11.6 kW



NEW



ERJC 18-22 (2x1)

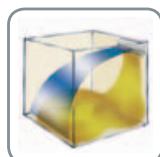


ERJC 24 (3x1) / ERJC 28 (4x1) / ERJC 36 (4x1)



Features

- DC inverter compressor
- Classe A cooling and heating
- Free match indoor/outdoor
- Automatic restart
- ON/OFF timer
- Automatic air sweep
- Rustproof casing
- **Blue fin protection (indoor and outdoor units)**



Remote controller

- Wireless
- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- Air flow direction setting
- LCD display

Indoor units



Multi Inverter Free Indoor Units

ERJC 18 to 42



Technical features Outdoor units

Model		ERJC-R					
Outdoor units	Sizes	18	22	24	28	36	42
Indoor units	number	2 indoor units	2 indoor units	3 indoor units	4 indoor units	4 indoor units	5 indoor units
Cooling capacity	kW	5.0 (2.1 - 6.2)	7.0 (2.7 - 8.2)	7.1 (2.2 - 10.0)	8.0 (2.2 - 10.0)	9.8 (2.5 - 14.7)	11.6 (2.4 - 17.4)
Heating capacity	kW	5.6 (2.5 - 6.7)	7.7 (3.5 - 9.5)	8.5 (3.6 - 11.0)	9.3 (2.8 - 11.0)	11.0 (2.8 - 16.5)	13.0 (2.7 - 19.5)
Compressor	Type (Nb)	Rotary Inverter (1)					
Refrigerant		R410A					
Location of expansion device		Outdoor unit					
Power supply	V/Ph/Hz	230 / 1 / 50 + E					
Power input	cooling kW heating kW	1.55 1.54	2.18 2.26	2.20 2.35	2.48 2.55	3.03 3.01	3.59 3.54
EER		3.23	3.21	3.21	3.23	3.23	3.23
COP		3.64	3.41	3.62	3.63	3.65	3.67
Energy Class	cooling A heating A	A	A	A	A	A	A
Airflow (outdoor unit)	m³/h	2 600	3 300	3 300	3 300	3 300	3 300
Sound pressure level	dB(A)	50	52	52	53	54	54
Dimensions outdoor unit H / W / D	mm	596 / 899 / 378	700 / 955 / 396	700 / 955 / 396	700 / 955 / 396	1 100 / 1 015 / 440	1 100 / 1 015 / 440
Net weight outdoor unit	kg	43	59	59	60	78	79
Piping	Type of connection	Flare					
Diameter	Gas	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
	Liquid	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Max pipe run *	Length m	15	15	15	15	15	15
	Height m	10	10	10	10	10	10
Refrigerant charge	g	1 350	2 400	2 200	2 200	4 300	4 800
Operating limits - cooling mode	min/max	-5°C / +43°C					
Operating limits - heating mode	min/max	-10°C / +24°C					

* Each indoor unit

Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB

Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB

Piping length : 5 m with initial charge (each indoor unit)



Manufacturer reserves the rights to change specifications without prior notice.

Indoor units technical features



- Active carbon electrostatic filter
- Automatic air sweep

		ERKC		
Indoor units	Sizes	09	12	18
Cooling capacity	kW	2.6	3.5	5.3
Heating capacity	kW	2.8	3.8	5.8
Power supply	V/Ph/Hz		230 / 1 / 50 + E	
Indoor airflow	m³/h	500	630	850
Sound pressure level	H / M / L dB(A)	34 / 31 / 28	34 / 32 / 30	43 / 40 / 36
Dimensions	H / W / D mm	265 / 790 / 170	275 / 845 / 180	298 / 940 / 200
Net Weight	kg	9	10	13
Piping	Type of connection		Flare	
	Diameter	Gas 3/8"	3/8"	1/2"
		Liquid 1/4"	1/4"	1/4"



- Console
- Automatic air sweep

		ECKC		
Indoor units	Sizes	09	12	18
Cooling capacity	kW	2.6	3.5	5.3
Heating capacity	kW	2.8	3.8	5.8
Power supply	V/Ph/Hz		230 / 1 / 50 + E	
Indoor airflow	m³/h	480	550	650
Sound pressure level	H / M / L dB(A)	38 / 33 / 26	40 / 37 / 32	46 / 41 / 35
Dimensions	H / W / D mm	600 / 700 / 215	600 / 700 / 215	600 / 700 / 215
Net Weight	kg	15	15	15
Piping	Type of connection		Flare	
	Diameter	Gas 3/8"	3/8"	1/2"
		Liquid 1/4"	1/4"	1/4"



- Floor/Ceiling
- Automatic air sweep

		EOKC			
Indoor units	Sizes	09	12	18	24
Cooling capacity	kW	2.5	3.5	5.0	7.1
Heating capacity	kW	2.8	3.9	5.5	8.0
Power supply	V/Ph/Hz		230 / 1 / 50 + E		
Indoor airflow	m³/h	650	650	950	1 250
Sound pressure level	H / L dB(A)	40 / 36	40 / 36	45 / 40	48 / 40
Dimensions	H / W / D mm	700 / 1 220 / 225	700 / 1 220 / 225	700 / 1 220 / 225	700 / 1 220 / 245
Net Weight	kg	40	40	40	45
Piping	Type of connection		Flare		
	Diameter	Gas 3/8"	1/2"	1/2"	5/8"
		Liquid 1/4"	1/4"	1/4"	3/8"



- Condensate pump included
- 600 x 600 standard size

		EKKC		
Indoor units	Sizes	12	18	24
Cooling capacity	kW	3.5	4.5	7.1
Heating capacity	kW	4.0	5.0	8.0
Power supply	V/Ph/Hz		230 / 1 / 50 + E	
Indoor airflow	m³/h	600	600	1 180
Sound pressure level	High speed dB(A)	46	46	39
Dimensions unit	H / W / D mm	230 / 570 / 570	230 / 570 / 570	240 / 840 / 840
Dimensions panel	H / W / D mm	50 / 650 / 650	50 / 650 / 650	60 / 950 / 950
Net weight unit	kg	18	18	30
Net weight panel	kg	6.5	6.5	6.5
Piping	Type of connection		Flare	
	Diameter	Gas 3/8"	1/2"	5/8"
		Liquid 1/4"	1/4"	3/8"



- Slim size
- Air filter included

- Wired control included

		EUKC				
Indoor units		Sizes	09	12	18	24
Cooling capacity	kW		2.5	3.5	5.0	7.1
Heating capacity	kW		2.8	3.9	5.5	8.0
Power supply	V/Ph/Hz				230 / 1 / 50 + E	
Indoor airflow	m³/h		450	500	700	1 000
Sound pressure level	H / L dB(A)		37 / 31	39 / 32	40 / 33	42 / 34
Dimensions	H / W / D mm		200 / 700 / 615	200 / 700 / 615	200 / 900 / 615	200 / 1 100 / 615
Net Weight	kg		22	24	25	29
Piping	Type of connection				Flare	
	Diameter	Gas	3/8"	1/2"	1/2"	5/8"
		Liquid	1/4"	1/4"	1/4"	3/8"

Indoor unit combinations

ERJC 18 (2x1)

Number connecting units	
2 x 1	
9+9	
9+12	

ERJC 22 (2x1)

Number connecting units	
2 x 1	
9+9	
9+12	
12+12	
9+18	
12+18	
18+18	

ERJC 24 (3x1)

Number connecting units			
2 x 1		3 x 1	
9+9		9+9+9	12+12+12
9+12		9+9+12	9+12+18
12+12		9+12+12	12+12+18
9+18		9+9+18	9+18+18
12+18			

ERJC 28 (4x1)

Number connecting units					
2 x 1		3 x 1		4 x 1	
9+9	9+18	9+9+9	9+9+18	9+9+9+9	9+12+12+12
9+12	12+18	9+9+12	9+12+18	9+9+9+12	9+12+12+18
12+12	18+18	9+12+12	12+12+18	9+9+9+18	9+9+18+18
		12+12+12	9+18+18	9+9+12+12	12+12+12+12

ERJC 36 (4x1)

Number connecting units					
2 x 1		3 x 1		4 x 1	
9+9	18+18	9+9+9	9+9+24	9+9+9+9	9+9+18+18
9+12	9+24	9+9+12	9+12+24	9+9+9+12	9+9+18+24
12+12	12+24	9+12+12	9+18+24	9+9+9+18	9+12+18+18
9+18	18+24	9+9+18	9+24+24	9+9+9+24	9+12+18+24
12+18	24+24	12+12+12	12+12+24	9+9+12+12	12+12+12+12
		9+12+18	12+18+24	9+9+12+18	12+12+12+18
		12+12+18	12+24+24	9+9+12+24	12+12+12+24
		9+18+18	18+18+24	9+12+12+12	12+12+18+18
		18+18+18		9+12+12+18	
				9+12+12+24	

ERJC 42 (5x1)

Number connecting units							
2 x 1		3 x 1		4 x 1		5 x 1	
9+9		9+9+9	9+12+24	9+9+9+9	9+9+18+18	9+9+9+9+9	
9+12		9+9+12	9+18+24	9+9+9+12	9+9+18+24	9+9+9+9+12	
12+12		9+12+12	9+24+24	9+9+9+18	9+12+18+18	9+9+9+9+18	
9+18		9+9+18	12+12+24	9+9+9+24	9+12+18+24	9+9+9+9+24	
12+18		12+12+12	12+18+24	9+9+12+12	12+12+12+12	9+9+9+12+12	
18+18		9+12+18	12+24+24	9+9+12+18	12+12+12+18	9+9+9+12+18	
9+24		12+12+18	18+18+24	9+9+12+24	12+12+12+24	9+9+9+12+24	
12+24		9+18+18		9+12+12+12	12+12+18+18	9+9+9+18+18	
18+24		18+18+18		9+12+12+18			
24+24		9+9+24		9+12+12+24			

