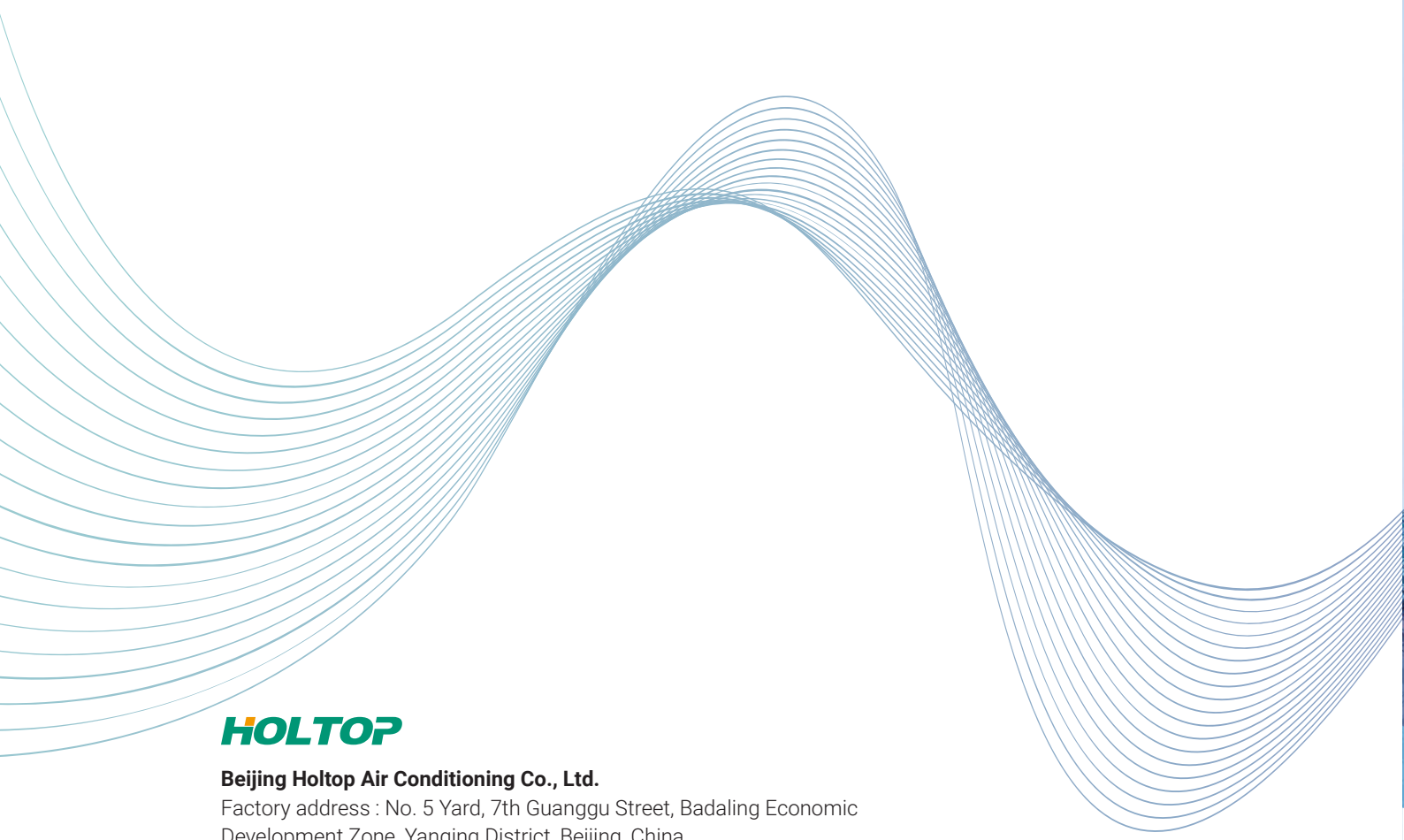


Make Air Treatment Healthier and More Energy-Efficient



Beijing Holtop Air Conditioning Co., Ltd.

Factory address : No. 5 Yard, 7th Guanggu Street, Badaling Economic Development Zone, Yanqing District, Beijing, China

International Marketing Center

Room 2101, Headquarter Center No. 25, Tian An Hi-Tech Ecological Park,
No. 555 Panyu Ave, Guangzhou, China

Tel: +86-20-39141701 E-mail: info@holtop.com Website: www.holtop.com

Factory code: HLY202371 Marketing code: 202504



Inverter Rooftop Package Unit

MAKE AIR TREATMENT HEALTHIER AND MORE ENERGY-EFFICIENT

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!

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 the 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.



ISO Certifications



Dozens of National Patents Owner



National Standards Participated



World Leading Manufacturer



Zhongguancun & National High-tech Enterprise



Equipment Supplier for Beijing Olympics and The Shanghai World Expo

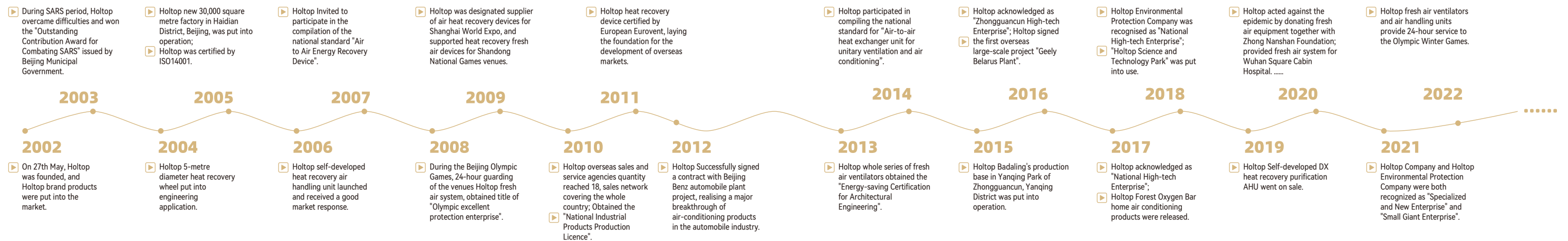


MAKE AIR TREATMENT HEALTHIER AND MORE ENERGY-EFFICIENT

To make the air fresh and the sky blue, to ensure every breath is safer, to utilize energy more sustainably and to make air treatment healthier and more energy-efficient, this is the mission to which we have been dedicated.



