

Make Air Treatment More Healthy And Energy Saving

# **HOLTOP**

#### Beijing Holtop Air Conditioning Co., Ltd.

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Factory code: HWY2024081 Marketing code: 202504



#### MAKE AIR TREATMENT MORE HEALTHY AND ENERGY SAVING

Everyone needs to breathe 25,000 times per day, fresh and clean air is essential.

The ultimate pursuit of details, strict requirements for quality.

Pragmatism, Responsibility, Collaboration, Innovation.

Holtop keeps working on providing you with fresh air, clean, intelligent control, comfortable, convenience - integrated clean air solutions. Holtop delivers fresh and clean air, just for you healthy breath!

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#### **ABOUT HOLTOP**



Well-known domestic manufacturer of healthy, comfortable and energy-saving air handling unit.

Annual output of 200,000 units of fresh air, air conditioning and environmental protection equipment.

Won the title of "Zhongguancun and National High-tech Enterprises" and "Specialized, Special, New and Small Giant Enterprises" Accredited for participating in the compilation of many China national standards, with nearly 100 patent.

Obtained ISO9001, ISO14001, ISO45001 management system certification.

Set up sales and service agencies in major cities across China, and won the five-star service certification.

Holtop products are available in over 100 countries and regions, delivering high-quality user experience to hundreds of millions of customers worldwide.





# **DEVELOPMENT HISTORY**

- During SARS period, Holtop overcame difficulties and won the "Outstanding Contribution Award for Combating SARS" issued by Beijing Municipal
- ► Holtop new 30,000 square metre factory in Haidian District, Beijing, was put into
- Holtop was certified by ISO14001.

2005

- Holtop Invited to participate in the compilation of the national standard "Air to Air Energy Recovery
- ► Holtop was designated supplier of air heat recovery devices for Shanghai World Expo, and supported heat recovery fresh air devices for Shandong National Games venues.

2009

► Holtop heat recovery device certified by European Eurovent, laving the foundation for the development of overseas markets.

2011

- ► Holtop participated in compiling the national standard for "Air-to-air heat exchanger unit for unitary ventilation and air conditioning".
- ► Holtop acknowledged as "Zhongguancun High-tech Enterprise"; Holtop signed
- the first overseas large-scale project "Geely Belarus Plant".

2016

Protection Company was recognised as "National High-tech Enterprise"; "Holtop Science and

► Holtop Environmental

Technology Park" was put

2018

air equipment together with Zhong Nanshan Foundation; provided fresh air system for Wuhan Square Cabin Hospital. .....

2020

► Holtop acted against the ► Holtop fresh air ventilators epidemic by donating fresh and air handling units provide 24-hour service to the Olympic Winter Games.



#### 2002

On 27th May, Holtop was founded, and Holtop brand products were put into the market.

#### 2004

► Holtop 5-metre diameter heat recovery wheel put into engineering application.

#### 2006

Device".

► Holtop self-developed heat recovery air handling unit launched and received a good market response.

2007

#### 2008

During the Beijing Olympic Games, 24-hour guarding of the venues Holtop fresh air system, obtained title of "Olympic excellent protection enterprise

#### 2010

► Holtop overseas sales and service agencies quantity reached 18, sales network covering the whole country; Obtained the "National Industrial

Products Production

Licence".

#### 2012

Holtop Successfully signed a contract with Beijing Benz automobile plant project, realising a major breakthrough of air-conditioning products in the automobile industry.

#### 2013

Holtop whole series of fresh air ventilators obtained the "Energy-saving Certification Engineering".

2014

#### 2015

► Holtop Badaling's production base in Yanqing Park of Zhongguancun, Yanging District was put into operation.

#### 2017

- Holtop acknowledged as "National High-tech Enterprise";
- Holtop Forest Oxygen Bar home air conditioning products were released

## 2019

Holtop Self-developed DX heat recovery purification AHU went on sale.

# 2021

► Holtop Company and Holtop Environmental Protection Company were both recognized as "Specialized and New Enterprise" and "Small Giant Enterprise".

2022

#### **CRAFTSMANSHIP**

# **ANNUAL OUTPUT OF 200,000 SETS OF AIR HANDLING UNIT**

Holtop Badaling manufacturing base is located in Yanqing Park, Zhongguancun.

Has international advanced production lines and modern intelligent manufacturing equipment.

Details determine quality, Holtop strive for perfection in every detail, and produce excellent products that meet the quality of Holtop.



Sheet metal workshop



Assembly line for standard ventilation unit



Assembly line of ceiling type air handling unit



Assembly area of combined air handling unit



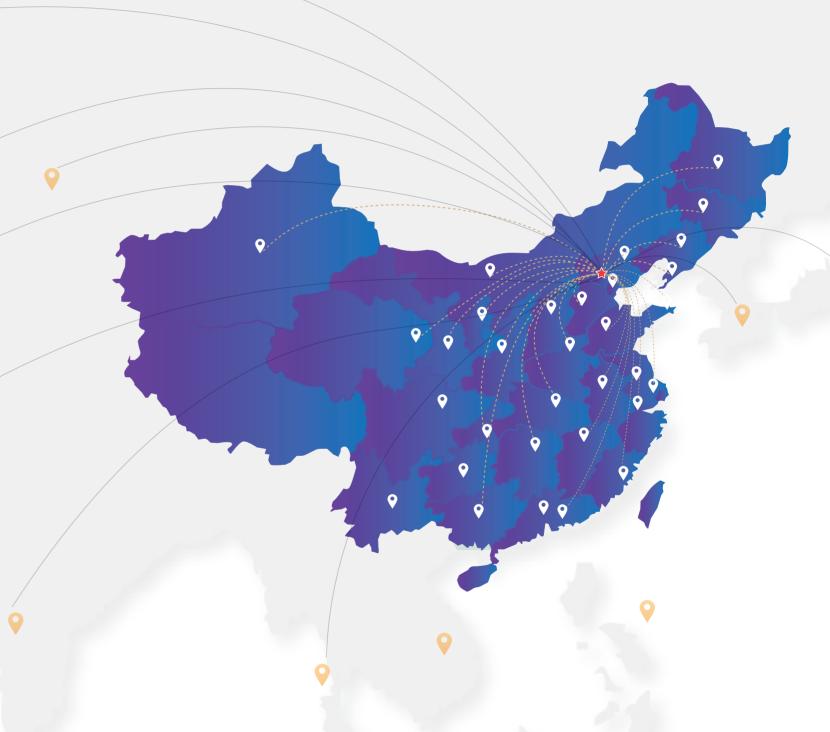
Air conditioning main machine production line