Console Inverter

ECHC-D 09 to 18

A complete range from 2.7 kW to 5.3 kW



Features

- Inverter DC compressor
- Air outlet at top or bottom
- 7 fan speeds
- 8°C Heating mode
- Horizontal and vertical air sweep function
- Wide angle air distribution
- Service valve protection cover
- Rustproof casing
- **Blue fin protection (indoor and outdoor units)**

Remote controller



- Wireless
- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- 7 fan speeds
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- LCD display



Console Inverter

ECHC-D 09 to 18



Technical features

Set reference		ECHC-D		
Indoor unit	Sizes	ECKC 09 DS	ECKC 12 DS	ECKC 18 DS
Outdoor unit	Sizes	ECJC 09 DS	ECJC 12 DS	ECJC 18 DS
Cooling capacity	kW	2.7 (0.5 - 3.2)	3.6 (0.6 - 4.0)	5.3 (0.9 - 5.6)
Heating capacity	kW	3.3 (0.5 - 3.8)	4.0 (0.6 - 4.7)	5.5 (0.9 - 6.6)
Compressor	Type	Rotary		
Refrigerant		R410A		
Power supply	V/Ph/Hz	230 / 1 / 50		
Power input	cooling kW	0.80	1.13	1.62
	heating kW	0.94	1.12	1.56
EER		3.42	3.23	3.26
COP		3.61	3.63	3.62
Energy Class	cooling	A	A	A
	heating	A	A	A
Indoor airflow (H/M/L)	m³/h	430 / 370 / 280	520 / 440 / 360	620 / 500 / 410
Sound pressure at 1 m	Indoor (H/M/L) dB(A)	38 / 33 / 25	40 / 37 / 32	46 / 41 / 35
	Outdoor dB(A)	51	51	56
Dimensions	Indoor H (mm)	600	600	600
	Indoor W (mm)	700	700	700
	Indoor D (mm)	215	215	215
	Outdoor H (mm)	540	540	700
	Outdoor W (mm)	848	848	955
	Outdoor D (mm)	320	320	396
Net weight	Indoor unit kg	15	15	15
	Outdoor unit kg	33	33	49
Piping	Type of connection	Flare		
Diameter	Gas	3/8"	3/8"	1/2"
	Liquid	1/4"	1/4"	1/4"
Refrigerant charge	g	1 000	1 050	1 230
Pipe run	Length m	15	15	25
	Height m	10	10	10
Operating limits - cooling mode	min/max	+10°C / +50°C		
Operating limits - heating mode	min/max	-15°C / +24°C		

Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB

Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB

Piping length : 5 m with initial charge

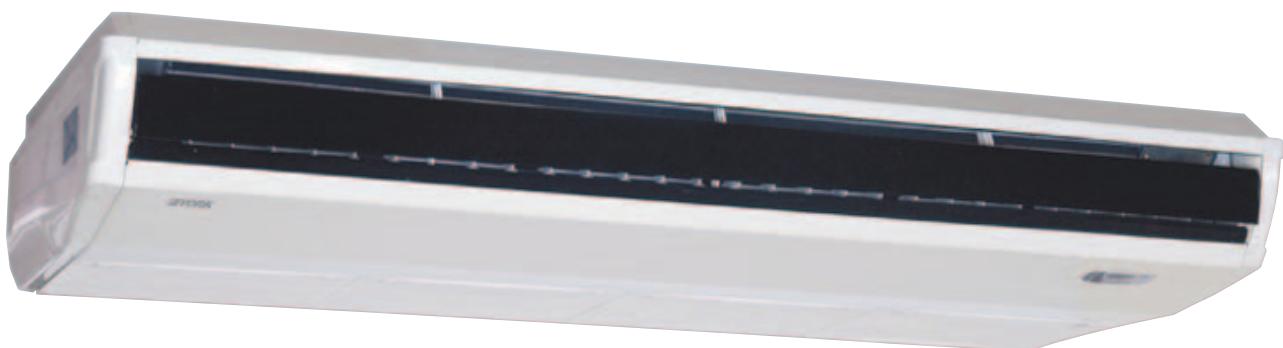


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Floor/Ceiling Inverter

EOHC-D 09 to 60 R

A complete range from 3.0 kW to 16.0 kW



Features

- Inverter DC compressor
- Air filter included
- Convertible - floor or ceiling
- Horizontal and vertical air sweep function
- Wide angle air distribution
- Low Ambient Kit (optional)
- Slim profile - flush mounting
- Rustproof casing
- **Blue fin protection (indoor and outdoor units)**



Remote controller



- Wireless
- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- LCD display

Wired control



- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- LCD display

Floor/Ceiling Inverter

EOHC-D 09 to 60 R



Technical features

Set reference		EOHC-D-R								
Indoor unit	Sizes	EOKC 09 DS	EOKC 12 DS	EOKC 18 DS	EOKC 24 DS	EOKC 30 DS	EOKC 36 DS	EOKC 42 DS	EOKC 48 DS	EOKC 60 DS
Outdoor unit	Sizes	ENJC 09 DT	ENJC 12 DT	ENJC 18 DT	ENJC 24 DT	ENJC 30 DT	ENJC 36 DT	ENJC 42 DT	ENJC 48 DT	ENJC 60 DT
Cooling capacity	kW	3.0 (1.6-3.5)	3.4 (1.6-3.6)	5.3 (1.3-5.5)	6.8 (3.0-7.8)	8.8 (3.1-9.0)	10.6 (3.5-13.0)	11.8 (3.5-13.0)	13.6 (5.0-14.3)	16.0 (4.0-16.5)
Heating capacity	kW	3.0 (1.4-3.8)	3.8 (1.4-4.1)	6.2 (1.5-6.6)	8.0 (2.4-8.5)	9.3 (2.7-9.9)	11.9 (3.5-12.5)	12.6 (3.5-14.2)	15.9 (5.3-18.4)	17.5 (4.5-18.3)
Compressor	Type	Rotary								
Refrigerant		R410A								
Power supply	V/Ph/Hz	230 / 1 / 50					230 / 1 / 50 or 400 / 3 / 50			400 / 3 / 50
Power input	cooling kW	0.85	1.05	1.65	2.19	2.75	3.26	3.70	4.20	5.00
	heating kW	0.75	0.92	1.70	2.22	2.64	3.16	3.30	4.40	4.86
EER		3.50	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21
COP		4.00	4.10	3.61	3.61	3.61	3.61	3.91	3.75	3.61
Energy Class	cooling	A	A	A	A	A	A	A	A	A
	heating	A	A	A	A	A	A	A	A	A
Indoor airflow (H/M/L)	m³/h	650/550/450	700/600/500	900/800/700	1200/1050/900	1600/1450/1300	2000/1630/1520	2000/1630/1520	2300/2100/1900	2300/2100/1900
Sound pressure at 1 m	Indoor (H/M/L) dB(A)	39 / 37 / 35	39 / 37 / 35	45 / 42 / 39	52 / 49 / 46	50 / 48 / 46	54 / 51 / 48	54 / 51 / 48	58 / 55 / 52	58 / 55 / 52
	Outdoor dB(A)	53	54	57	59	59	61	61	61	63
Dimensions	H (mm)	700	700	700	700	700	700	700	700	700
	Indoor W (mm)	1 220	1 220	1 220	1 220	1 420	1 420	1 420	1 700	1 700
	D (mm)	225	225	225	225	245	245	245	245	245
	Outdoor H (mm)	540	540	700	790	790	1 100	1 100	1 365	1 365
Net weight	W (mm)	776	776	955	980	980	1 107	1 107	1 085	1 085
	D (mm)	320	320	396	427	427	440	440	427	427
	Indoor unit kg	40	40	42	43	51	53	55	64	65
Piping	Outdoor unit kg	28	30	48	65	68	86	90	122	127
	Type of connection	Flare								
Refrigerant charge	Diameter Gas	3/8"	3/8"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	3/4"
	Liquid	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Pipe run Length		20	20	20	30	30	30	50	50	50
Height		15	15	15	15	15	15	30	30	30
Operating limits - cooling mode min/max		-10°C / +50°C								
Operating limits - heating mode min/max		-15°C / +24°C								

Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB

Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB

Piping length : 5 m with initial charge

Sizes 36 to 48: Values for single phase models

Accessories

Sizes	09	12	18	24	30	36	42	48	60
Weekly timer					Optional				
Central control					Optional				



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Cassette Inverter

EKHC-D 12 to 42 R

A complete range from 3.4 kW to 11.0 kW



Features

- Inverter DC compressor
- Air filter included
- Condensate pump standard
- Fresh air intake for sizes 24 to 42
- Auto restart
- Low Ambient Kit (optional)
- Rustproof casing
- **Blue fin protection (indoor and outdoor units)**



