QHC Series
50/60Hz Heat Pump
Inverter
Single Phase
2.7kW to 6.4kW

Engineering Databook

The QHC series 50/60Hz Split--System of inverter Heat Pumps are designed for quiet, reliable heating during the winter and cooling during the summer. These heat pump systems provide economy of operation through energy conservation when used with components designated by the manufacturer. The QHC series recovers heat for indoor comfort from outdoor air during the heating season and, by automatically reversing the refrigerant system, remove indoor heat and excess humidity during the cooling season.

FEATURES AND BENEFITS

AVAILABLE SIZES:
Nominal capacity are available from 2.7kW through 6.4kW to meet the needs of residential applications.

CERTIFICATION:
All models are registered with VDE mark and CE.

ELECTRICAL RANGE
Units offered in single phase 220V ~ 240V.

ENVIRONMENTAL REFRIGERANT
The QHC uses R410a, the environmentally sound refrigerant that provides home owners with additional peace of mind because R410a has zero ozone--depletion potential.

UNIT DESIGN:
The copper tube(I-G), coated fin, enhanced sine wave, aluminum fin coil is designed for optimum heat transfer and corrosion protection.

SOUND SHIELD
All ODU have compressor sound SHIELD for noise attenuation.

OPERATING RANGE:
Minimum outdoor operating ambient in cooling mode is -15°C, and maximum is 46°C. Minimum outdoor operating range for heating mode is -15°C, maximum is 24°C.

HIDDEN DISPLAY
The lights can be turned off by remote controller when the unit is running.

2-WAY DRAINAGE CONNECTION
Both left and right sides of indoor unit are possible for drainage hose connection, easy for installation.

LOUVER POSITION MEMORY
When starting the unit again after shutting down, its louver will restore to the angle originally set by the user.

FEATURES AND BENEFITS(CONT.)

REFRIGERANT LEAKAGE DETECT

(1)Only be active in cooling mode.
(2)If the refrigerant have leakage, the display area will be showed “EC” and AC will be turned off.
(3)The refrigerant leakage detect function can be better prevent the compressor being damaged by refrigerant leakage or compressor overload.

8℃ HEATING

(1)In heating operation, the preset temperature of the air conditioner can be as lower as 8℃, which keeps the room temperature steady at 8℃ and prevents household things freezing when the house is unoccupied for a long time in severe cold weather.
(2)This function can be memorized even if the power fails.

QUIET DESIGN

Select SILENCE on remote controller to enter silence operation.(Press the button for 2 second) . Indoor fan will run at super breeze, which can keep indoor in a very low noise level, make a comfortable feeling for sleep.

FOLLOW ME

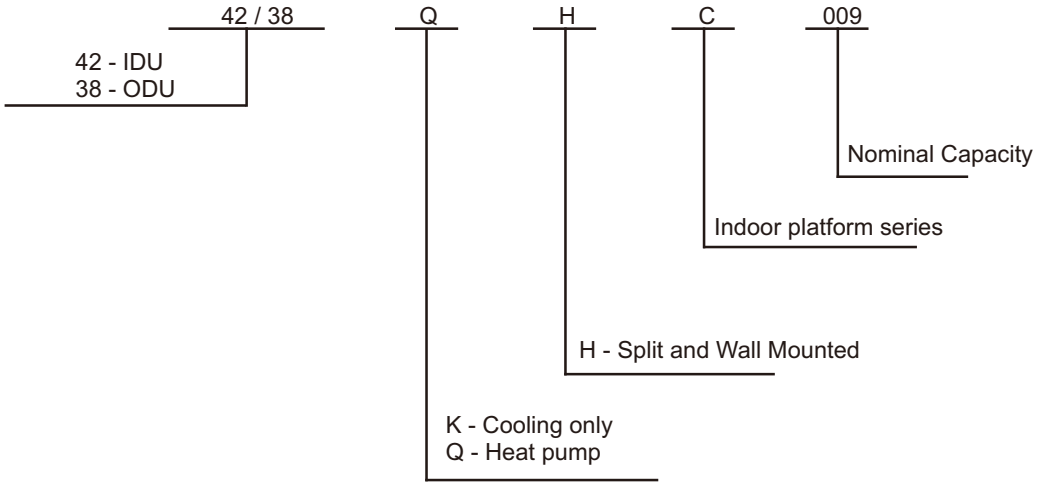
(1)With this function, the room temperature sensor built in remote controller is activated and replaces the one in indoor unit. Then the air conditioner will regulate the room temperature based on the temperature around the remote controller, just like the air conditioner is following the user.
(2)Pressing the “Follow me” button on remote controller to active this function. Then the remote controller will send PCB the signal every three minutes. If the PCB doesn’t receive the signal for 7 minutes or pressing “Follow me” button again, the follow me function will terminate.

LOW AMBIENT COOLING

The outdoor fan speed can be changed according to the condenser temperature and the AC can run smoothly under the temperature as low as -15 ℃.

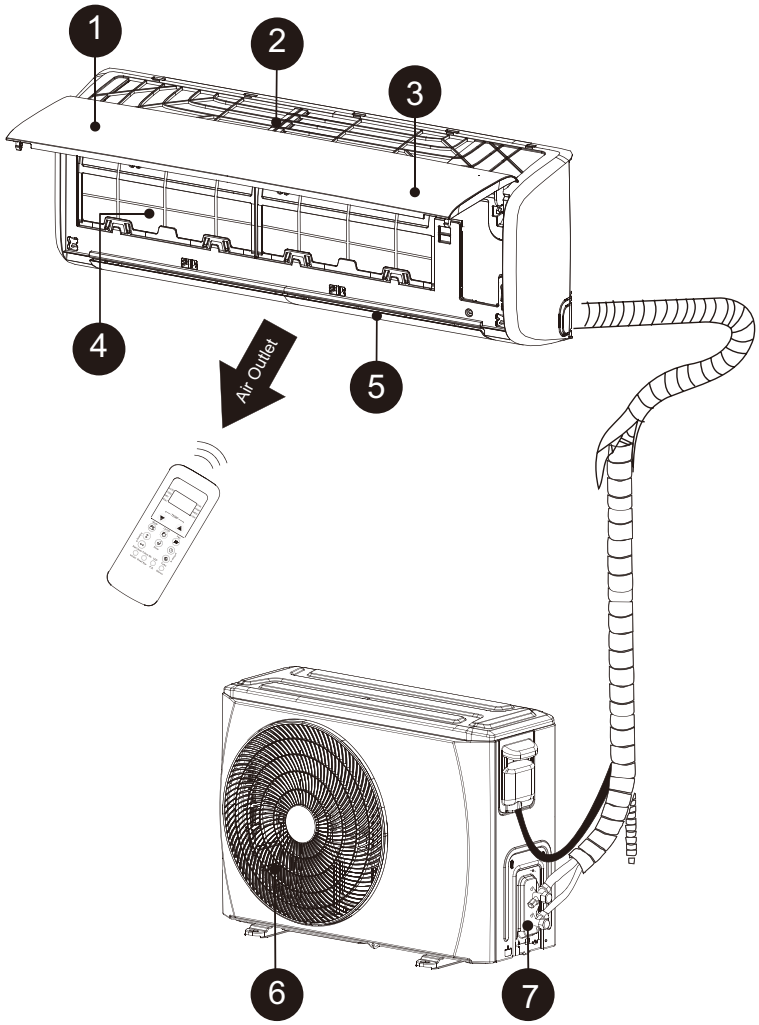
QHC

PRODUCT NUMBER NOMENCLATURE



PART NAMES

■ **Indoor**



■ **Outdoor**

1. Front Panel
2. Air Inlet
3. Display
4. Air Filter
5. Louver
6. Discharge
7. Service valve

QHC

■ **Display symbols**

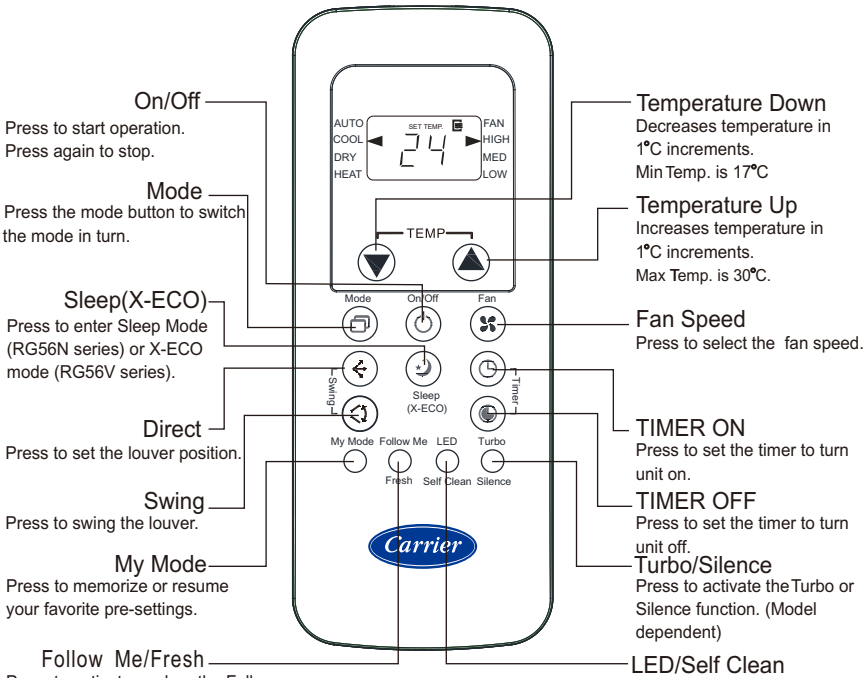
Display symbol represent:

- 25 Shows setting temperature in normal operation.
- 25 Shows room temperature in FAN mode.
- ON Display it for three seconds when timer on is set, or activate Air purification*, Swing, Turbo and Silence* fuction.
- OF Display it for three seconds when timer off is set, or cancel Air purification*, Swing, Turbo and Silence* fuction.
- dF Defrosting operation*
- cF Cold draft prevention*
- SC Self clean*
- FP Freeze Protection*
- ECO When ECO funciton* is activated, the display illuminates in sequence as ? E -- C -- 0 -- setting temperature -- E ...? in one second interval.
- WIFI function (only for the model with WIFI module)*

[*] Model dependent

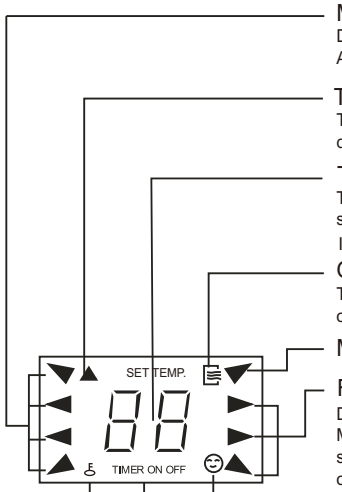
Note: A guide on using the infrared remote controller refer to the remote controller manual.

REMOTE CONTROLLER



NOTE:
1. Above illustration shows all the features. For actual model, only the relevant parts are shown.
2. Buttons design might be slightly different from the actual one.

Remote control display



Mode display
Displays the selected mode.
AUTO, COOL, DRY, HEAT

Transmission Indicator
This transmission indicator will light when remote controller transmits signals to the indoor unit.

Temp./Timer display
The temperature setting (from 17℃ to 30℃) or timer setting (0~24h) will be displayed.
If FAN mode is selected, there will be no Temp. display

ON/OFF display
This indicator will be displayed when the unit is operating

Mode display (Fan mode)

Fan speed display
Displays the selected fan speed: AUTO, HIGH, MED and LOW. Nothing displays when the fan speed is selected in AUTO speed. When AUTO or DRY Mode is selected, there will be no signal displayed.

Follow ME display
When pressing FOLLOW ME button in COOL or HEAT operating mode, the remote sensing function is activated and this indicator displays.

TIMER display
This display area shows the settings of the TIMER. That is, if only the Auto-on time function is set, it's display TIMER ON. If only the Auto-off time function is set, it's display TIMER OFF. If both functions are set, it's display TIMER ON OFF.

