

# CARRIER RESIDENTIAL & LIGHT COMMERCIAL PRODUCTS

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*CREATE THE IDEAL CLIMATE FOR YOUR ENVIRONMENT*

# 2016





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create  
improve produce  
learn help educate  
live discover  
enjoy succeed  
grow love associate  
play

Acropolis Museum  
Megaron The Athens Concert Hall  
Onassis Cultural Centre  
Onassis Cardiac Surgery Center  
Costa Navarino Resort  
TID Tower Tirana  
FIAT Factory Serbia  
Telecom  
South Sofia Ring Mall  
Sofia Serbika Centre  
Lidl Chain Romania

With air quality



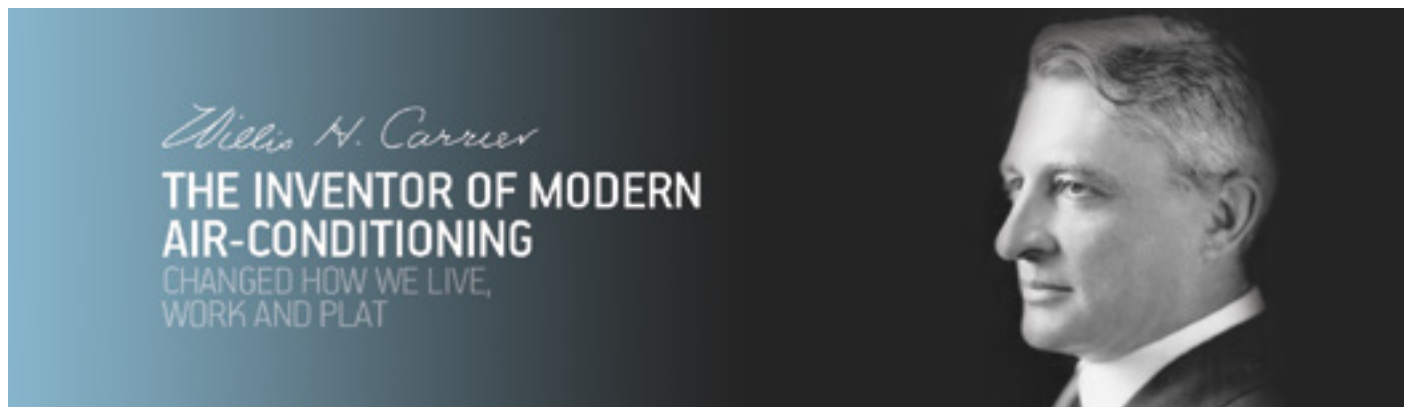
**Built on Willis Carrier's invention of modern air-conditioning in 1902, Carrier is the world leader in heating, air-conditioning and refrigeration solutions. Carrier constantly builds upon its history of proven innovation with new products and services that improve global comfort and efficiency.**

### **The Invention That Changed the World**

In 1902, Willis Carrier solved one of mankind's most elusive challenges by controlling the indoor environment through modern air-conditioning. His invention enabled countless industries, promoting global productivity, health and personal comfort.

Today, Carrier innovations are found across the globe and in virtually every facet of daily life. Carrier creates comfortable and productive environments, regardless of the climate, safeguards the global food supply by preserving the quality and freshness of food and beverages, ensures health and well-being by enabling the proper transport and delivery of vital medical supplies under exacting conditions and provides solutions, services and education to lead the green building movement.

These mark just a handful of the ways that Carrier works to make the world a better place to live, work and play.



# WEATHERMAKERS TO THE WORLD



# MEETING CUSTOMER NEEDS

Carrier is the world leader in high-technology heating, air-conditioning and refrigeration solutions. We have a history of more than 100 years of proven innovation. We solve problems on a global level, and our innovations drive new industries. It is why our products and services are trusted in every corner of the world – and why you can feel good about trusting us in your corner of it.



## HOME COMFORT

Carrier heating and air-conditioning systems are trusted to bring energy-efficient, quiet, consistent comfort to millions of people at home.



## BUILDING SOLUTIONS

Carrier provides sustainable solutions in heating, air-conditioning, building automation and energy services for the building life-cycle.



## TRANSPORT REFRIGERATION

Carrier transport refrigeration equipment, cold chain monitoring solutions and replacement components ensure the safe, reliable transport of food and beverages, medical supplies and other perishable cargo to people and businesses around the world.



## COMMERCIAL REFRIGERATION

Serving the beverage, food service and food retail industries, Carrier's refrigeration solutions are built on next-generation technologies to preserve freshness, ensure safety and enhance appearances of global food and beverage retail.

# NATURAL LEADERSHIP

From the very beginning, Carrier has been a natural leader. Not simply for the fact that Carrier creates an entirely new and innovative products, but because Carrier sets the standard in environmental responsibility. Since 1994, Carrier has led the industry in the phase-out of ozone-depleting refrigerants while introducing many of the world's most energy-efficient heating, air-conditioning and refrigeration systems.

Preservation of the environment and protecting our world's finite natural resources is a central tenet of Carrier's business as it recognizes the vital importance of maintaining a responsible balance between the comfort we create today and the world we live in tomorrow.



## COMMITMENT

Green products start at a green company. At Carrier, environmental stewardship is a core value that is reflected daily in its products, services and operations, and in the culture of the whole enterprise.

Carrier's comprehensive environment, health and safety program has been in effect for more than 20 years. That is why Carrier has been able to achieve milestones like reducing its greenhouse gas emissions by 35 percent and water usage by 27 percent on an absolute basis from 2006 to 2011. Never resting on its accomplishments, Carrier has three factories certified by the U.S. Green Building Council® under the LEED® rating system.

## LEADERSHIP

From the very beginning, Carrier has been a natural leader. With the invention of modern air-conditioning, Carrier set the standard for the industry it created.

Willis Carrier was a sustainability leader. Utilizing precise cooling processes, his invention enabled countless industries to avoid waste and preserve resources for future generations. Today, preservation of the environment and protecting the finite natural resources remains a central tenet of Carrier's business.





# INNOVATION

Carrier products turn energy into useful work. Carrier invests research and creates products that consume fewer resources and produce fewer emissions.

Carrier, nearly in every category, offers industry-leading, energy-efficient options for the customers. Carrier continues to invest in research and development, applying the newest technological innovations to create ever more sustainable solutions.

# IMPROVE

Through innovations in design and manufacturing, Carrier improves the production processes, the products and services and, ultimately, helps to improve the everyday life of people.

The word “improve” represents Carrier’s belief in continuous improvement of products and services in order to improve people’s lives with the minimum possible environmental impact.

# THE WORLD'S LARGEST PROVIDER OF BUILDING TECHNOLOGIES



Carrier is a unit of UTC Climate, Controls & Security, which is the world's largest provider of building technologies. Beginning with Willis Carrier's invention of modern air conditioning in 1902, the brands of UTC Climate, Controls & Security have developed innovative heating and cooling solutions that enable entire industries and improve global comfort, productivity and efficiency.

UTC Climate, Controls & Security is a unit of United Technologies Corp. a leading provider to the aerospace and building systems industries worldwide and a global provider of building technologies.

Its fire safety, security, building automation, heating, ventilating, air-conditioning and refrigeration systems and services promote integrated, high-performance buildings that are safer, smarter and sustainable.

UTC Climate, Controls & Security, is a company of ideas. It's legacy of innovation inspires us to redefine what's possible and solve the challenges that lie ahead.

# PRESTIGIOUS INSTALLATIONS



The White House, Washington DC



The Sistine Chapel, Italy



Munich International Airport, Germany



Teatro Real Madrid, Spain



British Museum London, UK



Kremlin Palace Moscow, Russia



The Great Library of Alexandria, Egypt



Sydney Opera House Sydney, Australia



Museo Bellas Artes, Argentina





This catalogue is dedicated to residential & light commercial products offered by Carrier. All products are following the European Eco Design Directive.

# Energy labeling for air-conditioners

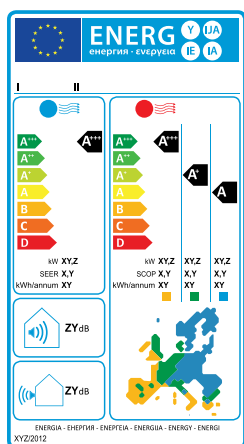
The objective of the European Eco Design Directive is the integration of environmental aspects into product design with the aim of improving the environmental performance of the product throughout its whole life cycle. Air-conditioners have been identified as Energy Related Products (ERPs) because they have an impact on energy consumption during use. Therefore a set of rules for energy efficiency measurements and specifications have been defined which will be integrated in the new energy efficiency label.

Carrier applies the calculation methods of the ecodesign directive and all its products will be in line with Lot10 and Lot11 requirements.

Under this labeling the energy efficiency of air-conditioning systems will be calculated based on seasonal performance.

For calculating Heating seasonal performance the EU is divided into three climate zones, this ensures the energy efficiency calculation applies the actual regional ambient temperatures.

- Warmer – annual temperature of Athens
- Average – annual temperature of Strasbourg
- Colder – annual temperature of Helsinki



ENERGY EFFICIENCY CLASS	SEER	SCOP
A+++	SEER ≥ 8,50	SCOP ≥ 5,10
A++	6,10 ≤ SEER < 8,50	4,60 ≤ SCOP < 5,10
A+	5,60 ≤ SEER < 6,10	4,00 ≤ SCOP < 4,60
A	5,10 ≤ SEER < 5,60	3,40 ≤ SCOP < 4,00
B	4,60 ≤ SEER < 5,10	3,10 ≤ SCOP < 3,40
C	4,10 ≤ SEER < 4,60	2,80 ≤ SCOP < 3,10
D	3,60 ≤ SEER < 4,10	2,50 ≤ SCOP < 2,80

WARMER (ATHENS)				AVERAGE (STRASBOURG)				COLDER (HELSINKI)			
Temperatures Conditions				Temperatures Conditions				Temperatures Conditions			
Partial Load	Outdoors		Indoors	Partial Load	Outdoors		Indoors	Partial Load	Outdoors		Indoors
	DB	WB	DB		DB	WB	DB		DB	WB	DB
-	-	-	20°C	88%	-2°C	-2°C	20°C	61%	-7°C	-8°C	20°C
100%	2°C	1°C	20°C	54%	2°C	1°C	20°C	37%	2°C	1°C	20°C
64%	7°C	6°C	20°C	35%	7°C	6°C	20°C	24%	7°C	6°C	20°C
29%	12°C	11°C	20°C	15%	12°C	11°C	20°C	11%	12°C	11°C	20°C

Climate zones for calculating Cooling (SEER), only ONE climate zone for calculating Cooling efficiencies. The climate data for Strasbourg is the single reference point for the whole of Europe.