Remote controller

- Wireless
- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- LCD display



Wired control

- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- LCD display

Cassette Inverter

EKHC-D 12 to 42 R



Technical features

Set reference		EKHC-D-R					
Indoor unit	Sizes	EKKC 12 DS	EKKC 18 DS	EKKC 24 DS	EKKC 30 DS	EKKC 36 DS	EKKC 42 DS
Outdoor unit	Sizes	ENJC 12 DT	ENJC 18 DT	ENJC 24 DT	ENJC 30 DT	ENJC 36 DT	ENJC 42 DT
Cooling capacity	kW	3.4 (1.6 - 3.6)	5.2 (1.9 - 5.5)	7.0 (2.4 - 8.3)	8.8 (3.0 - 9.1)	10.1 (3.0 - 11.5)	11.0 (3.5 - 13.0)
Heating capacity	kW	3.6 (1.6 - 4.0)	6.1 (1.5 - 6.6)	8.7 (3.1 - 9.4)	9.2 (2.5 - 9.9)	11.0 (3.5 - 12.8)	12.0 (3.8 - 14.5)
Compressor	Type	Rotary					
Refrigerant		R410A					
Power supply	V/Ph/Hz	230 / 1 / 50				230 / 1 / 50 or 400 / 3 / 50	
Power input	Cooling kW	1.03	1.65	2.19	2.75	3.20	3.30
	Heating kW	1.02	1.70	2.40	2.64	3.00	3.30
EER		3.22	3.21	3.21	3.21	3.21	3.22
COP		3.61	3.61	3.61	3.61	3.61	3.61
Energy Class	Cooling	A	A	A	A	A	A
	Heating	A	A	A	A	A	A
Indoor airflow (H/M/L)	m³/h	550 / 450 / 350	1180 / 1080 / 1000	1400 / 1270 / 1170	1660 / 1570 / 1500	1660 / 1570 / 1500	1660 / 1570 / 1500
Sound pressure at 1 m	Indoor (H/M/L) dB(A)	47 / 45 / 42	47 / 45 / 43	51 / 49 / 48	53 / 51 / 48	53 / 51 / 48	53 / 51 / 48
	Outdoor dB(A)	54	57	59	59	61	61
	H (mm)	230	240	240	320	320	320
Dimensions	Indoor W (mm)	600	840	840	840	840	840
	W (mm)	600	840	840	840	840	840
	D (mm)	540	700	790	790	1 100	1 100
	Outdoor D (mm)	776	955	980	980	1 107	1 107
	Panel H / W / D mm	50 / 650 / 650	60 / 950 / 950	60 / 950 / 950	60 / 950 / 950	60 / 950 / 950	60 / 950 / 950
Net weight	Indoor unit kg	20	27	27	32	32	38
	Outdoor unit kg	30	48	65	68	86	90
Piping	Type of connection	Flare					
	Diameter Gas	3/8"	1/2"	5/8"	5/8"	5/8"	5/8"
	Liquid	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"
Refrigerant charge	g	1 350	1 400	2 400	2 600	3 500	3 800
Pipe run	Length m	20	20	30	30	30	50
	Height m	15	15	15	15	15	30
Operating limits - cooling mode	min/max	-10°C / +50°C					
Operating limits - heating mode	min/max	-15°C / +24°C					

Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB

Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB

Piping length : 5 m with initial charge

Sizes 36 and 42: values for single phase models

Accessories

Sizes	12	18	24	30	36	42
Weekly timer				Optional		
Central control				Optional		



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Blower Inverter

EUHC-D 09 to 60 R

A complete range from 2.7 kW to 15.8 kW



Features

- Inverter DC compressor
- Air filter included
- Condensate pump optional
- Fresh air intake
- Indoor unit with centrifugal fan
- Large distances between indoor and outdoor units
- Indoor units with high pressure
- Quiet operation
- Wired control
- Infrared remote control
- Low Ambient Kit (optional)
- **Blue fin protection (indoor and outdoor units)**



Wired control



- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- LCD display

Remote controller



- Wireless
- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- Air flow direction setting
- LCD display

Blower Inverter

EUHC-D 09 to 60 R



Technical features

Set reference		EUHC-D-R								
Indoor unit	Sizes	EUHK 09 DT	EUHK 12 DT	EUHK 18 DT	EUHK 24 DT	EUHK 30 DT	EUHK 36 DT	EUHK 42 DT	EUHK 48 DT	EUHK 60 DT
Outdoor unit	Sizes	ENJC 09 DT	ENJC 12 DT	ENJC 18 DT	ENJC 24 DT	ENJC 30 DT	ENJC 36 DT	ENJC 42 DT	ENJC 48 DT	ENJC 60 DT
Cooling capacity	kW	2.7 (1.2-3.0)	3.4 (1.6-3.6)	5.3 (1.6-5.8)	6.8 (2.0-7.7)	8.0 (2.7-8.3)	10.1 (3.5-11.5)	10.6 (3.5-13.0)	13.8 (4.9-14.1)	15.8 (4.0-17.5)
Heating capacity	kW	2.9 (1.0-3.0)	3.7 (1.6-4.0)	6.2 (1.4-6.5)	7.3 (2.4-8.0)	8.4 (2.0-9.3)	11.5 (3.8-12.8)	12.4 (3.8-14.5)	16.0 (5.3-18.3)	18.0 (5.0-18.8)
Compressor	Type	Rotary								
Refrigerant		R410A								
Power supply	V/Ph/Hz	230 / 1 / 50					230 / 1 / 50 or 400 / 3 / 50			400 / 3 / 50
Power input	cooling kW	0.85	1.07	1.65	2.19	2.56	3.20	3.42	4.36	5.30
	heating kW	0.75	0.97	1.70	2.08	2.44	3.06	3.43	4.50	5.00
EER		3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21
COP		3.61	3.61	3.61	3.61	3.61	3.62	3.61	3.67	3.61
Energy Class	cooling	A	A	A	A	A	A	A	A	A
	heating	A	A	A	A	A	A	A	A	A
Indoor airflow (H/M/L)	m³/h	800/700/600	840/740/640	1000/800/600	1600/1400/1200	1500/1300/1100	2300/2110/1850	2300/2110/1850	2500/2300/2100	3150/2900/2600
External static pressure	Pa	60	60	60	80	80	150	150	150	150
Sound pressure at 1 m	Indoor (H/M/L) dB(A)	40 / 38 / 36	37 / 35 / 33	45 / 42 / 39	47 / 44 / 42	47 / 44 / 42	53 / 50 / 46	53 / 50 / 46	53 / 50 / 46	54 / 51 / 48
	Outdoor dB(A)	53	54	57	59	59	61	61	61	63
Dimensions	Indoor H (mm)	250	266	266	268	268	290	290	330	385
	Indoor W (mm)	880	980	980	1 270	1 270	1 226	1 226	1 226	1 463
	Indoor D (mm)	665	721	721	530	530	775	775	815	799
	Outdoor H (mm)	540	540	700	790	790	1 100	1 100	1 365	1 365
	Outdoor W (mm)	776	776	955	980	980	1 107	1 107	1 085	1 085
	Outdoor D (mm)	320	320	396	427	427	440	440	427	427
Net weight	Indoor unit kg	26	34	34	37	36	57	57	64	87
	Outdoor unit kg	28	30	48	65	68	86	90	122	127
Piping	Type of connection	Flare								
Diameter	Gas	3/8"	3/8"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	3/4"
	Liquid	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Refrigerant charge	g	1 200	1 350	1 400	2 400	2 600	3 500	3 800	4 300	5 500
Pipe run	Length m	20	20	20	30	30	30	50	50	50
	Height m	15	15	15	15	15	15	30	30	30
Operating limits - cooling mode	min/max	-10°C / +50°C								
Operating limits - heating mode	min/max	-15°C / +24°C								

Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB

Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB

Piping length : 5 m with initial charge

Sizes 36 to 48: Values for single phase models

Accessories

Sizes	09	12	18	24	30	36	42	48	60
Condensate pump			Optional		-		Optional		-
Weekly timer					Optional				
Central control					Optional				



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Minisplit On/Off Systems

HIGH WALL UNITS

MULTISPLITS

CASSETTE, FLOOR/CEILING & BLOWER UNITS

WINDOW UNITS



High Wall On/Off

YVHFZH 09 to 24

A complete range from 2.7 kW to 6.3 kW



NEW



Features

- Low noise levels
- Class A
- Automatic restart
- ON/OFF timer
- Automatic air sweep
- Service valve protection cover
- Rustproof casing
- **Blue fin protection (indoor and outdoor units)**



Remote controller

- Wireless
- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Room temperature sensor
- Fan speed selection
- Timer setting function
- Air flow direction setting
- LCD display
- Turbo mode



High Wall On/Off

YVHFZH 09 to 24



Technical features

Set reference		YVHFZH			
Indoor unit	Sizes	YVHFZH 09	YVHFZH 12	YVHFZH 18	YVHFZH 24
Outdoor unit	Sizes	YVHFYH 09	YVHFYH 12	YVHFYH 18	YVHFYH 24
Cooling capacity	kW	2.7	3.4	5.1	6.3
Heating capacity	kW	2.8	3.5	5.5	6.5
Compressor	Type		Rotary		
Refrigerant			R410A		
Power supply	V/Ph/Hz		230 / 1 / 50 + E		
Power input	cooling kW	0.80	1.05	1.63	2.00
	heating kW	0.85	1.06	1.71	1.90
EER		3.30	3.23	3.21	3.21
COP		3.41	3.41	3.21	3.41
Energy Class	cooling	A	A	A	A
	heating	B	B	C	B
Indoor airflow (high speed)	m³/h	480	520	800	1 000
Sound pressure at 1 m	Indoor (L/M/H) dB(A)	32 / 35 / 37	33 / 36 / 39	37 / 41 / 45	47 / 52 / 57
	Outdoor dB(A)	50	52	55	56
Dimensions	Indoor H (mm)	267	283	300	330
	Indoor W (mm)	815	872	960	1 090
	Indoor D (mm)	165	178	195	208
	Outdoor H (mm)	540	540	700	847
	Outdoor W (mm)	848	848	1 018	950
	Outdoor D (mm)	320	320	412	412
Net weight	Indoor unit kg	10	11	13	16
	Outdoor unit kg	32	40	55	72
Piping	Type of connection		Flare		
	Diameter Gas	3/8"	1/2"	5/8"	5/8"
	Liquid	1/4"	1/4"	3/8"	3/8"
Refrigerant charge	g	1 250	1 250	1 800	2 000
Pipe run	Length m	20	20	20	30
	Height m	10	10	15	16
Operating limit - cooling mode	min./max.		+18°C / +43°C		
Operating limit - heating mode	min./max.		-7°C / +24°C		

Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB

Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB

Piping length : 4 m with initial charge

Accessories

Sizes	09	12	18	24
Electrostatic dedusting filter			Optional	
Silver ion filter			Optional	
Active carbon filter			Optional	

Available KAHC models with Low Ambient Kit (LAK)



Manufacturer reserves the rights to change specifications without prior notice.

