

CH Cooper & Hunter



CHV 6 CATALOG 2024

URBAN
VRF
S E R I E S

CHV6 URBAN

ABOUT

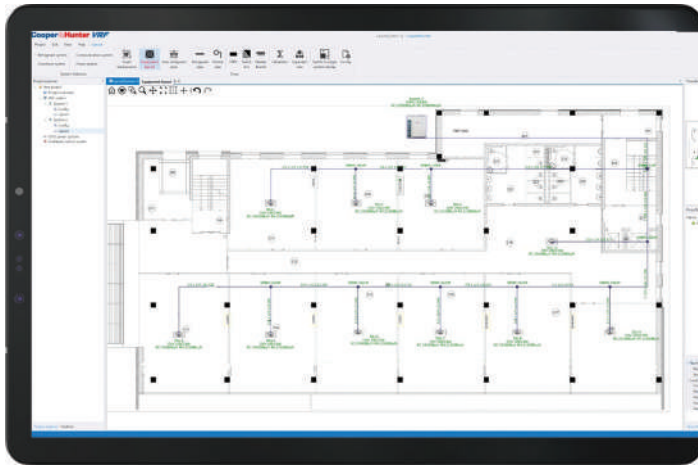


With more than 25 years of experience in air conditioning and ventilation, Cooper&Hunter has grown into a leading HVAC market player. The brand is dedicated to technological innovation and consumer-driven product development, generating HVAC equipment that adheres to the highest quality standards, providing reliable, energy-efficient, and cost-effective air conditioning solutions.

While products under the Cooper&Hunter brand are distributed in more than 55 countries worldwide, the brand's growth within the US market has been rapid. Cooper&Hunter stands out from big-name brands by providing quality support to customers and technicians alike, with their in-house technical support team offering troubleshooting and warranty support Monday through Friday from 9am to 5pm in 5 different languages (including English, Spanish, Mandarin, Russian, and Ukrainian).

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/// VRF SELECTION SOFTWARE



Contractors and technicians can now configure and save their Cooper&Hunter VRF systems and projects on our convenient web portal. C&H Selection Software can be used to create projects of any complexity, mixing and matching Cooper&Hunter's VRF equipment to create the perfect personalized system. Unit compatibility can be conveniently calculated on any iOS or Windows PC device.

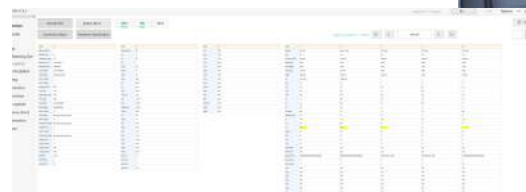
C&H Selection Software does not only ensure system compatibility and provide easy access to reference important project details, but can also automatically generate system suggestions, connection pipe lengths, and detailed project reports. Users are also able to upload blueprints and project plans into the program to configure their project directly on the digital copy and avoid drawing by hand.



/// CH-CHECKER

CH-Checker is a plug and play service tool, with which service engineers can access the VRF system to monitor operation status and get data pertaining to each of the units. It is very convenient for system communication and maintenance, and features cloud-based management with easy to access operation status remotely.

- Compact size allows high portability and space saving.
- Capable to slot in a 32G memory card for data collection and storage.
- Memory card and card reader are standard with CH-Checker.
- Multiple choices of power supply types. It can be powered by the standard adapter (DC 5V), computer or power bank.
- Support OTA update, ensuring the software is always up to date.



An Intelligent Tool for Intelligent Service.


- Conventional connection type. The simplest and most reliable way to connect the CH-Checker to your computer is directly through USB.
- Internet connection type. Connect to a stable Wi-Fi signal to achieve operation data and status monitoring anytime and anywhere.
- Hotspot connection type. Connect to a temporary hotspot signal from the smartphone, allowing the CH-Checker to remotely monitor the operation data when there is no stable Wi-Fi signal on site.
- SD card storage type. CH-Checker equipped with SD card can be connected to the air conditioning system all the time, so that all the operation data can be stored in the card for later analysis.