SEER			
Temperatures Conditions			
Partial Load	Outdoors		Indoors
	DB	DB	WB
21%	20°C	27°C	19°C
47%	25°C	27°C	19°C
74%	30°C	27°C	19°C
100%	35°C	27°C	19°C



# GET COMFORTABLE WITH CARRIER HOME COMFORT SYSTEMS

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## HOME COMFORT SOLUTIONS

Carrier helps millions of people take control of home comfort with innovative solutions.

### QUIET CONSISTENCY AT HOME

Carrier home comfort solutions can provide consistent temperature, humidity and air quality from room to room, hour to hour and minute to minute.

### ENERGY-EFFICIENT HOME HEATING AND AIR CONDITIONING

Carrier heating and cooling products are among the world's most energy efficient and reliable products.

### EXPERT INSTALLATION & AFTER SALES SUPPORT

Proper installation is critical for keeping you comfortable. Our independent partners work with you before installation to custom design a solution that will meet the unique needs of your home. And beyond installation, you can count on Carrier experts for the after sales support.

### INDOOR AIR QUALITY

Clean air is a key component of a healthy home. That's why Carrier, as part of your home heating and cooling solution, offers a wide range of air quality solutions that they can help reduce or even eliminate many allergens and harmful air pollutants.

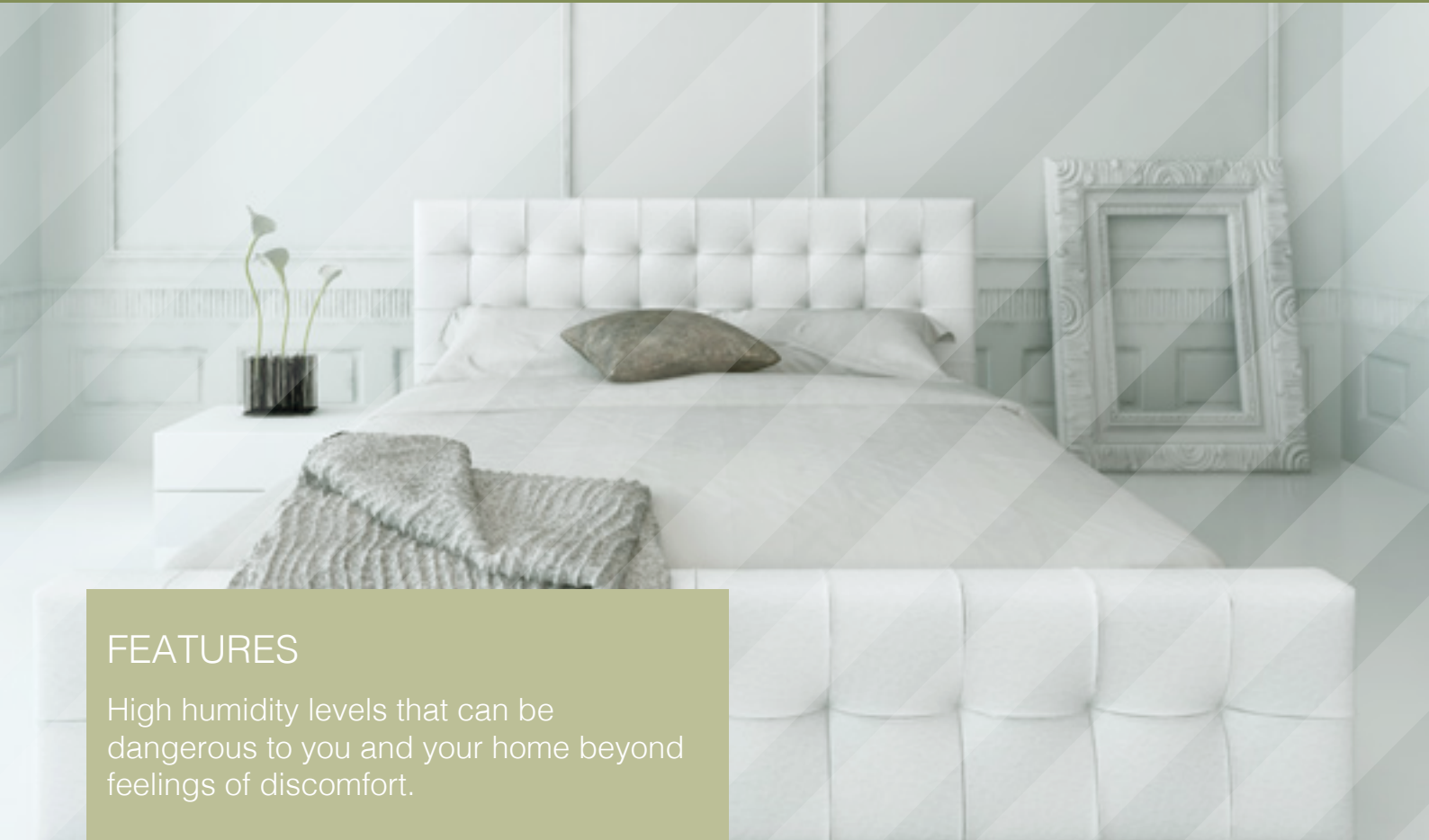




# HOME HEATING AND COOLING EXPERTISE

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SINGLE SPLIT SYSTEMS



## FEATURES

High humidity levels that can be dangerous to you and your home beyond feelings of discomfort.

- ✓ Cost-effective, energy-efficient and user-friendly
- ✓ Electronic control
- ✓ Dryer mode (for DG series): A smart and cost – effective way to dry your laundry
- ✓ Automatic switch off when the tank is full
- ✓ Auto restart with the previous operations settings in case of power failure
- ✓ Smart dehumidifying mode (for DG series)
- ✓ For easy carrying T3 series has ergonomical big handle and GD series has wheels
- ✓ LCD display (for DG series)

T3



DG



## TECHNICAL SPECIFICATIONS\*

MODEL		CDT-105E3	CDT-165E3	CDG-205E	CDG-255E	CDG-305E
Moisture removal	L/day	10	16	20	25	30
Power input	kW	0,22	0,41	0,263	0,324	0,605
Energy factor (EEV)	L/kWh	1,89	1,63	3,17	3,22	2,07
Application area	m <sup>2</sup>	80	120	150	190	230
Starting current	A	6,48	10,5	5,5	5,5	9,5
Control type		ELECTRONIC CONTROL	ELECTRONIC CONTROL	ELECTRONIC CONTROL	ELECTRONIC CONTROL	ELECTRONIC CONTROL
Refrigerant type		R134A	R134A	R134A	R134A	R410A
Design pressure	MPa	1,7/0,7	1,7/0,7	1,7/0,7	1,7/0,7	4,2/1,5
Water tank volume	L	1,4	3,5	4,7	4,7	4,7
Air flow	m <sup>3</sup> /h	120	130	210	220	220
Sound pressure level	dB(A)	43	45	47/43	50/45	50/45
Rh range manual	%	35 - 80	35 - 80	35 - 85	35 - 85	35 - 85
Ambient temp	°C	5 - 35	5 - 35	5 - 35	5 - 35	5 - 35
Dimension (WxDxH)	mm	335x280x435	386x320x495	400x254x562	400x254x562	400x254x562
Net weight	Kg	10,5	13,5	15,0	15,5	15,5
Power supply	V-Ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50	220/240-1-50

Note:  
WxDxH = Width x Depth x Height



## FEATURES

An alternative air-conditioning solution for houses and small offices with limited space availability.

- ✓ A single solution for cooling and heating
- ✓ Suitable for room sizes of approximate 13-29 m<sup>2</sup>
- ✓ Slim and fashionable design
- ✓ Comfortable regulation by remote control with follow me function
- ✓ Ideal air distribution by adjustable air outlet grid
- ✓ Castors and side-carry handles makes it easy to move
- ✓ Automatically recycle condensate within the unit, which increase the cooling efficiency
- ✓ Intelligent on-off technology enables the unit to automatically enter energy-saving mode when on standby mode
- ✓ No need for drain hose (cooling operation)



## TECHNICAL SPECIFICATIONS\*

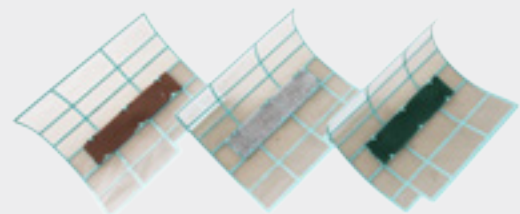
MODEL		PC-09HPPD	PC-12HPPD
<b>COOLING MODE</b>			
Capacity	kW	2,6	3,5
Power input	W	1010	1350
Current draw	A	4,4	5,9
EER	W/W	2,6	2,6
Energy efficiency class		A	A
<b>HEATING MODE</b>			
Capacity	kW	2,1	2,9
Power input	W	820	1130
Current draw	A	3,6	5,0
COP	W/W	2,5	2,6
Energy efficiency class		A	A+
<b>GENERAL DATA</b>			
Rated current	A	6,1	8,0
Starting current	A	17	21
Compressor type		ROTARY	ROTARY
Fan motor speed (H/M/L)	r/min	780/690/650	780/690/650
Air flow (H)	m <sup>3</sup> /h	370	370
Sound pressure level (H/M/L)	dB(A)	52/49/46	52/48/45
Power consumption (standby mode)	W	0,5	0,5
Refrigerant type		R410A	R410A
Operation temp (room temp.)	°C	17-35/5-30	17-35/5-30
Application area	m <sup>2</sup>	13-22	18-29
Dimension (WxDxH)	mm	467x397x765	467x397x765
Net weight	kg	30,5	34,0
Power supply	V-Ph-Hz	220/240-1-50	220/240-1-50

Note:  
H/M/L = High/Medium/Low speed  
WxDxH = Width x Depth x Height

## FEATURES

High performance with maximum savings.