High Wall On/Off

EAHC 09 to 24 FS-R

A complete range from 2.5 kW to 6.2 kW



Features

- Low noise levels
- Class A
- Automatic restart
- ON/OFF timer
- Automatic air sweep
- Service valve protection cover
- Rustproof casing
- **Blue fin protection (indoor and outdoor units)**



Remote controller

- Wireless
- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer setting function
- Air flow direction setting
- LCD display



High Wall On/Off

EAHC 09 to 24 FS-R



Technical features

Set reference		EAHC FS-R			
Indoor unit	Sizes	EAKC 09 FS-R	EAKC 12 FS-R	EAKC 18 FS-R	EAKC 24 FS-R
Outdoor unit	Sizes	EAJC 09 FS-R	EAJC 12 FS-R	EAJC 18 FS-R	EAJC 24 FS-R
Cooling capacity	kW	2.5	3.1	4.6	6.2
Heating capacity	kW	2.7	3.4	5.0	6.5
Compressor	Type		Rotary		
Refrigerant			R410A		
Power supply	V/Ph/Hz		230 / 1 / 50 + E		
Power input	cooling kW	0.80	1.00	1.50	1.90
	heating kW	0.82	0.99	1.35	1.90
EER		3.21	3.21	3.21	3.22
COP		3.41	3.41	3.63	3.41
Energy Class	cooling	A	A	A	A
	heating	B	B	A	B
Indoor airflow (high speed)	m³/h	350	400	750	780
Sound pressure at 1 m	Indoor (L/M/H) dB(A)	32 / 35 / 37	32 / 35 / 38	37 / 41 / 45	38 / 41 / 45
	Outdoor dB(A)	50	52	55	56
	H (mm)	255	265	298	298
Dimensions	Indoor W (mm)	730	790	940	940
	D (mm)	174	170	200	200
	Outdoor H (mm)	540	540	540	680
	W (mm)	776	798	848	913
	D (mm)	320	355	360	428
Net weight	Indoor unit kg	8	9	13	13
	Outdoor unit kg	31	35	40	46
Piping	Type of connection	Flare			
	Diameter Gas	3/8"	1/2"	1/2"	1/2"
	Liquid	1/4"	1/4"	1/4"	1/4"
Refrigerant charge	g	660	840	1 150	1 450
Pipe run	Length m	15	20	25	25
	Height m	10	10	10	10
Operating limit - cooling mode	min./max.		+18°C / +46°C		
Operating limit - heating mode	min./max.		-7°C / +24°C		

Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB

Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB

Piping length : 5 m with initial charge

Accessories

Sizes	09	12	18	24
Electrostatic dedusting filter			Optional	
Silver ion filter			Optional	
Active carbon filter			Optional	

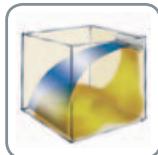


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High Wall Multi Split

YEHNZH 18 to 24 (2x1)

A complete range from 5.6 kW to 7.0 kW



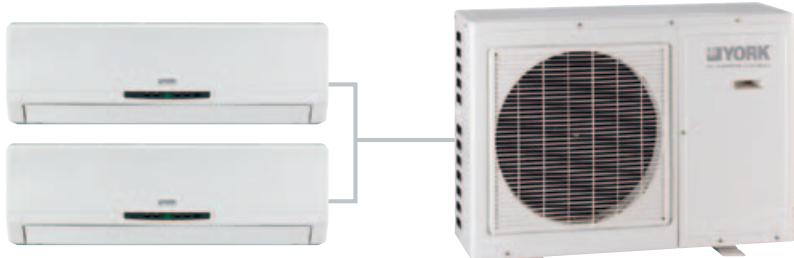
Features

- Low noise levels
- Active carbon filter
- 2 circuits / 2 compressors running in same mode
- Automatic restart
- ON/OFF timer
- Automatic air sweep
- Service valve protection cover
- Rustproof casing
- **Blue fin protection (indoor and outdoor units)**



Remote controller

- Wireless
- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer setting function
- Air flow direction setting
- LCD display
- Turbo mode
- Lock button function



High Wall Multi Split

YEHNZH 18 to 24 (2x1)



Technical features

INDOOR UNIT (9000 Btu/h)		2 x YEHNXH 09	1 x YEHNXH 09	
INDOOR UNIT (12000 Btu/h)			1 x YEHNXH 12	2 x YEHNXH 12
OUTDOOR UNIT		YEHNYH 18	YEHNYH 21	YEHNYH 24
Cooling capacity	kW	5.6 (2.8 x 2)	6.3 (2.8 + 3.5)	7.0 (3.5 x 2)
Heating capacity	kW	6.0 (3.0 x 2)	6.8 (3.0 + 3.8)	7.2 (3.6 x 2)
Compressor	Type (Nb)		Rotary / 2	
Refrigerant			R410A	
Power supply	V/Ph/Hz		230 / 1 / 50 + E	
Power input (Cooling)	kW	1.86	2.09	2.32
Power input (Heating)	kW	1.76	1.99	2.11
EER / COP		3.01 / 3.41	3.01 / 3.41	3.01 / 3.41
Energy Class (cooling/heating)		B / B	B / B	B / B
Sound pressure at 1 m (ind./out.)	dB(A)	30 + 30 / 54	30 + 29 / 55	29 + 29 / 58
Dimensions	H (mm)	265	265 + 275	275
	Indoor unit W (mm)	790	790 + 845	845
	D (mm)	170	170 + 180	180
	Outdoor unit H (mm)	700	700	700
Piping diameter	W (mm)	1 018	950	950
	D (mm)	412	420	420
Net Weight (Indoor / Outdoor)	kg	9 + 9 / 58	9 + 10 / 65	10 + 10 / 65
Piping length	Gas	2 x 3/8"	3/8" + 1/2"	2 x 1/2"
	Liquid	2 x 1/4"	2 x 1/4"	2 x 1/4"
Pipe run	Length m	2 x 20	2 x 20	2 x 20
	Height m	2 x 10	2 x 10	2 x 10
Operating limits - cooling mode	min/max		+10°C / +48°C	
Operating limits - heating mode	min/max		-7°C / +24°C	

Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB

Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB

Piping length : 5 m with initial charge



Manufacturer reserves the rights to change specifications without prior notice.

Floor/Ceiling

EOHC 09 to 48 FS

A complete range from 2.5 kW to 13.2 kW



Features

- Convertible - floor or ceiling
- Horizontal and vertical air sweep function
- Wide angle air distribution
- Slim profile - flush mounting
- Low Ambient Kit optional
- Rustproof casing
- **Blue fin protection (indoor and outdoor units)**

Remote controller



- Wireless
- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- LCD display

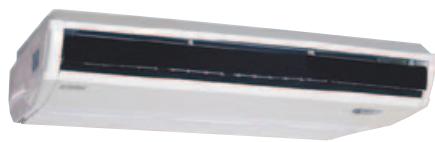


Wired control (optional)

- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- LCD display

Floor/Ceiling

EOHC 09 to 48 FS



Technical features

Set reference		EOHC						
Indoor unit	Sizes	EOKC 09 FS	EOKC 12 FS	EOKC 18 FS	EOKC 24 FS	EOKC 36 FS	EOKC 42 FS	EOKC 48 FS
Outdoor unit	Sizes	ENJC 09 FS	ENJC 12 FS	ENJC 18 FS	ENJC 24 FS	ENJC 36 FS	ENJC 42 FS	ENJC 48 FS
Cooling capacity	kW	2.5	3.5	5.2	7.2	10.0	12.0	13.2
Heating capacity	kW	2.8	3.9	5.7	8.0	11.0	14.0	14.5
Compressor	Type	Rotary				Scroll		
Refrigerant		R410A						
Power supply	V/Ph/Hz	230 / 1 / 50 + E				400 / 3 / 50 + E + N		
Power input	cooling kW	0.89	1.23	1.80	2.50	3.50	4.50	5.00
	heating kW	0.98	1.29	2.00	2.59	3.30	4.70	4.80
EER		2.81	2.85	2.89	2.88	2.86	2.67	2.64
COP		2.85	3.02	2.85	3.09	3.33	2.98	3.02
Energy Class	cooling	C	C	C	C	C	D	D
	heating	D	D	D	D	C	D	D
Fuse rating	A	25	25	25	25	16	16	16
Indoor airflow (high speed)	m³/h	550	600	700	1 170	1 800	1 800	2 100
Sound pressure at 1 m	Indoor (H/M/L) dB(A)	45 / 42 / 39	46 / 42 / 38	54 / 50 / 46	50 / 48 / 46	54 / 51 / 48	54 / 51 / 48	58 / 55 / 52
	Outdoor dB(A)	54	56	56	59	58	60	63
Dimensions	Indoor H (mm)	695	695	695	600	695	695	695
	W (mm)	836	836	836	1 300	1 590	1 590	1 590
	D (mm)	238	238	238	188	238	238	238
	Outdoor H (mm)	540	540	540	695	840	1 250	1 250
	W (mm)	820	820	820	1 018	1 018	1 032	1 032
	D (mm)	320	320	320	412	412	412	412
Net weight	Indoor unit kg	27	27	27	32	42	42	48
	Outdoor unit kg	30	40	40	59	90	112	112
Piping	Type of connection	Flare						
	Diameter Gas	1/2"	1/2"	1/2"	5/8"	3/4"	3/4"	3/4"
	Liquid	1/4"	1/4"	1/4"	3/8"	1/2"	1/2"	1/2"
	Refrigerant charge g	1 100	1 000	1 500	2 200	3 200	3 550	3 800
Pipe run	Length m	20	20	20	30	50	50	50
	Height m	15	15	15	15	30	30	30
Operating limits - cooling mode	min/max	-10°C / +43°C						
Operating limits - heating mode	min/max	-15°C / +24°C						

Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB

Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB

Piping length : 5 m with initial charge

Accessories

Sizes	09	12	18	24	36	42	48
Wired control				Optional			
Weekly timer				Optional			
Central control				Optional			
Low Ambient Kit				Optional			



Manufacturer reserves the rights to change specifications without prior notice.