LOCK display
Lock display is displayed during LOCK mode.

QHC

SPECIFICATION FOR QHC_DS MODELS

OUTDOOR UNIT		38QHC009DS*	38QHC012DS*	38QHC018DS*	38QHC024DS*
Cool capacity	kW	2.7(0.5-3.5)	3.5(0.5-3.8)	5.2(0.8-5.8)	6.4(1.4-6.6)
Heating capacity	kW	2.9(0.6-3.8)	3.8(0.6-4.2)	5.5(1.0-6.0)	7.0(1.5-7.0)
Heating capacity at -7℃	kW	2.6	2.9	3.9	4.3
Heating capacity at -10℃	kW	2.3	2.8	3.7	4.2
Heating capacity at -15℃	kW	2.1	2.5	3.5	4.1
P design capacity cooling	kW	2.7	3.5	5.2	6.4
P design capacity heating(warmer)	kW	2.7	3.4	5.6	6.4
P design capacity heating(average)	kW	2.4	2.9	4.3	5.2
Temp range cooling	℃	-15~46	-15~46	-15~46	-15~46
Temp range heating	℃	-15~24	-15~24	-15~24	-15~24
SEER / SCOP(warmer) / SCOP(average)	W/W	7.2 / 5.2 / 4.0	6.7 / 5.1 / 4.0	7.0 / 5.1 / 4.0	6.2 / 4.6 / 4.0
Energy label		A++ / A+++ / A+	A++ / A+++ / A+	A++ / A+++ / A+	A++ / A++ / A+
Yearly energy consumption	kWh	131 / 727 / 840	183 / 933 / 1015	260 / 1537 /1505	361 / 1948 / 1820
EER/COP	W/W	3.3 / 3.7	2.8 / 3.4	3.2 / 3.2	3.1 / 3.3
Voltage, Hz		220-240V~, 50/60Hz	220-240V~, 50/60Hz	220-240V~, 50/60Hz	220-240V~, 50/60Hz
Standard current (cooling)	A	3.7	5.4	7.3	9.3
Standard input (cooling)	W	820	1250	1625	2060
Standard current (heating)	A	3.5	4.9	7.6	9.7
Standard input (heating)	W	780	1120	1720	2120
Rated current	A	10.0	10.0	12.5	18.0
Rated input	W	2200	2200	2750	4100
Refrigerant amout	kg	0.67	0.68	1.65	2.00
Liquid side/ Gas side	mm(inch)	Φ6.35/Φ9.52 (1/4"/3/8")	Φ6.35/Φ9.52 (1/4"/3/8")	Φ6.35/Φ12.7 (1/4"/1/2")	Φ9.52/Φ15.9 (3/8"/5/8")
Standard piping length	m	5	5	5	5
Mn piping length	m	3	3	3	3
Max piping length	m	25	25	30	40
Max difference	m	10	10	20	20
Additional charge	g/m	15	15	15	30

INDOOR UNIT		42QHC009DS*	42QHC012DS*	42QHC018DS*	42QHC024DS*
Indoor fan motor Input	W	22	22	36	60
Indoor fan motor max current	A	0.5	0.5	0.5	0.7
Sound power level	dB(A)	52	53	56	62
Sound pressure level (high/med/low/silence)	dB(A)	38/34/30/21	40/35/31/22	42/37/35/24	47/42/38/26
Air flow (high/med/low/silence)	m^3/h	460/380/280/190	500/390/300/200	760/550/460/260	1150/890/770/420
Weight (Net/Gross)	kg	8.0 / 10.5	9.0 / 12.0	11.5 / 16.5	13.5 / 18.5
Dimensions (WxDxH)	mm	730×192×291	812×192×300	973×218×319	1082×225×338
Packing (WxDxH)	mm	800×275×375	880×275×385	1055×405×305	1165×420x315

OUTDOOR UNIT		38QHC009DS*	38QHC012DS*	38QHC018DS*	38QHC024DS*
Sound power level	dB(A)	61	62	63	68
Sound pressure level	dB(A)	54	54	55	58
Airflow	m^3/h	1700	1900	2100	2700
Weight (Net/Gross)	kg	23.0 / 25.0	26.5 / 28.5	38.0 / 40.5	44.0 / 47.5
Dimensions (WxDxH)	mm	700×275×550	770×300×555	800×333×554	845×363×702
Packing (WxDxH)	mm	815×325×615	900×348×615	920×390×615	965×395×755

Note

* Sound data @cooling mode

*-7℃/-10℃/-15℃ heating @free frequency

QHC

SPECIFICATION FOR QHC_ES MODELS

OUTDOOR UNIT		38QHC009ES*	38QHC012ES*	38QHC018ES*	38QHC024ES*
Cool capacity	kW	2.7(0.5-3.5)	3.5(0.5-4.0)	5.2(0.8-6.0)	6.4(1.4-6.7)
Heating capacity	kW	2.9(0.6-4.0)	3.9(0.6-4.5)	5.5(1.0-6.3)	7.0(1.5-7.3)
Heating capacity at -7℃	kW	2.7	3.2	4.1	4.5
Heating capacity at -10℃	kW	2.5	3.1	3.9	4.4
Heating capacity at -15℃	kW	2.2	2.7	3.7	4.2
P design capacity cooling	kW	2.7	3.5	5.2	6.4
P design capacity heating(warmer)	kW	2.7	3.6	5.6	6.7
P design capacity heating(average)	kW	2.4	2.9	4.3	5.2
Temp range cooling	℃	-15~46	-15~46	-15~46	-15~46
Temp range heating	℃	-15~24	-15~24	-15~24	-15~24
SEER / SCOP(warmer) / SCOP(average)	W/W	7.5 / 5.4 / 4.0	7.0 / 5.2 / 4.0	7.1 / 5.2 / 4.0	7.0 / 4.8 / 4.0
Energy label		A++ / A+++ / A+	A++ / A+++ / A+	A++ / A+++ / A+	A++ / A++ / A+
Yearly energy consumption	kWh	126 / 700 / 840	175 / 969 /1015	256 / 1508 / 1505	320 / 1954 / 1820
EER/COP	W/W	3.3 / 3.7	3.1 / 3.5	3.2 / 3.2	3.1 / 3.3
Voltage, Hz		220-240V~, 50/60Hz	220-240V~, 50/60Hz	220-240V~, 50/60Hz	220-240V~, 50/60Hz
Standard current (cooling)	A	3.7	5.0	7.3	9.3
Standard input (cooling)	W	820	1130	1625	2060
Standard current (heating)	A	3.5	4.9	7.6	9.7
Standard input (heating)	W	780	1110	1720	2120
Rated current	A	10.0	10.0	12.5	18.0
Rated input	W	2200	2200	2750	4100
Refrigerant amout	kg	0.72	0.75	1.70	2.00
Liquid side/ Gas side	mm(inch)	Φ6.35/Φ9.52 (1/4"/3/8")	Φ6.35/Φ9.52 (1/4"/3/8")	Φ6.35/Φ12.7 (1/4"/1/2")	Φ9.52/Φ15.9 (3/8"/5/8")
Standard piping length	m	5	5	5	5
Min piping length	m	3	3	3	3
Max piping length	m	25	25	30	40
Max difference	m	10	10	20	20
Additional charge	g/m	15	15	15	30

INDOOR UNIT		42QHC009ES*	42QHC012ES*	42QHC018ES*	42QHC024ES*
Indoor fan motor Input	W	22	22	36	60
Indoor fan motor max current	A	0.5	0.5	0.5	0.7
Sound power level	dB(A)	52	53	56	62
Sound pressure level (high/med/low/silence)	dB(A)	38/34/30/21	40/35/31/22	42/37/35/24	47/42/38/26
Air flow (high/med/low/silence)	m^3/h	460/380/280/190	500/390/300/200	760/550/460/260	1150/890/770/420
Weight (Net/Gross)	kg	8.0 / 10.5	9.0 / 12.0	11.5 / 16.5	13.5 / 18.5
Dimensions (WxDxH)	mm	730×192×291	812×192×300	973×218×319	1082×225×338
Packing (WxDxH)	mm	800×275×375	880×275×385	1055×405×305	1165×420x315

OUTDOOR UNIT		38QHC009ES*	38QHC012ES*	38QHC018ES*	38QHC024ES*
Sound power level	dB(A)	62	63	64	68
Sound pressure level	dB(A)	54	55	55	58
Airflow	m^3/h	1900	2100	2100	2700
Weight (Net/Gross)	kg	26.5 / 28.5	28.5 / 31.0	38.0 / 40.5	44.0 / 47.5
Dimensions (WxDxH)	mm	770×300×555	800×333×554	800×333×554	845×363×702
Packing (WxDxH)	mm	900×348×615	920×390×615	920×390×615	965×395×755

Note
* Sound data @ cooling mode
*-7℃/-10℃/-15℃ heating @ free frequency

TECHNICAL INFORMATION OF QHC_DS

This information includes the results of calculation of the seasonal energy consumption and efficiency for air conditioner in regards to ErP pursuant to the Commission Regulation(EU) No.206/2012 and No.626/2011.
Information to identify the model(s) to which the information relates to:

	AIR CONDITIONER
TYPE	: SPLIT
	WALL-MOUNTED
Indoor unit(s)	: 42QHC009DS
Outdoor unit	: 38QHC009DS
Brand	: Carrier

Function (indicate if present)				if fuction includes heating : Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.			
cooling		Y		Average (mandatory)		Y	
heating		Y		Warmer (if designated)		Y	
				Colder (if designated)		N	
Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesignc	2.7	kW	cooling	SEER	7.2	-
heating/Average	Pdesignh	2.4	kW	heating/Average	SCOP/A	4.0	-
heating/Warmer	Pdesignh	2.7	kW	heating/Warmer	SCOP/W	5.2	-
heating/Colder	Pdesignh	x,x	kW	heating/Colder	SCOP/C	x,x	-
Declared capacity(*) for cooling, at indoor temperature 27(19)℃ and outdoor temperature Tj				Declared energy efficiency ratio(*), at indoor temperature 27(19)℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35℃	Pdc	2.7	kW	Tj = 35℃	EERd	3.3	-
Tj = 30℃	Pdc	1.9	kW	Tj = 30℃	EERd	5.5	-
Tj = 25℃	Pdc	1.3	kW	Tj = 25℃	EERd	9.0	-
Tj = 20℃	Pdc	1.0	kW	Tj = 20℃	EERd	13.0	-
Declared capacity(*) for heating/Average season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Average season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	2.1	kW	Tj = -7℃	COPd	2.7	-
Tj = 2℃	Pdh	1.3	kW	Tj = 2℃	COPd	3.9	-
Tj = 7℃	Pdh	0.9	kW	Tj = 7℃	COPd	5.2	-
Tj = 12℃	Pdh	0.8	kW	Tj = 12℃	COPd	6.2	-
Tj = bivalent temperature	Pdh	2.1	kW	Tj = bivalent temperature	COPd	2.7	-
Tj = operating limit	Pdh	2.1	kW	Tj = operating limit	COPd	2.0	-
Declared capacity(*) for heating/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2℃	Pdh	2.7	kW	Tj = 2℃	COPd	2.8	-
Tj = 7℃	Pdh	1.8	kW	Tj = 7℃	COPd	5.0	-
Tj = 12℃	Pdh	0.8	kW	Tj = 12℃	COPd	6.1	-
Tj = bivalent temperature	Pdh	2.7	kW	Tj = bivalent temperature	COPd	2.8	-
Tj = operating limit	Pdh	2.7	kW	Tj = operating limit	COPd	2.7	-
Declared capacity(*) for heating/Colder season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Colder season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	x,x	kW	Tj = -7℃	COPd	x,x	-
Tj = 2℃	Pdh	x,x	kW	Tj = 2℃	COPd	x,x	-
Tj = 7℃	Pdh	x,x	kW	Tj = 7℃	COPd	x,x	-
Tj = 12℃	Pdh	x,x	kW	Tj = 12℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-
Tj = -15℃	Pdh	x,x	kW	Tj = -15℃	COPd	x,x	-
Bivalent temperature				Operating limit temperature			