- ✓ High energy efficient inverter technology for energy saving and comfort
- ✓ Low ambient operation -20 °C up to 46 °C
- ✓ High heating capacity and air outlet temperature in very low temperatures
- ✓ Follow me function in order the indoor unit to sense the required temperature from where the remote control is
- ✓ Auto restart function
- ✓ Turbo mode in order to reach the desired temperature quickly
- ✓ Wi-Fi ready for easy remote control of the unit via internet
- ✓ Ionizer, provides pure air and create a fresh and healthy environment
- ✓ Cold catalyst filter, eliminates formaldehyde and other volatile organic compounds
- ✓ HEPA filter, stands for High Efficiency Particulate Air
- ✓ Electronic Expansion Valve (EEV) ensure high performance in both cooling and heating operation
- ✓ "Pre-Heat" Smart Function



AUTO RESTART

\* Tentative for Eurovent Certification

## TECHNICAL SPECIFICATIONS\*

MODEL IDU		42QHM009ES	42QHM012ES	42QHM018ES	42QHM024ES
MODEL CDU		38QHM009ES	38QHM012ES	38QHM018ES	38QHM024ES
Nominal		9.000	12.000	18.000	24.000
<b>COOLING MODE</b>					
Cooling capacity	kW	2.6 (1.0-3.5)	3.5 (1.0-4.6)	5.2 (1.2-6.5)	7.0 (1.5-7.6)
EER	W/W	4,5	3,9	3,8	3,7
SEER	W/W	8,5	8,5	7,6	7,2
Energy Class		A+++	A+++	A++	A++
Standard current (cooling)	A	2,6	4,0	6,2	8,6
<b>HEATING MODE</b>					
Heating capacity	kW	3.9 (0.9-5.4)	3.9 (0.9-5.4)	5.6 (1.2-7.0)	7.6 (1.5-8.8)
Heating capacity at -7°C	kW	3,8	3,8	4,5	6,1
Heating capacity at -10°C	kW	3,5	3,5	4,2	5,2
Heating capacity at -15°C	kW	3,2	3,2	4,0	4,8
COP	W/W	4,1	4,1	3,8	3,5
SCOP (average)	W/W	4,6	4,6	4,4	4,4
Energy Class (average)		A++	A++	A+	A+
SCOP (warmer)	W/W	6	6	5,6	5,2
Energy Class (warmer)		A+++	A+++	A+++	A+++
SCOP (colder)	W/W	4	4	3,6	3,6
Energy Class (colder)		A+	A+	A	A
Standard current (heating)	A	4,2	4,2	6,6	9,9
<b>INDOOR UNIT</b>					
Sound power level	dB(A)	59	59	60	63
Sound pressure level (high/med/low/silence)	dB(A)	41/38/31/21	42/39/32/22	48/43/40/28	49/47/42/30
Air flow (high/med/low/silence)	m <sup>3</sup> /h	580/460/340/200	610/500/370/220	1050/900/700/500	1130/1030/825/625
Weight (Net/Gross)	kg	12.5 / 15.5	12.5 / 15.5	18 / 23	18 / 23
Dimensions (WxDxH)	mm	990x218x315	990x218x315	1186x258x343	1186x258x343
Indoor fan motor Input	W	60	60	75	75
Indoor fan motor max current	A	0,7	0,7	0,9	0,9
<b>OUTDOOR UNIT</b>					
Sound power level	dB(A)	60	63	66	69
Sound pressure level	dB(A)	54	57	59	60
Airflow	m <sup>3</sup> /h	2000	2100	2700	3500
Weight (Net/Gross)	kg	40.0 / 42.5	40.0 / 42.5	41 / 45	62 / 67
Dimensions (WxDxH)	mm	800x333x554	800x333x554	845x363x702	946x420x810
Temp range cooling	°C	-20~46	-20~46	-20~46	-20~46
Temp range heating	°C	-20~24	-20~24	-20~24	-20~24
Refrigerant amount	kg	1,5	1,5	2,1	2,6
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
Power Supply		220-240V~, 50/60Hz	220-240V~, 50/60Hz	220-240V~, 50/60Hz	220-240V~, 50/60Hz

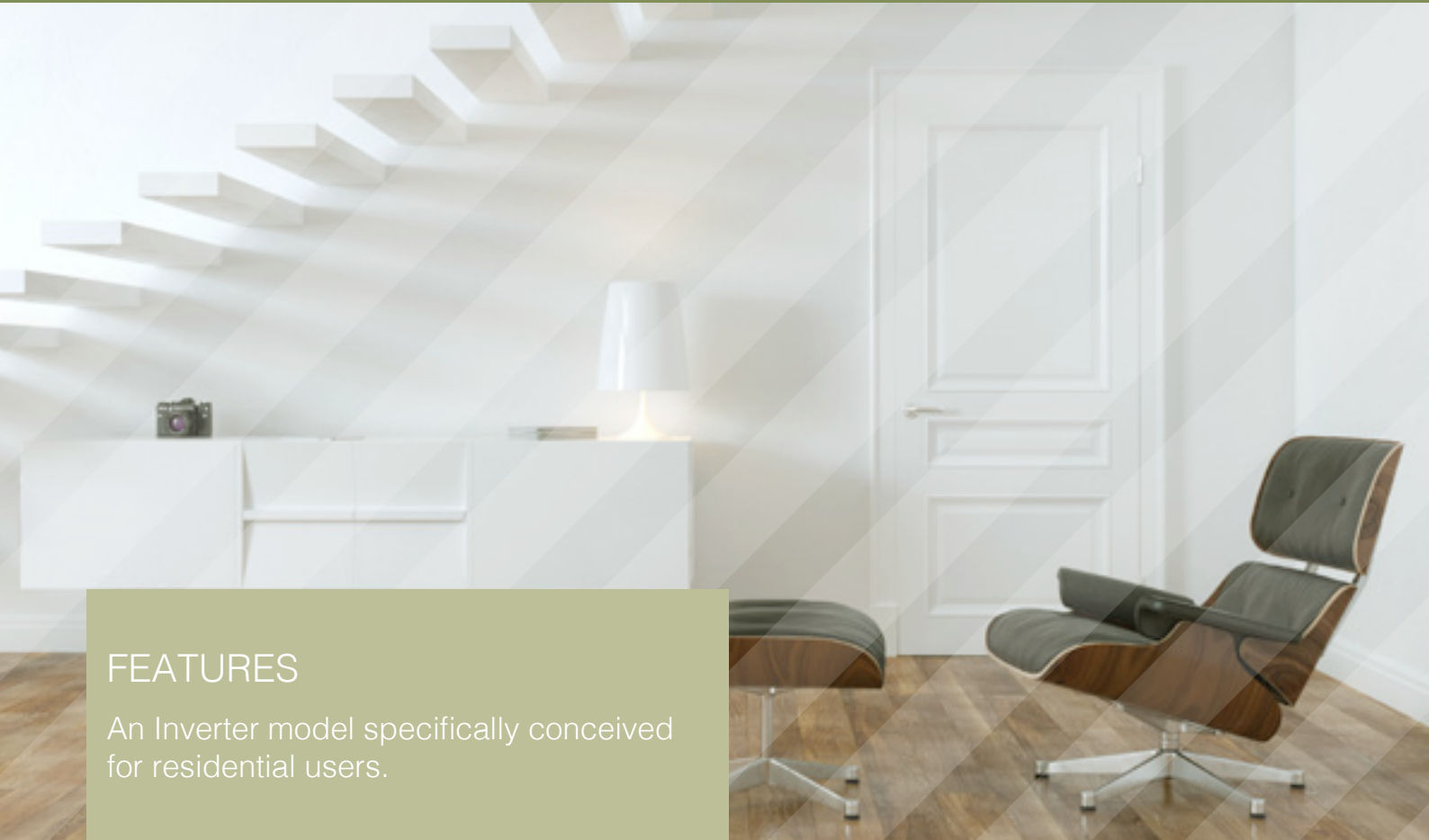
Note:

\*Sound data @ cooling mode

\*-7°C/-10°C/-15°C heating @ free frequency

\*Preliminary data

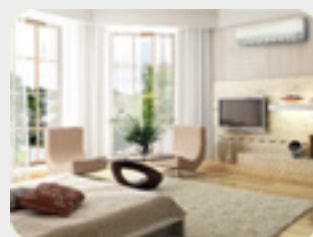




## FEATURES

An Inverter model specifically conceived for residential users.

- ✓ X-Eco mode, for silent operation with energy saving, up to 60% power consumption saving during the night
- ✓ Turbo mode, up to 15% more air flow than high speed
- ✓ Follow me function in order the indoor unit to sense the required temperature from where the remote control is
- ✓ Dual rotary compressor
- ✓ Wi-Fi ready for easy remote control of the unit via internet
- ✓ Ionizer, provides pure air and create a fresh and healthy environment
- ✓ Cold catalyst filter, eliminates formaldehyde and other volatile organic compounds
- ✓ HEPA filter, stands for High Efficiency Particulate Air
- ✓ Electronic Expansion Valve (EEV) ensure high performance in both cooling and heating operation
- ✓ Self Diagnosis function
- ✓ Integrated evaporator



\* Tentative for Eurovent Certification



## TECHNICAL SPECIFICATIONS\*

MODEL IDU		42QHC009ES	42QHC012ES	42QHC018ES	42QHC024ES
MODEL CDU		38QHC009ES	38QHC012ES	38QHC018ES	38QHC024ES
Nominal		9.000	12.000	18.000	24.000
<b>COOLING MODE</b>					
Cooling 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)
EER	W/W	3.3	3.1	3.2	3.1
SEER	W/W	7.5	7.0	7.1	7.0
Energy Class		A++	A++	A++	A++
Standard current (cooling)	A	3,7	5,0	7,3	9,3
<b>HEATING MODE</b>					
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°C	kW	2,7	3,2	4,1	4,5
Heating capacity at -10°C	kW	2,5	3,1	3,9	4,4
Heating capacity at -15°C	kW	2,2	2,7	3,7	4,2
COP	W/W	3.7	3.5	3.2	3.3
SCOP (average)	W/W	4.0	4.0	4.0	4.0
Energy Class (average)		A+	A+	A+	A+
SCOP (warmer)	W/W	5.4	5.2	5.2	4.8
Energy Class (warmer)		A+++	A+++	A+++	A++
Standard current (heating)	A	3,5	4,9	7,6	9,7
<b>INDOOR UNIT</b>					
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)	m³/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
Indoor fan motor Input	W	22	22	36	60
Indoor fan motor max current	A	0,5	0,5	0,5	0,7
<b>OUTDOOR UNIT</b>					
Sound power level	dB(A)	62	63	63	68
Sound pressure level	dB(A)	54	55	55	58
Airflow	m³/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
Temp range cooling	°C	-15~46	-15~46	-15~46	-15~46
Temp range heating	°C	-15~24	-15~24	-15~24	-15~24
Refrigerant amount	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
Power Supply		220-240V~, 50/60Hz	220-240V~, 50/60Hz	220-240V~, 50/60Hz	220-240V~, 50/60Hz

Note:

\*Sound data @ cooling mode

\*-7°C/-10°C/-15°C heating @ free frequency

\*Preliminary data



## FEATURES

Brings gentle air with minimum energy consumption!