Cassette

EKHC 12 to 48 FS

A complete range from 3.5 kW to 14.2 kW



Features

- Condensate pump
- Fresh air intake for sizes 24 to 42
- 3 fan speeds
- 600 x 600 mm (size 12 & 18)
- Auto restart
- Low noise operation
- Low Ambient Kit optional
- Rustproof casing
- **Blue fin protection (indoor and outdoor units)**



Remote controller

- Wireless
- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- LCD display



Wired control (optional)

- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- LCD display



Cassette

EKHC 12 to 48 FS



Technical features

Set reference		EKHC					
Indoor unit	Sizes	EKKC 12 FS	EKKC 18 FS	EKKC 24 FS	EKKC 36 FS	EKKC 42 FS	EKKC 48 FS
Outdoor unit	Sizes	ENJC 12 FS	ENJC 18 FS	ENJC 24 FS	ENJC 36 FS	ENJC 42 FS	ENJC 48 FS
Cooling capacity	kW	3.5	5.3	7.0	10.0	12.0	13.2
Heating capacity	kW	3.6	5.7	7.5	11.0	14.0	14.5
Compressor	Type	Rotary			Scroll		
Refrigerant		R410A					
Power supply	V/Ph/Hz	230 / 1 / 50 + E			400 / 3 / 50 + E		
Power input	Cooling kW	1.15	1.85	2.50	3.50	4.60	4.80
	Heating kW	1.10	1.75	2.50	3.40	4.80	5.20
EER		3,04	2,86	2,80	2,86	2,61	2,75
COP		3,27	3,26	3,00	3,24	2,92	2,79
Energy Class	Cooling	B	C	C	D	D	D
	Heating	C	C	D	C	D	E
Indoor airflow	m³/h	550	550	1 180	1 660	1 660	1 660
Sound pressure at 1 m	Indoor (H/M/L) dB(A)	47 / 45 / 43	47 / 45 / 43	47 / 45 / 43	53 / 51 / 48	53 / 51 / 48	53 / 51 / 48
	Outdoor dB(A)	56	56	59	60	60	63
	H (mm)	230	230	240	320	320	320
Dimensions	Indoor W (mm)	600	600	840	840	840	840
	Indoor D (mm)	600	600	840	840	840	840
	Outdoor H (mm)	540	540	695	840	1 250	1 250
	Outdoor W (mm)	820	820	1 018	1 018	1 032	1 032
	Outdoor D (mm)	320	320	412	412	412	412
	Panel H/W/D mm	50 / 650 / 650	50 / 650 / 650	60 / 950 / 950	60 / 950 / 950	60 / 950 / 950	60 / 950 / 950
Net weight	Indoor unit kg	20	20	30	38	38	32
	Outdoor unit kg	32	40	59	90	112	112
Type of connection							
Piping	Diameter Gas	1/2"	1/2"	5/8"	3/4"	3/4"	3/4"
	Liquid	1/4"	1/4"	3/8"	1/2"	1/2"	1/2"
Refrigerant charge g		1 000	1 500	2 200	3 200	3 550	3 800
Max pipe run	Length	m	20	20	30	50	50
	Height	m	15	15	15	30	30
Operating limits - cooling mode min/max		-10°C / +43°C					
Operating limits - heating mode min/max		-15°C / +24°C					

Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB

Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB

Piping length : 5 m with initial charge

Accessories

Sizes	12	18	24	36	42	48
Wired control				Optional		
Weekly timer				Optional		
Central control				Optional		
Low Ambient Kit				Optional		



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Blower

EUHC 12 to 60 FT

A complete range from 3.5 kW to 16.0 kW



Features

- Air filter included
- Condensate pump optional
- Fresh air intake
- Indoor unit with centrifugal fan
- Large distances between indoor and outdoor units
- Indoor units with high pressure
- Quiet operation
- Wired control with weekly timer
- Infrared remote control
- Low Ambient Kit optional
- **Blue fin protection (indoor and outdoor units)**



Wired control

- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Weekly timer
- LCD display



Remote controller

- Wireless
- 5 operation modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- Air flow direction setting
- LCD display

Blower

EUHC 12 to 60 FT



Technical features

Set reference		EUHC						
Indoor unit	Sizes	EUKC 12 FT	EUKC 18 FT	EUKC 24 FT	EUKC 36 FT	EUKC 42 FT	EUKC 48 FT	EUKC 60 FT
Outdoor unit	Sizes	ENJC 12 FS	ENJC 18 FS	ENJC 24 FS	ENJC 36 FS	ENJC 42 FS	ENJC 48 FS	ENJC 60 FS
Cooling capacity	kW	3.5	5.2	7.0	10.2	12.2	13.2	16.0
Heating capacity	kW	3.6	5.7	8.0	11.2	14.0	14.5	18.5
Compressor	Type	Rotary			Scroll			
Power supply	V/Ph/Hz	230 / 1 / 50 + E			400 / 3 / 50 + E + N			
Power input	cooling	kW	1.1	1.85	2.60	3.70	4.80	5.10
	heating	kW	1.1	1.75	2.50	3.50	4.90	4.60
EER			3.18	2.81	2.69	2.76	2.54	2.58
COP			3.27	3.26	3.20	3.20	2.86	3.15
Energy Class	cooling	B	C	D	D	E	E	E
	heating	C	C	C	C	D	D	D
Indoor airflow	m³/h	600	840	1 400	2 000	2 000	2 300	2 500
External static pressure	Pa	25	40	80	150	150	150	150
Sound pressure at 1 m	Indoor	dB(A)	40 / 38 / 36	42 / 40 / 38	44 / 42 / 40	50 / 48 / 46	50 / 48 / 46	53 / 50 / 46
	Outdoor	dB(A)	56	56	59	60	60	63
		H (mm)	220	266	268	290	290	330
	Dimensions	Indoor	W (mm)	913	1 012	1 270	1 226	1 226
			D (mm)	680	736	530	775	775
			H (mm)	540	540	695	840	1 250
		Outdoor	W (mm)	820	820	1 018	1 032	1 032
			D (mm)	320	320	412	412	412
Net weight	Indoor unit	kg	27	36	37	57	57	66
	Outdoor unit	kg	32	40	59	90	112	123
Piping	Type of connection				Flare			
	Diameter	Gas	1/2"	1/2"	5/8"	3/4"	3/4"	3/4"
		Liquid	1/4"	1/4"	3/8"	1/2"	1/2"	1/2"
Refrigerant charge	g	1 000	1 500	2 200	3 200	3 550	3 800	5 000
Pipe run	Length	m	20	20	30	50	50	50
	Height	m	15	15	15	30	30	30
Operating limits - cooling mode	min/max				-10°C / +43°C			
Operating limits - heating mode	min/max				-15°C / +24°C			

Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB

Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB

Piping length : 5 m with initial charge

Accessories

Sizes	12	18	24	36	42	48	60
Condensate pump				Optional			
Low Ambient Kit				Optional			
Central control				Optional			



Manufacturer reserves the rights to change specifications without prior notice.

Window

Y8USE 09 to 24

A complete range from 2.6 kW to 5.0 kW



Features

- Super compact design
- Quiet design
- Removable and washable panel
- Infrared control
- Drying operation
- Anti cool wind
- Golden fin condenser
- Memory function

Window

Y8USE 09 to 24



Technical features

Models	Sizes	Y8USE 09	Y8USE 12	Y8USE 18	Y8USE 24
Cooling capacity	kW	2.8	3.8	5.3	6.2
Heating capacity	kW	2.5	3.5	4.8	5.5
Power supply	V/Ph/Hz		230 / 1 / 50 + E		
Refrigerant	Type		R410A		
Power input	cooling kW	0.92	1.26	1.76	1.99
	heating kW	0.73	1.02	1.59	1.83
EER		3.04	3.04	3.00	3.01
COP		3.42	3.42	3.00	3.01
Indoor airflow	m³/h	480	730	850	900
Sound pressure at 1 m	dB(A)	50 / 48 / 46	53 / 51 / 49	57 / 55 / 53	58 / 56 / 53
Dimensions	H mm	375	428	428	428
	W mm	560	660	660	660
	D mm	618	700	770	770
Net weight	kg	43	57	66	75
Stuffing quantity 40' HQ	Set	342	225	205	195

Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB

Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB



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Information for minisplit installation

Model	Size	Power supply	Power supply cable size (mm ²)	Interconnection cables (number of cables and sizes) (mm ²)	Maximum pipe run (m)	Maximum height (m)	Piping diameter Liquid - gas	Outdoor unit charged for a piping length of (m)	Extra refrigerant charge for every meter (gr)			
YWHJZH												
High wall Inverter YWHJZH R410A	09	Indoor	3 x 2.5	4 x 2.5	15	10	1/4 - 3/8"	5	20			
	12				20		50					
	18	Outdoor			25		1/4 - 5/8"					
YRHJZH												
High wall Inverter YRHJZH R410A	09	Indoor	3 x 2.5	4 x 2.5	15	5	1/4 - 3/8"	5	15			
	12				25	10	1/4 - 1/2"		20			
	18	Outdoor										
EVHC-D												
High wall Inverter EVHC-D R410A	09	Indoor	3 x 2.5	4 x 2.5	15	5	1/4 - 3/8"	5	30			
	12				20	10			50			
	18	Outdoor			25	1/4 - 1/2"						
YVHFZH												
High wall On-Off YVHFZH R410A	09	Indoor	3 x 2.5	5 x 2.5	20	10	1/4 - 3/8"	4	30			
	12					15	1/4 - 1/2"		50			
	18	Outdoor			30	16	3/8" - 5/8"					
EAHC-FS-R												
High wall On-Off EAHC-FS-R R410A	09	Indoor	3 x 2.5	5 x 2.5	15	10	1/4 - 3/8"	5	30			
	12				20		50					
	18	Outdoor			25		1/4 - 1/2"					
EMHC												
High wall Multisplit EMHC R410A	18	Outdoor	3 x 4	6 x 2.5	15 *	7	1/4 - 3/8"	5 *	30			
	21											
	27											
ERJC												
Multisplit Inverter ERJC R410A	22	Outdoor	3 x 4	4 x 1.5	15 *	10 *	1/4-3/8" **	5 *	40			
	24											
	28											
ECHC-D												
Console Inverter ECHC-D R410A	09	Indoor	4 x 2.5	4 x 0.25	15	10	1/4 - 3/8"	5	20			
	12				25		1/4 - 1/2"					
	18											
EOHC-D-R / EKHC-D-R / EUHC-D-R												
Floor/Ceiling Inverter EOHC-D-R	12	Outdoor & Indoor	Ind: 3 x 1.5 Out: 3 x 2.5	4 x 0.25	20	15	1/4 - 3/8"	30				
	18						1/4 - 1/2"					
	24		Ind: 3 x 2.5 Out: 3 x 4		30			60				
	30											
	36		Ind: 3 x 2.5 Out: 3 x 6		50	30	3/8 - 5/8"	5	120			
Cassette Inverter EKHC-D-R	42											
	48		Ind: 3 x 2.5 Out: 5 x 4									
	60						3/8 - 1/4"					
EOHC / EKHC / EUHC												
Blower Inverter EUHC-D-R R410A	09	Outdoor & Indoor	Ind: 3 x 1.5 Out: 3 x 2.5	2 x 0.25	20	15	1/4 - 1/2"	5	30			
	12											
	18		Ind: 3 x 1.5 Out: 3 x 4		30		3/8 - 5/8"					
	24											
	36		Ind: 3 x 1.5 Out: 3 x 6		50	30	1/2 - 3/4"					
Blower Inverter EUHC R410A	42											
	48		Ind: 3 x 1.5 Out: 5 x 2.5									
	60											