TECHNICAL INFORMATION OF QHC_DS

This information includes the results of calculation of the seasonal energy consumption and efficiency for air conditioner in regards to ErP pursuant to the Commission Regulation(EU) No.206/2012 and No.626/2011. Information to identify the model(s) to which the information relates to:

TYPE	: AIR CONDITIONER SPLIT WALL-MOUNTED
Indoor unit(s)	: 42QHC012DS
Outdoor unit	: 38QHC012DS
Brand	: Carrier

Function (indicate if present)		if fuction includes heating : Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	Y
		Colder (if designated)	N

Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesignc	3.5	kW	cooling	SEER	6.7	-
heating/Average	Pdesignh	2.9	kW	heating/Average	SCOP/A	4.0	-
heating/Warmer	Pdesignh	3.4	kW	heating/Warmer	SCOP/W	5.1	-
heating/Colder	Pdesignh	x,x	kW	heating/Colder	SCOP/C	x,x	-
Declared capacity(*) for cooling, at indoor temperature 27(19)℃ and outdoor temperature Tj				Declared energy efficiency ratio(*), at indoor temperature 27(19)℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35℃	Pdc	3.5	kW	Tj = 35℃	EERd	2.8	-
Tj = 30℃	Pdc	2.6	kW	Tj = 30℃	EERd	4.7	-
Tj = 25℃	Pdc	1.7	kW	Tj = 25℃	EERd	8.3	-
Tj = 20℃	Pdc	1.1	kW	Tj = 20℃	EERd	13.9	-
Declared capacity(*) for heating/Average season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Average season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	2.6	kW	Tj = -7℃	COPd	2.6	-
Tj = 2℃	Pdh	1.7	kW	Tj = 2℃	COPd	4.0	-
Tj = 7℃	Pdh	1.0	kW	Tj = 7℃	COPd	5.2	-
Tj = 12℃	Pdh	1.1	kW	Tj = 12℃	COPd	6.5	-
Tj = bivalent temperature	Pdh	2.6	kW	Tj = bivalent temperature	COPd	2.6	-
Tj = operating limit	Pdh	2.5	kW	Tj = operating limit	COPd	2.1	-
Declared capacity(*) for heating/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2℃	Pdh	3.4	kW	Tj = 2℃	COPd	2.6	-
Tj = 7℃	Pdh	2.2	kW	Tj = 7℃	COPd	4.4	-
Tj = 12℃	Pdh	1.0	kW	Tj = 12℃	COPd	6.7	-
Tj = bivalent temperature	Pdh	3.4	kW	Tj = bivalent temperature	COPd	2.6	-
Tj = operating limit	Pdh	3.4	kW	Tj = operating limit	COPd	2.6	-
Declared capacity(*) for heating/Colder season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Colder season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	x,x	kW	Tj = -7℃	COPd	x,x	-
Tj = 2℃	Pdh	x,x	kW	Tj = 2℃	COPd	x,x	-
Tj = 7℃	Pdh	x,x	kW	Tj = 7℃	COPd	x,x	-
Tj = 12℃	Pdh	x,x	kW	Tj = 12℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-
Tj = -15℃	Pdh	x,x	kW	Tj = -15℃	COPd	x,x	-

TECHNICAL INFORMATION OF QHC_DS

This information includes the results of calculation of the seasonal energy consumption and efficiency for air conditioner in regards to ErP pursuant to the Commission Regulation(EU) No.206/2012 and No.626/2011. Information to identify the model(s) to which the information relates to:

	AIR CONDITIONER
TYPE	: SPLIT
	WALL-MOUNTED
Indoor unit(s)	: 42QHC018DS
Outdoor unit	: 38QHC018DS
Brand	: Carrier

Function (indicate if present)		if fuction includes heating : Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	Y
		Colder (if designated)	N

Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesignc	5.2	kW	cooling	SEER	7.0	-
heating/Average	Pdesignh	4.3	kW	heating/Average	SCOP/A	4.0	-
heating/Warmer	Pdesignh	5.6	kW	heating/Warmer	SCOP/W	5.1	-
heating/Colder	Pdesignh	x,x	kW	heating/Colder	SCOP/C	x,x	-
Declared capacity(*) for cooling, at indoor temperature 27(19)℃ and outdoor temperature Tj				Declared energy efficiency ratio(*), at indoor temperature 27(19)℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35℃	Pdc	5.2	kW	Tj = 35℃	EERd	3.2	-
Tj = 30℃	Pdc	3.5	kW	Tj = 30℃	EERd	4.9	-
Tj = 25℃	Pdc	2.3	kW	Tj = 25℃	EERd	8.3	-
Tj = 20℃	Pdc	1.6	kW	Tj = 20℃	EERd	13.9	-
Declared capacity(*) for heating/Average season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Average season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	3.8	kW	Tj = -7℃	COPd	2.5	-
Tj = 2℃	Pdh	2.4	kW	Tj = 2℃	COPd	3.9	-
Tj = 7℃	Pdh	1.6	kW	Tj = 7℃	COPd	5.4	-
Tj = 12℃	Pdh	1.4	kW	Tj = 12℃	COPd	6.6	-
Tj = bivalent temperature	Pdh	3.8	kW	Tj = bivalent temperature	COPd	2.6	-
Tj = operating limit	Pdh	3.7	kW	Tj = operating limit	COPd	2.2	-
Declared capacity(*) for heating/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2℃	Pdh	4.6	kW	Tj = 2℃	COPd	2.7	-
Tj = 7℃	Pdh	3.6	kW	Tj = 7℃	COPd	4.5	-
Tj = 12℃	Pdh	1.6	kW	Tj = 12℃	COPd	6.8	-
Tj = bivalent■mperature	Pdh	4.4	kW	Tj = bivalent temperature	COPd	3.6	-
Tj = operating limit	Pdh	4.6	kW	Tj = operating limit	COPd	2.7	-
Declared capacity(*) for heating/Colder season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Colder season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	x,x	kW	Tj = -7℃	COPd	x,x	-
Tj = 2℃	Pdh	x,x	kW	Tj = 2℃	COPd	x,x	-
Tj = 7℃	Pdh	x,x	kW	Tj = 7℃	COPd	x,x	-
Tj = 12℃	Pdh	x,x	kW	Tj = 12℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-
Tj = -15℃	Pdh	x,x	kW	Tj = -15℃	COPd	x,x	-

TECHNICAL INFORMATION OF QHC_DS

This information includes the results of calculation of the seasonal energy consumption and efficiency for air conditioner in regards to ErP pursuant to the Commission Regulation(EU) No.206/2012 and No.626/2011. Information to identify the model(s) to which the information relates to:

	AIR CONDITIONER
TYPE	: SPLIT
	WALL-MOUNTED
Indoor unit(s)	: 42QHC024DS
Outdoor unit	: 38QHC024DS
Brand	: Carrier

Function (indicate if present)		if fuction includes heating : Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	Y
		Colder (if designated)	N

Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesignc	6.4	kW	cooling	SEER	6.2	-
heating/Average	Pdesignh	5.2	kW	heating/Average	SCOP/A	4.0	-
heating/Warmer	Pdesignh	6.4	kW	heating/Warmer	SCOP/W	4.6	-
heating/Colder	Pdesignh	x,x	kW	heating/Colder	SCOP/C	x,x	-
Declared capacity(*) for cooling, at indoor temperature 27(19)℃ and outdoor temperature Tj				Declared energy efficiency ratio(*), at indoor temperature 27(19)℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35℃	Pdc	6.4	kW	Tj = 35℃	EERd	3.1	-
Tj = 30℃	Pdc	4.4	kW	Tj = 30℃	EERd	4.6	-
Tj = 25℃	Pdc	3.0	kW	Tj = 25℃	EERd	6.5	-
Tj = 20℃	Pdc	2.0	kW	Tj = 20℃	EERd	13.1	-
Declared capacity(*) for heating/Average season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Average season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	4.6	kW	Tj = -7℃	COPd	2.6	-
Tj = 2℃	Pdh	3.0	kW	Tj = 2℃	COPd	3.9	-
Tj = 7℃	Pdh	1.9	kW	Tj = 7℃	COPd	5.2	-
Tj = 12℃	Pdh	1.4	kW	Tj = 12℃	COPd	6.5	-
Tj = bivalent temperature	Pdh	4.6	kW	Tj = bivalent temperature	COPd	2.6	-
Tj = operating limit	Pdh	4.3	kW	Tj = operating limit	COPd	2.2	-
Declared capacity(*) for heating/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2℃	Pdh	5.5	kW	Tj = 2℃	COPd	2.6	-
Tj = 7℃	Pdh	4.2	kW	Tj = 7℃	COPd	3.8	-
Tj = 12℃	Pdh	2.0	kW	Tj = 12℃	COPd	6.1	-
Tj = bivalent temperature	Pdh	5.0	kW	Tj = bivalent temperature	COPd	3.5	-
Tj = operating limit	Pdh	5.5	kW	Tj = operating limit	COPd	2.6	-
Declared capacity(*) for heating/Colder season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Colder season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	x,x	kW	Tj = -7℃	COPd	x,x	-
Tj = 2℃	Pdh	x,x	kW	Tj = 2℃	COPd	x,x	-
Tj = 7℃	Pdh	x,x	kW	Tj = 7℃	COPd	x,x	-
Tj = 12℃	Pdh	x,x	kW	Tj = 12℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-
Tj = -15℃	Pdh	x,x	kW	Tj = -15℃	COPd	x,x	-

TECHNICAL INFORMATION OF QHC_ES

This information includes the results of calculation of the seasonal energy consumption and efficiency for air conditioner in regards to ErP pursuant to the Commission Regulation(EU) No.206/2012 and No.626/2011. Information to identify the model(s) to which the information relates to:

	AIR CONDITIONER
TYPE	: SPLIT
	WALL-MOUNTED
Indoor unit(s)	: 42QHC009ES
Outdoor unit	: 38QHC009ES
Brand	: Carrier

Function (indicate if present)		if fuction includes heating : Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	Y
		Colder (if designated)	N

Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesignc	2.7	kW	cooling	SEER	7.5	-
heating/Average	Pdesignh	2.4	kW	heating/Average	SCOP/A	4.0	-
heating/Warmer	Pdesignh	2.7	kW	heating/Warmer	SCOP/W	5.4	-
heating/Colder	Pdesignh	x,x	kW	heating/Colder	SCOP/C	x,x	-
Declared capacity(*) for cooling, at indoor temperature 27(19)℃ and outdoor temperature Tj				Declared energy efficiency ratio(*), at indoor temperature 27(19)℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35℃	Pdc	2.7	kW	Tj = 35℃	EERd	3.3	-
Tj = 30℃	Pdc	2.0	kW	Tj = 30℃	EERd	5.6	-
Tj = 25℃	Pdc	1.3	kW	Tj = 25℃	EERd	9.7	-
Tj = 20℃	Pdc	1.1	kW	Tj = 20℃	EERd	14.0	-
Declared capacity(*) for heating/Average season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Average season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	2.1	kW	Tj = -7℃	COPd	2.6	-
Tj = 2℃	Pdh	1.3	kW	Tj = 2℃	COPd	4.1	-
Tj = 7℃	Pdh	0.8	kW	Tj = 7℃	COPd	5.2	-
Tj = 12℃	Pdh	0.9	kW	Tj = 12℃	COPd	6.2	-
Tj = bivalent temperature	Pdh	2.1	kW	Tj = bivalent temperature	COPd	2.6	-
Tj = operating limit	Pdh	2.2	kW	Tj = operating limit	COPd	2.0	-
Declared capacity(*) for heating/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2℃	Pdh	2.7	kW	Tj = 2℃	COPd	3.0	-
Tj = 7℃	Pdh	1.8	kW	Tj = 7℃	COPd	5.0	-
Tj = 12℃	Pdh	1.0	kW	Tj = 12℃	COPd	6.8	-
Tj = bivalent temperature	Pdh	2.7	kW	Tj = bivalent temperature	COPd	3.0	-
Tj = operating limit	Pdh	2.7	kW	Tj = operating limit	COPd	3.0	-
Declared capacity(*) for heating/Colder season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Colder season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	x,x	kW	Tj = -7℃	COPd	x,x	-
Tj = 2℃	Pdh	x,x	kW	Tj = 2℃	COPd	x,x	-
Tj = 7℃	Pdh	x,x	kW	Tj = 7℃	COPd	x,x	-
Tj = 12℃	Pdh	x,x	kW	Tj = 12℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-
Tj = -15℃	Pdh	x,x	kW	Tj = -15℃	COPd	x,x	-