DEVELOPMENT HISTORY



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 Outdoor unit production line



National certified enthalpy laboratory

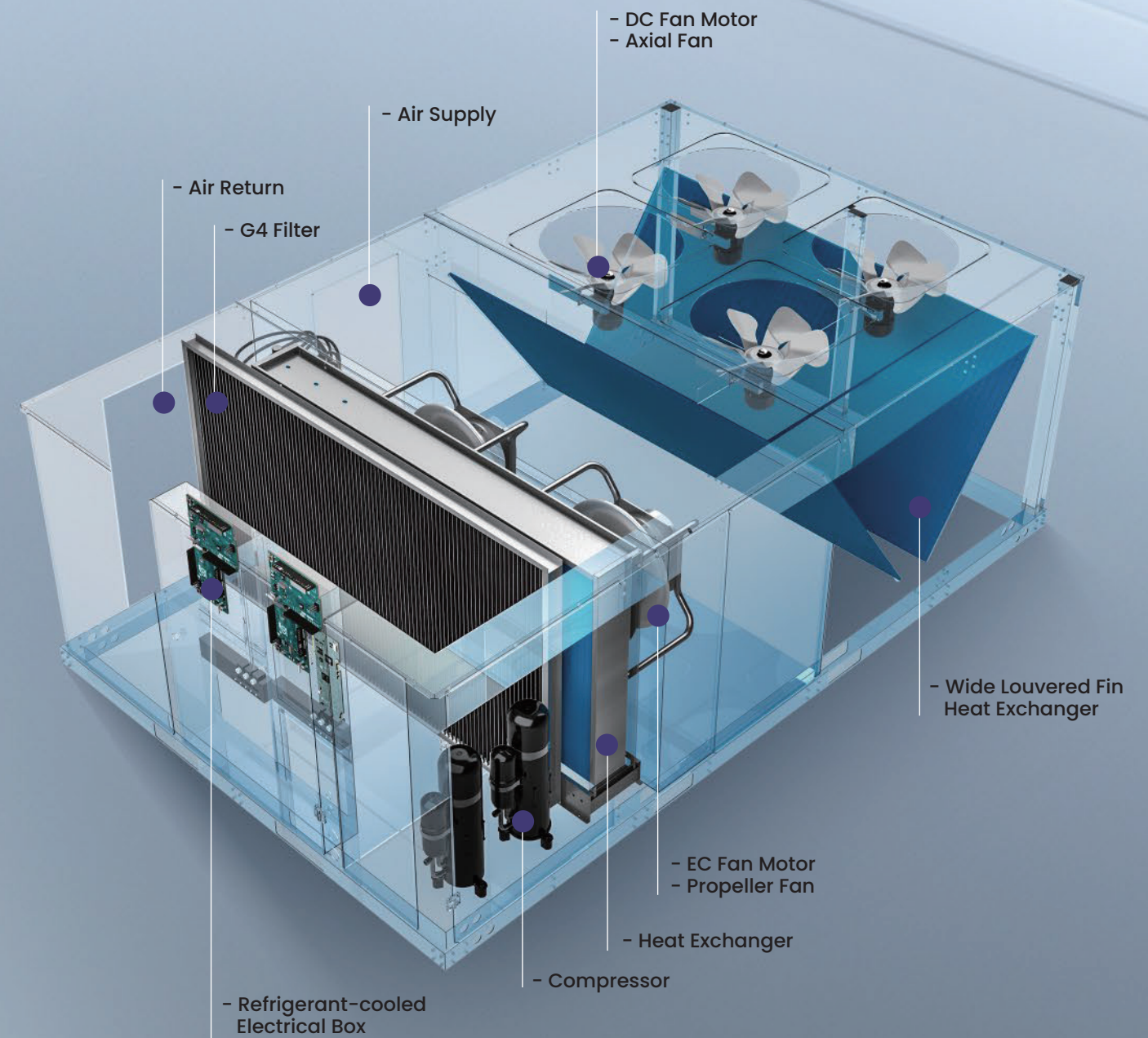
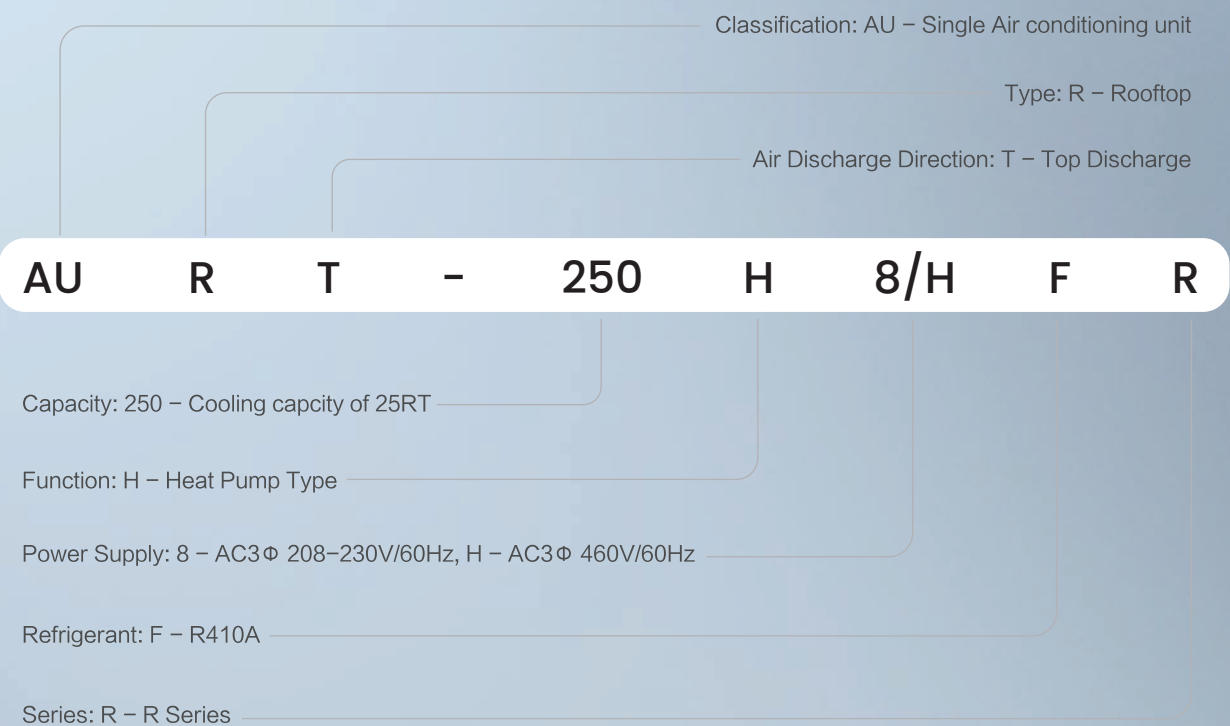


Manufacturing base assembly workshop

Product Introduction

Rooftop package units are installed on rooftops of buildings and are connected directly to the building's network of ducts. It is a self-contained system that integrates cooling, heating, ventilation, and fresh air, with indoor and outdoor components in a single unit to save space and improve energy efficiency.

Nomenclature



Contents

08 Reliable Operation

11 High Efficiency

14 Easy Installation & Maintenance

16 Smart Control

18 Customized Solutions

19 Specifications

Robust Structure Design

The unit adopts a strong structural design with high-strength galvanized steel panels and an optional aluminum alloy frame. This ensures excellent resistance to deformation and damage from external forces, providing reliable stability even under extreme weather conditions such as strong winds and heavy snow.



