

Domestic Hot Water Production Systems VARIO









### **YOUR CONDITIONS!**

Since 1916, Tinventor pioneers in the US market, by designing and manufacturing innovative air conditioning and heat pump units. The company's primary competitive advantage is the use of its know-how expertise gained in the past, to build air conditioning systems of the future.

The key to **inventor** units' success is that they are specifically designed to enable the modern individual invent his own custom made living and working conditions. Regulating effectively the natural environment, **inventor** units can create silently the perfect indoor conditions; your conditions!

All **inventor** units carry a

2-year Warranty for the compressor and for all parts of the unit.

**inventor** units can be found all across Europe in a continuously growing selected network of air conditioning professionals!

Their excellent quality and operational efficiency has been awarded by the European Union with the highest standard certificates.

Furthermore, the use of the environmental friendly refrigerants (freon) do not contribute to the increase of the global warming environment.



Your natural conditions





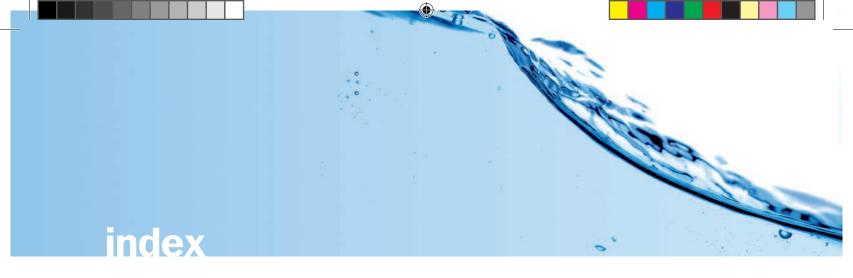












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### **WHAT IS VARIO?**

These days, people are increasingly focusing on the cost of heating as well as the environmental issues. Traditional heating systems cost more money and are bad for sustainable development of the environment. Thus, people are searching for new heating technology with high efficiency, low running cost and eco-friendly features.

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This is why we created Vario!

#### **S What is Vario?**

Vario, is a DC inverter multifunctional air to water heat pump system. By adopting advanced heat pump technology, absorbs natural heat from the ambient air and uses it for room heating. It does not only satisfy room-heating requirements but also supplies domestic hot water.

Besides, Vario can also provide you cool air in hot summer. It is All in One! Choose Vario, and enjoy a comfortable air all year round!

#### Seco-friendly---Create a Green World

Vario adopts R410A, a new eco-friendly refrigerant which is harmless for the atmosphere. Moreover, with advanced heat pump and powerful hardware, the efficiency of Vario has been improved, resulting in much lower CO<sub>2</sub> discharge. It is an eco-friendly product, which mirrors your social commitment to protect environment.



### **Solution Sustainable Energy Converter**

The outdoor unit adopts DC inverter technology and the most efficient refrigerant R410A with zero ozone depletion. It can absorb environment's heat and heat it to a higher temperature. Heat is transfered via the refrigerant pipe to the hydro unit. The compact outdoor unit enables

easy installation.







# Hydro Unit (incorporating the control system):

Heat is transfered through refrigerant pipes to the hydro unit. The Hydro unit transfers the heat to the circulating water in the under-floor heating, radiators or fan coil units and also to the domestic hot water tank.



## **Domestic Hot Water Tank:**

A water tank is required for supplying domestic hot water. Two series of stainless steel water tanks are available (with 200L, 300L models). All of them are equipped with auxiliary heater, dual-sensor and all necessary controls.

In addition, a built-in disinfection function can automatically raise the water temperature up to  $70^{\circ}\text{C}$  or higher to prevent the growth of bacteria.





Vario outdoor units use twin rotary DC inverter compressor and optimized fan up to 4.5 COP, for more comfort and energy save.

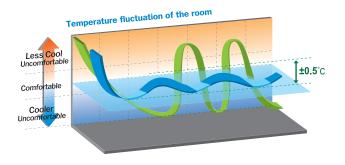




#### **Shigh Efficiency**

#### > Twin Rotary DC Inverter Compressor

Comparing with traditional compressors, DC inverter compressors have the advantage of high performance and high efficiency.