* Each indoor unit

** next indoor unit

Confirm about data in the technical documentation.



Load calculation

Customer	Date	Project					
Telephone	Type of installation						
Address							
Termical loads							
WINDOWS	not exposed to sunlight	m ²	x	50 =			
	exposed to sunlight	m ²	x	180 =			
	exposed to sunlight with curtains	m ²	x	135 =			
	exposed to sunlight with awnings	m ²	x	90 =			
OUTDOOR WALLS	exposed to sunlight and insulated	m ²	x	9 =			
	exposed to sunlight non insulated	m ²	x	23 =			
	not exposed to sunlight and insulated	m ²	x	7 =			
	not exposed to sunlight non insulated	m ²	x	12 =			
INDOOR WALLS *		m ²	x	10 =			
CEILING OR ROOF *	insulated	m ²	x	5 =			
	not insulated	m ²	x	12 =			
	insulation under the roof	m ²	x	10 =			
	not insulation under roof	m ²	x	24 =			
FLOOR *	insulated	m ²	x	7 =			
	not insulated	m ²	x	10 =			
FRESH AIR		m ³ /h	x	4,5 =			
PERSONS INSIDE THE ROOM		pers.	x	144 =			
WORKING ELECTRICAL EQUIPMENT		W	x	1 =			
NEEDED COOLING CAPACITY				W			

* To not consider if they are next to climatised area.



Important: This is a simplified method to obtain an approximate value of cooling capacity, as long as the climatic conditions are not extreme.
Only for cooling calculation.

YORK AIR-CONDITIONING PRODUCTS



VRF Systems

YDS-C • R410A

INDOOR UNIT TYPES



YDS Variable refrigerant flow system

YDMH 100, 140, 252, 280, 335, 400, 450 C

Cooling capacities 10.0 kW to 180.0 kW



YDS System

- Capacities from 10 to 180 kW
- Operating range of nominal power (10% - 100 %)
- Digital Scroll Technology
- Low noise levels
- High performance
- Flexible and quickly installation

Comfort – Quality

- Cooling and heating
- Connection up to 64 indoor units per refrigeration circuit (4 outdoor units)
- Complete range in R410A
- Reduced space of ground
- Is appropriate particularly for existing buildings
- Cooling to -10°C to +48°C (outdoor temperature)
- Heating to -15°C to +30°C (outdoor temperature)



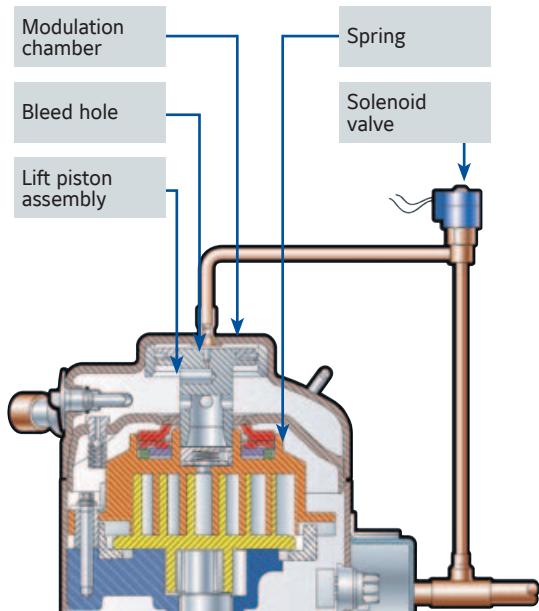
YDS Variable refrigerant flow system

YDMH 100, 140, 252, 280, 335, 400, 450 C



Technology of future: Digital Scroll Compressor operation

The Digital Scroll Compressor uses a simple and effective method to modulate the capacity of an AC, giving unparalleled performance in the modulation field. To modulate the capacity the Digital Scroll operates in two stages, the "loaded state" in which the compressor works as a normal Scroll compressor at full capacity and mass flow, and the "unloaded state", where there is no capacity and mass flow. During the "unloaded state" there is a separation between the scrolls. Once the scrolls separate, any gas passing through is no longer compressed. Changing the cycle time ("Loaded state" time and "Unloaded state" time) determines the capacity modulation of the compressor.



With the introduction of the third generation of the YDS systems, we offer one of the biggest capacity capabilities in the VRF market. Cooling capacity from 10 kW to 180 kW is now available. This capacity is now possible to achieve through connecting from 4 outdoor units together.

The range is based on 2 outdoor units of 10 kW and 14 kW capacity (Digital scroll compressor) and 4 basic modules of different capacities from 25.2 kW to 45 kW, each basic module including a Digital Scroll compressor and a conventional compressor. You can connect up to 64 indoor units in one

refrigerant circuit. More than 30 models are available, high walls, cassettes, duct and floor/ceiling types. The individual setting is done by infra red or wired remote control. Additionally it is possible to use a central controller.



Manufacturer reserves the rights to change specifications without prior notice.

YDS Variable refrigerant flow system

YDMH 100 to 900



YDS Technical features - Single module outdoor unit

Model	YDMH 100C	YDMH 140C	YDMH 252C	YDMH 280C	YDMH 335C	YDMH 400C	YDMH 450C	
Cooling capacity	kW	10.00	14.00	25.20	28.00	33.50	40.00	45.00
Heating capacity	kW	12.00	16.00	27.00	31.50	35.00	43.00	47.00
Air flow	m³/h	6 000	6 000	10 000	10 000	10 000	14 000	14 000
Noise level at 1 m	dB(A)	55	55	58	58	58	60	60
Electrical features								
Power supply				3/N/ 400V 50Hz				
Power input "cooling"	kW	3.50	4.50	7.31	8.05	9.68	11.53	12.86
Running current "cooling"	A	8.50	8.50	12.5	14.60	17.30	20.20	23.00
Power input "heating"	kW	3.41	4.40	7.01	8.14	9.12	11.17	12.08
Running current "heating"	A	7.60	7.60	12.00	14.50	16.40	19.50	21.40
Compressor	Type	Digital Scroll			Digital Scroll and Fix Scroll			
Dimensions and Weight								
Height x Width x Length	mm	1245 x 940 x 340	1245 x 940 x 340		1630 x 980 x 800		1630 x 1380 x 830	
Weight	kg	117	117		245		382	
Piping connections								
Gas		18mm / 3/4"		28mm / 1 1/8"		35mm / 1 3/8"		
Liquid		10mm / 3/8"		12mm / 1/2"		16mm / 5/8"		
Refrigerant charge	Type			R410A				
	kg	4.10	4.10	11.0	11.00	11.00	16.00	16.00
Piping length / Height difference								
Max. piping length	m	70	70	175	175	175	175	175
Max. height difference	m	8	8	70	70	70	70	70
Max. number of indoor units		6	8	13	16	20	20	20

YDS Technical features - Outdoor units with two module combinations

Model	YDMH 532C	YDMH 560C	YDMH 615C	YDMH 680C	YDMH 730C	YDMH 785C	YDMH 850C	YDMH 900C	
Module combinations	1x YDMH252 1x YDMH280	2x YDMH280	1x YDMH280 1x YDMH335	1x YDMH280 1x YDMH400	1x YDMH280 1x YDMH450	1x YDMH335 1x YDMH450	1x YDMH400 1x YDMH450	2x YDMH450	
Cooling capacity	kW	53.2	56.00	61.50	68.00	73.00	78.50	85.00	90.00
Heating capacity	kW	58.5	63.00	66.50	74.50	78.50	82.00	90.00	94.00
Noise level at 1 m	dB(A)	62	62	62	62	62	63	63	63
Electrical features									
Power supply				3/N/ 400V 50Hz					
Power input "cooling"	kW	15.36	16.10	17.73	19.58	20.91	22.54	24.39	25.72
Power input "heating"	kW	15.15	16.28	17.26	19.31	20.22	21.20	23.25	24.16
Dimensions and Weight									
Height x Width x Length	mm	1630 x 1960 x 800		1630 x 2360 x 830		1630 x 2760 x 830			
Weight	kg	490		627		764			
Piping size between the outdoor unit and the first branch									
Gas			35mm / 1 3/8"			42mm / 1 5/8"			
Liquid			18mm / 3/4"			22mm / 7/8"			
Refrigerant piping									
Piping 1				16mm / 5/8"					
Piping 2				18mm / 3/4"					
Connection between modules (out. groups)			YDSA / RD102			YDSA / RD103			
Max. number of indoor units		20	20	20	20	20	32	32	