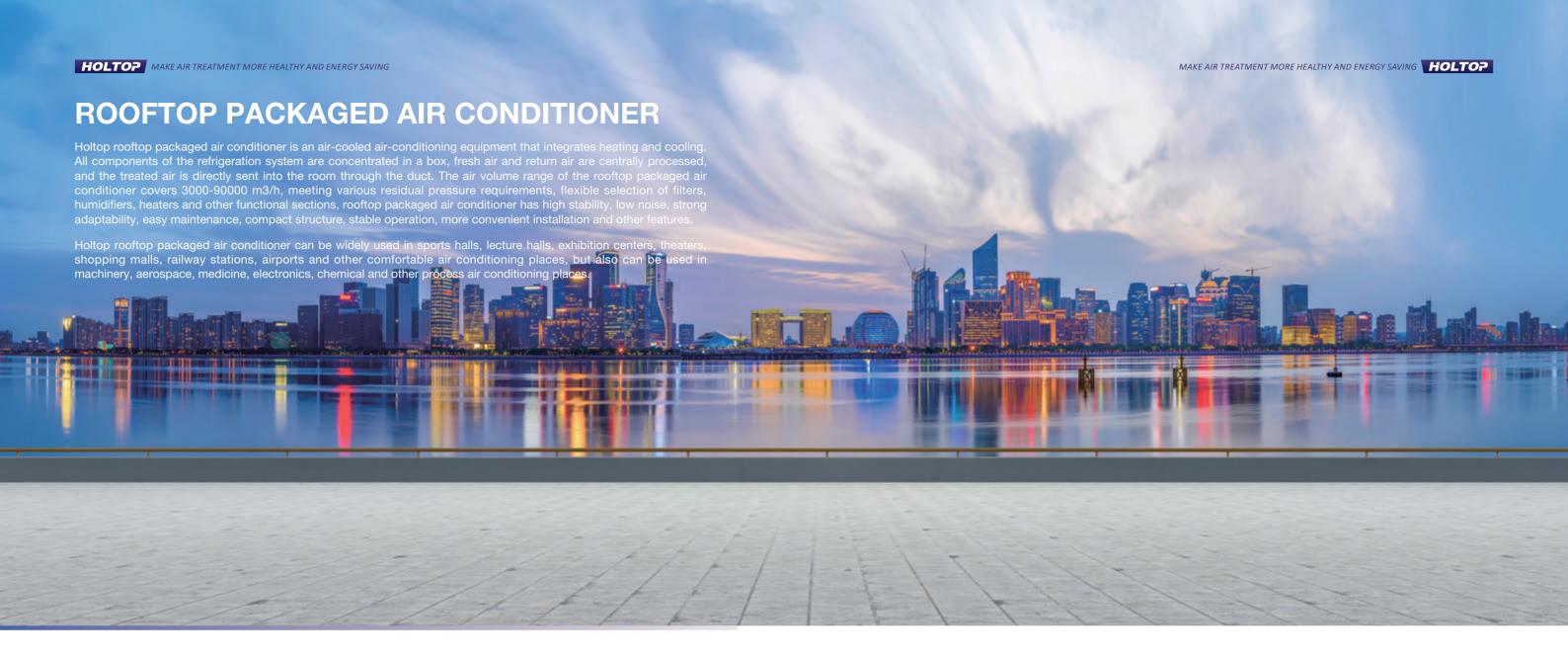


National certified enthalpy laboratory

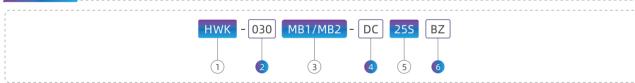


Manufacturing base assembly workshop





# **UNIT CHARACTERISTICS**



- (1) Holtop HWK Series Rooftop Packaged Air Conditioner
- 2 Rated horsepower
- 3 Model: MB1 represents the return air model, MB2 represents the fresh air model
- 4 Type: DC represents the variable frequency unit, and no DC represents the fixed frequency unit
- 5 Frame type: 25S; 50U; 50H
- 6 Model code: BZ represents standard model, without BZ represents non-standard model



Variable Frequency Rooftop Packaged Air Conditioner

Fixed Frequency Rooftop Packaged Air Conditioner

# ROOFTOP PACKAGED AIR CONDITIONER OVERVIEW

Holtop rooftop packaged air conditioner is an air-cooled air-conditioning equipment that integrates heating and cooling, which has high stability, low noise, strong adaptability, easy maintenance, compact structure, stable operation, more convenient installation and other features, and it is widely used in sports halls, lecture halls, exhibition centers, theaters, shopping malls, railway stations, airports and other comfortable air conditioning places, but also can be used in machinery, aerospace, medicine, electronics, chemical and other process air conditioning places.



Adopt high performance compressor, world brand parts, smooth operation.



One-piece package design for quick installation and operation.



Eco-friendly type R410A refrigerant, high efficiency and green.

#### ■ Package and compact design, high functionality and low investment

Compared with other air conditioning systems, the rooftop package unit does not require additional auxiliary facilities (such as cooling towers, circulating water pumps, etc.) to achieve temperature and humidity regulation of the indoor environment, shorten the construction period, and save initial construction investment.



#### ■ Easy & flexible installation

- 1. Holtop rooftop packaged air conditioner could be placed outdoor on the ground or the roof deck, no required machine room. After connecting with the supply air and return air ducts, the system construction is completed. It is easy to install and saves indoor space.
- 2. Only a few works for power cabling, control wiring, ducting are needed before system operation.



#### ■ Intelligent control, easy to use

The unit intelligent controls the system through advanced control logic, and the controller automatically adjusts the operation of the equipment according to the temperature and humidity and other related parameters to meet the working conditions of the indoor environment. The intelligent control system can realize various functions such as temperature and humidity control, parameter setting, status display, various protection settings, alarm display, etc. One key to turn on the machine, that is, to turn on and use.

## **PRODUCT FEATURES**

# Axial fan ----Strong torque and low noise, large airflow and excellent heat exchange efficiency.

#### World class compressor for reliable performance

Adopting a well-known brand high efficiency scroll compressor, which is more reliable than reciprocating compressors with the same capacity. Compressor suction and cooling, higher working efficiency and longer service life.

# High efficiency and energy saving motor

Efficiently bringing down the losses from electromagnetic energy, heat and mechanical energy, increasing operational efficiency with less heat generation and longer service life.



# HOLTOP

#### High efficiency heat exchanger

The evaporator is made of blue color hydrophilic aluminum foil, low-pressure loss louvered fin, and internal groove tube combine together perfectly, this design is able to significantly increase the heat exchange efficiency.

# Safe electrical control system

Approved by different safety tests and equipped with various protection measurements, which is able to operate under temperature from -10°C to 50°C.

Smooth internal side, small disturbance at heat transfer boundary layer, low heat exchange efficiency.



Common copper tube



High gear and high internal groove copper tube

0 0 0

ø7.94mm diameter louvered fin coated with the hydrophilic film, under the same heat exchange area, the efficiency is 25% more than regular louvered fin.

Expand internal surface area, raise the disturbance at the heat

transfer boundary layer, and

increase heat exchange

ø9.52mm diameter aluminum fin with small louver area, heat exchange efficiency is smaller under same heat exchange

Regular louvered fin

Low pressure loss louvered fin

**09** | Rooftop Packaged Air Conditioner

# ROOFTOP PACKAGED AIR CONDITIONER OVERVIEW

#### ■ Wide temperature range operation

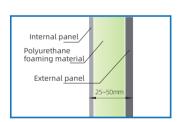
Cooling mode is still able to work normally when outdoor environment temperature is as low as 15°C, to satisfy the special cooling demand in some certain applications. Heating is available even the outdoor temperature is as low as -10°C.





#### ■ Sturdy & durable for all outdoor conditions

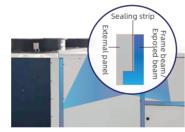
The unit structural components are powder coated for anti-corrosion. High-strength thermal-insulated framework,double-skin PU sandwich panel, and weather-proof structure design particularly for outdoor installation, that are all ensuring its excellent adaptation to various of climate conditions in different areas.



Double-skin PU sandwich panel



High-strength thermal-insulated framework



Weather-proof structure design

#### ■ Powerful air handling function

The unit features a high static pressure design with a broad pressure range and robust adaptability, allowing for flexible configuration to meet various spatial requirements. This facilitates long-distance, comprehensive airflow distribution, effectively preventing uneven temperature distribution. Furthermore, the unit can be customized with a variety of functional modules to cater to specific user needs.



	Model	HWK-010MB1-25S-BZ	HWK-012MB1-25S-BZ	HWK-015MB1-25S-BZ	HWK-018MB1-25S-BZ					
Supply	y airflow (m³/h)	5800	6500	8000	8500					
Е	E.R.P (Pa)	400	350	450	400					
N	oise dB(A)	83	84	82	81					
Material External panel		RAL9003 Color coated steel (white)/0.4								
Material	Internal panel	Galvanized steel/0.4								
F	ilter type	Plate filter								
F	Filter class G3 + G2									
Sup	Supply fan type Belt drive									
Supply	fan power/pole	2.2kW-4P	3kW-4P	3kW-4P	3kW-4P					
R	Refrigerant		R4°	10A						
Cooling	g capacity (kW)	25.5	30	35.4	42					
Heating	g capacity (kW)	30.7	33.6	38.3	48.2					
[	Drain tray	Spray cold panel/ DN32								
Se	ervice door		Detachab	ole door*2						
Po	ower supply		AC380V	//3/50Hz						
otal rated	cooling power (kW)	10.9	11.9	15.15	17.4					
Dimensio	on (L×W×H) (mm)	1940*1540*1240	2040*1540*1240	2240*1640*1340	2240*1740*1340					
Ir	nstallation	Outdoor with rain cover								
Tra	Insportation		Compl	Complete unit						
V	Veight (kg)	700	740	800	930					
	Model	HWK-030MB1-25S-BZ	HWK-020MB1-25S-BZ	HWK-024MB1-25S-BZ	HWK-036MB1-25S-BZ					
Supply	y airflow (m³/h)	15000	10500	12000	18000					
Е	E.R.P (Pa)	400	450	600	650					
N	oise dB(A)	86	83	86	86					
Material	External panel		RAL9003 Color coa	ted steel (white)/0.4						
ivialeriai	Internal panel	Galvanized steel/0.4								
F	Filter type		Plate	efilter						
F	ilter class	G3 + G2		G4						
Sup	oply fan type		Belt	drive						
Supply	fan power/pole	5.5kW-4P	4kW-4P	5.5kW-4P	7.5kW-4P					
R	Refrigerant		R4	10A						
Refrigerant  Cooling capacity (kW)		73	51	60	84					
Cooling	g capacity (KTT)				84					
	g capacity (kW)	78	61.4	67.2	96.4					

Detachable door\*2

AC380V/3/50Hz

Outdoor with rain cover

Complete unit

24.9

2482\*2040\*1840

1350

36.3

2948\*2240\*1840

1660

21.4

2382\*2040\*1840

1250

Rooftop Packaged Air Conditioner | 12 11 | Rooftop Packaged Air Conditioner

Service door

Power supply

Total rated cooling power (kW)