Anti-corrosion Solution (Optional)

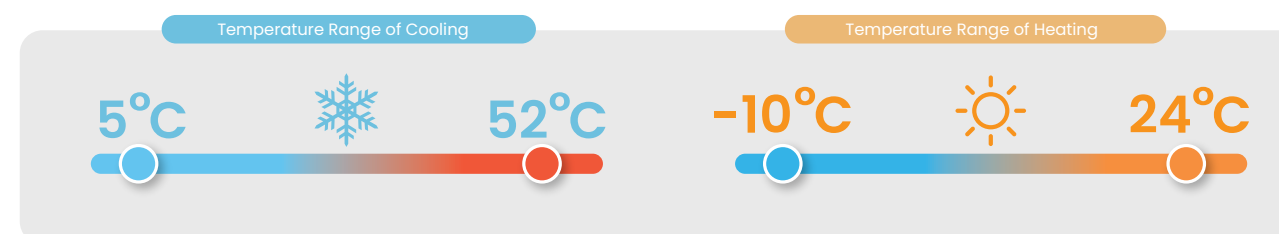
Tailored for challenging environments like coastal regions and sulphide contamination areas, our corrosion-resistant solutions can be customized to effectively withstand high humidity and salt mist, ensuring long-term reliability.



Note: For detailed information, please contact Holtop technical engineers.

Wide Operation Range

The unit can operate effectively in a wide temperature range, from 5°C to 52°C in cooling mode and -10°C to 24°C in heating mode, meeting diverse climate demands.



Reliable Operation

Optimized Enclosure Sealing

Our rooftop units are engineered with advanced multi-layer sealing techniques, with optional double-layer paneling to provide robust protection against environmental intrusion. This design minimizes the ingress of dust, moisture, and other airborne particles, helping preserve internal components and maintain long-term system reliability.

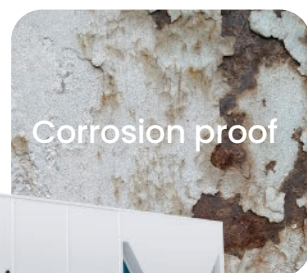
Enhanced sealing also significantly reduces air leakage, improving thermal performance and contributing to greater energy efficiency.



Waterproof



Dust proof



Corrosion proof



Mosquito proof



PCB Refrigerant cooling Technology

Holtop rooftop units feature a refrigerant-cooled electrical control box, ensuring efficient heat dissipation in high-temperature environments. This design enhances system stability and maintains reliable performance under harsh outdoor conditions.



Backup&Alternative Compressor Operation

Holtop units support dual-compressor operation with intelligent backup and alternating control. If one compressor fails, the other maintains operation to ensure uninterrupted cooling or heating. Under normal conditions, the compressors alternate to balance load and extend service life.



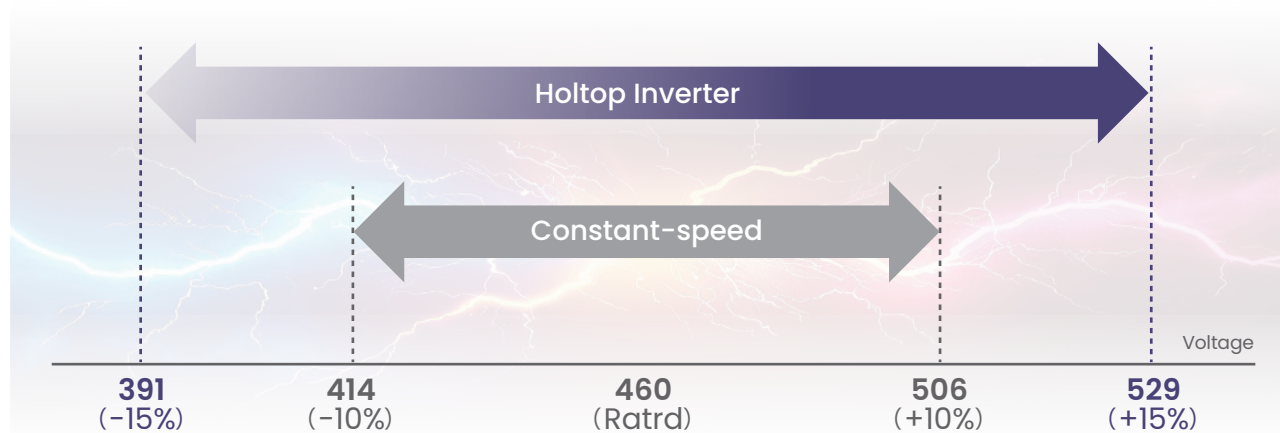
Compressor Backup Operation



Compressor Alternative Operation

Voltage Fluctuation Protection

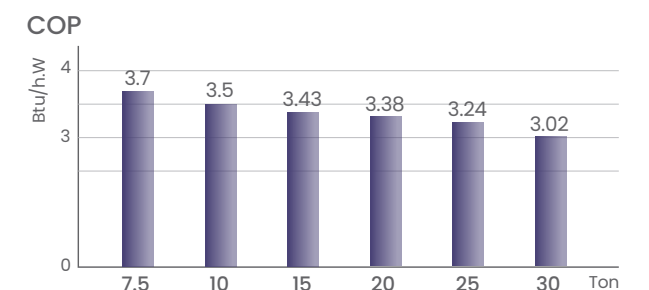
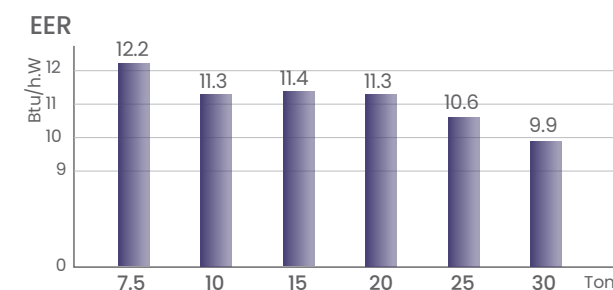
To ensure stable operation under low voltage limit, the inverter compressor reduces frequency and adjusts the DC voltage. When the voltage exceeds the high limit, it disconnects the relay to protect the DC capacitor from overvoltage damage. Additionally, the inverter supports a wider voltage range than constant-speed models, enhancing system adaptability and reliability.



High Efficiency

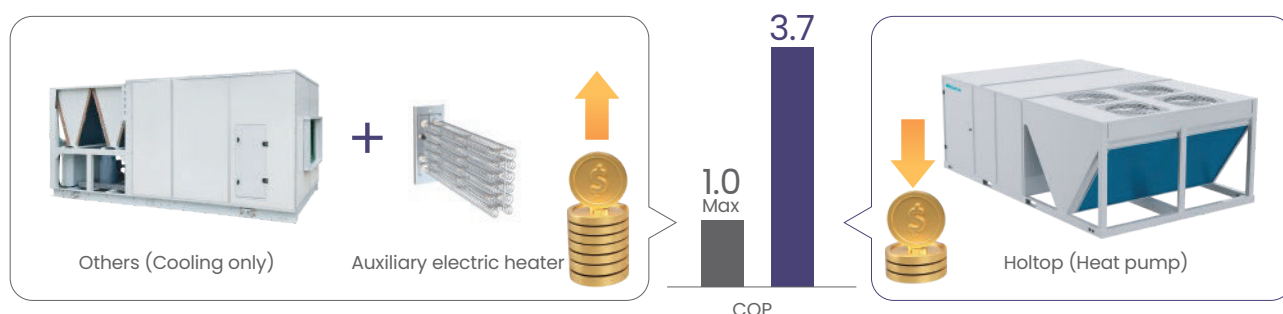
High EER and COP

Powered by advanced inverter technology, Holtop rooftop units deliver outstanding energy performance, achieving EER values up to 12.2 and COP up to 3.7.