TECHNICAL INFORMATION OF QHC_ES

This information includes the results of calculation of the seasonal energy consumption and efficiency for air conditioner in regards to ErP pursuant to the Commission Regulation(EU) No.206/2012 and No.626/2011. Information to identify the model(s) to which the information relates to:

	AIR CONDITIONER
TYPE	: SPLIT
	WALL-MOUNTED
Indoor unit(s)	: 42QHC012ES
Outdoor unit	: 38QHC012ES
Brand	: Carrier

Function (indicate if present)		if fuction includes heating : Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	Y
		Colder (if designated)	N

Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesignc	3.5	kW	cooling	SEER	7.0	-
heating/Average	Pdesignh	2.9	kW	heating/Average	SCOP/A	4.0	-
heating/Warmer	Pdesignh	3.6	kW	heating/Warmer	SCOP/W	5.2	-
heating/Colder	Pdesignh	x,x	kW	heating/Colder	SCOP/C	x,x	-
Declared capacity(*) for cooling, at indoor temperature 27(19)℃ and outdoor temperature Tj				Declared energy efficiency ratio(*), at indoor temperature 27(19)℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35℃	Pdc	3.5	kW	Tj = 35℃	EERd	3.1	-
Tj = 30℃	Pdc	2.6	kW	Tj = 30℃	EERd	4.9	-
Tj = 25℃	Pdc	1.7	kW	Tj = 25℃	EERd	8.6	-
Tj = 20℃	Pdc	1.1	kW	Tj = 20℃	EERd	14.5	-
Declared capacity(*) for heating/Average season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Average season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	2.6	kW	Tj = -7℃	COPd	2.5	-
Tj = 2℃	Pdh	1.6	kW	Tj = 2℃	COPd	4.0	-
Tj = 7℃	Pdh	1.0	kW	Tj = 7℃	COPd	5.3	-
Tj = 12℃	Pdh	1.0	kW	Tj = 12℃	COPd	6.4	-
Tj = bivalent temperature	Pdh	2.6	kW	Tj = bivalent temperature	COPd	2.5	-
Tj = operating limit	Pdh	2.5	kW	Tj = operating limit	COPd	2.1	-
Declared capacity(*) for heating/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2℃	Pdh	3.6	kW	Tj = 2℃	COPd	2.7	-
Tj = 7℃	Pdh	2.4	kW	Tj = 7℃	COPd	4.9	-
Tj = 12℃	Pdh	1.0	kW	Tj = 12℃	COPd	7.0	-
Tj = bivalent temperature	Pdh	3.6	kW	Tj = bivalent temperature	COPd	2.7	-
Tj = operating limit	Pdh	3.6	kW	Tj = operating limit	COPd	2.7	-
Declared capacity(*) for heating/Colder season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Colder season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	x,x	kW	Tj = -7℃	COPd	x,x	-
Tj = 2℃	Pdh	x,x	kW	Tj = 2℃	COPd	x,x	-
Tj = 7℃	Pdh	x,x	kW	Tj = 7℃	COPd	x,x	-
Tj = 12℃	Pdh	x,x	kW	Tj = 12℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-
Tj = -15℃	Pdh	x,x	kW	Tj = -15℃	COPd	x,x	-

TECHNICAL INFORMATION OF QHC_ES

This information includes the results of calculation of the seasonal energy consumption and efficiency for air conditioner in regards to ErP pursuant to the Commission Regulation(EU) No.206/2012 and No.626/2011. Information to identify the model(s) to which the information relates to:

	AIR CONDITIONER
TYPE	: SPLIT
	WALL-MOUNTED
Indoor unit(s)	: 42QHC018ES
Outdoor unit	: 38QHC018ES
Brand	: Carrier

Function (indicate if present)		if fuction includes heating : Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	Y
		Colder (if designated)	N

Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesignc	5.2	kW	cooling	SEER	7.1	-
heating/Average	Pdesignh	4.3	kW	heating/Average	SCOP/A	4.0	-
heating/Warmer	Pdesignh	5.6	kW	heating/Warmer	SCOP/W	5.2	-
heating/Colder	Pdesignh	x,x	kW	heating/Colder	SCOP/C	x,x	-
Declared capacity(*) for cooling, at indoor temperature 27(19)℃ and outdoor temperature Tj				Declared energy efficiency ratio(*), at indoor temperature 27(19)℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35℃	Pdc	5.2	kW	Tj = 35℃	EERd	3.2	-
Tj = 30℃	Pdc	3.6	kW	Tj = 30℃	EERd	5.2	-
Tj = 25℃	Pdc	2.5	kW	Tj = 25℃	EERd	8.4	-
Tj = 20℃	Pdc	1.7	kW	Tj = 20℃	EERd	13.9	-
Declared capacity(*) for heating/Average season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Average season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	3.8	kW	Tj = -7℃	COPd	2.5	-
Tj = 2℃	Pdh	2.3	kW	Tj = 2℃	COPd	3.9	-
Tj = 7℃	Pdh	1.6	kW	Tj = 7℃	COPd	5.5	-
Tj = 12℃	Pdh	1.4	kW	Tj = 12℃	COPd	6.9	-
Tj = bivalent temperature	Pdh	3.8	kW	Tj = bivalent temperature	COPd	2.5	-
Tj = operating limit	Pdh	3.3	kW	Tj = operating limit	COPd	2.2	-
Declared capacity(*) for heating/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2℃	Pdh	4.5	kW	Tj = 2℃	COPd	3.0	-
Tj = 7℃	Pdh	3.5	kW	Tj = 7℃	COPd	4.6	-
Tj = 12℃	Pdh	1.7	kW	Tj = 12℃	COPd	7.3	-
Tj = bivalent■mperature	Pdh	4.4	kW	Tj = bivalent temperature	COPd	3.8	-
Tj = operating limit	Pdh	4.5	kW	Tj = operating limit	COPd	3.0	-
Declared capacity(*) for heating/Colder season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Colder season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	x,x	kW	Tj = -7℃	COPd	x,x	-
Tj = 2℃	Pdh	x,x	kW	Tj = 2℃	COPd	x,x	-
Tj = 7℃	Pdh	x,x	kW	Tj = 7℃	COPd	x,x	-
Tj = 12℃	Pdh	x,x	kW	Tj = 12℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-
Tj = -15℃	Pdh	x,x	kW	Tj = -15℃	COPd	x,x	-

TECHNICAL INFORMATION OF QHC_ES

This information includes the results of calculation of the seasonal energy consumption and efficiency for air conditioner in regards to ErP pursuant to the Commission Regulation(EU) No.206/2012 and No.626/2011. Information to identify the model(s) to which the information relates to:

	AIR CONDITIONER
TYPE	: SPLIT
	WALL-MOUNTED
Indoor unit(s)	: 42QHC024ES
Outdoor unit	: 38QHC024ES
Brand	: Carrier

Function (indicate if present)		if fuction includes heating : Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.	
cooling	Y	Average (mandatory)	Y
heating	Y	Warmer (if designated)	Y
		Colder (if designated)	N

Item	symbol	value	unit	Item	symbol	value	unit
Design load				Seasonal efficiency			
cooling	Pdesignc	6.4	kW	cooling	SEER	7.0	-
heating/Average	Pdesignh	5.2	kW	heating/Average	SCOP/A	4.0	-
heating/Warmer	Pdesignh	6.7	kW	heating/Warmer	SCOP/W	4.8	-
heating/Colder	Pdesignh	x,x	kW	heating/Colder	SCOP/C	x,x	-
Declared capacity(*) for cooling, at indoor temperature 27(19)℃ and outdoor temperature Tj				Declared energy efficiency ratio(*), at indoor temperature 27(19)℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 35℃	Pdc	6.4	kW	Tj = 35℃	EERd	3.1	-
Tj = 30℃	Pdc	4.6	kW	Tj = 30℃	EERd	5.1	-
Tj = 25℃	Pdc	3.3	kW	Tj = 25℃	EERd	8.2	-
Tj = 20℃	Pdc	2.1	kW	Tj = 20℃	EERd	13.6	-
Declared capacity(*) for heating/Average season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Average season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	4.5	kW	Tj = -7℃	COPd	2.6	-
Tj = 2℃	Pdh	2.7	kW	Tj = 2℃	COPd	4.0	-
Tj = 7℃	Pdh	1.9	kW	Tj = 7℃	COPd	5.8	-
Tj = 12℃	Pdh	1.4	kW	Tj = 12℃	COPd	6.7	-
Tj = bivalent temperature	Pdh	4.6	kW	Tj = bivalent temperature	COPd	2.6	-
Tj = operating limit	Pdh	4.1	kW	Tj = operating limit	COPd	2.2	-
Declared capacity(*) for heating/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Warmer season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = 2℃	Pdh	5.0	kW	Tj = 2℃	COPd	2.9	-
Tj = 7℃	Pdh	4.5	kW	Tj = 7℃	COPd	4.6	-
Tj = 12℃	Pdh	1.9	kW	Tj = 12℃	COPd	6.7	-
Tj = bivalent temperature	Pdh	5.3	kW	Tj = bivalent temperature	COPd	3.7	-
Tj = operating limit	Pdh	5.0	kW	Tj = operating limit	COPd	2.9	-
Declared capacity(*) for heating/Colder season, at indoor temperature 20℃ and outdoor temperature Tj				Declared coefficient of performance(*)/Colder season, at indoor temperature 20℃ and outdoor temperature Tj			
Item	symbol	value	unit	Item	symbol	value	unit
Tj = -7℃	Pdh	x,x	kW	Tj = -7℃	COPd	x,x	-
Tj = 2℃	Pdh	x,x	kW	Tj = 2℃	COPd	x,x	-
Tj = 7℃	Pdh	x,x	kW	Tj = 7℃	COPd	x,x	-
Tj = 12℃	Pdh	x,x	kW	Tj = 12℃	COPd	x,x	-
Tj = bivalent temperature	Pdh	x,x	kW	Tj = bivalent temperature	COPd	x,x	-
Tj = operating limit	Pdh	x,x	kW	Tj = operating limit	COPd	x,x	-
Tj = -15℃	Pdh	x,x	kW	Tj = -15℃	COPd	x,x	-

CAPACITY TABLE

Trend of total & sensible Heat Capacity / Indoor & Outdoor Air Temperature

Product models: QHC009DS

Specification of product at standard condition.

Standard Condition		
	Indoor	27ºCDB/19ºCWB
	Outdoor	35ºCDB/24ºCWB

Total Cooling Capacity(TC)	2700 W
Sensible Heat Capacity(SHC)	1996 W

Cooling	Outdoor conditions (DB)						
Indoor Conditions	(W)	25ºC	30ºC	35ºC	40ºC	45ºC	50ºC
21/15ºC DB/WB	TC	2534	2409	2241	2059	1890	1763
	SC	1844	1788	1710	1623	1540	1473
	Input	680	738	796	854	912	971
24/17ºC DB/WB	TC	2716	2595	2448	2292	2142	2013
	SC	1956	1898	1830	1763	1712	1689
	Input	680	743	807	870	933	996
27/19ºC DB/WB	TC	2907	2853	2700	2489	2265	2070
	SC	2120	2074	1996	1900	1803	1720
	Input	694	759	820	888	953	1017
32/23ºC DB/WB	TC	2961	3008	2966	2863	2730	2595
	SC	2008	2033	2016	1982	1958	1967
	Input	687	763	839	915	991	1067

Standard Condition		
	Indoor	20ºCDB/ -ºCWB
	Outdoor	7ºCDB/ 6ºCWB

Total Cooling Capacity(TC)	2900 W

Heating	Outdoor conditions (DB)						
Indoor Conditions	(W)	12ºC	7ºC	4ºC	0ºC	-4ºC	-7ºC
15/-ºC DB/WB	TC	3400	3025	2675	1730	1446	1393
	Input	849	758	679	585	544	574
18/-ºC DB/WB	TC	3202	2871	2588	1644	1517	1341
	Input	869	758	691	623	601	630
20/-ºC DB/WB	TC	3185	2900	2566	1561	1404	1371
	Input	892	780	708	623	590	620
22/-ºC DB/WB	TC	2961	2821	2448	1326	1418	1324
	Input	825	779	709	621	594	650

CAPACITY TABLE

Trend of total & sensible Heat Capacity / Indoor & Outdoor Air Temperature

Product models: QHC012DS

Specification of product at standard condition.