Dimension (L×W×H) (mm)

Installation

Transportation

Weight (kg)

29.8

2840\*2040\*1440

1350



## FIXED FREQUENCY ROOFTOP PACKAGED AIR CONDITIONER PARAMETERS

Supply airflow (m³/h)   20000   23000   33000   40000     E.R.P (Pa)   450   600   600   650     Noise dB(A)   85   89   88   89     Material   External panel   RAL9003 Color coated steel (white)/0.4     Internal panel   Galvanized steel/0.4     Filter type   Plate filter	
Noise dB(A)         85         89         88         89           Material Material         External panel Internal panel         RAL9003 Color coated steel (white)/0.4         Accepted Supply for Supply fair type         Plate filter           Filter type         Plate filter         G4         Supply fan type         Belt drive           Supply fan type         Belt drive         Belt drive         15kW-4P         18.5kW-4P           Refrigerant         R410A         R410A         196         197         196         196 <td< td=""></td<>	
External panel   RAL9003 Color coated steel (white)/0.4	
Internal panel   Galvanized steel/0.4	
Internal panel   Galvanized steel/0.4	
Filter class   G4	
Supply fan type         Belt drive           Supply fan power/pole         7.5kW-4P         11kW-4P         15kW-4P         18.5kW-4P           Refrigerant         R410A         R410A           Cooling capacity (kW)         98.5         115         146         196           Heating capacity (kW)         108.7         126.2         156         217.4           Drain tray         Spray cold panel/ DN32         Spray cold panel/ DN40           Service door         Detachable door*2           Power supply         AC380V/3/50Hz           Total rated cooling power (kW)         41.4         49.7         63.6         86.3           Dimension (LxWxH) (mm)         3128*2340*2040         3700*2540*2040         5125*2240*2240         6295*2640*2240           Installation         Outdoor with rain cover         Complete unit           Weight (kg)         1880         2280         2500         3800           Model         HWK-100MB1-25S-BZ         HWK-120MB1-25S-BZ         HWK-150MB1-25S-BZ         HWK-180MB1-25S-BZ           Supply airflow (m³/h)         50000         60000         75000         90000           E.R.P (Pa)         650         700         750         800           Noise dB(A)         91<	
Supply fan power/pole   7.5kW-4P	
Refrigerant         R410A           Cooling capacity (kW)         98.5         115         146         196           Heating capacity (kW)         108.7         126.2         156         217.4           Drain tray         Spray cold panel/ DN32         Spray cold panel/ DN40           Service door         Detachable door*2           Power supply         AC380V/3/50Hz           Total rated cooling power (kW)         41.4         49.7         63.6         86.3           Dimension (L×W×H) (mm)         3128*2340*2040         3700*2540*2040         5125*2240*2240         6295*2640*2240           Installation         Outdoor with rain cover           Transportation         Complete unit           Weight (kg)         1880         2280         2500         3800           Model         HWK-100MB1-25S-BZ         HWK-120MB1-25S-BZ         HWK-150MB1-25S-BZ         HWK-180MB1-25S-BZ           Supply airflow (m³/h)         50000         60000         75000         90000           E.R.P (Pa)         650         700         750         800           Noise dB(A)         91         91         92         95           RAL9003 Color coated steel (white)/0.4 <td colsp<="" td=""></td>	
Cooling capacity (kW)         98.5         115         146         196           Heating capacity (kW)         108.7         126.2         156         217.4           Drain tray         Spray cold panel/ DN32         Spray cold panel/ DN40           Service door         Detachable door*2           Power supply         AC380V/3/50Hz           Total rated cooling power (kW)         41.4         49.7         63.6         86.3           Dimension (LxWxH) (mm)         3128*2340*2040         3700*2540*2040         5125*2240*2240         6295*2640*2240           Installation         Outdoor with rain cover           Transportation         Complete unit           Weight (kg)         1880         2280         2500         3800           Model         HWK-100MB1-25S-BZ         HWK-120MB1-25S-BZ         HWK-150MB1-25S-BZ         HWK-180MB1-25S-BZ           Supply airflow (m³/h)         50000         60000         75000         90000           E.R.P (Pa)         650         700         750         800           Noise dB(A)         91         91         92         95           RAL9003 Color coated steel (white)/0.4           Internal panel         Galvanized steel/0.4	
Heating capacity (kW)   108.7   126.2   156   217.4	
Drain tray         Spray cold panel/ DN32         Spray cold panel/ DN40           Service door         Detachable door*2           Power supply         AC380V/3/50Hz           Total rated cooling power (kW)         41.4         49.7         63.6         86.3           Dimension (L×W×H) (mm)         3128*2340*2040         3700*2540*2040         5125*2240*2240         6295*2640*2240           Installation         Outdoor with rain cover           Transportation         Complete unit           Weight (kg)         1880         2280         2500         3800           Model         HWK-100MB1-25S-BZ         HWK-120MB1-25S-BZ         HWK-150MB1-25S-BZ         HWK-180MB1-25S-B           Supply airflow (m³/h)         50000         60000         75000         90000           E.R.P (Pa)         650         700         750         800           Noise dB(A)         91         91         92         95           Material         External panel         RAL9003 Color coated steel (white)/0.4           Internal panel         Galvanized steel/0.4	
Service door	
Power supply         AC380V/3/50Hz           Total rated cooling power (kW)         41.4         49.7         63.6         86.3           Dimension (L×W×H) (mm)         3128*2340*2040         3700*2540*2040         5125*2240*2240         6295*2640*2240           Installation         Outdoor with rain cover           Transportation         Complete unit           Weight (kg)         1880         2280         2500         3800           Model         HWK-100MB1-25S-BZ         HWK-120MB1-25S-BZ         HWK-150MB1-25S-BZ         HWK-180MB1-25S-BZ           Supply airflow (m³/h)         50000         60000         75000         90000           E.R.P (Pa)         650         700         750         800           Noise dB(A)         91         91         92         95           Material         External panel           Internal panel         Galvanized steel/0.4	
Total rated cooling power (kW)         41.4         49.7         63.6         86.3           Dimension (L×W×H) (mm)         3128*2340*2040         3700*2540*2040         5125*2240*2240         6295*2640*2240           Installation         Outdoor with rain cover           Transportation         Complete unit           Weight (kg)         1880         2280         2500         3800           Model         HWK-100MB1-25S-BZ         HWK-120MB1-25S-BZ         HWK-150MB1-25S-BZ         HWK-180MB1-25S-BZ           Supply airflow (m³/h)         50000         60000         75000         90000           E.R.P (Pa)         650         700         750         800           Noise dB(A)         91         91         92         95           Material         External panel         RAL9003 Color coated steel (white)/0.4           Internal panel         Galvanized steel/0.4	
Dimension (L×W×H) (mm)         3128*2340*2040         3700*2540*2040         5125*2240*2240         6295*2640*2240           Installation         Outdoor with rain cover           Transportation         Complete unit           Weight (kg)         1880         2280         2500         3800           Model         HWK-100MB1-25S-BZ         HWK-120MB1-25S-BZ         HWK-150MB1-25S-BZ         HWK-180MB1-25S-BZ           Supply airflow (m³/h)         50000         60000         75000         90000           E.R.P (Pa)         650         700         750         800           Noise dB(A)         91         91         92         95           Material         External panel         RAL9003 Color coated steel (white)/0.4           Internal panel         Galvanized steel/0.4	
Installation	
Transportation         Complete unit           Weight (kg)         1880         2280         2500         3800           Model         HWK-100MB1-25S-BZ         HWK-120MB1-25S-BZ         HWK-150MB1-25S-BZ         HWK-180MB1-25S-BZ           Supply airflow (m³/h)         50000         60000         75000         90000           E.R.P (Pa)         650         700         750         800           Noise dB(A)         91         91         92         95           Material         External panel         RAL9003 Color coated steel (white)/0.4           Internal panel         Galvanized steel/0.4	
Weight (kg)         1880         2280         2500         3800           Model         HWK-100MB1-25S-BZ         HWK-120MB1-25S-BZ         HWK-150MB1-25S-BZ         HWK-180MB1-25S-BZ           Supply airflow (m³/h)         50000         60000         75000         90000           E.R.P (Pa)         650         700         750         800           Noise dB(A)         91         91         92         95           Material         External panel         RAL9003 Color coated steel (white)/0.4           Internal panel         Galvanized steel/0.4	
Model         HWK-100MB1-25S-BZ         HWK-120MB1-25S-BZ         HWK-150MB1-25S-BZ         HWK-180MB1-25S-BZ           Supply airflow (m³/h)         50000         60000         75000         90000           E.R.P (Pa)         650         700         750         800           Noise dB(A)         91         91         92         95           Material         External panel         RAL9003 Color coated steel (white)/0.4           Internal panel         Galvanized steel/0.4	
Supply airflow (m³/h)         50000         60000         75000         90000           E.R.P (Pa)         650         700         750         800           Noise dB(A)         91         91         92         95           Material         External panel         RAL9003 Color coated steel (white)/0.4           Internal panel         Galvanized steel/0.4	
E.R.P (Pa)         650         700         750         800           Noise dB(A)         91         91         92         95           Material         External panel         RAL9003 Color coated steel (white)/0.4           Internal panel         Galvanized steel/0.4	
Noise dB(A)         91         91         92         95           Material         External panel         RAL9003 Color coated steel (white)/0.4           Internal panel         Galvanized steel/0.4	
Material External panel RAL9003 Color coated steel (white)/0.4  Internal panel Galvanized steel/0.4	
Material Internal panel Galvanized steel/0.4	
Internal panel Galvanized steel/0.4	
Filter type Plate filter	
Trace titles	
Filter class G4	
Supply fan type Belt drive	
Supply fan power/pole         22kW-6P         30kW-6P         37kW-6P         55kW-6P	
Refrigerant R410A	
Cooling capacity (kW) 244 292 365 438	
Heating capacity (kW) 264.7 312 390 468	
Drain tray Spray cold panel/ DN40	
Service door Detachable door*2	
Power supply AC380V/3/50Hz	
Power supply         AC380V/3/50Hz           Total rated cooling power (kW)         104.5         130.8         165.7         206.2	
Total rated cooling power (kW) 104.5 130.8 165.7 206.2	
Total rated cooling power (kW) 104.5 130.8 165.7 206.2  Dimension (L×W×H) (mm) 6950*3090*2490 7600*3090*2790 9900*3720*2840 10100*3720*2840	