YDS Variable refrigerant flow system

YDMH 960 to 1800



YDS Technical features - Outdoor units with three module combinations

Model	YDMH 960C	YDMH 1010C	YDMH 1065C	YDMH 1130C	YDMH 1180C	YDMH 1235C	YDMH 1300C	YDMH 1350C					
Module combinations	2x YDMH280 1x YDMH400	2x YDMH280 1x YDMH450	1x YDMH280 1x YDMH335 1x YDMH450	1x YDMH280 1x YDMH400 1x YDMH450	1x YDMH280 2x YDMH450	1x YDMH335 2x YDMH450	1x YDMH400 2x YDMH450	3x YDMH450					
Cooling capacity kW	96.00	101.00	106.50	113.00	118.00	122.50	130.00	135.00					
Heating capacity kW	106.00	110.00	113.50	121.50	125.50	129.00	137.00	141.00					
Noise level at 1 m dB(A)	64	64	64	64	64	64	64	64					
Electrical features													
Power supply	3/N/ 400V 50Hz												
Power input "cooling" kW	27.63	28.96	30.59	32.44	33.77	35.40	37.25	38.58					
Power input "heating" kW	27.45	28.36	29.34	31.39	32.30	33.28	35.33	36.24					
Dimensions and Weight													
Height x Width x Length mm	1630 x 3340 x 830			1630 x 3740 x 830			1630 x 4140 x 830						
Weight kg	872			1.009			1.146						
Piping size between the outdoor unit and the first branch													
Gas	42mm / 1 5/8"												
Liquid	22mm / 7/8"												
Refrigerant piping													
Piping 1	16mm / 5/8"												
Piping 2	18mm / 3/4"												
Connection between modules (out. groups)	1x YDSA / RD102 + 1x YDSA / RD01				1x YDSA / RD103 + 1x YDSA / RD01								
Max. number of indoor units	32	32	32	40	40	40	40	40					

YDS Technical features - Outdoor units with four module combinations

Model	YDMH 1405C	YDMH 1455C	YDMH 1520C	YDMH 1570C	YDMH 1630C	YDMH 1685C	YDMH 1750C	YDMH 1800C					
Module combinations	3x YDMH335 1x YDMH400	3x YDMH335 1x YDMH450	2x YDMH335 1x YDMH400 1x YDMH450	2x YDMH335 2x YDMH450	1x YDMH280 3x YDMH450	1x YDMH335 3x YDMH450	1x YDMH400 3x YDMH450	4x YDMH450					
Cooling capacity kW	140.50	145.50	152.00	156.00	163.00	168.50	175.00	180.00					
Heating capacity kW	148.00	152.00	160.00	164.00	172.50	176.00	184.00	188.00					
Noise level at 1 m dB(A)	65	65	65	65	65	65	65	65					
Electrical features													
Power supply	3/N/ 400V 50Hz												
Power input "cooling" kW	40.57	41.90	43.75	45.08	46.63	48.26	50.11	51.44					
Power input "heating" kW	38.53	39.44	41.49	42.40	44.38	45.36	47.41	48.32					
Dimensions and Weight													
Height x Width x Length mm	1.630 x 4.320 x 830			1.630 x 4.720 x 830			1.630 x 5.120 x 830						
Weight kg	1.117			1.254			1.391						
Piping size between the outdoor unit and the first branch													
Gas	54mm / 2 1/8"												
Liquid	28mm / 1 1/8"												
Refrigerant piping													
Piping 1	16mm / 5/8"												
Piping 2	18mm / 3/4"												
Connection between modules (out. groups)	1x YDSA / RD102 + 2x YDSA / RD01				1x YDSA / RD103 + 2x YDSA / RD01								
Max. number of indoor units	50	50	50	50	50	64	64	64					

YDS Technical features indoor units

High wall (EXV integrated)



Model		YDHWC022C	YDHWC028C	YDHWC036C	YDHWC045C	YDHWC056C
Capacity	Cooling kW	2.2	2.8	3.6	4.5	5.6
	Heating kW	2.6	3.2	4.0	5.0	6.3
	Air flow m³/h		580 / 500 / 420		900 / 760 / 650	
Noise level at 1 m H / M / L dB(A)			35 / 32 / 29		40 / 38 / 34	
	Power supply V/Ph/Hz			230 / 1 / 50 + N + E		
Electrical features	Starting current A		2.5		3.3	
	H x W x D mm		290 x 915 x 210		315 x 1070 x 210	
	Weight kg		12		15	
Piping	Gas			12mm / 1/2"		
	Liquid			6mm / 1/4"		

Cassette



Model		YDCS022C	YDCS028C	YDCS036C	YDCS045C	YDCS056C
Capacity	Cooling kW	2.2	2.8	3.6	4.5	5.6
	Heating kW	2.6	3.2	4.0	5.0	6.3
	Air flow m³/h		570 / 400			
Noise level at 1 m H / L dB(A)			38 / 35		39 / 36	
	Power supply V/Ph/Hz			230 / 1 / 50 + N + E		
Electrical features	Starting current A			3.6		
	H x W x D mm			254 x 580 x 580		
	Weight kg	18	18	18	24	24
Panel	H x W x D mm			30 x 650 x 650		
	Weight kg			3		
Piping	Gas			12mm / 1/2"		16mm / 5/8"
	Liquid			6mm / 1/4"		10mm / 3/8"

Cassette



Model		YDCL056C	YDCL071C	YDCL080C	YDCL090C	YDCL112C	YDCL140C
Capacity	Cooling kW	5.6	7.1	8.0	9.0	11.2	14.0
	Heating kW	6.3	8.0	9.0	10.0	12.5	15.0
	Air flow m³/h	950 / 800 / 650		1220 / 1010 / 820		1540 / 1300 / 1120	1802 / 1483 / 1284
Noise level at 1 m H / M / L dB(A)		42 / 38 / 35		48 / 45 / 42		53 / 48 / 45	48 / 45 / 43
	Power supply V/Ph/Hz				230 / 1 / 50 + N + E		
Electrical features	Starting current A	3.6	4.2			6.0	
	H x W x D mm		230 x 840 x 840			300 x 840 x 840	
	Weight kg	27	30			36	
Panel	H x W x D mm			46 x 950 x 950			
	Weight kg			6			
Piping	Gas			16mm / 5/8"			
	Liquid			10mm / 3/8"			



Convertible console floor/ceiling

Model		YDFC036C	YDFC045C	YDFC056C	YDFC071C	YDFC080C	YDFC090C	YDFC112C	YDFC140C
Capacity	Cooling kW	3.5	4.7	5.3	7.0	7.9	8.8	11.7	14.1
	Heating kW	4.0	5.1	6.2	8.2	9.4	10.6	13.2	15.5
	Air flow m³/h	650 / 570 / 500		800 / 600 / 500		1 400 / 1 200 / 1 000		2 000 / 1 800 / 1 600	
Noise level at 1 m H / M / L dB(A)			43 / 41 / 38			45 / 43 / 40		47 / 45 / 42	
Electrical features	Power supply V/Ph/Hz				230 / 1 / 50 + N + E				
	Starting current A	4.7		5.4		6.2		7.7	
Dimensions and Weight	H x W x D mm		660 x 995 x 198			660 x 1 285 x 198		680 x 1 670 x 240	
	Weight kg		29			37		54	
Piping	Gas	12mm / 1/2"			16mm / 5/8"				
	Liquid	6mm / 1/4"			10mm / 3/8"				



Floor standing

Model		YDEFS022C	YDEFS028C	YDEFS036C	YDEFS045C	YDEFS56C	YDEFS071C	YDEFS080C
Capacity	Cooling kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0
	Heating kW	2.6	3.2	4.0	5.0	6.3	8.0	9.0
	Air flow m³/h	530 / 456 / 400	569 / 485 / 421	624 / 522 / 375	660 / 542 / 440	1 150 / 970 / 830	1 380 / 1 100 / 870	1 332 / 1 212 / 1 023
Noise level at 1 m H / M / L dB(A)		37 / 35 / 33		39 / 37 / 35	39 / 37 / 35	41 / 39 / 37		43 / 41 / 38
Electrical features	Power supply V/Ph/Hz			230 / 1 / 50 + N + E				
Dimensions and Weight	H x W x D mm		625 / 1 000 / 220		625 / 1 200 / 220		625 / 1 500 / 220	
	Weight kg		30		37		44	
Piping	Gas		12mm / 1/2"			16mm / 5/8"		
	Liquid		6mm / 1/4"			10mm / 3/8"		



Floor standing concealed

Model		YDCFS022C	YDCFS028C	YDCFS036C	YDCFS045C	YDCFS56C	YDCFS071C	YDCFS080C
Capacity	Cooling kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0
	Heating kW	2.6	3.2	4.0	5.0	6.3	8.0	9.0
	Air flow m³/h	530 / 456 / 400	569 / 485 / 421	624 / 522 / 375	660 / 542 / 440	1 150 / 970 / 830	1 380 / 1 100 / 870	1 332 / 1 212 / 1 023
Noise level at 1 m H / M / L dB(A)		37 / 35 / 33		39 / 37 / 35	39 / 37 / 35		41 / 39 / 37	
Electrical features	Power supply V/Ph/Hz			230 / 1 / 50 + N + E				
Dimensions and Weight	H x W x D mm		544 / 840 / 212		544 / 1 036 / 212	544 / 1 336 / 212	545 / 1 336 / 212	
	Weight kg		26		29.5		36	
Piping	Gas		12mm / 1/2"			16mm / 5/8"		
	Liquid		6mm / 1/4"			10mm / 3/8"		



Blower

Model		YDDN022C	YDDN028C	YDDN036C	YDDN045C	YDDN056C	YDDN071C	YDDN080C	YDDN090C	YDDN112C	YDDN140C
Capacity	Cooling kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0
	Heating kW	2.6	3.2	4.0	5.0	6.3	8.0	8.4	10.0	12.5	15.0
	Air flow m³/h	570 / 400 / 320		1 160 / 1 100 / 950		1 400 / 1 100 / 900		1 800 / 1 500 / 1 200			
Noise level at 1 m H / M / L dB(A)		34 / 32 / 30	35 / 33 / 31		45 / 41 / 38		46 / 44 / 42		47 / 45 / 43	48 / 46 / 44	
Electrical features	Power supply V/Ph/Hz				230 / 1 / 50 + N + E						
	Static pressure Pa		10		40			70			
Dimensions and Weight	H x W x D mm		210 x 955 x 385		298 x 1 000 x 800		298 x 1 350 x 800				
	Weight kg		15		37.2			51.4			
Piping	Gas		12mm / 1/2"			16mm / 5/8"					
	Liquid		6mm / 1/4"			10mm / 3/8"					

Remote Controllers

R05 Remote Controller

Light background, LCD display screen, clock function, ON / OFF / Temperature setting / Mode setting / Fan speed setting / Horizontal swing setting functions. Using for the Floor/Ceiling units.