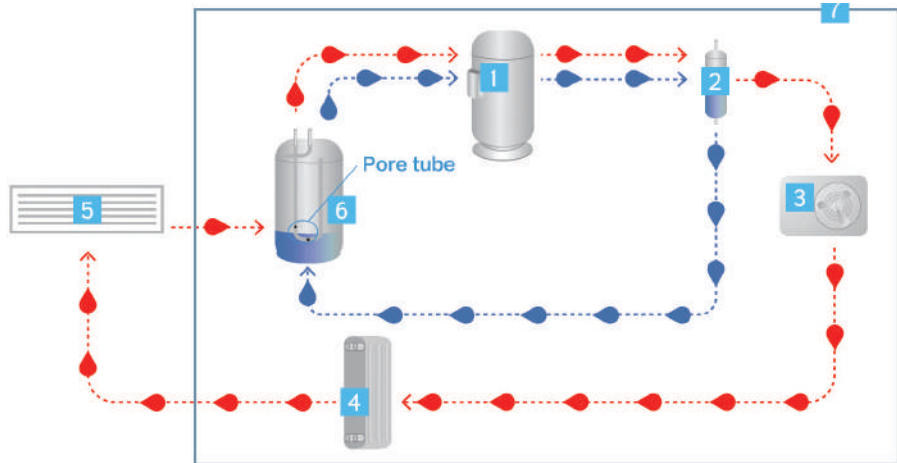
RELIABILITY

/// OIL CYCLE

The lifetime and performance of a compressor relies heavily on its oil lubrication.

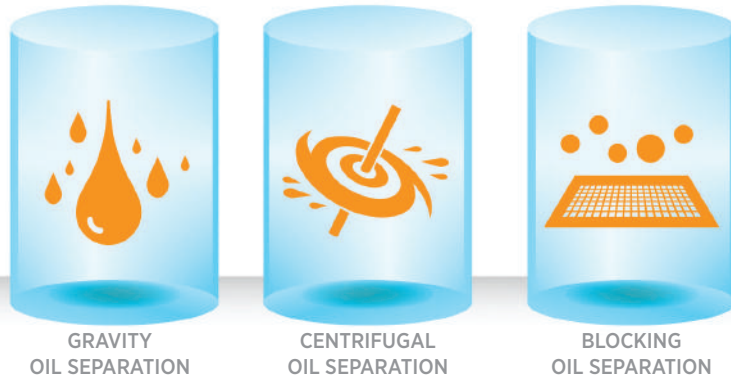
- 1 COMPRESSOR
- 2 OIL SEPARATOR
- 3 CONDENSER
- 4 SUB-COOLER
- 5 EVAPORATOR
- 6 ACCUMULATORS
- 7 OUTDOOR UNIT

 First stage oil return
 Second stage oil return



/// OIL SEPARATION

Cooper&Hunter CHV6 utilizes the latest technology for efficient oil separation with up to 99% accuracy. The first stage of oil separation takes place in the compressor, while the second stage is managed by a high-capacity centrifugal oil separator.