## FIXED FREQUENCY ROOFTOP PACKAGED FRESH AIR UNIT PARAMETERS

	Model	HWK-010MB2-25S-BZ	HWK-012MB2-25S-BZ	HWK-015MB2-25S-BZ	HWK-018MB2-25S-BZ					
Supply	/ airflow (m³/h)	3000	4000	5000	6000					
Е	.R.P (Pa)	390	435	468	370					
Noise dB(A)		80	84 81		85					
Material	External panel		RAL9003 Color coated steel (white)/0.4							
Material	Internal panel	Galvanized steel/0.4								
F	ilter type	Plate filter								
Filter class G3				3						
Sup	ply fan type		Belt drive							
Supply	fan power/pole	1.5kW-4P	2.2kW-4P	2.2kW-4P	2.2kW-4P					
Re	efrigerant		R4	10A						
Cooling	g capacity (kW)	26	29.6	34.8	43.2					
Heating	g capacity (kW)	28	32.6	38.8	44					
	Orain tray		Spray cold p	panel/ DN32						
Se	rvice door		Detachab	le door*2						
Pov	wer supply		AC380V	/3/50Hz						
Total rated cooling power (kW)		9.8	11.9	10.2	16.6					
Dimension (L×W×H) (mm)		1940*1540*1240	2040*1540*1240	2240*1640*1340	2240*1740*1340					
In	stallation		Outdoor wit	h rain cover						
Transportation		Complete unit 790 890								
Weight (kg)		695	890							
	• . •/									
	Model	HWK-030MB2-25S-BZ	HWK-020MB2-25S-BZ	HWK-024MB2-25S-BZ	HWK-036MB2-25S-BZ					
	Model  / airflow (m³/h)	HWK-030MB2-25S-BZ	HWK-020MB2-25S-BZ 7000	HWK-024MB2-25S-BZ	HWK-036MB2-25S-BZ					
Supply										
Supply	/ airflow (m³/h)	10000	7000	8000	11500					
Supply E No	/ airflow (m³/h) i.R.P (Pa)	10000 515	7000 450	8000 500 84	11500 400					
Supply	v airflow (m³/h) i.R.P (Pa) pise dB(A)	10000 515	7000 450 82 RAL9003 Color coa	8000 500 84	11500 400					
Supply E No	/ airflow (m³/h)  i.R.P (Pa)  bise dB(A)  External panel	10000 515	7000 450 82 RAL9003 Color coa Galvanize	8000 500 84 ted steel (white)/0.4	11500 400					
Supply E No Material	v airflow (m³/h)  i.R.P (Pa)  bise dB(A)  External panel  Internal panel	10000 515	7000 450 82 RAL9003 Color coa Galvanize	8000 500 84 ted steel (white)/0.4 d steel/0.4	11500 400					
Supply E No Material Fi	/ airflow (m³/h)  i.R.P (Pa)  bise dB(A)  External panel  Internal panel  iiter type	10000 515 83	7000 450 82 RAL9003 Color coa Galvanized	8000 500 84 ted steel (white)/0.4 d steel/0.4 filter G3	11500 400 83					
Supply  E  No  Material  F  Fi  Supply	/ airflow (m³/h)  E.R.P (Pa)  Dise dB(A)  External panel  Internal panel  iilter type  iilter class	10000 515 83	7000 450 82 RAL9003 Color coa Galvanized Plate	8000 500 84 ted steel (white)/0.4 d steel/0.4 filter G3	11500 400 83					
Supply  E  No  Material  F  Sup  Supply  Re	/ airflow (m³/h)  E.R.P (Pa)  Dise dB(A)  External panel Internal panel Eiter type Eiter class Ply fan type Efan power/pole Efrigerant	10000 515 83 G3 4kW-4P	7000 450 82 RAL9003 Color coa Galvanize Plate G3 Belt	8000 500 84 ted steel (white)/0.4 d steel/0.4 filter G3 drive 4kW-4P	11500 400 83 G4 4kW-4P					
Supply  E  Not  Material  F  Sup  Supply  Re  Cooling	/ airflow (m³/h)  i.R.P (Pa)  bise dB(A)  External panel Internal panel iiter type iiter class ply fan type fan power/pole efrigerant g capacity (kW)	10000 515 83 G3	7000 450 82 RAL9003 Color coa Galvanize Plate G3 Belt 3kW-4P R4	8000 500 84 ted steel (white)/0.4 d steel/0.4 filter G3 drive 4kW-4P	11500 400 83					
Supply  E  Not  Material  Fi  Supply  Re  Cooling  Heating	/ airflow (m³/h)  E.R.P (Pa)  Dise dB(A)  External panel Internal panel Eiter type Eiter class Ply fan type Efan power/pole Efrigerant Eg capacity (kW) External panel External panel External panel Eiter type Eiter class External panel External panel Eiter type Eiter class External panel External panel Eiter type External panel Eiter type External panel External pa	10000 515 83 G3 4kW-4P	7000 450 82 RAL9003 Color coa Galvanize Plate G3 Belt 3kW-4P R4 56 52	8000 500 84 ted steel (white)/0.4 d steel/0.4 filter G3 drive 4kW-4P 10A 65.2 59.2	11500 400 83 G4 4kW-4P					
Supply  E  Not  Material  Fi  Supply  Re  Cooling  Heating	/ airflow (m³/h)  i.R.P (Pa)  bise dB(A)  External panel Internal panel iiter type iiter class ply fan type fan power/pole efrigerant g capacity (kW)	10000 515 83 G3 4kW-4P	7000 450 82 RAL9003 Color coa Galvanize Plate G3 Belt 3kW-4P R4	8000 500 84 ted steel (white)/0.4 d steel/0.4 filter G3 drive 4kW-4P 10A 65.2 59.2	11500 400 83 G4 4kW-4P					
Supply  E  Not  Material  F  Sup  Supply  Rot  Cooling  Heating	/ airflow (m³/h)  i.R.P (Pa)  bise dB(A)  External panel Internal panel iilter type iilter class ply fan type fan power/pole efrigerant g capacity (kW) g capacity (kW)  Orain tray	10000 515 83 G3 4kW-4P	7000 450 82 RAL9003 Color coa Galvanize Plate G3 Belt 3kW-4P R4 56 52 Spray cold p	8000 500 84 ted steel (white)/0.4 d steel/0.4 filter G3 drive 4kW-4P 10A 65.2 59.2 banel/ DN32 ble door*2	11500 400 83 G4 4kW-4P					
Supply  E  No  Material  F  Sup  Supply  Ro  Cooling  Heating	/ airflow (m³/h)  E.R.P (Pa)  Dise dB(A)  External panel Internal panel iilter type iilter class ply fan type fan power/pole efrigerant g capacity (kW) g capacity (kW) Drain tray ervice door wer supply	10000 515 83 G3 4kW-4P 72.4 77.1	7000 450 82 RAL9003 Color coa Galvanizer Plate G3 Belt 3kW-4P R4 56 52 Spray cold p Detachab	8000 500 84 ted steel (white)/0.4 d steel/0.4 filter G3 drive 4kW-4P 10A 65.2 59.2 banel/ DN32 ble door*2 //3/50Hz	11500 400 83 G4 4kW-4P 88 86.4					
Supply  E  Notal  Material  Fi  Sup  Supply  Re  Cooling  Heating  D  Se  Pool  Total rated	v airflow (m³/h) i.R.P (Pa) bise dB(A)  External panel Internal panel iiter type iiter class ply fan type fan power/pole efrigerant g capacity (kW) capacity (kW) crain tray ervice door wer supply cooling power (kW)	10000 515 83 G3 4kW-4P 72.4 77.1	7000 450 82 RAL9003 Color coa Galvanize Plate G3 Belt 3kW-4P R4 56 52 Spray cold p Detachab AC380V	8000 500 84 ted steel (white)/0.4 d steel/0.4 filter G3 drive 4kW-4P 10A 65.2 59.2 banel/ DN32 ble door*2 //3/50Hz 23.4	11500 400 83 G4 4kW-4P 88 86.4					
Supply  E  Not  Material  F  Sup  Supply  Re  Cooling  Heating  D  Se  Pou  Total rated of Dimension	/ airflow (m³/h)  i.R.P (Pa)  bise dB(A)  External panel Internal panel iilter type iilter class ply fan type fan power/pole efrigerant g capacity (kW) g capacity (kW)  orain tray ervice door wer supply cooling power (kW) on (L×W×H) (mm)	10000 515 83 G3 4kW-4P 72.4 77.1	7000 450 82 RAL9003 Color coa Galvanize Plate G3 Belt 3kW-4P R4 56 52 Spray cold p Detachab AC380V 20.4 2382*2040*1840	8000 500 84 ted steel (white)/0.4 d steel/0.4 filter G3 drive 4kW-4P 10A 65.2 59.2 banel/ DN32 ble door*2 //3/50Hz 23.4 2482*1940*1840	11500 400 83 G4 4kW-4P 88 86.4					
Supply  E  Not  Material  Fi  Sup  Supply  Re  Cooling  Heating  Dimensio	r airflow (m³/h) i.R.P (Pa) bise dB(A)  External panel Internal panel iilter type iilter class ply fan type fan power/pole efrigerant g capacity (kW) g capacity (kW) brain tray ervice door wer supply cooling power (kW) on (L×W×H) (mm) istallation	10000 515 83 G3 4kW-4P 72.4 77.1	7000 450 82 RAL9003 Color coa Galvanize Plate G3 Belt 3kW-4P R4 56 52 Spray cold p Detachab AC380V 20.4 2382*2040*1840 Outdoor wit	8000 500 84 ted steel (white)/0.4 d steel/0.4 filter G3 drive 4kW-4P 10A 65.2 59.2 banel/ DN32 ble door*2 //3/50Hz 23.4 2482*1940*1840 h rain cover	11500 400 83 G4 4kW-4P 88 86.4					
Supply  E  Notation  Material  Fi  Sup  Supply  Rot  Cooling  Heating  Dimension  In  Trai	/ airflow (m³/h)  i.R.P (Pa)  bise dB(A)  External panel Internal panel iilter type iilter class ply fan type fan power/pole efrigerant g capacity (kW) g capacity (kW)  orain tray ervice door wer supply cooling power (kW) on (L×W×H) (mm)	10000 515 83 G3 4kW-4P 72.4 77.1	7000 450 82 RAL9003 Color coa Galvanize Plate G3 Belt 3kW-4P R4 56 52 Spray cold p Detachab AC380V 20.4 2382*2040*1840 Outdoor wit	8000 500 84 ted steel (white)/0.4 d steel/0.4 filter G3 drive 4kW-4P 10A 65.2 59.2 banel/ DN32 ble door*2 //3/50Hz 23.4 2482*1940*1840	11500 400 83 G4 4kW-4P 88 86.4					