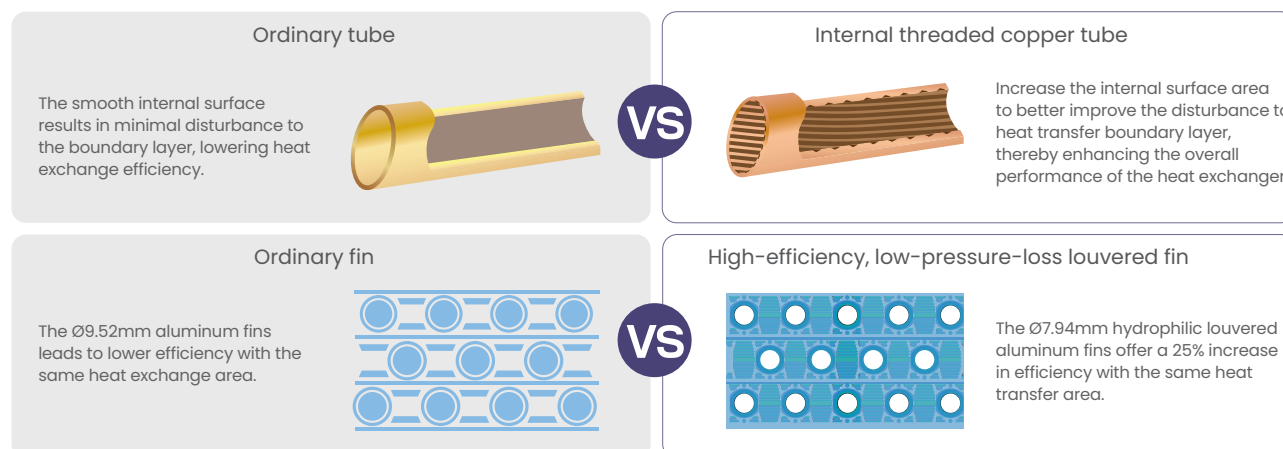
Efficient Heating & Cooling in One Unit

Holtop inverter rooftop units provide both cooling and heating with high efficiency, thanks to the integrated heat pump system. This eliminates the need for additional electric heating equipment, reducing upfront investment while maximizing year-round energy savings.



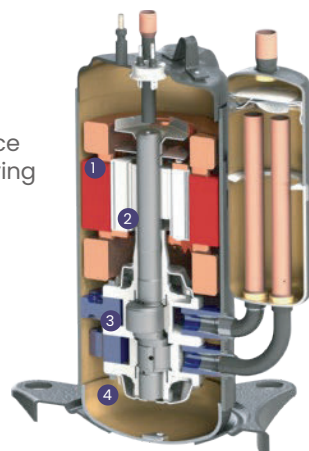
High-efficiency Heat Exchanger

The low-pressure-loss louvered fins, coated with hydrophilic aluminum foil, are perfectly combined with internally threaded tubes, greatly increasing the surface area and heat transfer efficiency of heat exchanger



DC Inverter Rotary Compressor

A high-efficiency DC inverter dual rotary compressor is adopted. It is featured with unique dualpressure chamber design and symmetrical location, which can effectively reduce the vibration and noise while improving the compressor performance especially under low-frequency operation.

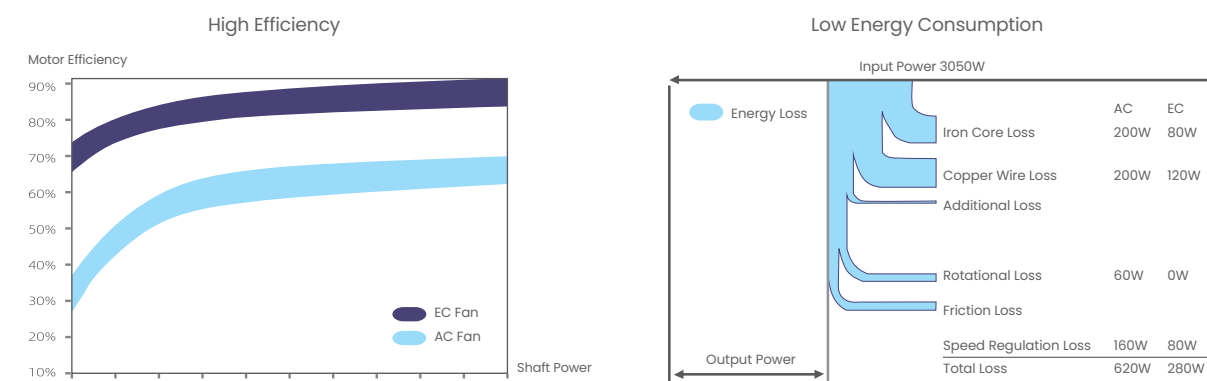
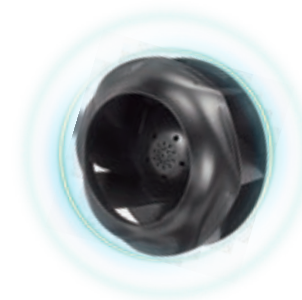


- 1 High-efficiency motor**
Optimize the motor design to improve compressor performance.
- 2 Optimized rotor design**
Lower the center of gravity of the compressor to reduce the noise and vibration.
- 3 Flat mechanism design**
Improve the volumetric efficiency and the total performance.
- 4 Screw interactive fastening**
Improve fastening effect and reduce deformation of the core.

EC Fan Motor

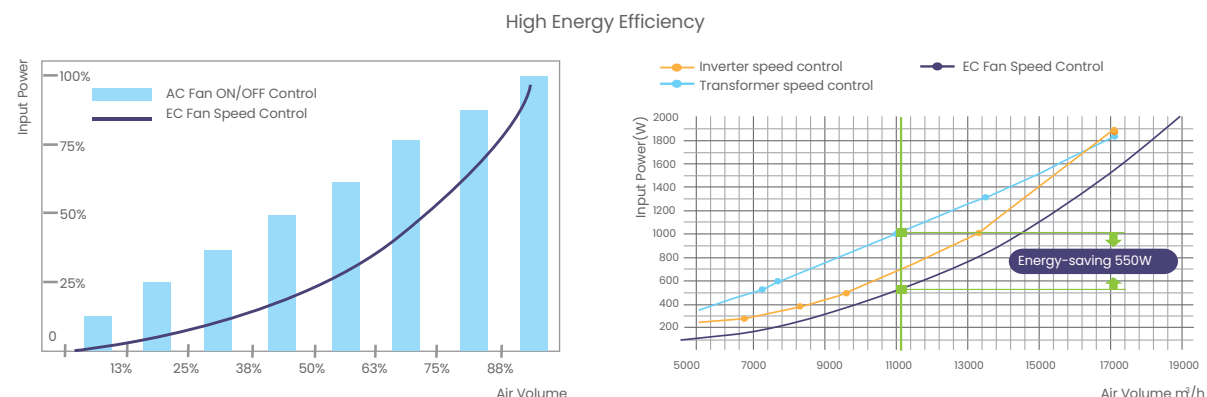
Holtop rooftop units are equipped with EC fan motors, which reduce energy consumption by up to 40% compared to conventional AC motors.