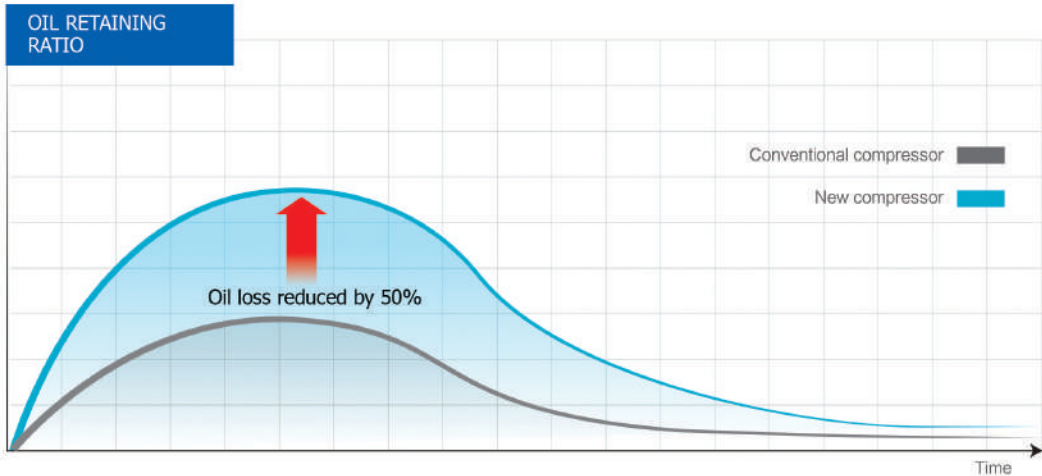
/// NO OIL BALANCE TUBES NEEDED FOR MODULAR INSTALLATIONS

When there are two or more outdoor units in one refrigerant cycle, the oil should be balanced among all of the compressors. Optimal oil balance is achieved by integrating porous tube technology into the accumulator, where an oil storage tank releases the oil to the compressor as needed to prevent temperature fluctuations and changes in pressure.



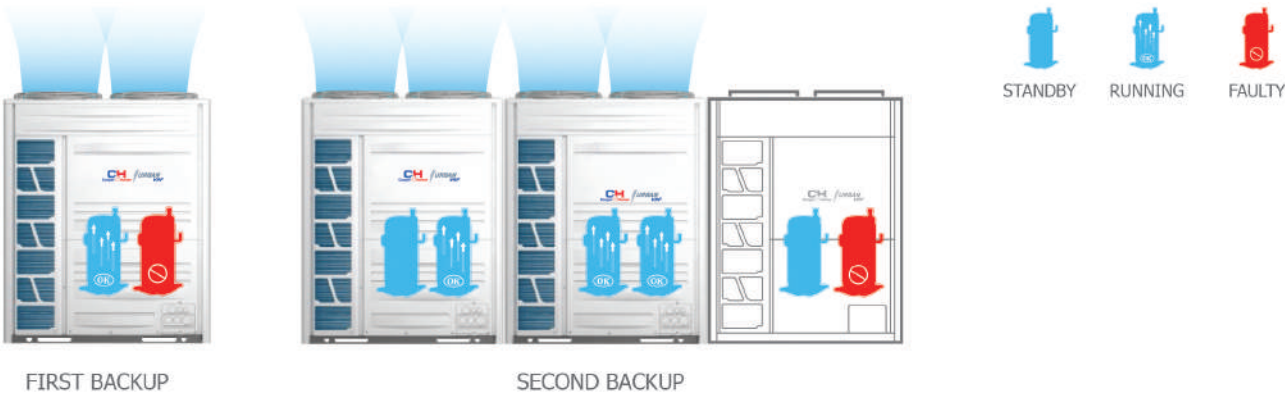
IMPROVED OIL RETENTION

The built-in oil cap reduces oil loss on start-up by 50% compared to conventional compressors. Efficient oil retention prevents failure of the compressor bearings by maintaining proper lubrication of the internal rotary components.