#### DC inverter System

The DC inverter technology with high-power and high energy efficiency not only creates comfortable room air, but also saves energy.

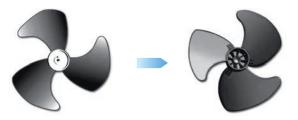
#### Traditional System

ON and OFF frequently cause temperature fluctuation.

- By adopting DC Inverter technology, the compressor regulates its output according to the cooling/heating load in order to achieve higher energy efficiency.
- DC Inverter compressor optimizes its output, which ensures high efficient operation.
- With stepless power regulation technology, the DC Inverter compressor achieves stepless output regulation between 20Hz and 120Hz.
- The 180-degree sine wave current output results in small startup current, small torque pulse and free speed regulation between 900 and 6600r/min. It enables the system to meet the temperature requirements of various circumstances, to lower the power consumption greatly and to ensure comfortable use.

#### **S** Fan

Efficient axial fan with streaming design and huge airflow volume, offers powerful cooling capacity and ensures the stability and reliability of the system.



#### **9 DC Fan Motor**

- > Stepless adjustment
- > Higher airflow volume and lower power consumption





#### **Sheat exchanger**

**>** Compared with the common fin, the heat exchange efficiency of the louver fin is increased by 5%.



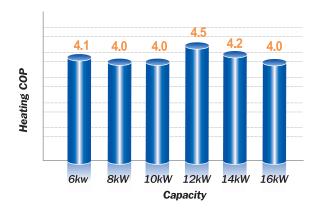
Former Models: Normal Flat Fin



Vario: Louver Fin with Blue Coated > Special thickened inside-thread copper pipe enhances the heat exchange performance by over 8%



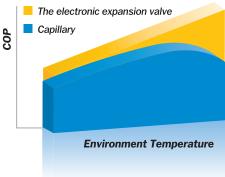
#### **© COP up to 4.5**



#### **SELECTION SET OF SET O**

The electronic expansion valve is highly flexible. It can automatically adjust the throttle according to the refrigerant demand based on the stability of the system. It is more energy saving and stable than capillary.





#### **S** Comfort

#### > Precise Temperature Regulation

The electronic expansion valve guarantees that the system made adjustments automatically, according to the changes of the circumstance and the water temperature.

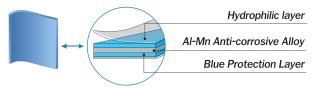
#### > Quiet Mode

By adjusting the output of the compressor and fan, the operation noise of the unit can be decreased by more than 3dB(A). This way is meeting the quiet requirements at night or in special occasions.

#### Seliability

#### > Heat Exchange Anti-corrosion

Highly anti-corrosion blue hydrophilic-coated aluminum fin has longer life than common fin



#### > Wide Voltage Range Operation

The unit can safely operate within 185V~264V.



#### **Self-diagnosis of the Outdoor Unit**

With the self-diagnosis function, the outdoor unit will start auto-protection if the power voltage of the current is out of the normal range. Protection will be cancelled automatically when the power condition resumes to normal.

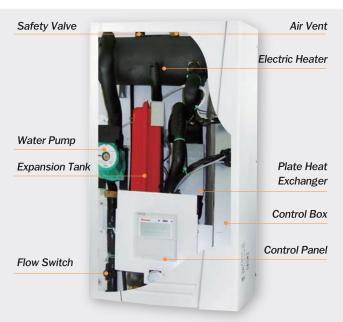
#### **Sompact Design**

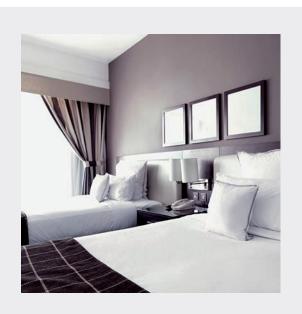




### **HYDRO UNIT**

Vario's hydro unit equipped with high COP plate heat exchanger and high efficiency pump. The innovative compact design gives you more flexibility.