Standard Condition		
	Indoor	27ºCDB/19ºCWB
	Outdoor	35ºCDB/24ºCWB

Total Cooling Capacity(TC)	3500 W
Sensible Heat Capacity(SHC)	2587 W

Cooling	Outdoor conditions (DB)						
Indoor Conditions	(W)	25ºC	30ºC	35ºC	40ºC	45ºC	50ºC
21/15ºC DB/WB	TC	3285	3123	2905	2669	2450	2285
	SC	2390	2318	2217	2104	1996	1910
	Input	1036	1125	1213	1302	1391	1480
24/17ºC DB/WB	TC	3521	3363	3174	2971	2777	2610
	SC	2535	2461	2372	2286	2219	2189
	Input	1037	1133	1230	1326	1422	1518
27/19ºC DB/WB	TC	3768	3698	3500	3227	2937	2684
	SC	2748	2689	2587	2463	2337	2230
	Input	1058	1156	1250	1354	1452	1551
32/23ºC DB/WB	TC	3838	3900	3845	3712	3539	3364
	SC	2603	2635	2613	2570	2538	2550
	Input	1047	1163	1279	1394	1510	1626

Standard Condition		
	Indoor	20ºCDB/ -ºCWB
	Outdoor	7ºCDB/ 6ºCWB

Total Cooling Capacity(TC)	3800 W

Heating	Outdoor conditions (DB)						
Indoor Conditions	(W)	12ºC	7ºC	4ºC	0ºC	-4ºC	-7ºC
15/-ºC DB/WB	TC	4455	3964	3505	2266	1894	1826
	Input	1219	1088	975	840	781	824
18/-ºC DB/WB	TC	4196	3762	3392	2154	1988	1757
	Input	1247	1088	992	894	864	905
20/-ºC DB/WB	TC	4173	3800	3362	2046	1840	1796
	Input	1281	1120	1017	894	847	890
22/-ºC DB/WB	TC	3880	3696	3208	1737	1858	1734
	Input	1185	1118	1018	892	853	933

CAPACITY TABLE

Trend of total & sensible Heat Capacity / Indoor & Outdoor Air Temperature

Product models: QHC018DS

Specification of product at standard condition.

Standard Condition		
	Indoor	27ºCDB/19ºCWB
	Outdoor	35ºCDB/24ºCWB

Total Cooling Capacity(TC)	5200 W
Sensible Heat Capacity(SHC)	3844W

Cooling	Outdoor conditions (DB)						
Indoor Conditions	(W)	25ºC	30ºC	35ºC	40ºC	45ºC	50ºC
21/15ºC DB/WB	TC	4880	4640	4317	3965	3640	3396
	SC	3551	3444	3293	3125	2965	2838
	Input	1347	1462	1577	1693	1808	1923
24/17ºC DB/WB	TC	5231	4997	4715	4415	4125	3877
	SC	3767	3656	3524	3396	3297	3253
	Input	1348	1473	1598	1723	1848	1973
27/19ºC DB/WB	TC	5598	5494	5200	4794	4363	3987
	SC	4082	3995	3844	3659	3472	3313
	Input	1375	1503	1625	1760	1888	2016
32/23ºC DB/WB	TC	5703	5794	5712	5515	5257	4997
	SC	3868	3915	3882	3818	3770	3789
	Input	1361	1512	1662	1813	1963	2114

QHC

Standard Condition		
	Indoor	20ºCDB/ -ºCWB
	Outdoor	7ºCDB/ 6ºCWB

Total Cooling Capacity(TC)	5500 W

Heating	Outdoor conditions (DB)						
Indoor Conditions	(W)	12ºC	7ºC	4ºC	0ºC	-4ºC	-7ºC
15/-ºC DB/WB	TC	6448	5738	5073	3280	2742	2642
	Input	1871	1671	1497	1290	1199	1265
18/-ºC DB/WB	TC	6073	5445	4909	3118	2878	2543
	Input	1916	1670	1523	1374	1326	1390
20/-ºC DB/WB	TC	6040	5500	4866	2961	2663	2600
	Input	1967	1720	1561	1374	1300	1368
22/-ºC DB/WB	TC	5616	5350	4643	2514	2689	2510
	Input	1819	1717	1564	1370	1309	1433

CAPACITY TABLE

Trend of total & sensible Heat Capacity / Indoor & Outdoor Air Temperature

Product models: QHC024DS

Specification of product at standard condition.

Standard Condition		
	Indoor	27ºCDB/19ºCWB
	Outdoor	35ºCDB/24ºCWB

Total Cooling Capacity(TC)	6400 W
Sensible Heat Capacity(SHC)	4731 W

Cooling	Outdoor conditions (DB)						
Indoor Conditions	(W)	25ºC	30ºC	35ºC	40ºC	45ºC	50ºC
21/15ºC DB/WB	TC	6006	5711	5313	4880	4480	4179
	SC	4370	4238	4053	3847	3649	3493
	Input	1707	1853	2000	2146	2292	2438
24/17ºC DB/WB	TC	6438	6150	5803	5433	5077	4772
	SC	4636	4500	4338	4180	4058	4003
	Input	1709	1868	2026	2185	2343	2502
27/19ºC DB/WB	TC	6890	6761	6400	5900	5370	4907
	SC	5024	4917	4731	4504	4273	4077
	Input	1743	1906	2060	2231	2393	2556
32/23ºC DB/WB	TC	7019	7131	7031	6787	6471	6150
	SC	4760	4819	4778	4699	4640	4663
	Input	1726	1916	2107	2298	2489	2679

Standard Condition		
	Indoor	20ºCDB/ -ºCWB
	Outdoor	7ºCDB/ 6ºCWB

Total Cooling Capacity(TC)	7000 W

Heating	Outdoor conditions (DB)						
Indoor Conditions	(W)	12ºC	7ºC	4ºC	0ºC	-4ºC	-7ºC
15/-ºC DB/WB	TC	8207	7302	6457	4175	3490	3363
	Input	2307	2059	1846	1590	1478	1559
18/-ºC DB/WB	TC	7729	6930	6248	3968	3663	3236
	Input	2361	2059	1877	1693	1635	1713
20/-ºC DB/WB	TC	7688	7000	6194	3769	3389	3309
	Input	2425	2120	1924	1693	1603	1686
22/-ºC DB/WB	TC	7147	6809	5909	3200	3422	3195
	Input	2243	2117	1928	1688	1614	1767

CAPACITY TABLE

Trend of total & sensible Heat Capacity / Indoor & Outdoor Air Temperature

Product models: QHC009ES

Specification of product at standard condition.

Standard Condition		
	Indoor	27ºCDB/19ºCWB
	Outdoor	35ºCDB/24ºCWB

Total Cooling Capacity(TC)	2700 W
Sensible Heat Capacity(SHC)	1996 W

Cooling		Outdoor conditions (DB)					
Indoor Conditions	(W)	25ºC	30ºC	35ºC	40ºC	45ºC	50ºC
21/15ºC DB/WB	TC	2534	2409	2241	2059	1890	1763
	SC	1844	1788	1710	1623	1540	1473
	Input	680	738	796	854	912	971
24/17ºC DB/WB	TC	2716	2595	2448	2292	2142	2013
	SC	1956	1898	1830	1763	1712	1689
	Input	680	743	807	870	933	996
27/19ºC DB/WB	TC	2907	2853	2700	2489	2265	2070
	SC	2120	2074	1996	1900	1803	1720
	Input	694	759	820	888	953	1017
32/23ºC DB/WB	TC	2961	3008	2966	2863	2730	2595
	SC	2008	2033	2016	1982	1958	1967
	Input	687	763	839	915	991	1067

QHC

Standard Condition		
	Indoor	20ºCDB/ -ºCWB
	Outdoor	7ºCDB/ 6ºCWB

Total Cooling Capacity(TC)	2900 W

Heating		Outdoor conditions (DB)					
Indoor Conditions	(W)	12ºC	7ºC	4ºC	0ºC	-4ºC	-7ºC
15/-ºC DB/WB	TC	3400	3025	2675	1730	1446	1393
	Input	849	758	679	585	544	574
18/-ºC DB/WB	TC	3202	2871	2588	1644	1517	1341
	Input	869	758	691	623	601	630
20/-ºC DB/WB	TC	3185	2900	2566	1561	1404	1371
	Input	892	785	708	623	590	620
22/-ºC DB/WB	TC	2961	2821	2448	1326	1418	1324
	Input	825	779	709	621	594	650

CAPACITY TABLE

Trend of total & sensible Heat Capacity / Indoor & Outdoor Air Temperature

Product models: QHC012ES

Specification of product at standard condition.

Standard Condition

Indoor	27ºCDB/19ºCWB
Outdoor	35ºCDB/24ºCWB

Total Cooling Capacity(TC)	3500 W
Sensible Heat Capacity(SHC)	2587 W

Cooling	Outdoor conditions (DB)						
Indoor Conditions	(W)	25ºC	30ºC	35ºC	40ºC	45ºC	50ºC
21/15ºC DB/WB	TC	3285	3123	2905	2669	2450	2285
	SC	2390	2318	2217	2104	1996	1910
	Input	937	1017	1097	1177	1257	1337
24/17ºC DB/WB	TC	3521	3363	3174	2971	2777	2610
	SC	2535	2461	2372	2286	2219	2189
	Input	938	1025	1111	1198	1285	1372
27/19ºC DB/WB	TC	3768	3698	3500	3227	2937	2684
	SC	2748	2689	2587	2463	2337	2230
	Input	956	1045	1130	1224	1313	1402
32/23ºC DB/WB	TC	3838	3900	3845	3712	3539	3364
	SC	2603	2635	2613	2570	2538	2550
	Input	947	1051	1156	1260	1365	1470

Standard Condition

Indoor	20ºCDB/ -ºCWB
Outdoor	7ºCDB/ 6ºCWB

Total Cooling Capacity(TC)	3900 W

Heating	Outdoor conditions (DB)						
Indoor Conditions	(W)	12ºC	7ºC	4ºC	0ºC	-4ºC	-7ºC
15/-ºC DB/WB	TC	4573	4069	3598	2326	1944	1874
	Input	1208	1078	966	833	774	816
18/-ºC DB/WB	TC	4306	3861	3481	2211	2041	1803
	Input	1236	1078	983	886	856	897
20/-ºC DB/WB	TC	4283	3900	3451	2100	1888	1843
	Input	1270	1110	1008	886	839	883
22/-ºC DB/WB	TC	3982	3793	3292	1783	1907	1780
	Input	1174	1108	1009	884	845	925

CAPACITY TABLE

Trend of total & sensible Heat Capacity / Indoor & Outdoor Air Temperature

Product models: QHC018ES

Specification of product at standard condition.