- High intelligence, high energy-saving, high efficiency, long lifespan, low vibration, low noise, and constant operation without interruption.
- Built-in circuits enable stepless speed regulation, with a wide speed range and strong overload protection capability.
- Brushless DC motor requires no maintenance with operating life of over 80,000 hours.



The EC fan motors can maintain over 85% high efficiency even at low speeds, 20% to 30% higher than traditional AC fan motors.

EC fan motors have lower energy loss, saving 52% in operating costs compared to AC Fan motors.

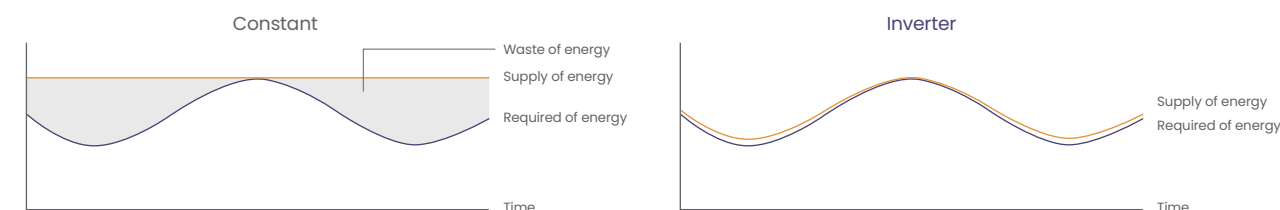


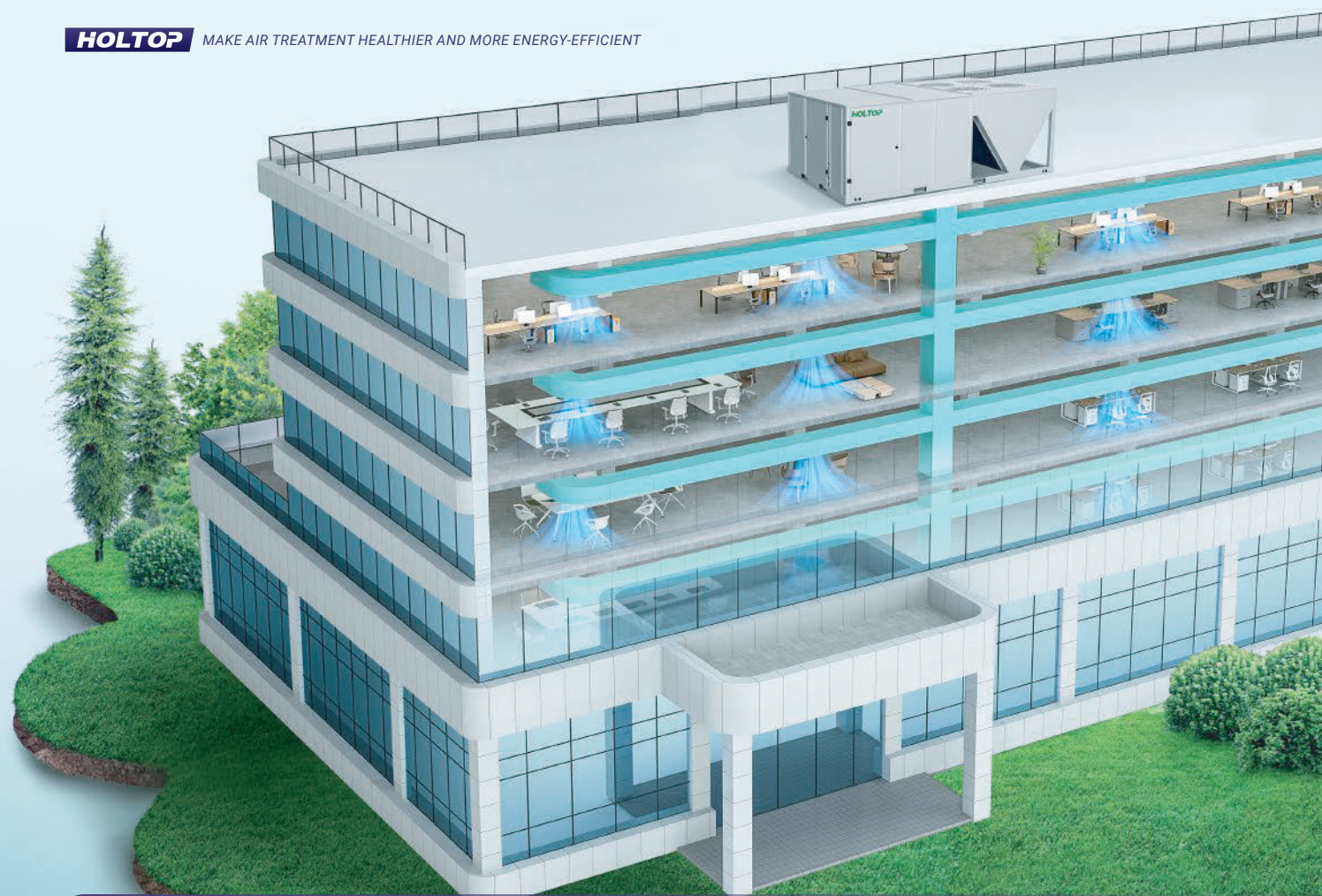
The speed control of EC fan motors saves 75% energy compared to traditional AC fan motors.

Note: The dual fan is designed for 20, 25, and 30 RT units.

DC Inverter Technology

DC inverter technology automatically adjusts compressor speed based on real-time load demand, enabling precise temperature control and high energy efficiency. When the load is low, the compressor slows down to save energy, when demand increases, it speeds up to maintain optimal comfort.

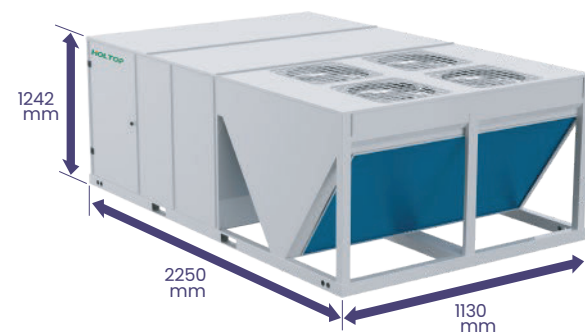




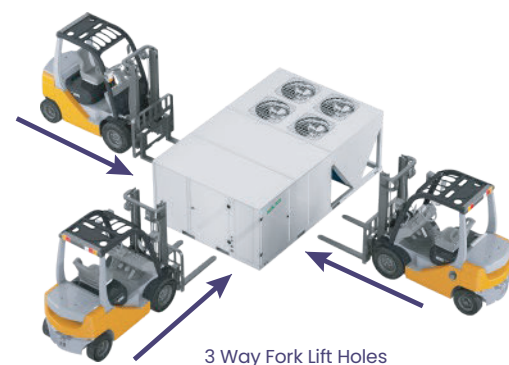
Easy Installation & Maintenance

Space-saving & Streamlined Installations

Holtop rooftop units feature a compact, all-in-one design that integrates all components into a single unit—saving valuable indoor and outdoor space. With no need for additional equipment like cooling towers or water pumps, installation is faster, simpler, and more cost-effective.