#### **9 High Efficiency**

> High COP plate heat exchanger



#### > High efficient pump





#### **Solution** Flexible and Compact Design



Compact design, easy for installation Dimension (WxDxH) (mm)

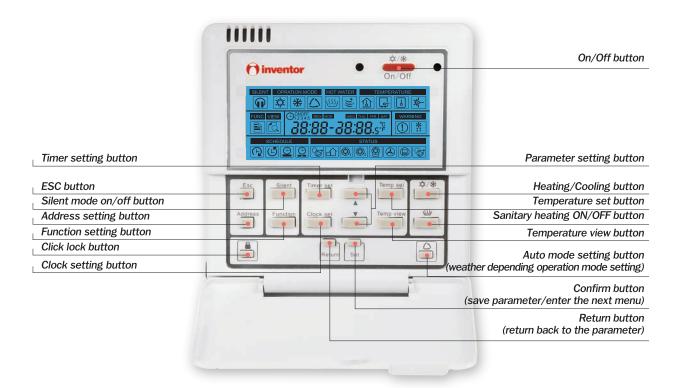
#### 500x324x900mm.

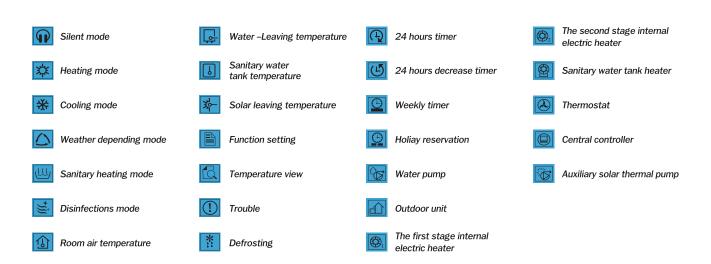
Pressure safety, plate heat exchanger, expansion tank, water pump and control box all in one.





#### **Solution User Friendly Control System**





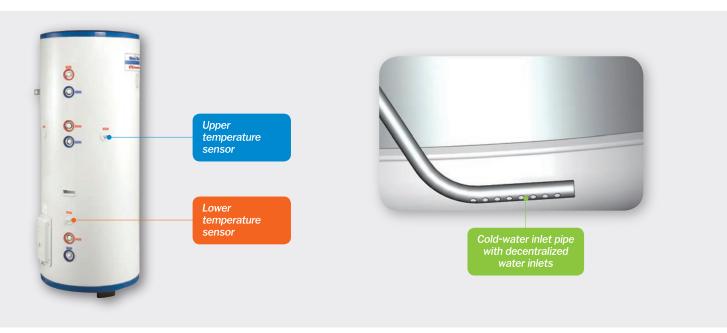


#### **© Comfort**

#### > Smart Dual-temperature Detection Control Technology

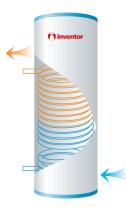
ON and OFF control of the unit is realized by upper and lower temperature sensors, which renews water temperature in real time, thus ensuring the perfect timing of startup:

- Avoid premature startup. Improved hot water yielding rate by accurate timing of hot / cold water mixture.
- Avoid overdue startup. Improved hot water use rate and shorten the waiting time of reheating.
- > Water is charged from the bottom and the water inlet pipe has equispaced water inlets. This can reduce coldwater shock and enhance the service life of the tank.



#### **S** Health

**>** Domestic water is sanitary and can be used directly.



> The stainless steel tank and coil will not affect the water quality



> The disinfection function at a high temperature up to 70°C can prevent the growth of bacteria and ensure sanitary water; creating a wholesome life experience for the user.





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#### **S** Reliability

- > When water is used, due to the existance of bearing tank, the unit is refilled with water. This ensures rapid storage and continuous delivery.
- > The magnesium stick protecting container contributes to lifespan.
- > Thermal insulting layer of 50mm thickness.







#### > Water and electricity isolation ensures safe operation.

Water and electricity are completely separated so that electrical leakage is absolutely avoided.

Advanced microcomputer control and complete protection functions are preventing any electricity leakage, dry heating, over-high temperature, etc.