Standard Condition

Indoor	27ºCDB/19ºCWB
Outdoor	35ºCDB/24ºCWB

Total Cooling Capacity(TC)	5200 W
Sensible Heat Capacity(SHC)	3844W

Cooling	Outdoor conditions (DB)						
Indoor Conditions	(W)	25ºC	30ºC	35ºC	40ºC	45ºC	50ºC
21/15ºC DB/WB	TC	4880	4640	4317	3965	3640	3396
	SC	3551	3444	3293	3125	2965	2838
	Input	1347	1462	1577	1693	1808	1923
24/17ºC DB/WB	TC	5231	4997	4715	4415	4125	3877
	SC	3767	3656	3524	3396	3297	3253
	Input	1348	1473	1598	1723	1848	1973
27/19ºC DB/WB	TC	5598	5494	5200	4794	4363	3987
	SC	4082	3995	3844	3659	3472	3313
	Input	1375	1503	1625	1760	1888	2016
32/23ºC DB/WB	TC	5703	5794	5712	5515	5257	4997
	SC	3868	3915	3882	3818	3770	3789
	Input	1361	1512	1662	1813	1963	2114

Standard Condition

Indoor	20ºCDB/ -ºCWB
Outdoor	7ºCDB/ 6ºCWB

Total Cooling Capacity(TC)	5500 W

Heating	Outdoor conditions (DB)						
Indoor Conditions	(W)	12ºC	7ºC	4ºC	0ºC	-4ºC	-7ºC
15/-ºC DB/WB	TC	6448	5738	5073	3280	2742	2642
	Input	1871	1671	1497	1290	1199	1265
18/-ºC DB/WB	TC	6073	5445	4909	3118	2878	2543
	Input	1916	1670	1523	1374	1326	1390
20/-ºC DB/WB	TC	6040	5500	4866	2961	2663	2600
	Input	1967	1720	1561	1374	1300	1368
22/-ºC DB/WB	TC	5616	5350	4643	2514	2689	2510
	Input	1819	1717	1564	1370	1309	1433

CAPACITY TABLE

Trend of total & sensible Heat Capacity / Indoor & Outdoor Air Temperature

Product models: QHC024ES

Specification of product at standard condition.

Standard Condition

Indoor	27ºCDB/19ºCWB
Outdoor	35ºCDB/24ºCWB

Total Cooling Capacity(TC)	6400 W
Sensible Heat Capacity(SHC)	4731 W

Cooling	Outdoor conditions (DB)						
Indoor Conditions	(W)	25ºC	30ºC	35ºC	40ºC	45ºC	50ºC
21/15ºC DB/WB	TC	6006	5711	5313	4880	4480	4179
	SC	4370	4238	4053	3847	3649	3493
	Input	1707	1853	2000	2146	2292	2438
24/17ºC DB/WB	TC	6438	6150	5803	5433	5077	4772
	SC	4636	4500	4338	4180	4058	4003
	Input	1709	1868	2026	2185	2343	2502
27/19ºC DB/WB	TC	6890	6761	6400	5900	5370	4907
	SC	5024	4917	4731	4504	4273	4077
	Input	1743	1906	2060	2231	2393	2556
32/23ºC DB/WB	TC	7019	7131	7031	6787	6471	6150
	SC	4760	4819	4778	4699	4640	4663
	Input	1726	1916	2107	2298	2489	2679

Standard Condition

Indoor	20ºCDB/ -ºCWB
Outdoor	7ºCDB/ 6ºCWB

Total Cooling Capacity(TC)	7000 W

Heating	Outdoor conditions (DB)						
Indoor Conditions	(W)	12ºC	7ºC	4ºC	0ºC	-4ºC	-7ºC
15/-ºC DB/WB	TC	8207	7302	6457	4175	3490	3363
	Input	2307	2059	1846	1590	1478	1559
18/-ºC DB/WB	TC	7729	6930	6248	3968	3663	3236
	Input	2361	2059	1877	1693	1635	1713
20/-ºC DB/WB	TC	7688	7000	6194	3769	3389	3309
	Input	2425	2120	1924	1693	1603	1686
22/-ºC DB/WB	TC	7147	6809	5909	3200	3422	3195
	Input	2243	2117	1928	1688	1614	1767

PHYSICAL DATA FOR 15C_DS MODELS

UNIT SIZE/SERIES		QHC009DS	QHC012DS	QHC018DS	QHC024DS
OPERATING WT(kg)	IDU	8.0	9.0	11.5	13.5
	ODU	23.0	26.5	38.0	44.0
SHIPPING WT (kg)	IDU	10.5	12.0	16.5	18.5
	ODU	25.0	28.5	40.5	47.3
COMPRESSOR		Rotary			
REFRIGERANT	Type	R410A			
	Control	Capillary			
	Charge (kg)	0.67	0.68	1.65	2.00
FAN	IDU	Cross Type,Direct Drive			
	ODU	Propeller Type, Direct Drive			
MOTOR DRIVE	IDU	DC			
	ODU				

PHYSICAL DATA FOR 15C_ES MODELS

UNIT SIZE/SERIES		QHC009ES	QHC012ES	QHC018ES	QHC024ES
OPERATING WT(kg)	IDU	8.0	9.0	11.5	13.5
	ODU	26.5	28.5	38.0	44.0
SHIPPING WT (kg)	IDU	10.5	12.0	16.5	18.5
	ODU	28.5	31.0	40.5	47.5
COMPRESSOR		Rotary			
REFRIGERANT	Type	R410A			
	Control	Electronic Expansion Valve			
	Charge (kg)	0.72	0.75	1.70	2.00
FAN	IDU	Cross Type,Direct Drive			
	ODU	Propeller Type, Direct Drive			
MOTOR DRIVE	IDU	DC			
	ODU				

ELECTRICAL DATA

MODEL	V/PH	OPERATING VOLTS*		COMPRESSOR		INDOOR FAN MOTOR		OUTDOOR FAN MOTOR		MRC	MAX FUSE** OR CKT BKR AMPS
		Max.	Min.	MODEL	RLA	MODEL	FLA	MODEL	FLA		
QHC009	220-240 / 1	254	207	ASK89D53UEZ	4.90	ZKFP-20-8-6	0.22	ZKFN-40-8-1L	0.51	10.0	16
QHC012				ASN98D22UFZ	5.35	ZKFP-20-8-6	0.22	ZKFN-40-8-1L	0.51	10.0	16
QHC018				ASM135D23UFZ	7.32	ZKFP-30-8-3	0.27	ZKFN-40-8-1L	0.51	12.5	20
QHC024				ATM150D23UFZ	8.10	ZKFP-58-8-1	0.34	ZKFN-50-8-2	0.55	18.0	30

*Permissible limits of the voltage range at which the unit will operate satisfactorily.

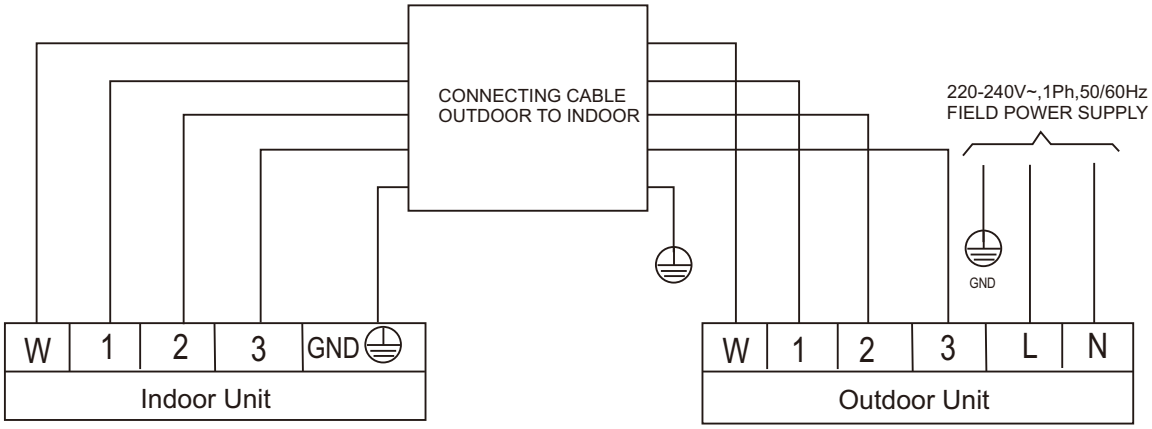
**Time---Delay fuse.

FLA ---Full Load Amps

MRC ---Maximum Running Current

RLA ---Rated Load Amps

CONNECTION DIAGRAMS



IDU TERMINAL BLOCK

ODU TERMINAL BLOCK

Notes:

1. Do not use thermostat wire for any connection between indoor and outdoor units.
2. All connections between indoor and outdoor units must be as shown. The connections are sensitive to polarity and will result in a fault code.

UNITS INSTALLATION

Safety Precautions

- Installing, starting up, and servicing air-conditioning equipment can be hazardous due to system pressures, electrical components, and equipment location (roofs, elevated structures, etc.).
- Only trained, qualified installers and service mechanics should install, start-up, and serve this equipment.
- When working on the equipment, observe precautions in the literature and on tags, stickers, and labels attached to the equipment.
- Follow all safety codes. Wear safety glasses and work gloves. Keep quenching cloth and fire extinguisher nearby when brazing. Use care in handling, rigging, and setting bulky equipment.
- Read these instructions thoroughly and follow all warnings or cautions included in literature and attached to the unit. Consult local building codes and National Electrical Code for special requirements.

Ideal Installation Locations Include:

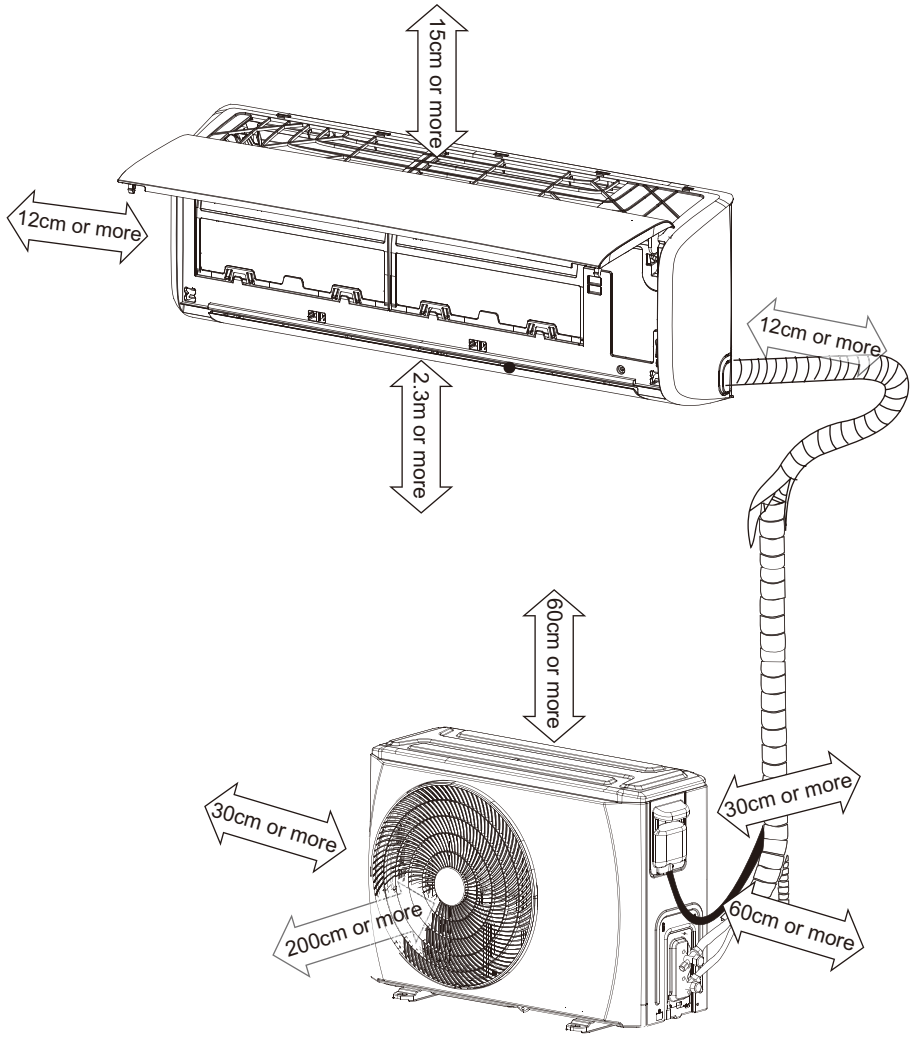
Indoor Unit

- A location which can bear the weight of indoor unit.
- Do not install indoor units near a direct source of heat such as direct sunlight or a heating appliance.
- A location which provides appropriate clearances as below figure.
- Moving parts of appliance must be installed/located at the level not less than 2.3m from the floor.