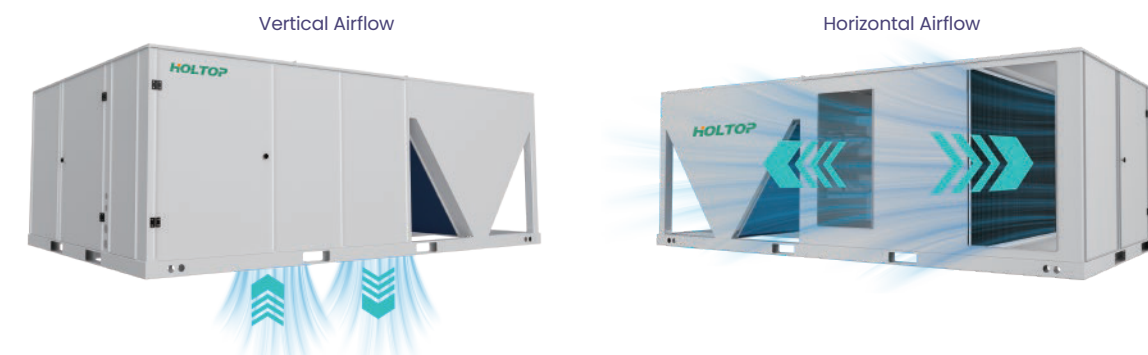


Note: Based on 7.5RT.



Adjustable Duct Connection

The unit offers both horizontal and bottom air supply options to suit various installation environments.



Adaptive External Static Pressure

Duct length impacts airflow resistance, requiring different static pressure settings. Holtop rooftop units support adjustable external static pressure, allowing flexible adaptation to various installation conditions and improving overall system efficiency.

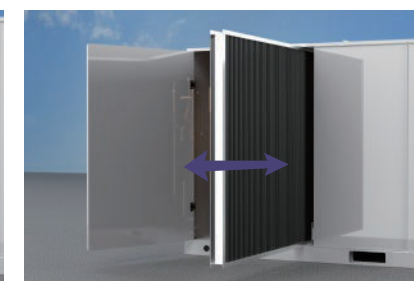


Convenient Maintenance

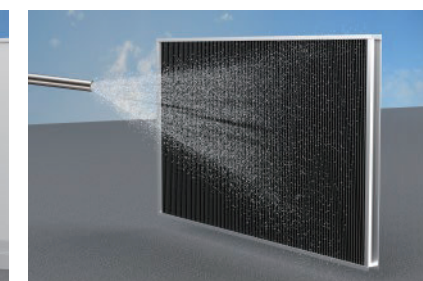
The access panel facilitates regular inspection and maintenance. The washable filters help maintain the efficient operation and air quality of the unit while saving maintenance costs.



Easy Maintenance with Enhanced Structure



Sliding Type Filter



Washable Filter



Smart Control

Individual Control

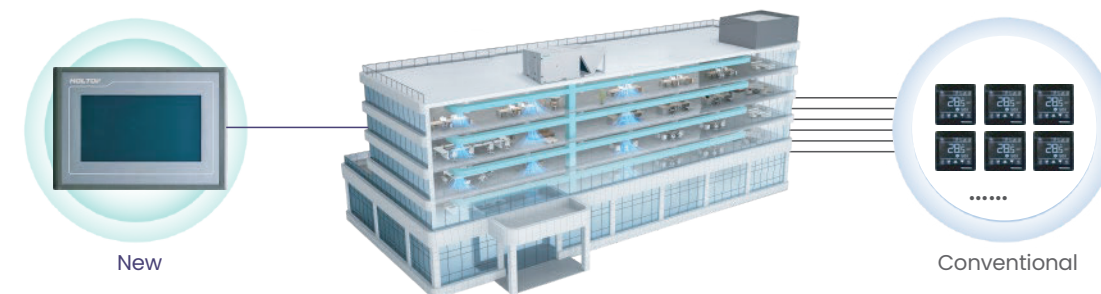
The Holtop individual controller features an intuitive interface equipped with touch buttons, offering an user-friendly experience for easy control.

- Filter blockage detection and alerts, preventing air pollution caused by ineffective filtration.
- Automatically adjusts cooling and heating modes based on indoor temperature and humidity, making it ideal for transitional seasons.
- Compatible with third-party 24V controllers, providing flexible integration options.