Dry heating



Electricity leakage

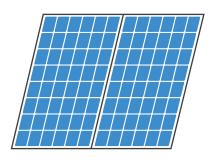


Over-high temperature

#### **S** Flexibility

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> Dual-coil design makes convenient to join solar panel or boiler.



Solar panel



Boiler





### **FLEXIBLE APPLICATIONS**

#### **Solution** Five-Mode Operation

> Heating > Cooling

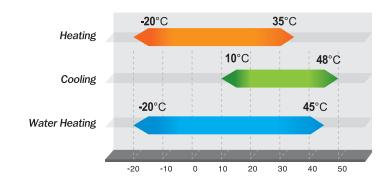
> Water Heating

> Heating +Water resistance

> Cooling + Water resistance

#### > Wide Range of Operation Temperature

-20°C ~ 35°C Heating  $10^{\circ}\text{C} \sim 48^{\circ}\text{C}$ Cooling Water Heating  $-20^{\circ}\text{C} \sim 45^{\circ}\text{C}$ 



#### > Hot Water Temperature Range

Domestic water: 40°C to 80°C

#### **Heating**

Fan coil/Radiator: 25°C ~ 55°C

Floor: 25°C ~ 45°C

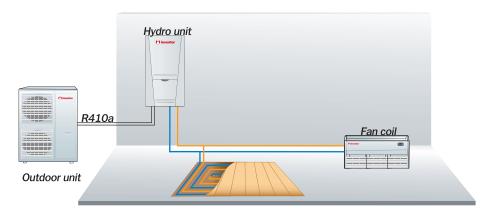
#### Cooling

Fan coil/Radiator: 7°C ~ 25°C

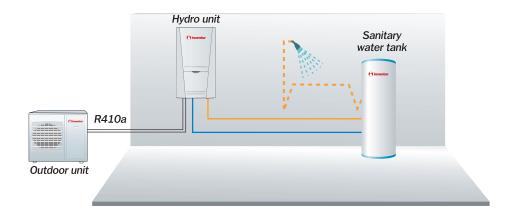
Floor: 18°C ~ 25°C

#### **Solution Examples**

#### > Heating / Cooling

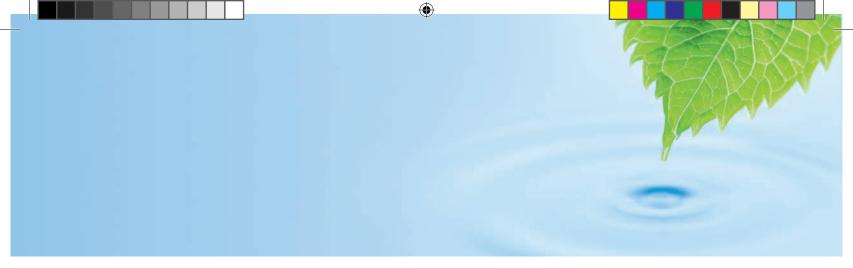


#### > Water Heating

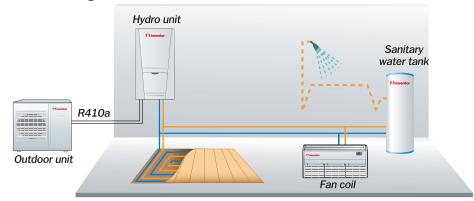








#### > Heating / Cooling with Water Heating

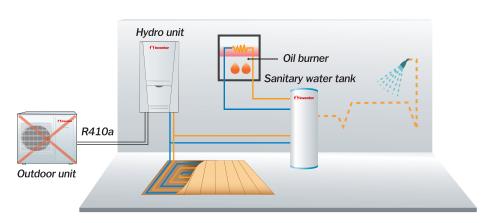


#### **Multiple Additional functions and Humanized Function**

#### > Urgent Water Heating

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Electric heater is used as backup in any case that a fault occurs.



#### > Quick Water Heating

The heat pump and the water tank's electric heater operate at the same time to realize rapid heating.

#### > Disinfections

The water will be heated to 70°C at set time to kill the bacteria in the water. The disinfect ion is usually carried out at night.