Outdoor Unit

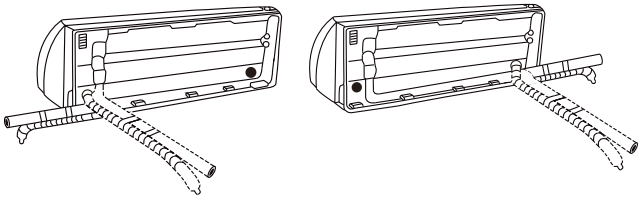
- A location which is convenient to installation and not exposed to strong wind. If unit is exposed to strong winds it is recommended that a wind baffle be used.
- A location which can bear the weight of outdoor unit and where the outdoor unit can be mounted in a level position.
- A location which provides appropriate clearances as below figure.

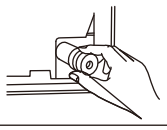
Do not install the indoor or outdoor units in a location with special environmental conditions.



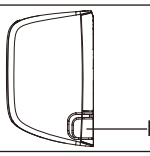
Note: Ensure the spaces indicated by arrows from the wall, ceiling, fence or other obstacles.

Piping is possible in the rear, left, left rear and right direction.





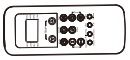
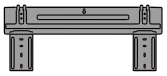
Plug the unused drain hole with the rubber plug provided.



Cut the knock-out panel according to the piping size.

knock-out panel

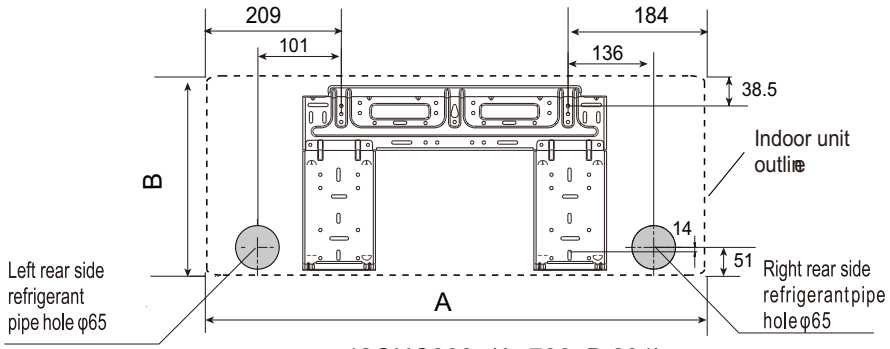
Accessories

Name of Accessories	Q?ty(pc)	Shape	Name of Accessories	Q?ty(pc)	Shape
Manual	3		Remote controller	1	
Drain outlet	1		Battery	2	
Gasket	1		Remote controller holder	1	
Installation plate	1		Screw B	2	
Anchor	5				
Screw A	5				

QHC

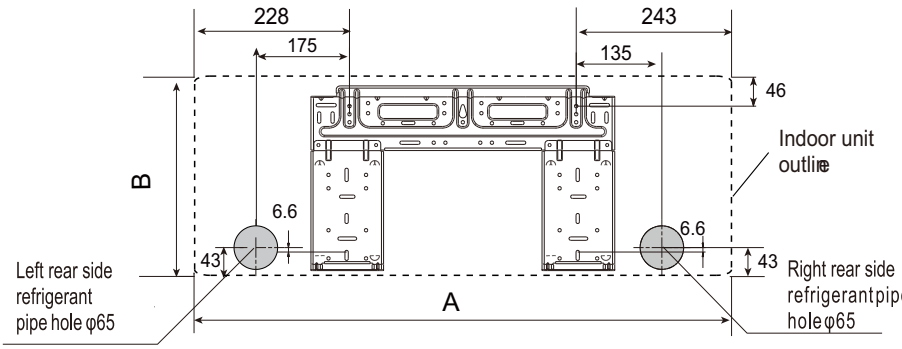
Indoor Unit Mounting Dimensions

The holes for fixing anchors should be 5mm.



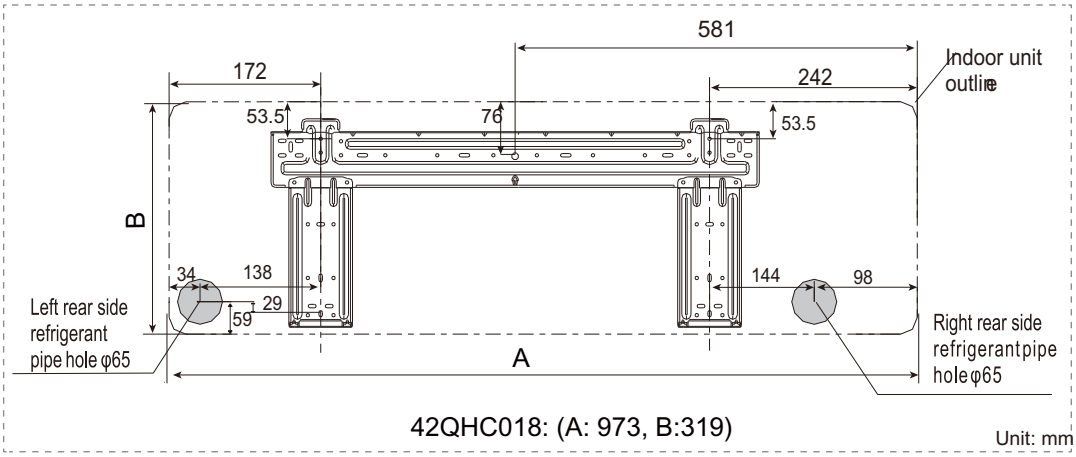
42QHC009: (A: 730, B:291)

Unit: mm



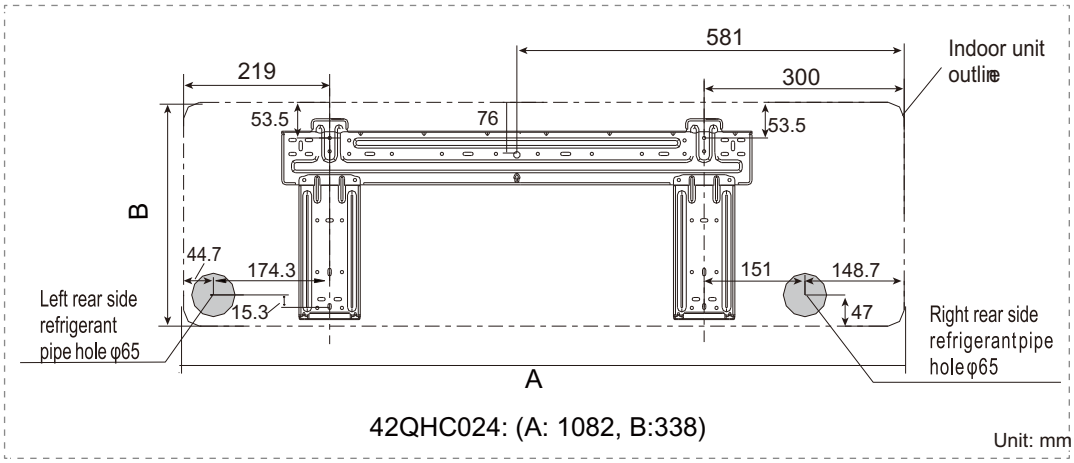
42QHC012: (A: 812, B:300)

Unit: mm



42QHC018: (A: 973, B:319)

Unit: mm

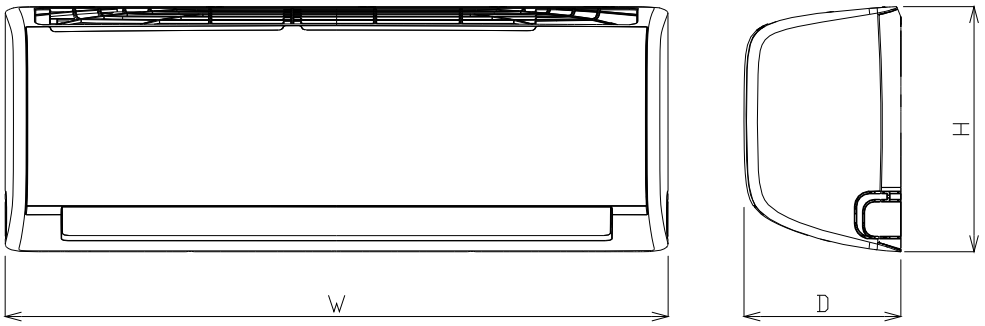


42QHC024: (A: 1082, B:338)

Unit: mm

QHC

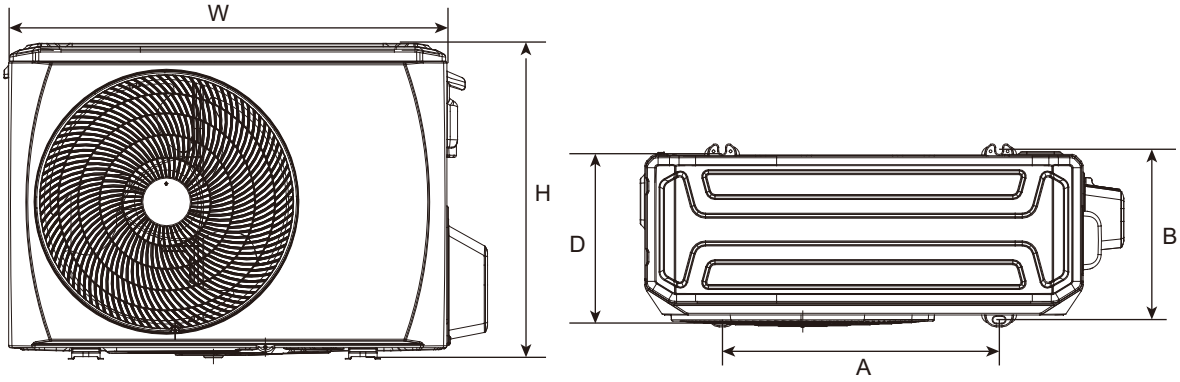
IDU Dimension



Model	W	D	H
42QHC009	730	192	291
42QHC012	812	192	300
42QHC018	973	218	319
42QHC024	1082	225	338

Outdoor Unit Mounting Dimensions

The mounting dimensions vary among different outdoor units.
The fixing bolt head diameter should be more than 10mm.



Outdoor Unit Dimentsion (mm)				Mounting Dimentsion (mm)	
Outdoor Unit	W	H	D	A	B
38QHC009DS*	700	550	275	450	260
38QHC012DS*/38QHC009ES*	770	555	300	487	298
38QHC018DS* 38QHC012ES*/38QHC018ES*	800	554	333	515	340
38QHC024DS*/38QHC024ES*	845	702	363	540	350

QHC

Piping Work

	Minimum length to reduce abnormal vibration & noise	Chargeless length	Additional charge per meter	
			Liquid side:φ6.35mm	Liquid side:φ9.52mm
R410A*	3m	5m	15g	30g

* Please use tools for R410A system .

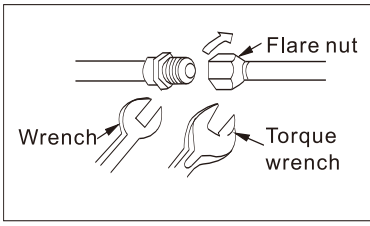
NOTE

- Extended pipe length will affect the capacity and energy efficiency of the unit.
- The nominal efficiency is tested based on the pipe length of 5 meter.
- When the pipe length is over 5m, the additional refrigerant should be added according to the pipe length.
- The max. pipe length is recommended as below.

Models	R410A Inverter	
	Max. pipe length(m)	Max. height difference(m)
QHC009/QHC012	25	10
QHC018	30	20
QHC024	40	20

* Please use tools for R410A system .