## FIXED FREQUENCY ROOFTOP PACKAGED FRESH AIR UNIT PARAMETERS

	Model	HWK-040MB2-25S-BZ	HWK-048MB2-25S-BZ	HWK-060MB2-25S-BZ	HWK-080MB2-25S-BZ				
Supply	y airflow (m³/h)	14000	16000	20000	27500				
Е	E.R.P (Pa)	450	400	600	650				
N	oise dB(A)	84	85	86	88				
Material	External panel	RAL9003 Color coated steel (white)/0.4							
iviateriai	Internal panel	Galvanized steel/0.4							
F	ilter type	Plate filter							
F	ilter class		G	G4					
Sup	Supply fan type Belt drive								
Supply	fan power/pole	5.5kW-4P	5.5kW-4P	11kW-4P	15kW-4P				
R	Refrigerant		R4	10A					
Cooling	g capacity (kW)	106	122	156	212				
Heating capacity (kW)		100.3	117.5	148.6	200.6				
Г	Orain tray	Spray cold p	panel/ DN32	Spray cold	panel/ DN40				
Se	ervice door		Detachab	ole door*2					
Po	wer supply	AC380V/3/50Hz							
Total rated cooling power (kW)		39.4	44.2	59.6	82.8				
Dimension (L×W×H) (mm)		3128*2340*2040	3700*2240*2040	4925*2240*2240	5895*2240*2240				
Ir	nstallation		Outdoor wit	h rain cover					
Tra	nsportation	Complete unit							
Weight (kg)		1770 2000 2400		2400	3200				
	Model	HWK-100MB2-25S-BZ	HWK-120MB2-25S-BZ	HWK-150MB2-25S-BZ	HWK-180MB2-25S-BZ				
Supply	Model y airflow (m³/h)	HWK-100MB2-25S-BZ 34000	HWK-120MB2-25S-BZ 40000	HWK-150MB2-25S-BZ 50000	HWK-180MB2-25S-BZ				
Е	y airflow (m³/h)	34000	40000	50000	60000				
E	y airflow (m³/h) E.R.P (Pa)	34000 750	40000 750 90	50000 650	60000 700				
Е	y airflow (m³/h) E.R.P (Pa) oise dB(A)	34000 750	40000 750 90 RAL9003 Color coa	50000 650 91	60000 700				
No.	y airflow (m³/h)  E.R.P (Pa)  oise dB(A)  External panel	34000 750	40000 750 90 RAL9003 Color coa Galvanize	50000 650 91 ted steel (white)/0.4	60000 700				
Noterial F	y airflow (m³/h)  E.R.P (Pa)  oise dB(A)  External panel  Internal panel	34000 750	40000 750 90 RAL9003 Color coa Galvanizee Plate	50000 650 91 ted steel (white)/0.4 d steel/0.4	60000 700				
Material F	y airflow (m³/h)  E.R.P (Pa)  oise dB(A)  External panel  Internal panel	34000 750	40000 750 90 RAL9003 Color coa Galvanized Plate	50000 650 91 ted steel (white)/0.4 d steel/0.4	60000 700				
Material  F  Sup	y airflow (m³/h)  E.R.P (Pa)  oise dB(A)  External panel  Internal panel  Filter type  filter class	34000 750	40000 750 90 RAL9003 Color coa Galvanized Plate	50000 650 91 ted steel (white)/0.4 d steel/0.4 filter	60000 700				
Material  F Supply	y airflow (m³/h)  E.R.P (Pa)  oise dB(A)  External panel  Internal panel  Filter type  Gilter class  oply fan type	34000 750 89	40000 750 90 RAL9003 Color coa Galvanized Plate G Belt 18.5kW-4P	50000 650 91 ted steel (white)/0.4 d steel/0.4 filter 4	60000 700 91				
Material  F Sup Supply	y airflow (m³/h) E.R.P (Pa) oise dB(A) External panel Internal panel Filter type Filter class oply fan type fan power/pole	34000 750 89	40000 750 90 RAL9003 Color coa Galvanized Plate G Belt 18.5kW-4P	50000 650 91 ted steel (white)/0.4 d steel/0.4 filter 64 drive 22kW-6P	60000 700 91				
Material  F  Sup Supply  R  Cooling	y airflow (m³/h) E.R.P (Pa) oise dB(A) External panel Internal panel Filter type Filter class oply fan type fan power/pole Refrigerant	34000 750 89 18.5kW-4P	40000 750 90 RAL9003 Color coa Galvanizer Plate G Belt 18.5kW-4P	50000 650 91 ted steel (white)/0.4 d steel/0.4 filter 4 drive 22kW-6P	60000 700 91				
Material  F Sup Supply R Cooling	y airflow (m³/h) E.R.P (Pa) oise dB(A) External panel Internal panel Filter type Filter class oply fan type fan power/pole Refrigerant g capacity (kW)	34000 750 89 18.5kW-4P	40000 750 90 RAL9003 Color coa Galvanized Plate G Belt 18.5kW-4P R4	50000 650 91 ted steel (white)/0.4 d steel/0.4 filter 64 drive 22kW-6P 10A 362 386	60000 700 91 30kW-6P				
Material  F  Supply  R  Cooling	y airflow (m³/h) E.R.P (Pa) oise dB(A) External panel Internal panel Filter type Filter class oply fan type fan power/pole defrigerant g capacity (kW) g capacity (kW)	34000 750 89 18.5kW-4P	40000 750 90 RAL9003 Color coa Galvanized Plate G Belt 18.5kW-4P R4 312 297.2 Spray cold p	50000 650 91 ted steel (white)/0.4 d steel/0.4 filter 64 drive 22kW-6P 10A 362 386	60000 700 91 30kW-6P				
Material  F Sup Supply R Cooling Heating	y airflow (m³/h) E.R.P (Pa) oise dB(A) External panel Internal panel Filter type Filter class oply fan type fan power/pole defrigerant g capacity (kW) g capacity (kW) Drain tray	34000 750 89 18.5kW-4P	40000 750 90 RAL9003 Color coa Galvanize Plate G Belt 18.5kW-4P R4: 312 297.2 Spray cold p Detachab	50000 650 91 ted steel (white)/0.4 d steel/0.4 filter 64 drive 22kW-6P 10A 362 386 banel/ DN40	60000 700 91 30kW-6P				
Material  F Sup Supply R Cooling Heating	y airflow (m³/h) E.R.P (Pa) oise dB(A) External panel Internal panel Filter type Filter class oply fan type fan power/pole Refrigerant g capacity (kW) g capacity (kW) Drain tray	34000 750 89 18.5kW-4P	40000 750 90 RAL9003 Color coa Galvanize Plate G Belt 18.5kW-4P R4: 312 297.2 Spray cold p Detachab	50000 650 91 ted steel (white)/0.4 d steel/0.4 filter 64 drive 22kW-6P 10A 362 386 panel/ DN40 ble door*2	60000 700 91 30kW-6P				
Material  F  Supply  R  Cooling  Heating  F  Po  Total rated	y airflow (m³/h) E.R.P (Pa) oise dB(A) External panel Internal panel Filter type Filter class oply fan type fan power/pole Refrigerant g capacity (kW) g capacity (kW) Drain tray ervice door	34000 750 89 18.5kW-4P 262 248.9	40000 750 90 RAL9003 Color coa Galvanizer Plate G Belt 18.5kW-4P R4 312 297.2 Spray cold p Detachab	50000 650 91 ted steel (white)/0.4 d steel/0.4 filter 64 drive 22kW-6P 10A 362 386 banel/ DN40 ble door*2	60000 700 91 30kW-6P 435 463				
Material  F Sup Supply R Cooling Heating F Se Dimensio	y airflow (m³/h) E.R.P (Pa) oise dB(A) External panel Internal panel Filter type Filter class oply fan type fan power/pole Refrigerant g capacity (kW) g capacity (kW) Drain tray ervice door ower supply cooling power (kW)	34000 750 89 18.5kW-4P 262 248.9	40000 750 90 RAL9003 Color coa Galvanizer Plate G Belt 18.5kW-4P R4 312 297.2 Spray cold p Detachab AC380V 119.3 6950*2240*2740	50000 650 91 ted steel (white)/0.4 d steel/0.4 filter 64 drive 22kW-6P 10A 362 386 banel/ DN40 ble door*2 //3/50Hz 150.7	60000 700 91 30kW-6P 435 463				
Material  F F Sup Supply R Cooling Heating F F Total rated Dimensic	y airflow (m³/h) E.R.P (Pa) oise dB(A) External panel Internal panel Filter type Filter class oply fan type fan power/pole Refrigerant g capacity (kW) g capacity (kW) Orain tray ervice door ower supply cooling power (kW) on (L×W×H) (mm)	34000 750 89 18.5kW-4P 262 248.9	40000 750 90 RAL9003 Color coa Galvanized Plate  Belt 18.5kW-4P  R4 312 297.2 Spray cold p Detachab AC380V 119.3 6950*2240*2740 Outdoor wit	50000 650 91 ted steel (white)/0.4 d steel/0.4 filter 64 drive 22kW-6P 10A 362 386 panel/ DN40 ble door*2 7/3/50Hz 150.7 9900*3720*3040	60000 700 91 30kW-6P 435 463				