#### > Holiday Mode

In heating mode, when the user is on a trip, the unit can be set to operate automatically so as to keep the room temperature between  $10^{\circ}$ C and  $15^{\circ}$ C.

#### > Weather - dependent operation

The unit can automatically adjust the operation state according to the temperature range set by the user.

#### > Floor Protection

#### **Under floor heating**

As for under floor heating, the default highest water temperature is  $45^{\circ}$ C so that it will not damage the floor or reduce its lifespan due to superheat. (The highest temperature of outlet water during operation is  $55^{\circ}$ C)

#### **Under floor cooling**

As for under floor cooling, the default lowest outlet temperature is  $18^{\circ}$ C so that it will not produce condensate, which will damage the floor or reduce the lifespan of the floor. (The lowest temperature of outlet water during cooling operation is  $7^{\circ}$ C)





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### **SPECIFICATIONS**

#### 1 Phase system





6kW, 8kW, 10kW

12kW, 14kW, 16kW

#### **Outdoor Unit**

Model			DHW-CQ6.0Pd/ Na-K(0)	DHW-CQ8.0Pd/ Na-K(0)	DHW-CQ10Pd/ Na-K(0)	DHW-CQ12Pd/ Na-K(0)	DHW-CQ14Pd/ Na-K(0)	DHW-CQ16Pd/ Na-K(0)
Capacity <sup>1</sup>	Heating (floor heating)	kW	6.2	8.5	10.0	12.0	13.5	16.0
Capacity	Cooling (floor cooling)	kW	5.5	9.0	10.5	14.0	15.0	15.5
Power input <sup>1</sup>	Heating (floor heating)	kW	1.50	2.10	2.50	2.79	3.21	3.95
rower input	Cooling (floor cooling)	kW	1.60	2.50	3.14	3.68	4.29	4.63
EER <sup>1</sup>	Cooling (floor cooling)		3.40	3.60	3.35	3.80	3.50	3.35
COP <sup>1</sup>	Heating (floor heating)		4.10	4.00	4.00	4.30	4.20	4.05
Capacity <sup>2</sup>	Heating (fan coil or radiator)	kW	5.5	8.0	9.0	11.5	12.5	14.0
Capacity-	Cooling (for fan coil)	kW	4.0	6.5	8.0	10.0	11.0	11.5
Dower input2	Heating (fan coil or radiator)	kW	1.83	2.65	2.90	3.38	3.73	4.59
Power input <sup>2</sup>	Cooling (for fan coil)	kW	1.54	2.50	3.08	3.45	3.93	4.60
EER <sup>2</sup>	Cooling (for fan coil)		2.60	2.60	2.60	2.90	2.80	2.50
COP <sup>2</sup>	Heating (fan coil or radiator)		3.00	3.00	3.10	3.40	3.35	3.05
Power Supply					1-Phase, 220	~240V, 50Hz		
Compressor	Туре		Hermetically sealed swing compressor					
Refrigerant charge	R410A	g	1700	2000	2000	3300	3300	3300
Sanitary water Tem	perature	°C	C 40~80					
Sound pressure	Cooling	dB(A)	57	57	57	57	57	60
level	Heating	dB(A)	59	59	59	59	59	62
Dimensions	WxDxH	mm		921x427x791			950x412x1253	
Weight		Kg	66	69	69	99	99	99
	Gas	mm	12.7	15.9	15.9	15.9	15.9	15.9
Connecting pipe	uds	inch	1/2	5/8	5/8	5/8	5/8	5/8
(refrigerant)	Liquid	mm	6.35	9.52	9.52	9.52	9.52	9.52
	Liquiu	inch	1/4	3/8	3/8	3/8	3/8	3/8



Note:

- 1. Capacities and power inputs are based on the following conditions:
- (1) Cooling conditions Indoor water temperature 23 °C / 18 °C Outdoor air temperature 35 °CDB / 24 °CWB
- (2) Heating conditions Indoor water temperature 30 °C / 35 °C Outdoor air temperature 7 °CDB / 6 °CWB (3) Standard piping length 7.5m
- 2. Capacities and power inputs are based on the following conditions:
- (1) Cooling conditions Indoor water temperature 12  $^{\circ}$ C / 7  $^{\circ}$ C Outdoor air temperature 35 °CDB / 24 °CWB
- (2) Heating conditions Indoor water temperature 40 °C / 45 °C Outdoor air temperature 7 °CDB / 6 °CWB
- (3) Standard piping length 7.5m







### **S Hydro Unit**

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Model		DHW-CQ6.0Pd/ Na-K(I)	DHW-CQ8.0Pd/ Na-K(I)	DHW-CQ10Pd/ Na-K(I)	DHW-CQ12Pd/ Na-K(I)	DHW-CQ14Pd/ Na-K(I)	DHW-CQ16Pd/ Na-K(I)			
Nominal Input (W	/)	3200	6200	6200	6200	6200	6200			
<b>Power Supply (Ph</b>	n/V/Hz)			1-Phase, 220	0-240V, 50Hz					
	Cooling (Fan coil unit) °C	7-25	7-25	7-25	7-25	7-25	7-25			
Leaving water	Cooling (Floor cooling) °C	18-25	18-25	18-25	18-25	18-25	18-25			
temp.	Heating (Fan coil unit) °C		25~55 (High Temperature Cycle)							
	Heating (Floor heating) °C	25~45 (Low Temperature Cycle)								
	Туре	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled			
Pump	Nr. of. speed	3	3	3	3	3	3			
rump	Power input (W)	200	200	200	200	200	200			
	Water flow limit (LPM)	12	12	12	12	12	12			
	Operation	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic			
Electric Heater	Steps	2	2	2	2	2	2			
Electric neater	Capacity (kW)	3	6	6	6	6	6			
	Combination (kW)	1.5+1.5	3+3	3+3	3+3	3+3	3+3			
Sound pressure level (dB(A))		31	31	31	31	31	31			
Dimensions (WxI	OxH) (mm)	900x500x324	900x500x324	900x500x324	900x500x324	900x500x324	900x500x324			
Weight (Kg)		52	52	52	53	53	53			

#### **S Water Tank**

Model		AT200LCJ/A-K	AT300LCJ/A-K	AT200LCJ2/A-K	AT300LCJ2/A-K	
Volume (L)			200	300	200	300
<b>Power Supply</b>	1			1-Phase, 220	D-240V, 50Hz	
<b>Electric Heat</b>	er Power (W	<b>'</b> )	3000	3000	3000	3000
	Outlet	mm	DN15	DN15	DN15	DN15
Cool water inlet pipe	diameter	inch	1/2	1/2	1/2	1/2
illier hihe	Screw Thre	ead spec	1/2" Female BSP	1/2" Female BSP	1/2" Female BSP	1/2" Female BSP
Circulation	Outlet	mm	/	/	DN20	DN20
Water Inlet/	diameter	inch	/	/	3/4	3/4
Outlet Pipe	Screw three	ead spec	/	/	3/4" Female BSP	3/4" Female BSP
Water inlet/	Outlet	mm	DN20	DN20	DN20	DN20
outlet (heat	diameter	inch	3/4	3/4	3/4	3/4
pump) pipe	Screw three	ead spec	3/4" Female BSP	3/4" Female BSP	3/4" Female BSP	3/4" Female BSP
<b>Dimensions</b>	ΦDxH (mn	1)	Ф630Х1620	Φ630X1620	Φ710X1645	Ф710Х1645
Net weight (I	<b>(</b> g)		68	82	71	87