- ✓ Curved design
- ✓ X-Eco mode, for silent operation with energy saving, up to 60% power consumption saving during the night
- ✓ Turbo mode, up to 15% more air flow than high speed
- ✓ Highly improved inverter module
- ✓ Follow me function in order the indoor unit to sense the required temperature from where the remote control is
- ✓ Dual rotary compressor
- ✓ Wi-Fi ready for easy remote control of the unit via internet
- ✓ Ionizer, provides pure air and create a fresh and healthy environment
- ✓ Cold catalyst filter, eliminates formaldehyde and other volatile organic compounds
- ✓ HEPA Filter, stands for High Efficiency Particulate Air
- ✓ Self cleaning auto function
- ✓ "Defrost" Smart Function



\* Tentative for Eurovent Certification

## TECHNICAL SPECIFICATIONS\*

MODEL IDU		42QHC009DS	42QHC012DS	42QHC018DS	42QHC024DS
MODEL CDU		38QHC009DS	38QHC012DS	38QHC018DS	38QHC024DS
Nominal		9.000	12.000	18.000	24.000
<b>COOLING MODE</b>					
Cooling 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)
EER	W/W	3.3	2.8	3.2	3.1
SEER	W/W	7.2	6.7	7.0	6.2
Energy Class		A++	A++	A++	A++
<b>HEATING MODE</b>					
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°C	kW	2,6	2,9	3,9	4,3
Heating capacity at -10°C	kW	2,3	2,8	3,7	4,2
Heating capacity at -15°C	kW	2,1	2,5	3,5	4,1
COP	W/W	3.7	3.4	3.2	3.3
SCOP (average)	W/W	4.0	4.0	4.0	4.0
Energy Class (average)		A+	A+	A+	A+
SCOP (warmer)	W/W	5.2	5.1	5.1	4.6
Energy Class (warmer)		A+++	A+++	A+++	A++
Standard current (heating)	A	3,5	4,9	7,6	9,7
<b>INDOOR UNIT</b>					
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)	m³/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
Indoor fan motor Input	W	22	22	36	60
Indoor fan motor max current	A	0,5	0,5	0,5	0,7
<b>OUTDOOR UNIT</b>					
Sound power level	dB(A)	61	62	63	68
Sound pressure level	dB(A)	54	54	55	58
Airflow	m³/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
Temp range cooling	°C	-15~46	-15~46	-15~46	-15~46
Temp range heating	°C	-15~24	-15~24	-15~24	-15~24
Refrigerant amount	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
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
Power Supply		220-240V~, 50/60Hz	220-240V~, 50/60Hz	220-240V~, 50/60Hz	220-240V~, 50/60Hz

Note:

\*Sound data @ cooling mode

\*-7°C/-10°C/-15°C heating @ free frequency

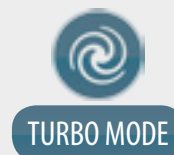
\*Preliminary data



## FEATURES

Immediate comfort and pure environment in all seasons, with low energy consumption.

- ✓ X-Eco mode, for silent operation with energy saving, up to 60% power consumption saving during the night
- ✓ Wide operation range -15°C up to 46°C
- ✓ Turbo mode, up to 15% more air flow than high speed
- ✓ Highly improved inverter module
- ✓ Follow me function in order the indoor unit to sense the required temperature from where the remote control is
- ✓ New generation outdoor unit
- ✓ Cold catalyst filter, eliminates formaldehyde and other volatile organic compounds
- ✓ HEPA filter, stands for High Efficiency Particulate Air
- ✓ High Efficient & Extra Quiet Condenser Fan
- ✓ High Efficiency Heat Exchanger
- ✓ "Defrost" Smart Function



\* Tentative for Eurovent Certification

## TECHNICAL SPECIFICATIONS\*

MODEL IDU		42QHC009DSA	42QHC012DSA	42QHC018DSA	42QHC024DSA
MODEL CDU		38QHC009DS	38QHC012DS	38QHC018DS	38QHC024DS
Nominal		9.000	12.000	18.000	24.000
<b>COOLING MODE</b>					
Cooling 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)
EER	W/W	3.3	2.8	3.2	3.1
SEER	W/W	7.2	6.7	7.0	6.2
Energy Class		A++	A++	A++	A++
<b>HEATING MODE</b>					
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°C	kW	2,6	2,9	3,9	4,3
Heating capacity at -10°C	kW	2,3	2,8	3,7	4,2
Heating capacity at -15°C	kW	2,1	2,5	3,5	4,1
COP	W/W	3.7	3.4	3.2	3.3
SCOP (average)	W/W	4.0	4.0	4.0	4.0
Energy Class (average)		A+	A+	A+	A+
SCOP (warmer)	W/W	5.2	5.1	5.1	4.6
Energy Class (warmer)		A+++	A+++	A+++	A++
Standard current (heating)	A	3,5	4,9	7,6	9,7
<b>INDOOR UNIT</b>					
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)	m³/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
Indoor fan motor Input	W	22	22	36	60
Indoor fan motor max current	A	0,5	0,5	0,5	0,7
<b>OUTDOOR UNIT</b>					
Sound power level	dB(A)	61	62	63	68
Sound pressure level	dB(A)	54	54	55	58
Airflow	m³/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
Temp range cooling	°C	-15~46	-15~46	-15~46	-15~46
Temp range heating	°C	-15~24	-15~24	-15~24	-15~24
Refrigerant amount	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
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
Power Supply		220-240V~, 50/60Hz	220-240V~, 50/60Hz	220-240V~, 50/60Hz	220-240V~, 50/60Hz

Note:  
 \*Sound data @ cooling mode  
 \*-7°C/-10°C/-15°C heating @ free frequency



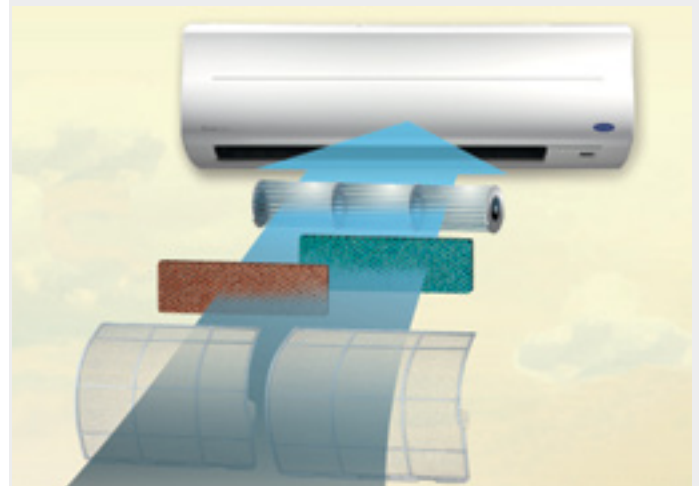
## FEATURES

Ultimate comfort.

- ✓ Higher energy saving, thanks to accurate digital power control and super-efficient compressor
- ✓ Customized comfort, by quickly achieving and maintaining your desired room temperature
- ✓ Superior reliability and quieter operation due to the advanced DC Inverter compressor
- ✓ Eco mode for silent and mild operation with energy savings up to 20% compared to standard settings
- ✓ Daily timer to set the exact time when you want your air-conditioner to start and stop operating
- ✓ Eco sleep timer for an automatic stop operation and fan control for 1, 3, 5 or 9 hours
- ✓ Smart auto – diagnosis system, indicates any problem and enables fast and effective repair



XPOWER GOLD



## TECHNICAL SPECIFICATIONS\*

MODEL IDU		42EQV025M	42EQV035M	42EQV050M	42EQV060M
MODEL CDU		38EYV025M	38EYV035M	38EYV050M	38EYV060M
Nominal	BTU	10.000	13.000	18.000	22.000
<b>COOLING MODE</b>					
Cooling Capacity	kW	2,50 (1,20-3,00)	3,50 (1,10-4,00)	5,00 (1,10-6,00)	6,00 (1,20-6,70)
Power consumption	kW	0,77	1,07	1,51	1,99
EER	W/W	3,25	3,27	3,31	3,02
SEER	W/W	5,10	6,10	6,80	6,30
Energy class		A	A++	A++	A++
<b>HEATING MODE</b>					
Heating Capacity	kW	3,20 (0,90-3,50)	4,20 (0,90-5,00)	5,80 (0,80-6,30)	7,00 (1,00-7,50)
Power consumption	kW	0,84	1,13	1,60	2,18
COP	W/W	3,81	3,72	3,63	3,21
SCOP (average)	W/W	3,80	4,00	3,90	3,80
Energy class (average)		A	A+	A+	A+
<b>INDOOR UNIT</b>					
Sound pressure level (cooling)	dB(A)	40/37/34/31/27	39/36/33/30/26	44/41/38/32/30	47/44/41/38/35
Sound power level (cooling)	dB(A)	55	54	59	62
Sound pressure level (heating)	dB(A)	41/38/35/32/28	40/37/34/31/28	44/41/39/35/32	47/44/42/38/35
Sound power level (heating)	dB(A)	56	55	59	62
Dimensions (WxDxH)	mm	790x235x275	790x235x275	1050x238x320	1050x238x320
Weight (Net)	kg	10	10	13	13
<b>OUTDOOR UNIT</b>					
Sound pressure level (cooling)	dB(A)	48	48	49	53
Sound power level (cooling)	dB(A)	63	63	64	68
Sound pressure level (heating)	dB(A)	50	50	50	52
Sound power level (heating)	dB(A)	65	65	65	67
Operating range (cooling/heating)	°C	-10~46 / -15~24			
Dimensions (WxDxH)	mm	660x240x530	780x290x550	780x290x550	780x290x550
Weight (Net)	kg	27	33	39	41
Refrigerant		R-410A			
Flare connections (Liquid side - Gas side)	inch	1/4-3/8	1/4-3/8	1/4-1/2	3/8-5/8
Chargeless pipe length	m	15	15	20	20
Max. piping length (with charge)	m	15	20	20	20
Max. height difference	m	8	10	10	10
Power supply	V-Ph-Hz	220/240-1 -50/60			

Note:  
Cooling Capacities are based on 27°C (DB) / 19°C (WB) indoor air temperature and 35°C (DB) / 24°C (WB) outdoor air temperature.  
Heating Capacities are based on 20°C (DB) / 15°C (WB) indoor air temperature and 7°C (DB) / 6°C (WB) outdoor air temperature.