## **VARIABLE FREQUENCY ROOFTOP PACKAGED AIR CONDITIONER PARAMETERS**

	Model HWK-010MB1 HWK-012MB1 HWK-015MB1 HWF-015MB1 HWF-0									
Supply	y airflow (m³/h)	5500	6500	8000	8500					
Е	E.R.P (Pa)	400	350	450	400					
N	oise dB(A)	83	84	82	81					
	External panel	RAL9003 Color coated steel (white)/0.4								
Material	Internal panel	Galvanized steel/0.4								
F	ilter type		Plate	filter						
F	ilter class		G	3						
Sup	pply fan type		Belt	Belt drive						
Supply	Supply fan power/pole 2.2kW-4P 2.2kW-4P 3kW-4P 3kW				3kW-4P					
R	efrigerant		R41	10A						
Cooling	g capacity (kW)	25.5	28.3	33.8	40.4					
Heating capacity (kW)		28.3	45.4							
[	Orain tray		Spray cold p	panel/ DN32						
Se	ervice door		Detachab	le door*2						
Po	wer supply		AC380V/3/50Hz							
Total rated cooling power (kW)		8.84	9.86	14.41	15.51					
Dimension (L×W×H) (mm)		1940*1540*1240	2040*1540*1240	2240*1640*1340	2240*1740*1340					
Ir	nstallation		Outdoor wit	h rain cover						
Tra	nsportation		Comple	ete unit						
Weight (kg)		700	740	800	930					
		HWK-030MB1 HWK-020MB1 HHWK-024MB1 HWK-03								
	Model	-DC-25S-BZ	-DC-25S-BZ	-DC-25S-BZ	-DC-25S-BZ					
Supply	y airflow (m³/h)	15000	10500	12000	18000					
E	.R.P (Pa)	400	450	400	550					
N	oise dB(A)	86	86							
Noise dB(A)		RAL9003 Color coated steel (white)/0.4								
Material External panel				Galvanized steel/0.4						
Material	Internal panel		Galvanized	d steel/0.4						
			Galvanized Plate							
F	Internal panel	G3								
F	Internal panel	G3		filter G4						
F Sup	Internal panel Filter type Filter class	G3 55kW-4	Plate	filter G4	7.5kW-4P					
F F Sup	Internal panel Filter type ilter class oply fan type	-	Plate Belt	G4 drive 4kW-4P	7.5kW-4P					
F F Sup Supply	Internal panel Filter type fan power/pole	-	Plate Belt ( 4kW-4P	G4 drive 4kW-4P	7.5kW-4P 80.8					
F Sup Supply R Cooling	Internal panel Filter type ilter class oply fan type fan power/pole defrigerant	55kW-4	Plate Belt of the second secon	G4 drive 4kW-4P						
F Sup Supply R Cooling Heating	Internal panel Filter type ilter class oply fan type fan power/pole defrigerant g capacity (kW)	55kW-4 73	Plate Belt ( 4kW-4P  R41	G4 drive 4kW-4P 10A 56.6 63.6	80.8					
F Sup Supply R Cooling Heating	Internal panel Filter type filter class Supply fan type fan power/pole fefrigerant g capacity (kW) g capacity (kW)	55kW-4 73	Plate  Belt (  4kW-4P  R41  51  56.6	G4 drive	80.8					
Supply R Cooling Heating	Internal panel Filter type ilter class oply fan type fan power/pole defrigerant g capacity (kW) g capacity (kW) Drain tray	55kW-4 73	Plate  Belt of the second seco	filter  G4  drive  4kW-4P  10A  56.6  63.6  banel/ DN32  ble door*2	80.8					
F Supply Supply R Cooling Heating E Se Po	Internal panel Filter type filter class poly fan type fan power/pole fefrigerant g capacity (kW) g capacity (kW) Drain tray ervice door	55kW-4 73	Plate  Belt (  4kW-4P  R41  51  56.6  Spray cold p  Detachab	filter  G4  drive  4kW-4P  10A  56.6  63.6  banel/ DN32  ble door*2	80.8					
F Supply Supply R Cooling Heating Se Po Total rated	Internal panel Filter type iiter class oply fan type fan power/pole defrigerant g capacity (kW) g capacity (kW) Orain tray ervice door wer supply	55kW-4 73 78	Plate  Belt of the second seco	filter  G4  drive  4kW-4P  10A  56.6  63.6  banel/ DN32  ble door*2  //3/50Hz	80.8 90.8					
Supply R Cooling Heating F Se Po Total rated Dimensio	Internal panel Filter type filter class oply fan type fan power/pole fefrigerant g capacity (kW) g capacity (kW) Orain tray ervice door wer supply cooling power (kW)	55kW-4 73 78	Belt of AkW-4P  R41  51  56.6  Spray cold protection and AC380V  17.28	G4 drive  4kW-4P  10A  56.6  63.6  banel/ DN32 ble door*2  //3/50Hz  20.82  2482*2040*1840	80.8 90.8 32.52					
F Sup Supply R Cooling Heating F Se Po Total rated Dimensic	Internal panel Filter type filter type filter class oply fan type fan power/pole defrigerant g capacity (kW) g capacity (kW) Drain tray ervice door wer supply cooling power (kW) on (L×W×H) (mm)	55kW-4 73 78	Plate  Belt of the state of the	filter  G4  drive  4kW-4P  10A  56.6  63.6  banel/ DN32  ble door*2  73/50Hz  20.82  2482*2040*1840  h rain cover	80.8 90.8 32.52					