#### 

### **SPECIFICATIONS**

**3 Phase system** 



12kW, 14kW, 16kW

#### **Outdoor Unit**

Model			DHW-CQ12Pd/Na-M(0)	DHW-CQ14Pd/Na-M(0)	DHW-CQ16Pd/Na-M(0)		
Capacity <sup>1</sup>	Heating (floor heating)	kW	12.0	14.0	15.5		
Capacity-	Cooling (floor cooling)	kW	14.0	15.0	15.5		
Power input <sup>1</sup>	Heating (floor heating)	kW	2.67	3.33	3.70		
Power iliput	Cooling (floor cooling)	kW	3.68	4.29	4.43		
EER <sup>1</sup>	Cooling (floor cooling)		3.80	3.50	3.50		
COP <sup>1</sup>	Heating (floor heating)		4.50	4.20	4.00		
Capacity <sup>2</sup>	Heating (fan coil or radiator)	kW	11.0	12.0	14.0		
Сарасіту	Cooling (fan coil)	kW	10.0	10.5	11.0		
Power input <sup>2</sup>	Heating (fan coil or radiator)	kW	3.24	3.58	4.38		
Power input	Cooling (fan coil)	kW	3.45	3.75	4.07		
EER <sup>2</sup>	Cooling (fan coil)		2.90	2.80	2.70		
COP <sup>2</sup>	Heating (fan coil or radiator)		3.40	3.35	3.20		
Power Supply (Ph/	//Hz)		3-Phase, 380-415V, 50Hz				
Compressor	Туре		Hermetically sealed swing compressor				
Refrigerant charge	R410A	g	3.500	3.500	3.500		
<b>Sanitary water Tem</b>	perature	°C	40~80	40~80	40~80		
Sound pressure	Cooling	dB(A)	57	57	60		
level	Heating	dB(A)	59	59	62		
Dimensions	WxDxH	mm	950x412x1253	950x412x1253	950x412x1253		
Weight		Kg	99	99	99		
	Gas	mm	15.9	15.9	15.9		
Connecting pipe	vas	inch	5/8	5/8	5/8		
(refrigerant)	Liquid	mm	9.52	9.52	9.52		
	Liquiu	inch	3/8	3/8	3/8		



Note:

- 1. Capacities and power inputs are based on the following conditions:
- (1) Cooling conditions Indoor water temperature 23 °C / 18 °C Outdoor air temperature 35 °CDB / 24 °CWB
- (2) Heating conditions Indoor water temperature 30 °C / 35 °C Outdoor air temperature 7 °CDB / 6 °CWB (3) Standard piping length 7.5m
- 2. Capacities and power inputs are based on the following conditions:
- (1) Cooling conditions Indoor water temperature 12  $^{\circ}$ C / 7  $^{\circ}$ C Outdoor air temperature 35 °CDB / 24 °CWB (2) Heating conditions
- Indoor water temperature 40 °C / 45 °C Outdoor air temperature 7 °CDB / 6 °CWB
- (3) Standard piping length 7.5m







#### **S Hydro Unit**

9 Hydre								
Model		DHW-CQ12Pd/Na-M(I) DHW-CQ14Pd/Na-M(I)		DHW-CQ16Pd/Na-M(I)				
Nominal Input (V	V)	6200	6200	6200				
<b>Power Supply (P</b>	h/V/Hz)		3-Phase, 380-415V, 50Hz					
	Cooling (Fan coil unit) °C	7-25	7-25	7-25				
Leaving water	Cooling (Floor cooling) °C	18-25	18-25	18-25				
temp.	Heating (Fan coil unit) °C	25~55 (High Temperature Cycle)						
	Heating (Floor heating) °C	25~45 (Low Temperature Cycle)						
	Туре	Water Cooled	Water Cooled	Water Cooled				
Duman	Nr. of. speed	3	3	3				
Pump	Power input (W)	200	200	200				
	Water flow limit (LPM)	12	12	12				
	Operation	Automatic	Automatic	Automatic				
Electric Heater	Steps	1	1	1				
Electric Heater	Capacity (kW)	6.0	6.0	6.0				
	Combination (kW)	6.0	6.0	6.0				
Sound pressure level (dB(A))		31	31	31				
Dimensions (Wx	DxH) (mm)	900x500x324	900x500x324	900x500x324				
Weight (Kg)		53	53	53				