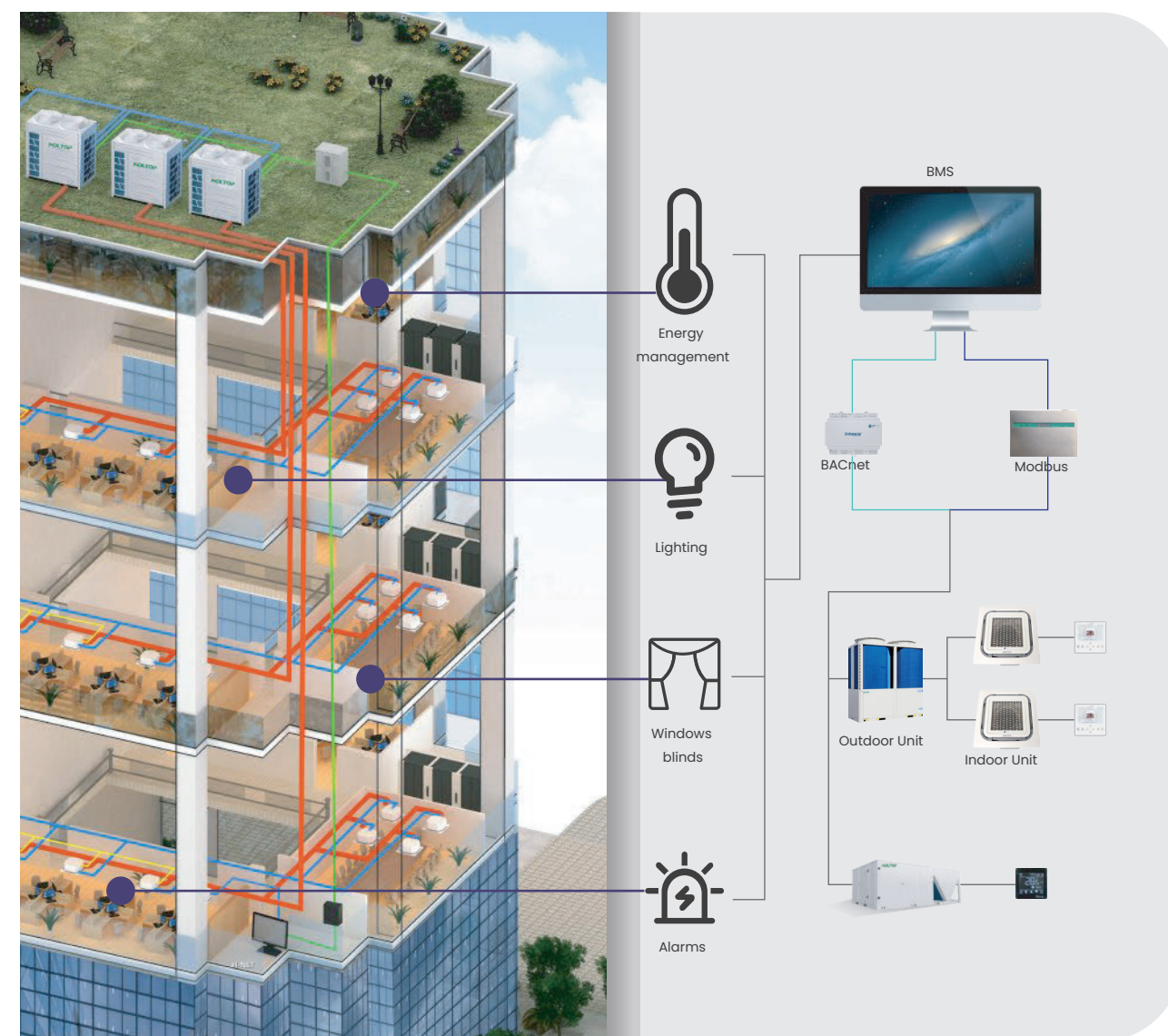
Centralized Control

Centralized Control is to control multiple units simultaneously, making it ideal for unified control in large-scale applications.



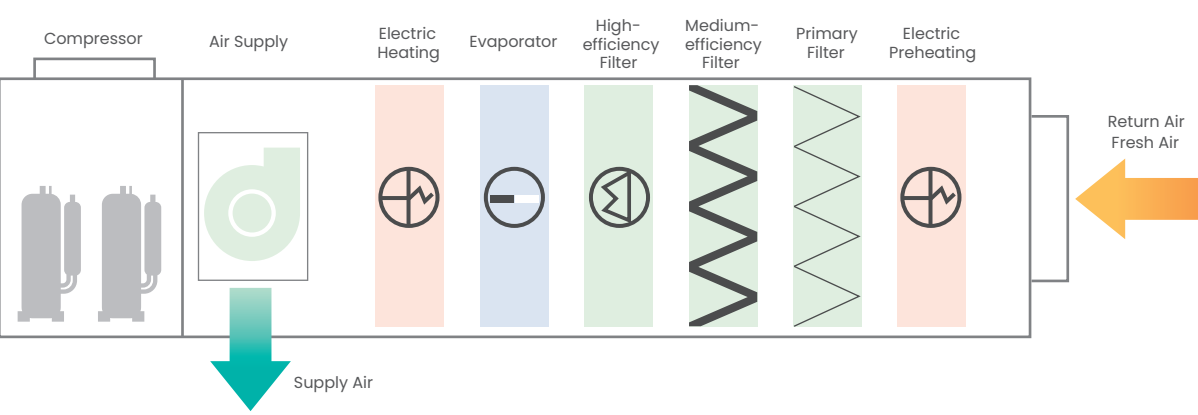
BMS Gateway Control

Holtop rooftop units can be seamlessly integrated with BMS gateways supporting protocols like Modbus and BACnet, enabling centralized monitoring and intelligent control of HVAC operations.