## **VARIABLE FREQUENCY ROOFTOP PACKAGED AIR CONDITIONER PARAMETERS**

	Model	HWK-040MB1 -DC-25S-BZ	HWK-060MB1 -DC-25S-BZ					
Supply	Supply airflow (m³/h)         20000         23000         33000							
Е	E.R.P (Pa) 450 600 600							
No	oise dB(A)	85	89	88				
Material	External panel	R	RAL9003 Color coated steel (white)/0.4					
Material	Internal panel	Galvanized steel/0.4						
F	Filter type Plate filter							
F	ilter class	class G4						
Sup	ply fan type		Belt drive					
Supply fan power/pole		7.5kW-6P	7.5kW-6P 11kW-4P					
R	efrigerant		R410A					
Cooling	g capacity (kW)	98.5	98.5 113.4					
Heating	g capacity (kW)	106.3 123.4		156				
	Orain tray	Spray cold p	panel/ DN32	Spray cold panel/ DN40				
Se	ervice door		Detachable door*2					
Po	wer supply	AC380V/3/50Hz						
Total rated	cooling power (kW)	37.54	46.01	60				
Dimensio	on (L×W×H) (mm)	3128*2340*2040	3700*2540*2040	5125*2240*2240				
In	stallation		Outdoor with rain cover					
Tra	nsportation		Complete unit					
W	/eight (kg)	1880	2280	2500				

	Model	HWK-080MB1 -DC-25S-BZ	HWK-120MB1 -DC-25S-BZ					
Suppl	y airflow (m³/h)	40000	50000	60000				
Е	E.R.P (Pa)	R.P (Pa) 650 700						
N	oise dB(A)	89	89 91					
Material	External panel	RAL9003 Color coated steel (white)/0.4						
Material	Internal panel	Galvanized steel/0.4						
F	Filter type		Plate filter					
F	Filter class G4							
Sup	oply fan type	Belt drive						
Supply fan power/pole		18.5kW-6P	22kW-6P	30kW-6P				
R	Refrigerant		R410A					
Coolin	g capacity (kW)	197	197 244.5					
Heatin	g capacity (kW)	212.6	312					
[	Orain tray	Spray cold panel/ DN40						
Se	ervice door	Detachable door*2						
Po	wer supply	AC380V/3/50Hz						
Total rated	cooling power (kW)	78.58	97.04	123.6				
Dimensio	on (L×W×H) (mm)	6295*2640*2240	6950*3090*2490	7600*3090*2790				
Ir	nstallation		Outdoor with rain cover					
Tra	insportation		Complete unit					
V	Veight (kg)	3800	4600	6000				

#### **VARIABLE FREQUENCY ROOFTOP PACKAGED FRESH AIR UNIT PARAMETERS**

	Model	HWK-010MB2	HWK-012MB2	HWK-015MB2	HWK-018MB2				
0		-DC-25S-BZ	-DC-25S-BZ	-DC-25S-BZ	-DC-25S-BZ				
Supply airflow (m³/h)		3000	4000	5000	6000				
E.R.P (Pa)		390	435	468	370				
Noise dB(A)		80	84	81	85				
Material External panel		RAL9003 Color coated steel (white)/0.4							
	Internal panel	Galvanized steel/0.4							
	Filter type	Plate filter							
	Filter class G3								
	oply fan type		Belt of		2 21 11 12				
	fan power/pole	1.5kW-4P	2.2kW-4P	2.2kW-4P	2.2kW-4P				
	Refrigerant		R41		I				
	g capacity (kW)	25.5	28.3	33.8	40.4				
	g capacity (kW)	28.3	31.8	37.9	45.4				
	Orain tray	Spray cold panel/ DN32							
	ervice door		Detachab						
	wer supply		AC380V/3/50Hz						
Total rated cooling power (kW)		7.74	9.16	13.61	14.71				
Dimension (L×W×H) (mm)		1940*1540*1240	2040*1540*1240	2240*1640*1340	2240*1740*1340				
Installation			Outdoor with rain cover						
Transportation		Complete unit 790 890							
Weight (kg)		695 720 790							
	Model			HWK-024MB2 -DC-25S-BZ	HWK-036MB2 -DC-25S-BZ				
Suppl	y airflow (m³/h)	10000	7000	8000	11500				
Е	E.R.P (Pa)	515	420	465	400				
N	oise dB(A)	83	82	84	74				
Matarial	External panel	RAL9003 Color coated steel (white)/0.4							
Material	Internal panel	Galvanized steel/0.4							
F	Filter type	Plate filter							
F	ilter class	G3	G3	G3	G4				
Sup	pply fan type		Belt o	drive					
Supply	fan power/pole	4kW-4P	3kW-4P	4kW-4P	4kW-4P				
R	efrigerant		R41	0A					
Cooling	g capacity (kW)	73	51	56.6	80.8				
Heating	g capacity (kW)	78	56.6	63.6	90.8				
[	Orain tray		Spray cold p	anel/ DN32					
Se	ervice door		Detachab	e door*2					
Po	wer supply		AC380V	/3/50Hz					
Total rated	cooling power (kW)	26.5	16.28	19.32	29.02				
Dimensio	on (L×W×H) (mm)	2840*2040*1440	2382*1940*1840	2482*1940*1840	2948*2240*1840				
Ir	nstallation		Outdoor with	rain cover					
Tra	nsportation		Comple	te unit					

1120

1260

Weight (kg)

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1150

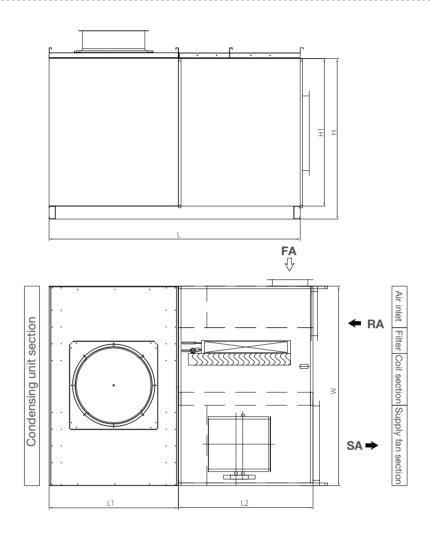
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## VARIABLE FREQUENCY ROOFTOP PACKAGED FRESH AIR UNIT PARAMETERS

	Model	HWK-040MB2 -DC-25S-BZ	HWK-048MB2 -DC-25S-BZ	HWK-060MB2 -DC-25S-BZ			
Supply	/ airflow (m³/h)	(m³/h) 14000 16000 20000					
Е	E.R.P (Pa)	P (Pa) 450 400 600					
No	oise dB(A)	84	85	86			
External panel		R	AL9003 Color coated steel (white)/0	.4			
Material	Internal panel		Galvanized steel/0.4				
Filter type Plate filter							
F	ilter class	G4					
Supply fan type Belt drive							
Supply	fan power/pole	5.5kW-6P	5.5kW-4P	11kW-6P			
Refrigerant R410A							
Cooling	g capacity (kW)	98.5	98.5 113.4				
Heating	g capacity (kW)	106.3 123.4		156			
[	Orain tray	Spray cold	panel/ DN32	Spray cold panel/ DN40			
Se	ervice door		Detachable door*2				
Po	wer supply	AC380V/3/50Hz					
otal rated	cooling power (kW)	35.54	40.51	56			
Dimensio	on (L×W×H) (mm)	3128*2340*2040	3700*2240*2040	4925*2240*2240			
Ir	stallation		Outdoor with rain cover				
Tra	nsportation		Complete unit				
V	/eight (kg)	1770	2000	2400			