#### **S Water Tank**

Model		AT200LCJ/A-M	AT300LCJ/A-M	AT200LCJ2/A-M	AT300LCJ2/A-M	
Volume (L)			200	300	200	300
<b>Power Supply</b>	(Ph/V/Hz)			3-Phase, 380	0-415V, 50Hz	
<b>Electric Heat</b>	er Power (W)		3.000	3.000	3.000	3.000
	Outlet	mm	DN15	DN15	DN15	DN15
Cool water inlet pipe	diameter	inch	1/2	1/2	1/2	1/2
illier bibe	Screw Threa	d spec	1/2'' Female BSP 1/2'' Female BSP 1/2'' Female BSP		1/2" Female BSP	1/2" Female BSP
Circulation	Outlet	mm	/	/	DN20	DN20
Water Inlet/	diameter	inch	/	/	3/4	3/4
Outlet Pipe	Screw thread	d spec	/		3/4" Female BSP	3/4" Female BSP
Water inlet/	Outlet	mm	DN20	DN20	DN20	DN20
outlet (heat	diameter	inch	3/4	3/4	3/4	3/4
pump) pipe Screw thread spec		d spec	3/4" Female BSP	3/4" Female BSP	3/4" Female BSP	3/4" Female BSP
<b>Dimensions</b>	Dimensions		Ф540Х1595	Φ620X1620 Φ540X1595		Ф620Х1620
Net weight (I	(g)		68	82	71	87







## AIR SOURCE

HEAT PUMP WATER HEATER (R134a)

#### **Solution** Circulating Heat Pump





150L - 300L

> The air is the main energy source and the electric heat is the auxiliary energy. This way the unit produces high temperature hot water which is stored in the water tank and used for family bathing, heating and daily life. It is the most energy saving and environment friendly water heater used in families.

- · High efficiency and energy saving
- Easy Installation and Maintenance
- Comfortable
- Auto cleaning, healthy on every day
- Multipoint water supply and simultaneous water using
- Intelligent water supply and energy saving
- Safe and Reliable



Model	Water-tank
	WT150LC-K
DHW-C3.8/NbA-K	WT200LC-K
	WT250LC-K
DUW CE O /NhA K	WT250LC-K
DHW-C5.0/NbA-K	WT300LC-K

Nominal Testing Condition						
Item	Outdoor	Condition	Water Side Condition			
	DB Temperature(°C)	WB Temperature(°C)	Initial Water Temperature(°C)	Final Water Temperature(°C)		
Water Heating	20	15	15	55		

Operation Range	ltem	Outdoor Condition(DB °C)		
	Water Heating	-15~43		



#### **© Outdoor Unit**

Model		DHW-C3.8/NbA-K	DHW-C5.0/NbA-K
Rated water heating capacity	kW	3.8	5.0
Rated water supply	L/h	82	108
Water temperature	°C	35-70	35-70
Noise	dB(A)	50	52
R134a charged volume	kg	0.70	0.95
Power supply	V/Ph/Hz	220-240	V/1Ph/50Hz
Power input/ Water heating	(kW)	1.02	1.35
COP (Heating)*	W/W	3.72	3.70
Outine dimension (WxDxH)	mm	762x256x750	762x256x750
Package dimension (WxDxH)	mm	881x363x815	881x363x815
Connecting pipes diameter (to water tank)	(Inch)	3/4	3/4
N.W / G.W	Kg	55/61	60/66

### **S Water Tank with Electric Heater**

Water tank model		WT150LC-K	WT200LC-K	WT250LC-K	WT300LC-K		
Tank volume (L)		150	200	250	300		
Power supply (V/Ph/Hz)			220-240V/1Ph/50Hz				
Auxiliary electrical heater power input (kW)		1.5	1.5	1.5	1.5		
Dimension	Outline (Diameter x H) (mm)	520X1.350	540X1.595	540X1.945	620X1.620		
Difficusion	Package (WxDxH) (mm)	1.378X608X625	1.623X628X645	1.973X628X645	1.648X708X725		
Water pipes diameter	Tap water inlet (Inch)	1/2	1/2	1/2	1/2		
water pipes diameter	Hot water outlet (Inch)	1/2	1/2	1/2	1/2		
N.W./G.W (Kg)		45/52	57/66	68/77	71/81		







inventor U.S.A.

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for the compressor and for all parts of the unit



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