R51 Remote Controller

LCD display, clock function, ON / OFF / Temperature setting / Mode setting / Fan speed / Swing etc. Using for all the indoor units except Floor/Ceiling units.



Wired Controller & Weekly Timer

AMR01Y Wired Controller

ON / OFF / Mode setting / Temp. setting / Fan speed / Time setting / Swing, etc.
Temp sensor built-in.



AMR02M Weekly schedule timer

Control one indoor unit.
Note: Weekly schedule timer and indoor CCM cannot be used simultaneously



Central Control Monitor

AMR02Y Outdoor CCM

Max. 32 outdoor units control.



AMR03Y Indoor CCM

Max. 64 indoor units control; New mode lock function.



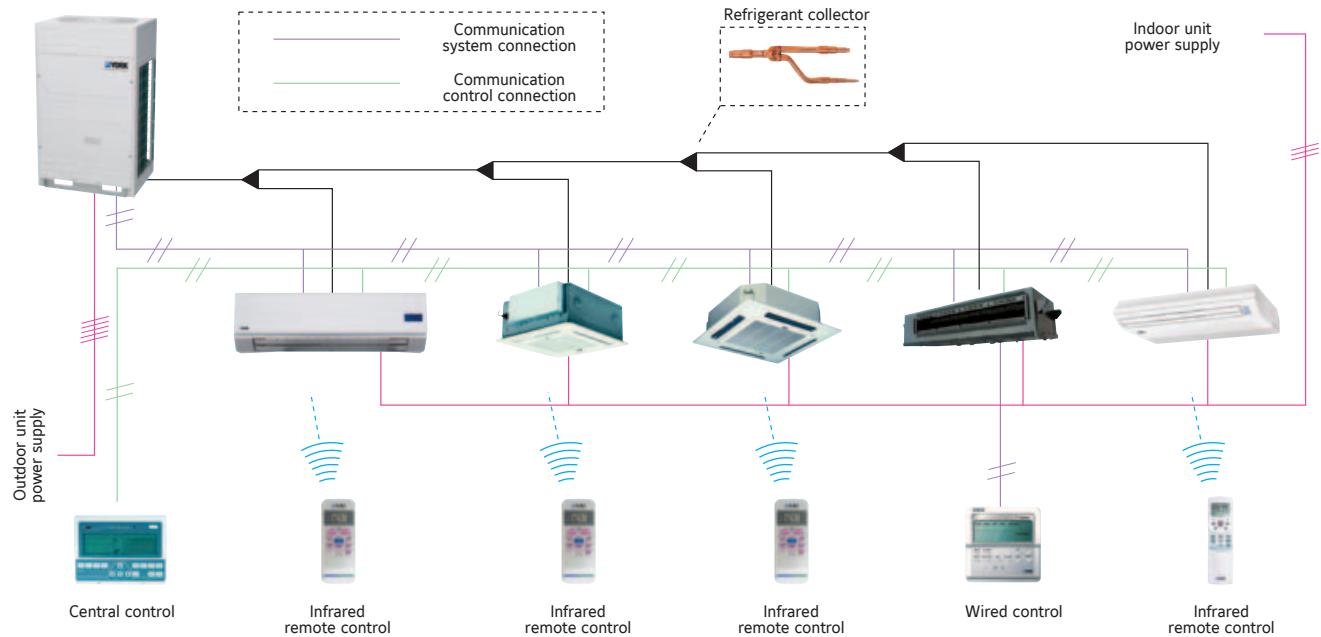
AMR09Y Indoor CCM

Max. 64 indoor units control. New weekly timer function.



For BMS connection check with your JCI representative.

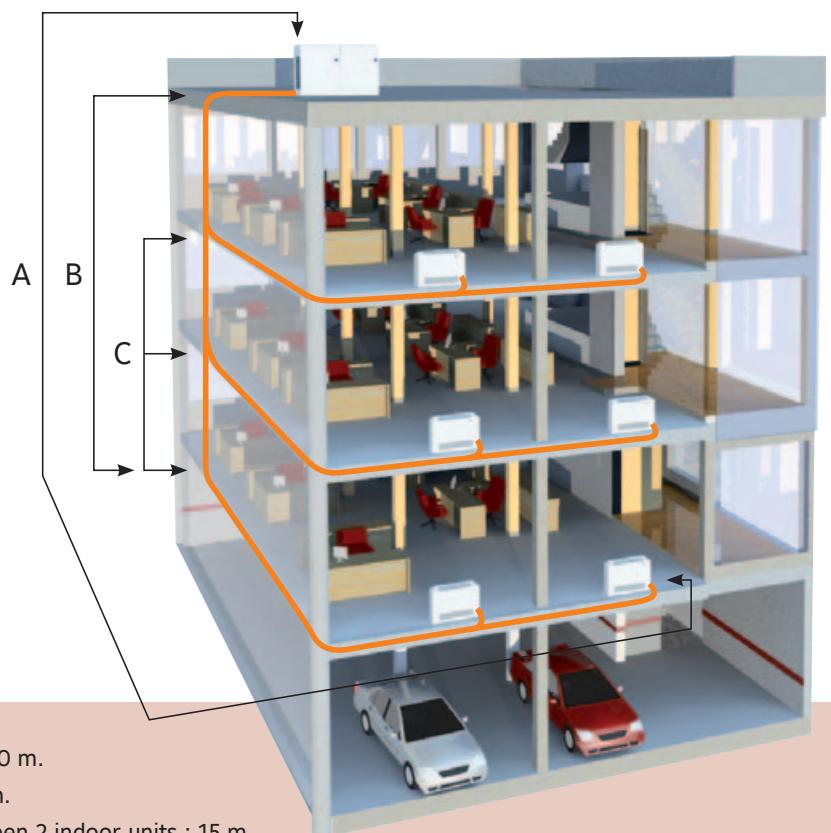
YDS System - System Diagram



YORK System YDS

The YORK system with Digital Scroll is working like the VRF principle and offers you economical air-conditioning system for projects, which are requiring more capacity than the normal split and multi split solutions.

The lengths for the connecting tubes between the indoor and outdoor have been prolonged, which brings you more flexible solutions for complex air-conditioning projects.



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Air movement make easy

Catalogue 2012

The ecological comfort

Welcome to Johnson Controls

Whether you are looking for technology designed for successful business or comfortable living, we will listen. We understand our customers' situation and offer the best possible solution he needs.

Johnson Controls has installed air conditioning units behind the scenes of buildings worldwide to create a comfortable environment that keeps occupants here all day.

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- ECOPTRIO V2 Plus Air/water heat pump YLHR 99 to 27 Plus
- ECOPTRIO V2 Air Cooled chiller and heat pump YLCIA/YLPA 40 to 180
- YRIS Hydro Variable System Air cooled water YDCC22H (-4) / YDCOM2H (-4) / YDCCH2H (-4) / YDCCB2H (-4)
- YLCC Air cooled chiller with centrifugal fan / YLCC 10 KH

Indoor water terminals

- YKK Hydro Cassette 2 & 4 pipe system
- YKK EDA Inverter Hydro Cassette 2 & 4 pipe system
- YFM Hydro High Hot 2 pipe system
- YFCN Fan Coil Unit central fan for 2 & 4 pipe system / YFTM Fan Coil Unit terminal fan 2 & 4 pipe system
- SAPHIR Fan Coil Unit 2 & 4 pipe system
- LASEA & LOW SCD Fan Coil Units 2 & 4 pipe system
- YSF Hydro Shower 2 & 4 pipe system

Air Systems

Quick view

Download presentation of VRF Systems (choose "Save" option in the next step(s))

Quick view

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Quick view

Download presentation of Air Systems (choose "Save" option in the next step(s))





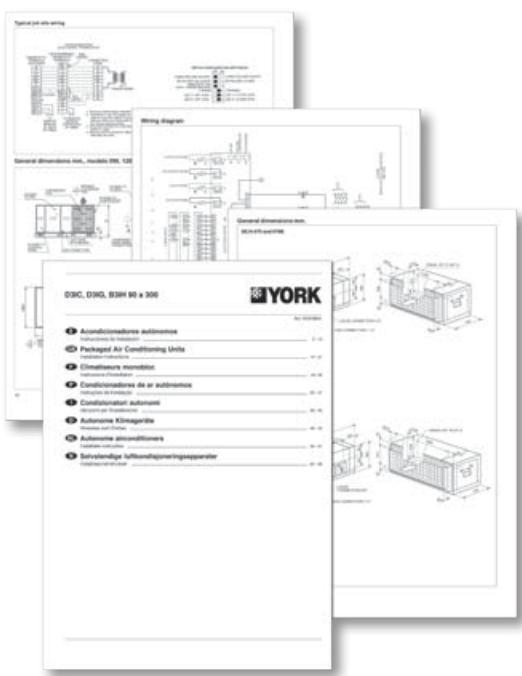
CD available at
Johnson Controls
office

Minimum system requirements

- Operating system Windows 98 or better
- Pentium II processor or superior
- 32 MB of RAM
- Screen resolution 800 x 600 pixels, 16 bits

To view all pdf files, the Adobe Acrobat Reader® program is required. If said program is not installed, install the one included in this CD-ROM.

Multi-language Technical Information



easy-direct-clear





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