Align the Center to tighten the flare nut and finish connection using two wrenches.
Tightening torque for flaring connection is as below.



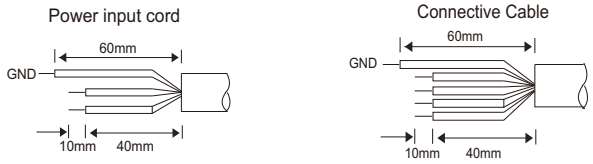
Outer diam.	Tightening torque(N.cm)	Additional tightening torque(N.cm)
φ6.35mm	1500 (153kgf.cm)	1600 (163kgf.cm)
φ9.52mm	2500 (255kgf.cm)	2600 (265kgf.cm)
φ12.7mm	3500 (357kgf.cm)	3600 (367kgf.cm)
φ15.88mm	4500 (459kgf.cm)	4700 (479kgf.cm)

Wiring Work

Model	Rated Current(A)	Fuse Rating(A)	Power input cord (with Min. Crosse section)	Connective Cable (with Min. Crosse section)
38QHC009/38QHC012	10.0	16	3*1.5mm^2	5*1.5mm^2
38QHC018	12.5	20	3*1.5mm^2	5*1.5mm^2
38QHC024	18.0	30	3*2.5mm^2	5*2.5mm^2

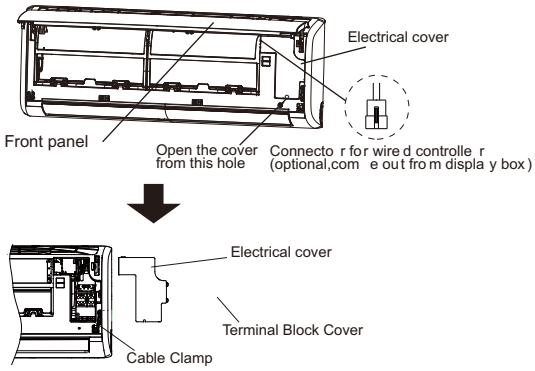
NOTICE:

1. All power wires must be sized in according with national,state and local electrical wiring code. Consult local building codes and National Electrical Code for special requirements.
2. The outdoor power cord and interconnecting cable type should be H07RN-F.
3. The rated current of appliance is indicated on the nameplate.



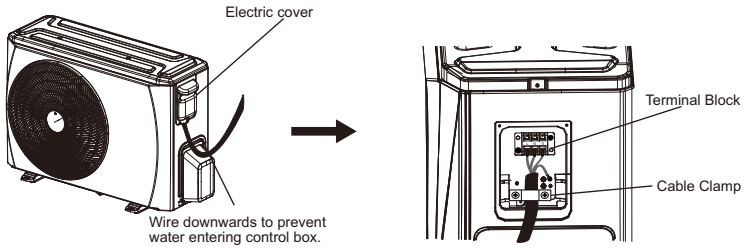
Indoor Wire Connection

1.Lift the indoor unit front panel.
2.Open the indoor unit electrical cover with a screwdriver through the hole, remove the terminal block cover by hand and remove the cable clamp by loosening the screws.
3.Pass the connecting wires from the back of indoor unit and connect to the indoor terminal block.

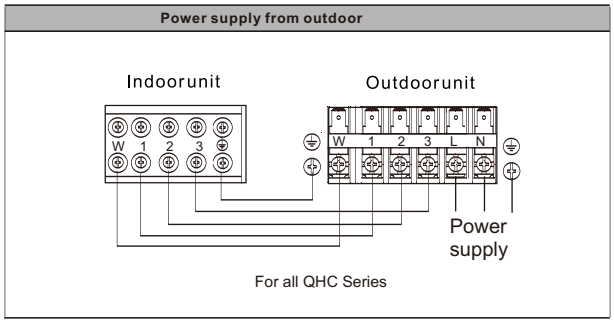


Outdoor Wire Connection

1. Remove the electrical cover and cord clamp by loosening the screws.
2. Connect wires to the outdoor terminal block by same sequence to indoor unit.

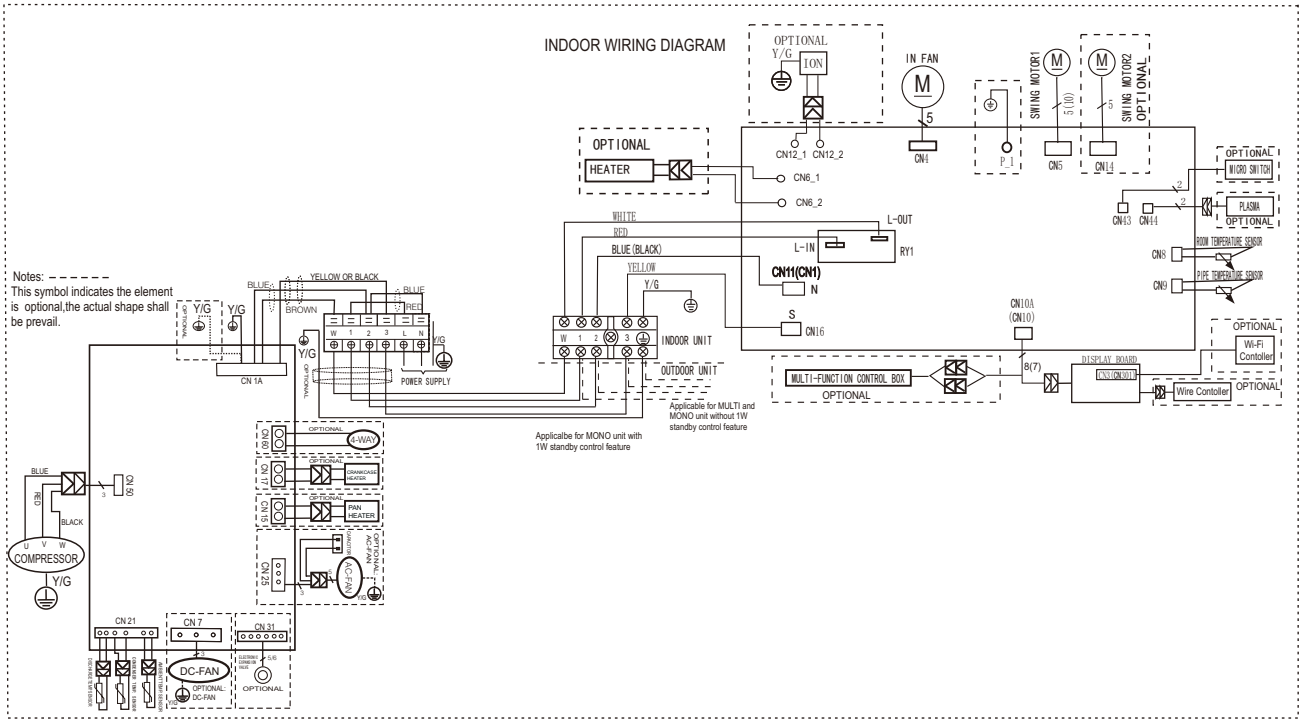


Connection Diagrams



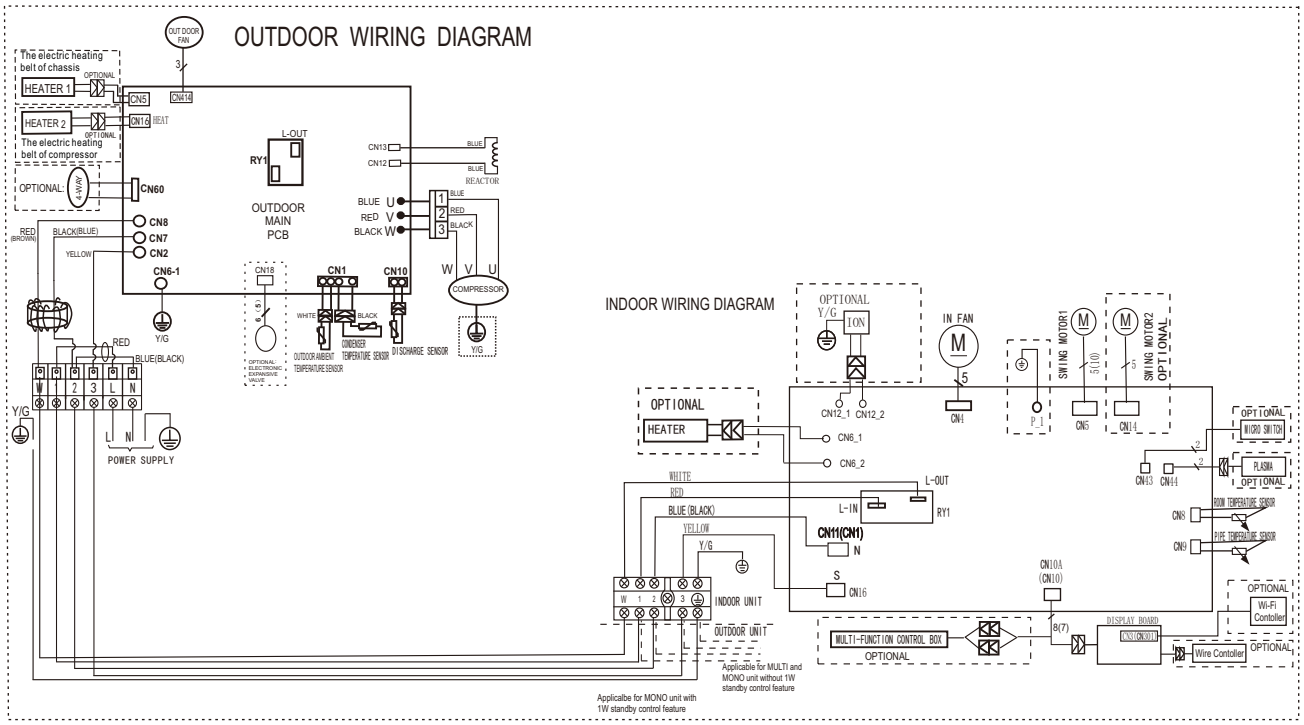
WIRING DIAGRAMS

Wiring diagram 42/38QHC009DS/ES & 42/38QHC012DS/ES



QHC

Wiring diagram 42/38QHC018DS/ES & 42/38QHC024DS/ES



TROUBLESHOOTING

For ease of service, the systems are equipped with diagnostic code display LEDs on both the indoor and outdoor units. The outdoor diagnostic display is two LEDs (Red and Green) on the outdoor unit board and is limited to very few errors. The indoor diagnostic display is a combination of flashing LEDs on the display panel or the front of the unit. If possible, always check the diagnostic codes displayed on the indoor unit first.

The diagnostic codes displayed in the indoor and outdoor units are listed in the tables below.

Operation lamp	Timer lamp	Display	LED STATUS
☆ 1 time	X	E0	Indoor unit EEPROM parameter error
☆ 2 times	X	E1	Indoor / outdoor units communication error
☆ 4 times	X	E3	Indoor fan speed has been out of control
☆ 5 times	X	E4	Indoor room temperature sensor T1 open circuit or short circuit
☆ 6 times	X	E5	Evaporator coil temperature sensor T2 open circuit or short circuit
☆ 7 times	X	EC	Refrigerant leakage detection
☆ 2 times	O	F1	Outdoor ambient temperature sensor T4 open circuit or short circuit
☆ 3 times	O	F2	Condenser coil temperature sensor T3 open circuit or short circuit
☆ 4 times	O	F3	Compressor discharge temperature sensor T5 open circuit or short circuit
☆ 5 times	O	F4	Outdoor unit EEPROM parameter error
☆ 6 times	O	F5	Outdoor fan speed has been out of control
☆ 1 times	☆	P0	IPM malfunction or IGBT over-strong current protection
☆ 2 times	☆	P1	Over voltage or over low voltage protection
☆ 3 times	☆	P2	High temperature protection of compressor top diagnosis and solution
☆ 5 times	☆	P4	Inverter compressor drive error

☆ = Flashing, X = Off O = Light
For additional diagnostic information, refer to the Service Manual