DELIVERING THE ULTIMATE COMFORT  
WITH THE MAXIMUM FLEXIBILITY

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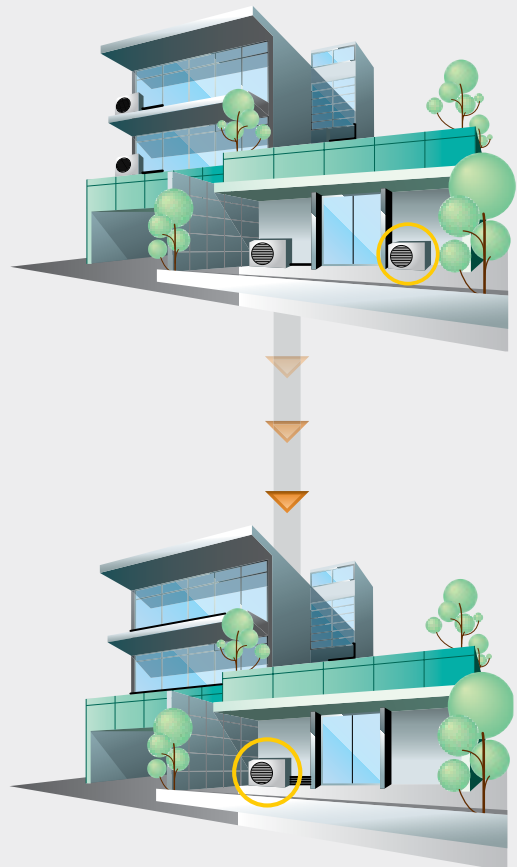
MULTI SPLIT SYSTEMS



## FEATURES

Carrier's multi system will deliver the ultimate cooling and heating comfort with the maximum flexibility.

- ✓ DC Inverter technology with twin rotary compressor and DC fan motor for quieter and economical operation
- ✓ One outdoor unit can serve up to 4 indoor units for all possible indoor combination
- ✓ Individual control of the indoor units
- ✓ Light weight and compact
- ✓ Wide operation range
- ✓ Long piping design for wide choice of installation sites
- ✓ Intelligent anti-cold-air function
- ✓ Low ambient operation kit



## TECHNICAL SPECIFICATIONS\*

## OUTDOOR UNITS

MODEL CDU	38VNM218713			38VNM327713			38VNM436713				
	Single	x2		Single	x2	x3	Single	x2	x3	x4	
<b>COOLING MODE</b>											
Capacity	kW	2,05~5,27	5,27	2,05~5,27	4,10~7,62	7,91	2,05~5,27	4,10~7,62	6,15~10,55	10,55	
Power consumption	kW	0,65~1,60	1,60	0,75~1,70	1,40~2,35	2,47	1,25~1,70	1,65~2,32	2,15~3,52	3,28	
EER	W/W	/	3,29	/	/	3,21	/	/	/	3,22	
SEER	W/W	5,6~5,8		5,8 ~ 6,0			5,1 ~ 5,2				
Energy Efficiency Class		A+		A+			A				
<b>HEATING MODE</b>											
Capacity	kW	2,34~5,86	6,15	2,34~5,86	4,69~8,50	8,79	2,34~5,86	4,69~8,50	7,03~11,72	12,01	
Power consumption	kW	0,62~1,68	1,70	0,72~1,75	1,52~2,25	2,38	1,57~2,44	2,05~3,34	2,88~3,54	3,33	
COP	W/W	/	3,62	/	/	3,69	/	/	/	3,61	
SCOP (Average)	W/W	3,8		3,8			3,8				
Energy Efficiency Class (average)	dB(A)	A		A			A				
Air flow	m <sup>3</sup> /h	2500			3500			5500			
Sound pressure level	dB(A)	61			61			64			
Sound power level	dB(A)	63			67			67			
Operation range	Cooling / Heating	°C	-15~50 / -15~24		-15~50 / -15~24			-15~50 / -15~24			
Dimensions	WxDxH	mm	845x320x700		900x315x860			990x345x965			
Net weight	kg	48		62			78				
Compressor type		Twin-rotary			Twin-rotary			Twin-rotary			
Flare connections	Liquid side	inch	2 x 1/4		3 x 1/4			4 x 1/4			
Flare connections	Gas side	inch	2 x 3/8		3 x 3/8			4 x 3/8			
Max. piping length for all rooms	m	30		45			60				
Max. piping length for one IDU	m	20		25			30				
Max. piping height difference	CDU higher than IDU	m	10		10			10			
Max. piping height difference	CDU lower than IDU	m	15		15			15			
Max. piping height difference	IDUs	m	10		10			10			
Power supply	V-Ph-Hz	220/240 -1-50		220/240 -1-50			220/240 -1-50				



\*Preliminary data

HIWALL



MODEL IDU		42HVF-09	42HVF-12	42HVF-18
<b>COOLING MODE</b>				
Capacity	kW	2,64	3,52	4,98
Power consumption	kW	0,048	0,024	0,034
<b>HEATING MODE</b>				
Capacity	kW	2,93	3,81	5,27
Power consumption	kW	0,048	0,024	0,034
Air flow (H/M/L)	m³/h	620/540/440	630/550/430	730/480/400
Sound pressure level (H/M/L)	dB(A)	41/38/31	43/40/31	41/33/31
Sound power level	dB(A)	53	54	57
Dimensions (WxDxH)	mm	800x188x275	800x188x275	940x205x275
Net weight	Kg	7	7	9
Flare connections (Liquid side - Gas side)	inch	1/4 - 3/8	1/4 - 3/8	1/4 - 1/2
Operation range	°C	17-30	17-30	17-30
Power supply	V-Ph-Hz	220/240 -1 -50	220/240 -1 -50	220/240 -1 -50

CONSOLE



MODEL IDU		42QFA009DSA	42QFA012DSA	42QFA018DSA
<b>COOLING MODE</b>				
Capacity	kW	2,64	3,52	5,27
Power consumption	kW	0,03	0,04	0,05
<b>HEATING MODE</b>				
Capacity	kW	2,93	3,52	5,27
Power consumption	kW	0,03	0,04	0,05
Air flow (H/M/L/SL)	m³/h	710/680/580/450	710/680/580/450	820/740/650/520
Sound pressure level (H/M/L)	dB(A)	45/40/35	46/41/36	48/44/39
Sound power level	dB(A)	56	57	59
Dimensions (WxDxH)	mm	700x600x210	700x600x210	700x600x210
Net weight	kg	13,5	15	15
Flare connections (Liquid side - Gas side)	inch	1/4 - 3/8	1/4 - 3/8	1/4 - 1/2
Operation range	°C	17-30	17-30	17-30
Power supply	V-Ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50

CASSETTE



MODEL IDU		42QTD009DSA	42QTD012DSA	42QTD018DSA
<b>COOLING MODE</b>				
Capacity	kW	2,60	3,50	5,20
<b>HEATING MODE</b>				
Capacity	kW	2,90	3,81	5,27
Air flow (H/M/L)	m³/h	580/500/450	650/530/450	650/530/450
Sound pressure level (H/M/L)	dB(A)	42/38/35	46/42/38	46/42/38
Sound power level	dB(A)	54	57	58
Dimensions (WxDxH)	mm	570x570x260	570x570x260	570x570x260
Panel dimensions (WxDxH)(panel)	mm	647x647x50	647x647x50	647x647x50
Net weight	kg	15	16	16,5
Pane net weight	kg	2,5	2,5	2,5
Flare connections (Liquid side - Gas side)	inch	1/4 - 3/8	1/4 - 3/8	1/4 - 1/2
Power supply	V-Ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50

DUCTED



MODEL IDU		42SVM-09	42SVM-12	42SVM-18
<b>COOLING MODE</b>				
Capacity	kW	2,64	3,52	5,27
Power consumption	kW	0,03	0,04	0,107
<b>HEATING MODE</b>				
Capacity	kW	2,93	3,52	5,86
Power consumption	kW	0,03	0,04	0,107
Air flow (H/M/L)	m³/h	720/600/540	800/610/520	1400/1100/1000
External static pressure (H)	Pa	40	40	70
Sound pressure level (H/M/L)	dB(A)	41/37/34	42/38/34	46/42/40
Sound power level	dB(A)	55	57	59
Dimension (WxDxH)	mm	700x635x210	700x635x210	920x635x210
Net weight	kg	19,5	18	23
Flare connections (Liquid side - Gas side)	mm	1/4 - 3/8	1/4 - 3/8	1/4 - 1/2
Operation range	°C	17-30	17-30	17-30
Power supply	V-Ph-Hz	220/240-1-50	220/240-1-50	220/240-1-50

H/M/L/SL: High / Medium / Low / Super Low  
WxDxH: Widthx Depthx Height

38VNM218713	COMBINATION			TOTAL	NOMINAL CAPACITY (KW)	
	A	B			A	B
1 unit	9	-		2,64	2,64	-
	12	-		3,52	3,52	-
	18	-		5,27	5,27	-
2 units	9	9		5,27	2,64	2,64
	9	12		5,27	2,26	3,01
	9	18		5,27	1,76	3,52
	12	12		5,27	2,64	2,64

38VNM327713	COMBINATION			TOTAL	NOMINAL CAPACITY (KW)		
	A	B	C		A	B	C
1 unit	9	-	-	2,64	2,64	-	-
	12	-	-	3,52	3,52	-	-
	18	-	-	5,27	5,27	-	-
2 units	9	9	-	5,27	2,64	2,64	-
	9	12	-	6,15	2,64	3,52	-
	9	18	-	7,91	2,64	5,27	-
	12	12	-	7,03	3,52	3,52	-
	12	18	-	7,91	3,16	4,75	-
3 units	9	9	9	7,91	2,64	2,64	2,64
	9	9	12	7,91	2,37	2,37	3,16
	9	12	12	7,91	2,16	2,88	2,88

38VNM436713	COMBINATION				TOTAL	NOMINAL CAPACITY (KW)			
	A	B	C	D		A	B	C	D
1 unit	9	-	-	-	2,64	2,64	-	-	-
	12	-	-	-	3,52	3,52	-	-	-
	18	-	-	-	5,27	5,27	-	-	-
2 units	9	9	-	-	5,27	2,64	2,64	-	-
	9	12	-	-	6,15	2,64	3,52	-	-
	9	18	-	-	7,91	2,64	5,27	-	-
	12	12	-	-	7,03	3,52	3,52	-	-
	12	18	-	-	7,91	3,16	4,75	-	-
3 units	9	9	9	-	7,91	2,64	2,64	2,64	-
	9	9	12	-	7,91	2,37	2,37	3,16	-
	9	12	12	-	7,91	2,16	2,88	2,88	-
4 units	9	9	9	9	10,55	2,64	2,64	2,64	2,64
	9	9	9	12	10,55	2,43	2,43	2,43	3,25
	9	9	9	18	10,55	2,11	2,11	2,11	4,22
	9	9	12	12	10,55	2,26	2,26	3,01	3,01
	9	9	12	18	10,55	1,98	1,98	2,64	3,96
	9	12	12	12	10,55	2,11	2,81	2,81	2,81
	9	12	12	18	10,55	1,86	2,48	2,48	3,72
	12	12	12	12	10,55	2,64	2,64	2,64	2,64

\*Preliminary data





# PROFESSIONAL SOLUTIONS FROM PROFESSIONALS

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## LIGHT COMMERCIAL COMFORT SOLUTIONS

Carrier light commercial solutions are designed to meet the requirements of a variety of building types and applications.