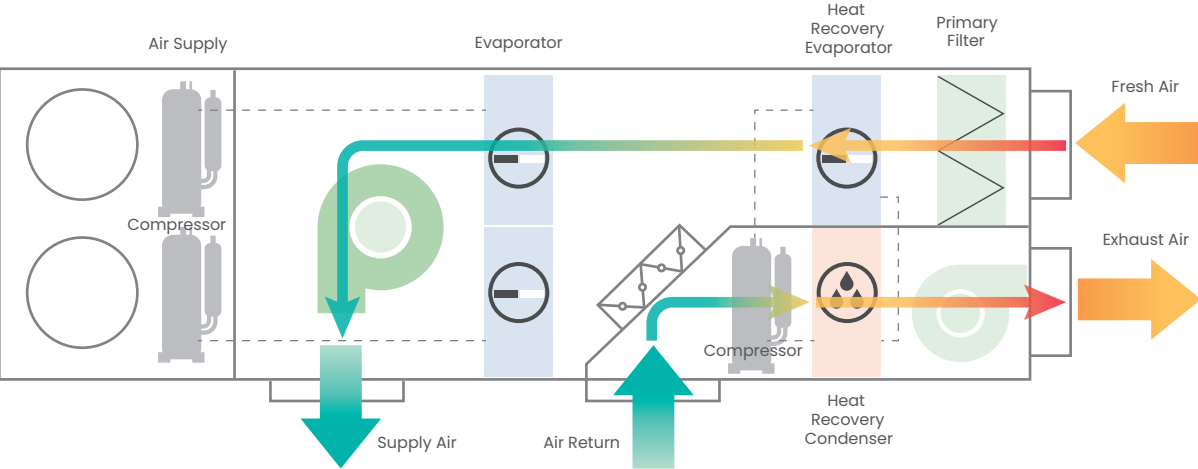


Customized Solution

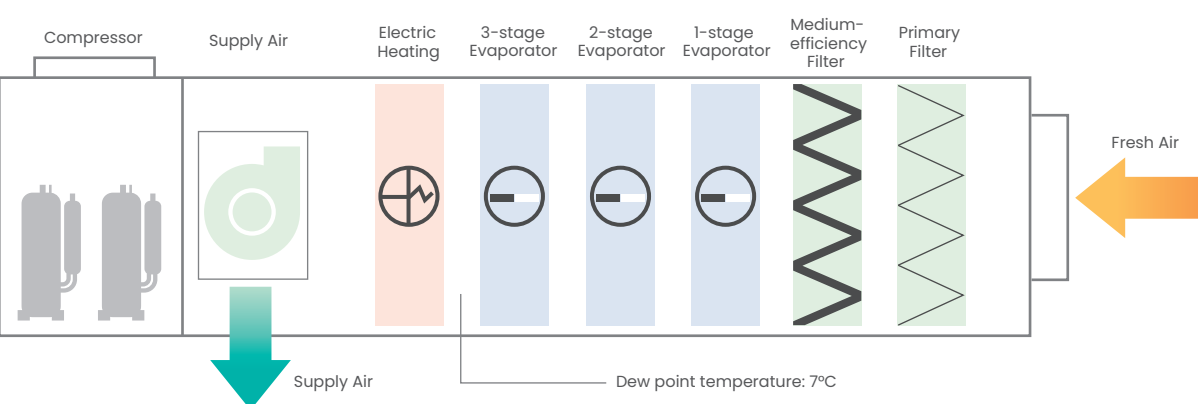
Return(fresh) Air Unit



Heat Recovery Fresh Air Unit



Dehumidification Unit



Specifications

208-230V

Ton		7.5	10	15	20	25	30
Model		AURT-75H8FR	AURT-100H8FR	AURT-150H8FR	AURT-200H8FR	AURT-250H8FR	AURT-300HHFR
Power Supply		AC3Ø208-230V/60Hz					
Cooling	Capacity	kW	26.4	34.3	51	70.3	105
		kcal/h	22,680	29,490	43,850	60,480	90,300
		Btu/h	90,000	117,000	174,000	240,000	358,000
	Power Input	kW	7.37	10.35	15.26	21.3	34
		Btu/h.W	12.2	11.3	11.4	11.3	10.6
		Btu/h.W	20	19	18.5	19	18.3
Heating	Capacity	kW	26.4	34.3	51	70.3	109.6
		kcal/h	22,680	29,490	43,850	60,480	94,200
	Power Input	kW	7.13	9.8	14.86	20.8	33
		W/W	3.7	3.5	3.43	3.38	3.02
Indoor Coil	Fin Type	-	Louvered Fin				
	Tube Size	mm(inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	(Rows× Columns× Fins per inch) × No.	-	(4× 22× 16) × 2	(4× 22× 16) × 2	(4× 22× 16) × 2	(4× 44× 16) × 2	(5× 44× 16) × 2
Indoor Fan	Type	-	EC Fan Motor				
	Diameter	mm(inch)	400 (16)	450 (18)	560(22)	560(22)	560(22)× 2
	Motor Output	W	1100	1100	2420	3841	3841 × 2
	Air Flow Rate	m³/min	85	113	170	227	261
		ft³/min	3,000	4,000	6,000	8,000	9,200
Compressor	Drive Type	-	DC				
	Type	-	DC Inverter				
	Output Volume	cc	54.8	63.9	54.8	63.9	84.8
	Oil Type	-	FVC68				
Outdoor Coil	Oil Charge	ml	1800	2000	1800	2000	2000
	Fin Type	-	Wide Louvered Fin(Black)				
	Tube Size	mm(inch)	7 (9/32)	7 (9/32)	7 (9/32)	7 (9/32)	7 (9/32)
Outdoor Fan	(Rows× Columns× Fins per inch) × No.	-	(3× 52× 14) × 1	(3× 52× 14) × 1	(3× 52× 14) × 1	(3× 52× 14) × 2	(4× 52× 14) × 2
	Type	-	Propeller fan				
	Diameter	mm(inch)	680 (26 - 25/32)	680 (26 - 25/32)	680 (26 - 25/32)	680 (26 - 25/32)	644
	Air Flow Rate	m³/min× No.	105 × 1	105 × 1	105 × 2	105 × 4	105 × 4
		ft³/min× No.	3,700 × 1	3,700 × 1	3,700 × 2	3,700 × 4	3,700 × 4
Drainage Connection	Drive Type	-	DC Inverter				
	Discharge Direction	-	Horizontal				
Refrigerant	Type	-	R410A				
	Precharged Amount	kg	9	9	5.2	9	10
Dimension(W× H× D)	mm		1,130 × 1,242 × 2,250	1,130 × 1,242 × 2,250	2,230 × 1,242 × 2,400	2,230 × 1,242 × 3,520	2,230 × 1,242 × 3,520
	inch		44-1/2 × 48-29/32 × 88-19/3	44-1/2 × 48-29/32 × 88-19/32	87-25/32 × 48-29/32 × 94-1/2	87-25/32 × 48-29/32 × 138-19/32	87-25/32 × 48-29/32 × 138-19/32
Net Weight	kg(lbs)		440 (970)	440 (970)	705 (1,554)	915 (2,017)	915 (2,017)
Sound Pressure Level	dB(A)		80	80	80	77	78
Operation Range	Cooling Mode	°C (°F) DB	5 ~ 52 (41 ~ 125.6)	5 ~ 52 (41 ~ 125.6)	5 ~ 52 (41 ~ 125.6)	5 ~ 52 (41 ~ 125.6)	5 ~ 52 (41 ~ 125.6)
	HeatingMode	°C (°F) WB	-10~ 24 (14 ~ 75.2)	-10~ 24 (14 ~ 75.2)	-10~ 24 (14 ~ 75.2)	-10~ 24 (14 ~ 75.2)	-10~ 24 (14 ~ 75.2)

Note: For detailed information, please contact Holtop technical engineers.

Specifications

460V

Ton			20	25	30
Model			AURT-200HHFR	AURT-250HHFR	AURT-300HHFR
Power Supply			AC3Ø 460V/60Hz		
Cooling	Capacity	kW	70.3	80.9	105
		kcal/h	60,480	69,600	90,300
		Btu/h	240,000	276,000	358,000
	Power Input	kW	21.3	26	34
	EER	Btu/h.W	11.3	10.6	9.9
	IEER	Btu/h.W	19	18.3	17.1
Heating	Capacity	kW	70.3	80.9	109.6
		kcal/h	60,480	69,600	94,200
		Btu/h	240,000	276,000	373,900
	Power Input	kW	20.8	25	33
	COP	W/W	3.38	3.24	3.02
Indoor Coil	Fin Type	-	Louvered Fin		
	Tube Size	mm(inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	(Rows× Columns× Fins per inch) × No.	-	(4× 44× 16) × 2	(4× 44× 16) × 2	(5× 44× 16) × 2
Indoor Fan	Type	-	EC Fan Motor		
	Diameter	mm(inch)	560(22)	560(22)× 2	560(22)× 2
	Motor Output	W	3841	3841 × 2	3841 × 2
	Air Flow Rate	m³/min	227	261	261
		ft³/min	8,000	9,200	9,200
	Drive Type	-	DC		
	Compressor	Type	-	DC Inverter	
Output Volume		cc	63.9	84.8	84.8
Oil Type		-	FVC68		
Oil Charge		ml	2000	2000	2000
Outdoor Coil	Fin Type	-	Wide Louvered Fin(Black)		
	Tube Size	mm(inch)	7 (9/32)	7 (9/32)	7 (9/32)
	(Rows× Columns× Fins per inch) × No.	-	(3× 52× 14) × 2	(3× 52× 14) × 2	(4× 52× 14) × 2
Outdoor Fan	Type	-	Propeller fan		
	Diameter	mm(inch)	680 (26 - 25/32)	680 (26 - 25/32)	644
	Air Flow Rate	m³/min× No.	105 × 4	105 × 4	105 × 4
		ft³/min× No.	3,700 × 4	3,700 × 4	3,700 × 4
	Drive Type	-	DC Inverter		
	Discharge Direction	-	Horizontal		
	Drainage Connection		-	External thread NPT 1"	External thread NPT 1"
Refrigerant	Type	-	R410A		
	Precharged Amount	kg	9	9	10
Dimension(W× H × D)		mm	2,230 × 1,242 × 3,520	2,230 × 1,242 × 3,520	2,230 × 1,242 × 3,520
		inch	87 ~ 25/32 × 48 ~ 29/32 × 138 ~ 19/32	87 ~ 25/32 × 48 ~ 29/32 × 138 ~ 19/32	87 ~ 25/32 × 48 ~ 29/32 × 138 ~ 19/32
Net Weight		kg(lbs)	915 (2,017)	915 (2,017)	915 (2,017)
Sound Pressure Level		dB(A)	77	77	78
Operation Range	Cooling Mode	°C (°F) DB	5 ~ 52 (41 ~ 125.6)	5 ~ 52 (41 ~ 125.6)	5 ~ 52 (41 ~ 125.6)
	HeatingMode	°C (°F) WB	-10~ 24 (14 ~ 75.2)	-10~ 24 (14 ~ 75.2)	-10~ 24 (14 ~ 75.2)