	Model	HWK-080MB2 -DC-25S-BZ	HWK-120MB2 -DC-25S-BZ						
Supply	y airflow (m³/h)	27500	27500 34000 40000						
Е	E.R.P (Pa)	6560 750 750							
N	oise dB(A)	88	89	90					
Material	External panel	R	RAL9003 Color coated steel (white)/0.4						
iviateriai	Internal panel		Galvanized steel/0.4						
F	Filter type	Plate filter							
F	Filter class G4								
Supply fan type Belt drive									
Supply	fan power/pole	15kW-4P	18.5kW-4P	18.5kW-4P					
R	efrigerant		R410A						
Cooling	Cooling capacity (kW) 197 244.5 29								
Heating	g capacity (kW)	212.6 262.3 312							
	Drain tray	Spray cold panel/ DN40							
Se	ervice door	Detachable door*2							
Po	wer supply	AC380V/3/50Hz							
Total rated	cooling power (kW)	75.08	93.54	115.6					
Dimensio	on (L×W×H) (mm)	5895*2240*2240	6400*2240*2440	6950*2240*2740					
Ir	nstallation		Outdoor with rain cover						
Tra	nsportation		Complete unit						
V	/eight (kg)	3200	3850	4500					

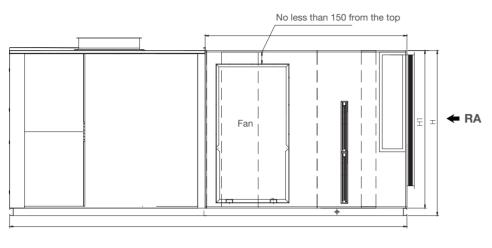
# ROOFTOP PACKAGED AIR CONDITIONER (FRESH AIR UNIT) DIMENSION

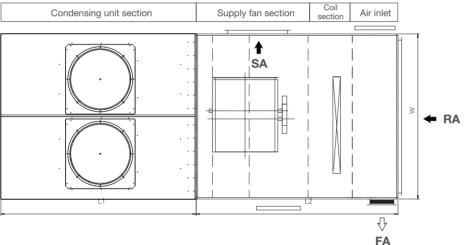


Model	L	L1	L2	W	Н	Н1	RA inlet size	FA inlet size	SA inlet size
HWK-010MB1-25S-BZ/DC-25S-BZ	1940	1000	940	1540	1240	1140	250×1040	275×875	475×475
HWK-010MB2-25S-BZ/DC-25S-BZ	1940	1000	940	1540	1240	1140	/	275×875	475×475
HWK-012MB1-25S-BZ/DC-25S-BZ	2040	1000	1040	1540	1240	1140	250×1040	275×875	475×475
HWK-012MB2-25S-BZ/DC-25S-BZ	2040	1000	1040	1540	1240	1140	/	275×875	475×475
HWK-015MB1-25S-BZ/DC-25S-BZ	2240	1100	1140	1640	1340	1240	250×1040	275×875	475×475
HWK-015MB2-25S-BZ/DC-25S-BZ	2240	1100	1140	1640	1340	1240	/	275×875	475×475
HWK-018MB1-25S-BZ/DC-25S-BZ	2240	1100	1140	1740	1340	1240	250×1140	275×875	575×575
HWK-018MB2-25S-BZ/DC-25S-BZ	2240	1100	1140	1740	1340	1240	/	275×875	575×575
HWK-030MB1-25S-BZ/DC-25S-BZ	2840	1200	1640	2040	1440	1340	450×1240	275×875	675×675
HWK-030MB2-25S-BZ/DC-25S-BZ	2840	1200	1640	2040	1440	1340	/	275×875	675×675

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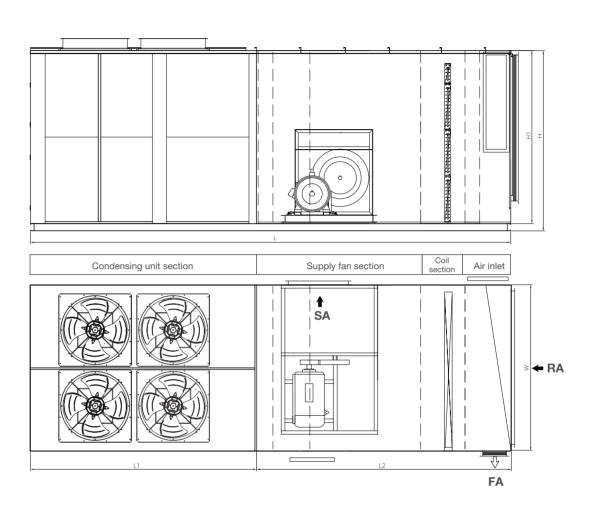
# ROOFTOP PACKAGED AIR CONDITIONER (FRESH AIR UNIT) DIMENSION





Model	L	L1	L2	W	Н	Н1	RA inlet size	FA inlet size	SA inlet size
HWK-020MB1-25S-BZ/DC-25S-BZ	2382	1342	1040	2040	1840	1740	350×1640	275×875	575×575
HWK-020MB2-25S-BZ/DC-25S-BZ	2382	1342	1040	1940	1840	1740	/	375×875	375×375
HWK-024MB1-25S-BZ/DC-25S-BZ	2482	1342	1140	2040	1840	1740	350×1640	275×875	575×575
HWK-024MB2-25S-BZ/DC-25S-BZ	2482	1342	1140	1940	1840	1740	/	475×975	475×475
HWK-036MB1-25S-BZ/DC-25S-BZ	2948	1408	1540	2240	1840	1740	450×1640	275×875	675×675
HWK-036MB2-25S-BZ/DC-25S-BZ	2948	1408	1540	2240	1840	1740	/	475×1275	475×475
HWK-040MB1-25S-BZ/DC-25S-BZ	3128	1588	1540	2340	2040	1940	450×1840	275×975	775×775
HWK-040MB2-25S-BZ/DC-25S-BZ	3128	1588	1540	2340	2040	1940	/	575×1375	475×475
HWK-048MB1-25S-BZ/DC-25S-BZ	3700	1960	1740	2540	2040	1940	450×1840	275×975	875×875
HWK-048MB2-25S-BZ/DC-25S-BZ	3700	1960	1740	2240	2040	1940	/	575×1575	575×575
HWK-060MB1-25S-BZ/DC-25S-BZ	5125	1785	3340	2240	2240	2140	2075×1375	475×1375	975×975
HWK-060MB2-25S-BZ/DC-25S-BZ	4925	1785	3140	2240	2240	2140	/	675×2075	575×575

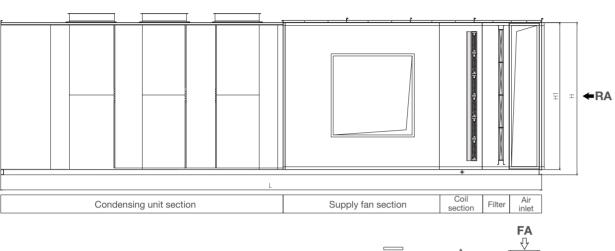
# ROOFTOP PACKAGED AIR CONDITIONER (FRESH AIR UNIT) DIMENSION

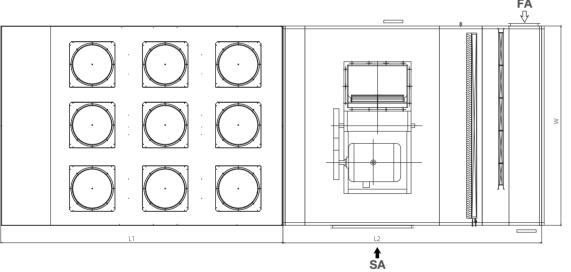


Model	L	L1	L2	W	Н	Н1	RA inlet size	FA inlet size	SA inlet size
HWK-080MB1-25S-BZ/DC-25S-BZ	6295	2655	3640	2640	2240	2140	2475×1575	475×1575	975×975
HWK-080MB2-25S-BZ/DC-25S-BZ	5895	2655	3240	2240	2240	2140	/	675×2075	675×675
HWK-100MB1-50U-BZ/DC-25S-BZ	6950	3060	3890	3090	2490	2390	2875×1775	475×1775	1075×1075
HWK-100MB2-25S-BZ/DC-25S-BZ	6400	3060	3340	2240	2440	2340	/	775×2075	775×775
HWK-120MB1-50U-BZ/DC-25S-BZ	7600	3410	4190	3090	2790	2690	2875×2175	475×2175	1175×1175
HWK-120MB2-25S-BZ/DC-25S-BZ	6950	3410	3540	2240	2740	2640	/	975×2075	875×875

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# ROOFTOP PACKAGED AIR CONDITIONER (FRESH AIR UNIT) DIMENSION





Model	L	L1	L2	W	н	Н1	RA inlet size	FA inlet size	SA inlet size
HWK-150MB1-50H-BZ	9900	5270	4630	3720	2840	2740	3000×2660	530×2660	1375×1375
HWK-150MB2-50H-BZ	9900	5270	4630	3720	2840	2740	/	1760×2660	1375×1375
HWK-180MB1-50H-BZ	10100	5270	4830	3720	2840	2740	3000×2660	530×2660	1475×1475
HWK-180MB2-50H-BZ	10100	5270	4830	3720	2840	2740	/	2060×2660	1475×1475

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