### ENERGY EFFICIENCY

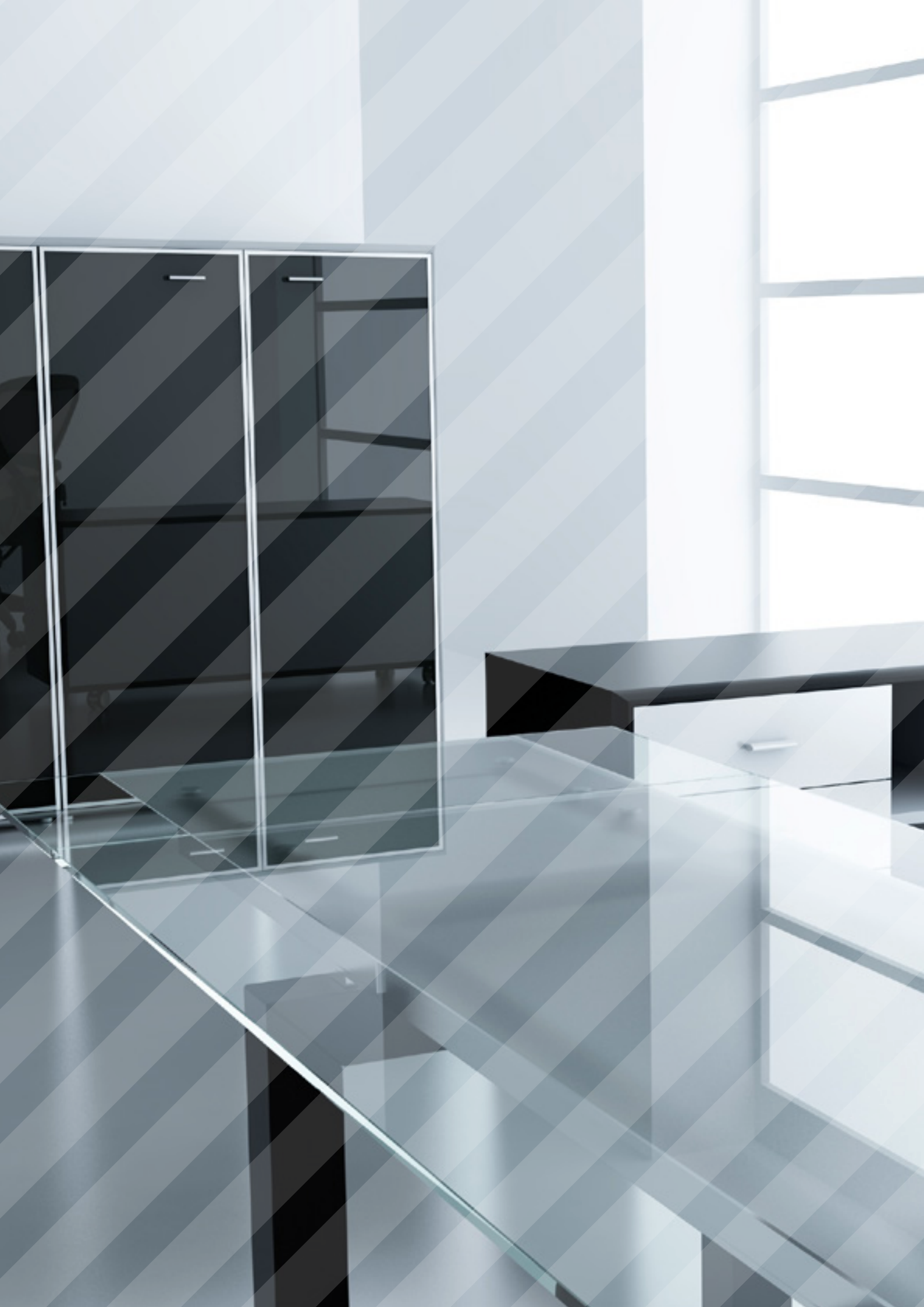
The inverter technology that the systems use offers considerable advantages in terms of energy savings. The variable capacity management of the compressor allows the system to maintain room temperature control and to ensure minimum energy usage.

### EXTENDED RANGE OF SOLUTIONS

Carrier Light Commercial systems, with state-of-the-art technologies, flexible controls, variety of indoor units, wide range of capacities and improved installation, bring comfort and convenience to any light commercial installation.

### OPERATIONS & MAINTENANCE

With superior quality and performance, the decision to partner with Carrier for light commercial solutions is an easy one. Our independent partners make installing and maintaining those solutions for optimal performance simple as well.





SETTING THE STANDARD FOR PERFORMANCE,  
ENERGY EFFICIENCY AND SUSTAINABILITY

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SINGLE SPLIT SYSTEMS



## FEATURES

This console has been designed not only to be slim and stylish but also to give high performance.

- ✓ All units can be mounted on walls or under the ceiling
- ✓ 3D motorised louvers allow air distribution direction according to individual preferences
- ✓ Advanced slimline coil
- ✓ Easy installation and maintenance: all internal components can be easily accessed by removing the grille
- ✓ Choice of wireless (standard) or wired controls (optional)



TECHNICAL SPECIFICATIONS\*

MODEL IDU		42QZL018DSA	42QZL024DSA	42QZL036DSA	42QZL048DSA	42QZL060DSA
MODEL CDU		38QUS018DSA	38QUS024DSE	38QUS036DSE	38QUS048DTE	38QUS060DTE
Nominal	BTU	18.000	24.000	36.000	48.000	60.000
<b>COOLING MODE</b>						
Capacity	kW	5,2	6,8	10,3	12,2	13,0
Capacity range (min-max)	kW	2,1~5,5	2,5~7,0	5,3~12,0	7,7~14,2	7,5~15,8
Power consumption	kW	1,84	2,45	4,35	4,20	4,70
EER	W/W	2,9	2,8	2,4	3,0	2,8
SEER	W/W	5,9	6,0	6,0	/	/
Energy class		A+	A+	A+	/	/
Seasonal energy consumption	kWh	308	397	601	2100	2350
<b>HEATING MODE</b>						
Capacity	kW	5,4	6,8	11,5	14,5	17,0
Capacity range (min-max)	kW	2,0~6,0	2,4~7,0	5,7~14,0	7,5~18,0	7,4~20,2
Power consumption	kW	1,65	2,20	3,20	4,80	5,70
COP	W/W	3,3	3,1	3,5	3,2	2,9
SCOP (average)	W/W	3,8	3,8	3,8	/	/
SCOP (warmer)	W/W	5,1	4,6	4,9	/	/
Energy class (average)		A	A	A	/	/
Energy class (warmer)		A+++	A++	A++		
Seasonal energy consumption (average)	kWh	1511	1879	3795	2400	2850
Seasonal energy consumption (warmer)	kWh	1235	2161	3000		
<b>INDOOR UNIT</b>						
Air flow (H/M/L)	m <sup>3</sup> /h	950/850/750	1200/1050/850	2100/1800/1400	2100/1800/1400	2250/1900/1550
Sound power level	dB(A)	58	63	64	65	67
Sound pressure level (H/M/L)	dB(A)	46/43/39	52/50/45	54/51/45	54/50/45	55/50/45
Weight (Net)	kg	26.5	26.5	40	40	42
Dimensions (WxDxH)	mm	1068x675x235	1068x675x235	1650x675x235	1650x675x235	1650x675x235
<b>OUTDOOR UNIT</b>						
Airflow	m <sup>3</sup> /h	2000	2500	4300	6800	6800
Sound pressure level	dB(A)	58	61	63	63	63
Sound power level	dB(A)	63	68	69	74	74
Operating range (cooling/heating)	°C	-10~46 / -15~24				
Dimensions (WxDxH)	mm	810x310x558	845x320x700	945x395x810	938x392x1369	938x392x1369
Weight (Net)	kg	37	47	72	103	103
Flare connections (Liquid side - Gas side)	inch	1/4 - 1/2	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8
Standard piping length	m	5	5	5	5	5
Min piping length	m	3	3	3	3	3
Max piping length	m	25	25	30	30	30
Max height difference	m	10	10	10	15	15
Additional charge	m	15	30	30	30	30
Power supply	V-Ph-Hz	220/240-1 -50	220/240-1 -50	220/240-1 -50	380/415-3 -50	380/415-3 -50

Note:  
 Cooling Capacities are based on 27°C (DB) / 19°C (WB) indoor air temperature and 35°C (DB) / 24°C (WB) outdoor air temperature.  
 Heating Capacities are based on 20°C (DB) / 15°C (WB) indoor air temperature and 7°C (DB) / 6°C (WB) outdoor air temperature.  
 The sound pressure level is given at 1m distance from outdoor units and 1,5m distance from indoor units.  
 H/M/L = High/Medium/Low speed  
 WxDxH = Width x Depth x Height

\*Preliminary data





## FEATURES

The ideal solution for any commercial application.

- ✓ Compact design
- ✓ Allows 360° airflow for optimum air distribution in the room
- ✓ Standard dimensions compatible with all suspended ceiling systems
- ✓ Fresh air intake and additional outlet grille that allows the air conditioning of an adjoining room
- ✓ Easy accessibility to the key components on the unit simply by opening the grille or removing the front panel
- ✓ Built in drain pump that can lift the condensate water up to 750mm
- ✓ Choice of wired (optional) or wireless controls (standard)



TECHNICAL SPECIFICATIONS\*

MODEL IDU		42QTD012DSA	42QTD018DSA	42QTD024DSA	42QTD036DSA	42QTD048DSA	42QTD060DSA
MODEL CDU		38QUS012DSA	38QUS018DSA	38QUS024DSE	38QUS036DSE	38QUS048DTE	38QUS060DTE
Nominal	BTU	12.000	18.000	24.000	36.000	48.000	60.000
<b>COOLING MODE</b>							
Capacity	kW	3,5	5,2	6,8	10,3	12,2	13,0
Capacity range (min-max)	kW	1,0~3,7	2,1~5,5	2,5~7,0	5,3~12,0	7,7~14,2	7,5~15,8
Power consumption	kW	1,15	1,84	2,45	4,35	4,20	4,70
EER	W/W	3,1	2,9	2,8	2,4	3,0	2,8
SEER	W/W	5,8	5,9	6,0	6,0	/	/
Energy class		A+	A+	A+	A+	/	/
Seasonal energy consumption	kWh	211	308	397	601	2100	2350
<b>HEATING MODE</b>							
Capacity	kW	3,6	5,4	6,8	11,5	14,5	17,0
Capacity range (min-max)	kW	1,0~4,1	2,0~6,0	2,4~7,0	5,7~14,0	7,5~18,0	7,4~20,2
Power consumption	kW	1,30	1,65	2,20	3,20	4,80	5,70
COP	W/W	2,8	3,3	3,1	3,5	3,2	2,9
SCOP (average)	W/W	3,8	3,8	3,8	3,8	/	/
SCOP (warmer)	W/W	5,1	5,1	4,6	4,9	/	/
Energy class (average)		A	A	A	A	/	/
Energy class (warmer)		A+++	A+++	A++	A++	/	/
Seasonal energy consumption (average)	kWh	995	1511	1879	3795	2400	2850
Seasonal energy consumption (warmer)	kWh	851	1235	2161	3000	/	/
<b>INDOOR UNIT</b>							
Air flow (H/M/L)	m³/h	650/530/450	650/530/450	1450/1250/1100	1700/1460/1300	1850/1600/1400	1850/1600/1400
Sound power level	dB(A)	57	58	58	64	64	67
Sound pressure level (H/M/L)	dB(A)	46/42/38	46/42/38	49/46/44	53/48/44	52/49/46	53/50/47
Weight (Net)	kg	16,0	16,5	24,0	25,5	29,0	31,0
Panel weight (Net)	kg	2,5	2,5	5,0	5,0	5,0	5,0
Dimensions (WxDxH)	mm	570x570x260	570x570x260	840x840x245	840x840x245	840x840x287	840x840x287
Panel dimensions (WxDxH)	mm	647x647x50	647x647x50	950x950x55	950x950x55	950x950x55	950x950x55
<b>OUTDOOR UNIT</b>							
Airflow	m³/h	2000	2000	2500	4300	6800	6800
Sound pressure level	dB(A)	54	58	61	63	63	63
Sound power level	dB(A)	62	63	68	69	74	74
Operating range (cooling/heating)	°C	-10~-46 / -15~-24					
Dimensions (WxDxH)	mm	810x310x558	810x310x558	845x320x700	945x395x810	938x392x1369	938x392x1369
Weight (Net)	kg	30,5	37,0	47,0	72,0	103,0	103,0
Flare connections (Liquid side - Gas side)	inch	1/4 - 3/8	1/4 - 1/2	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8
Standard piping length	m	5	5	5	5	5	5
Min piping length	m	3	3	3	3	3	3
Max piping length	m	20	25	25	30	30	30
Max height difference	m	8	10	10	10	15	15
Additional charge	m	15	15	30	30	30	30
Power supply	V-Ph-Hz	220/240-1 -50	220/240-1 -50	220/240-1 -50	220/240-1 -50	380/415-3 -50	380/415-3 -50

Note:  
 Cooling Capacities are based on 27°C (DB) / 19°C (WB) indoor air temperature and 35°C (DB) / 24°C (WB) outdoor air temperature.  
 Heating Capacities are based on 20°C (DB) / 15°C (WB) indoor air temperature and 7°C (DB) / 6°C (WB) outdoor air temperature.  
 The sound pressure level is given at 1m distance from outdoor units and 1,5m distance from indoor units.  
 H/M/L = High/Medium/Low speed  
 WxDxH = Width x Depth x Height

\*Preliminary data





## FEATURES

Compact and versatile is the ideal choice for new or refurbished buildings.

- ✓ Slim line profile that allows installation in applications with low available height
- ✓ Reliable and durable unit thanks to high efficient DC rotary inverter driven compressor
- ✓ Easy installation and maintenance as all components can be accessed by removing the grille
- ✓ Equipped with fresh air intake
- ✓ Choice of wired (standard) or wireless controls (optional)



TECHNICAL SPECIFICATIONS\*

MODEL IDU		42QSM012DSA	42QSM018DSA	42QSM024DSA	42QSM036DSA	42QSM048DSA	42QSM060DSA
MODEL CDU		38QUS012DSA	38QUS018DSA	38QUS024DSE	38QUS036DSE	38QUS048DTE	38QUS060DTE
Nominal	BTU	12.000	18.000	24.000	36.000	48.000	60.000
<b>COOLING MODE</b>							
Capacity	kW	3,5	5,2	6,8	10,3	12,2	13,0
Capacity range (min-max)	kW	1,0~3,7	2,1~5,5	2,5~7,0	5,3~12,0	7,7~14,2	7,5~15,8
Power consumption	kW	1,15	1,84	2,45	4,35	4,20	4,70
EER	W/W	3,1	2,9	2,8	2,4	3,0	2,8
SEER	W/W	5,8	5,9	6	6	/	/
Energy class		A+	A+	A+	A+	/	/
Seasonal energy consumption	kWh	211	308	397	601	2100	2350
<b>HEATING MODE</b>							
Capacity	kW	3,6	5,4	6,8	11,5	14,5	17,0
Capacity range (min-max)	kW	1,0~4,1	2,0~6,0	2,4~7,0	5,7~14,0	7,5~18,0	7,4~20,2
Power consumption	kW	1,30	1,65	2,20	3,20	4,80	5,70
COP	W/W	2,8	3,3	3,1	3,5	3,2	2,9
SCOP (average)	W/W	3,8	3,8	3,8	3,8	/	/
SCOP (warmer)	W/W	5,1	5,1	4,6	4,9	/	/
Energy class (average)		A	A	A	A	/	/
Energy class (warmer)		A+++	A+++	A++	A++	/	/
Seasonal energy consumption (average)	kWh	995	1511	1879	3795	2400	2850
Seasonal energy consumption (warmer)	kWh	851	1235	2161	3000	/	/
<b>INDOOR UNIT</b>							
Air flow (H/M/L)	m³/h	520/450/380	920/840/760	1360/1200/1000	1750/1500/1280	2200/1900/1600	2200/1900/1600
Sound power level	dB(A)	56	57	62	62	65	65
Sound pressure level (H/M/L)	dB(A)	42/40/38	42/40/38	44/41/34	46/44/42	50/47/44	50/47/44
Weight (Net)	kg	18,5	23	26,5	44	45	45
Dimensions (WxDxH)	mm	700x635x210	920x635x210	920x635x210	1200x865x300	1200x865x300	1200x865x300
<b>OUTDOOR UNIT</b>							
Airflow	m³/h	2000	2000	2500	4300	6800	6800
Sound pressure level	dB(A)	54	58	61	63	63	63
Sound power level	dB(A)	62	63	68	69	74	74
Operating range (cooling/heating)	°C	-10~46 / -15~24					
Dimensions (WxDxH)	mm	810x310x558	810x310x558	845x320x700	945x395x810	938x392x1369	938x392x1369
Weight (Net)	kg	30,5	37,0	47,0	72,0	103,0	103,0
Flare connections (Liquid side - Gas side)	inch	1/4 - 3/8	1/4 - 1/2	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8	3/8 - 5/8
Standard piping length	m	5	5	5	5	5	5
Min piping length	m	3	3	3	3	3	3
Max piping length	m	20	25	25	30	30	30
Max height difference	m	8	10	10	10	15	15
Additional charge	m	15	15	30	30	30	30
Power supply	V-Ph-Hz	220/240 -1 -50	220/240 -1 -50	220/240 -1 -50	220/240 -1 -50	380/415 -3 -50	380/415 -3 -50

Note:  
 Cooling Capacities are based on 27°C (DB) / 19°C (WB) indoor air temperature and 35°C (DB) / 24°C (WB) outdoor air temperature.  
 Heating Capacities are based on 20°C (DB) / 15°C (WB) indoor air temperature and 7°C (DB) / 6°C (WB) outdoor air temperature.  
 H/M/L = High/Medium/Low speed  
 WxDxH = Width x Depth x Height

\*Preliminary data



## FEATURES

Elegant appearance and ultimate comfort with energy efficiency.

- ✓ Efficient air management system
- ✓ Smart LCD display that shows control functions and error codes in case of a malfunction
- ✓ Long lasting washable filter for clean air
- ✓ Smart self – diagnostic function and refrigerant leak detection
- ✓ Turbo function in order to reach the desired temperature quickly
- ✓ Auto restart with the previous operations settings in case of power failure
- ✓ Auto mode that allows changing automatically the operation mode and the capacity according to temperature difference between room and set point
- ✓ Independent dehumidification mode
- ✓ Programmable timer for energy savings
- ✓ Easy installation, maintenance and service





## TECHNICAL SPECIFICATIONS\*

MODEL IDU		42QFG048DSA	42QFG060DSA
MODEL CDU		38QUS048DTE	38QUS060DTE
Nominal	BTU	48000	60000
Nominal cooling capacity (Min-Max)	kW	12,2 (7,7-14,2)	13,0 (7,5-15,8)
EER		3,0	2,8
Nominal heating capacity (Min-Max)	kW	14,5 (7,5-18,0)	17,0 (7,4-20,2)
COP		3,2	2,09
INDOOR UNIT			
Rated input	W	335+3800	350+3800
Dimensions (WxDxH)	mm	610x390x1925	610x390x1925
Net weight	kg	69,3	69,6
OUTDOOR UNIT			
Rated input	W	7200	7500
Dimensions (WxDxH)	mm	938x392x1369	938x392x1369
Net weight	kg	102	107
Refrigerant type		R410A	R410A
Flare connections (Liquid side - Gas side)	inch	3/8 - 5/8	3/8 - 5/8
Max. pipe length	m	65	65
Max. pipe height difference	m	30	30
Operating range (Cooling / Heating)	°C	-15-50 / -15-24	-15-50 / -15-24
Power supply	V-Ph-Hz	380/415-3-50	380/415-3-50

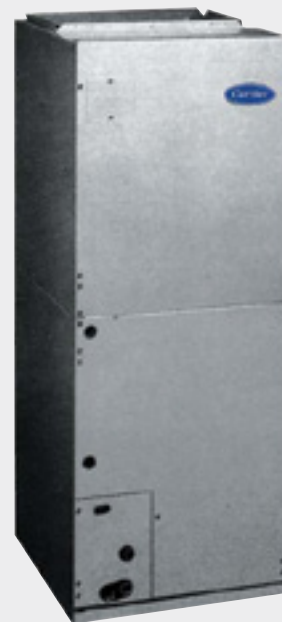
Note:  
 Cooling Capacities are based on 27°C (DB) / 19°C (WB) indoor air temperature and 35°C (DB) / 24°C (WB) outdoor air temperature.  
 Heating Capacities are based on 20°C (DB) / 15°C (WB) indoor air temperature and 7°C (DB) / 6°C (WB) outdoor air temperature.  
 WxDxH = Width x Depth x Height



## FEATURES

Suitable for all light commercial applications.

- ✓ Installation flexibility: the indoor unit can be installed in three air flow positions (upwards, downwards or horizontal)
- ✓ Refrigerant circuit service valves with easily accessible pressure test ports for start-up and maintenance
- ✓ Heat pump cycle with four position valve and electronic control system for optimized defrosting
- ✓ High and low pressure safety switched fitted as standard
- ✓ Outdoor unit compressors are hermetically sealed against contamination and pollutants to ensure long life and reliability



## TECHNICAL SPECIFICATIONS\*

MODEL IDU		FX4CSX048000	FX4CSX060000
MODEL CDU		38EYX048-X-9	38EYX060-X-9
Nominal	BTU	48.000	60.000
COOLING MODE			
Capacity	kW	13,66	16,73
Power consumption	kW	4,36	5,87
EER	W/W	3,13	2,85
HEATING MODE			
Capacity	kW	14,48	17,07
Power consumption	kW	3,82	5,04
COP	W/W	3,79	3,39
INDOOR UNIT		FX4CSX048000	FX4CSX060000
Nominal air flow (H)	l/s	750	825
Dehumidification	l/h	7,00	8,20
Nominal static pressure	Pa	125	125
Sound pressure level	dB(A)	77	80
Sound power level	dB(A)	61	64
Dimensions (WxDxH)	mm	537x560x1261	537x560x1357
Weight (Net)	kg	72	80
OUTDOOR UNIT		38EYX048-X-9	38EYX060-X-9
Compressor type		Scroll	Scroll
Airflow (cooling)	m <sup>3</sup> /h	5098	4248
Sound pressure level (cooling)	dB(A)	72	74
Sound power level (cooling)	dB(A)	52	54
Maximum running current (cooling)	A	12	14
Operating range (cooling /heating)	°C	13~52 / -34~-19	
Dimensions (WxDxH)	mm	762x762x1015	762x762x862
Weight (Net)	kg	99,30	111,60
Chargeless pipe length	m	4,5	
Max. piping length	m	50	
Max. height difference	m	45	
Flare connections (Liquid side - Gas side)	inch	3/8" - 7/8"	
Power supply	V-Ph-Hz	400-3-50	

## Note:

Cooling Capacities are based on 27°C (DB) / 19°C (WB) indoor air temperature and 35°C (DB) / 24°C (WB) outdoor air temperature.

Heating Capacities are based on 20°C (DB) / 15°C (WB) indoor air temperature and 7°C (DB) / 6°C (WB) outdoor air temperature.



## AHI CARRIER SOUTH EASTERN EUROPE AIR – CONDITIONING SA



### MILESTONES

Dating back to 1952, Carrier was the first air-conditioning company in Greece. In 1996, Carrier Hellas Air-Conditioning S.A. was established as a subsidiary of Carrier Corporation with distribution and after sales services rights for Carrier, Toshiba & Totaline air-conditioning brands in Greece.

Simultaneously, Carrier expanded its distribution rights to the Balkan area with offices in Bulgaria (2004) and Romania (2008). In 2009, the company was renamed to Carrier South Eastern Europe Air - Conditioning S.A. signifying the distribution rights in Greece, Cyprus, the Balkans region.

The first semester of 2011, Carrier entered into an agreement to transfer its HVAC distribution and after-sales support operations in Greece, Cyprus & the Balkans to its existing AHI Carrier FZC joint venture. The company was renamed to AHI Carrier South Eastern Europe Air - Conditioning S.A and continues to provide customers with high quality Carrier and Toshiba HVAC solutions, supported by dedicated after-sales service technicians and the Totaline parts and supply network. In 2013, the company took also the distribution rights for Central Europe.

### COMPANY CULTURE

#### Mission

To be our customers' first choice for air-conditioning, heating and refrigeration solutions in our region.

#### Purpose

To create comfortable environment regardless of the climate by providing solutions that maintain exceptional indoor air quality.

#### Values

- Quality and performance
- Innovation
- Employee development
- Customer care
- Business practices
- Health and safety

## ABOUT AHI CARRIER FZC

AHI is part of Darwish Bin Ahmed Group, U.A.E. founded in 1964. DBA Group is engaged in the following “core” business activities through a large, diversified investment and property portfolio, wholly owned companies, partnerships, agency agreements and joint ventures.

### Civil Engineering

### Real Estate & Hospitality

### International Representation of Major Manufacturers

### Business Investments

### Joint Venture with Carrier Corporation

AHI Carrier formerly known as Air-conditioning & Heating International (AHI) became a Carrier Joint Venture Company on December 18th, 2008. The partnership between Carrier and AHI dates back to December 1997 when the first agreement was signed for distribution of Carrier products in Russia and all of CIS countries (12 countries).

In 1999, Carrier & Toshiba Air-conditioning entered into a Joint Venture and as a consequence the Toshiba range of air-conditioning products was added for distribution in AHI FZC territories.

Success came early and in 2000 Carrier rewarded us by expanding our distribution rights to East and Central Africa (15 countries).

Since the creation of “AHI Carrier” Joint Venture, more countries have been added to include Middle East, Central and South Eastern Europe, Australia, New Zealand and South Africa (42 countries).

AHI Carrier keeps a flexible and aggressive forward sales structure (sales offices & dealer network) and builds sales support functions in a centralized back office (Sharjah, U.A.E). The strategy focuses on economies of scale and allows AHI Carrier to quickly respond to opportunities in the sales area, parallelly building a competitive system of product specification and technical support, logistics coordination, finance & M.I.S.

The most critical factor contributing AHI's successful track record of profitable growth has been its commitment to service - and this commitment will become increasingly important in the future.

THE LARGEST  
CARRIER JOINT  
VENTURE HVAC  
DISTRIBUTION  
COMPANY  
OUTSIDE USA

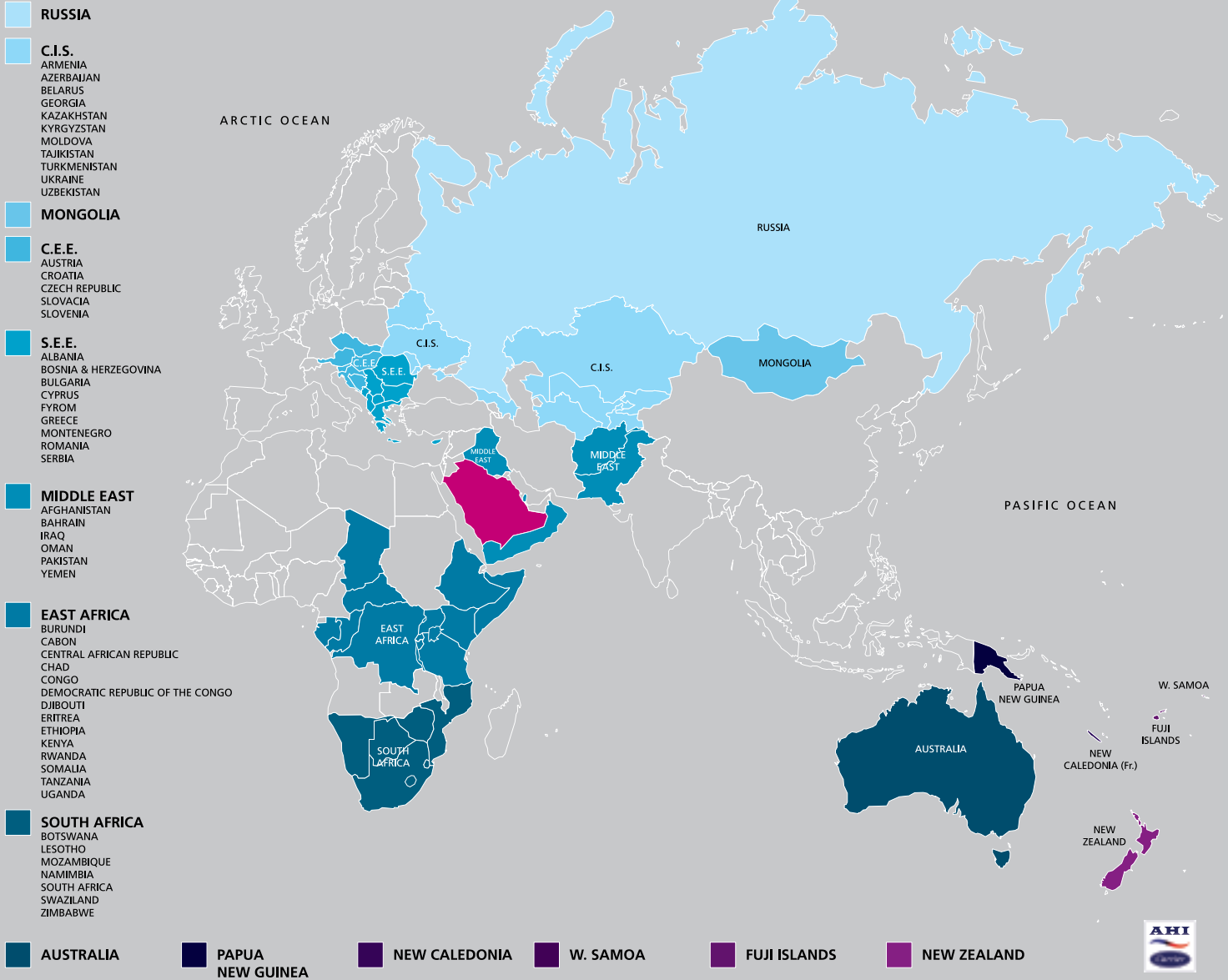


# AHI Carrier Fzc

## Business Territory Network

AHI Carrier Fzc  
Business Territory Network

Territories for **TOSHIBA** only (SAUDI ARABIA - UAE - KUWAIT - QATAR)













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