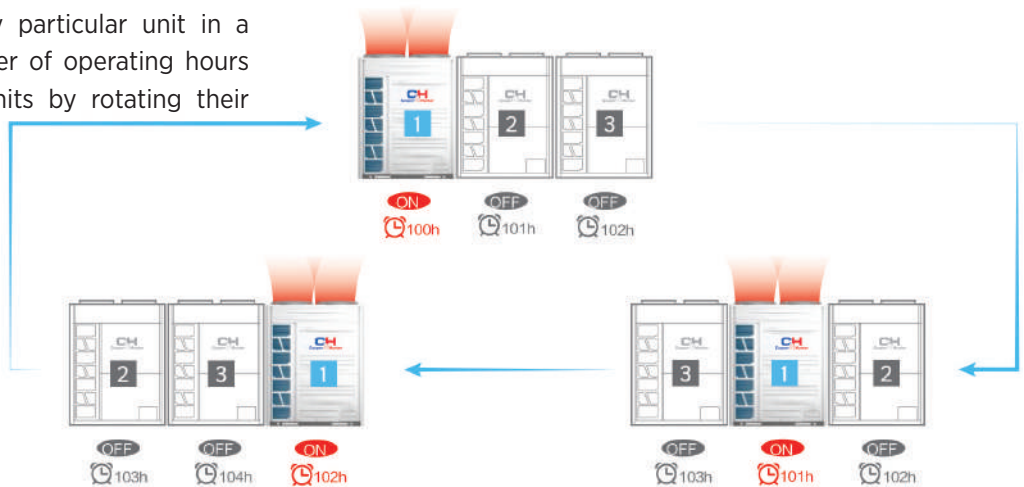
BACK-UP PROTECTION

Dual-compressor CHV6 systems provide the most reliable climate control. If one compressor fails, the second will operate in boost mode to ensure continued heating and cooling operation.



INTELLECTUAL ROTARY WORK

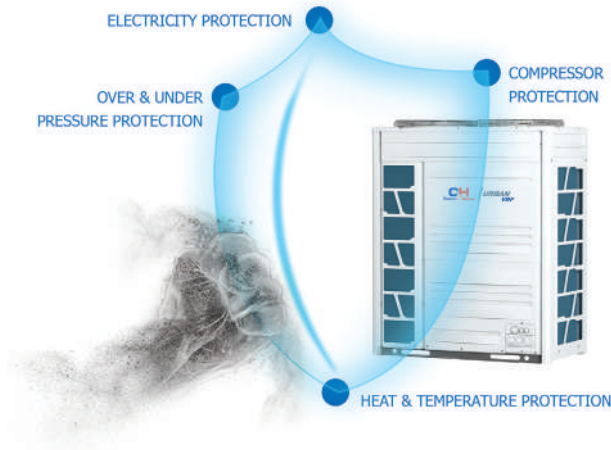
To prevent overuse of any particular unit in a modular system, the number of operating hours is maintained across all units by rotating their priority in use.



RELIABILITY

/// SELF-PROTECTION

Built-in algorithms, powered by a variety of sensors, take protective actions to prevent overheating, electrical issues, compressor malfunctions, and changes in pressures.



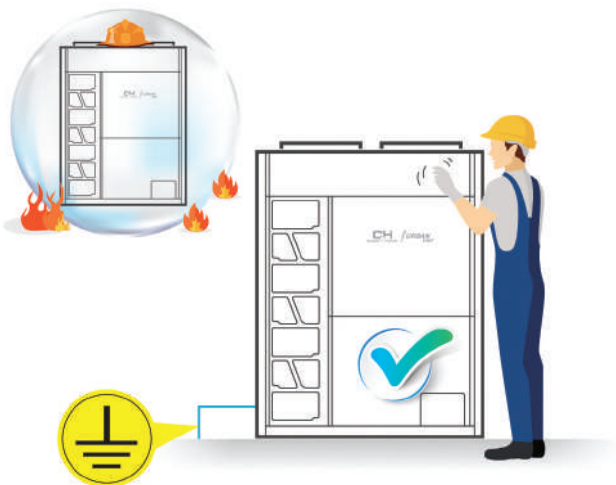
/// ELECTRICITY AND MAGNETISM PRECAUTIONS

Electromagnetic protection is a high priority for CHV6 equipment, which is often located on the rooftops of tall buildings. Cooper&Hunter's CHV 6 URBAN equipment has gone through testing in internationally qualified laboratories for quality checks in various conditions, including sudden high voltage of 4000V.



/// SAFETY AND PROTECTION

Cooper&Hunter's CHV6 systems comply with international standards and certifications by adhering to strict protective measures for fire resistance, electrical insulation, and proper grounding to prevent risk of danger.



/// WEATHERPROOF / SAFE FOR TRANSPORT

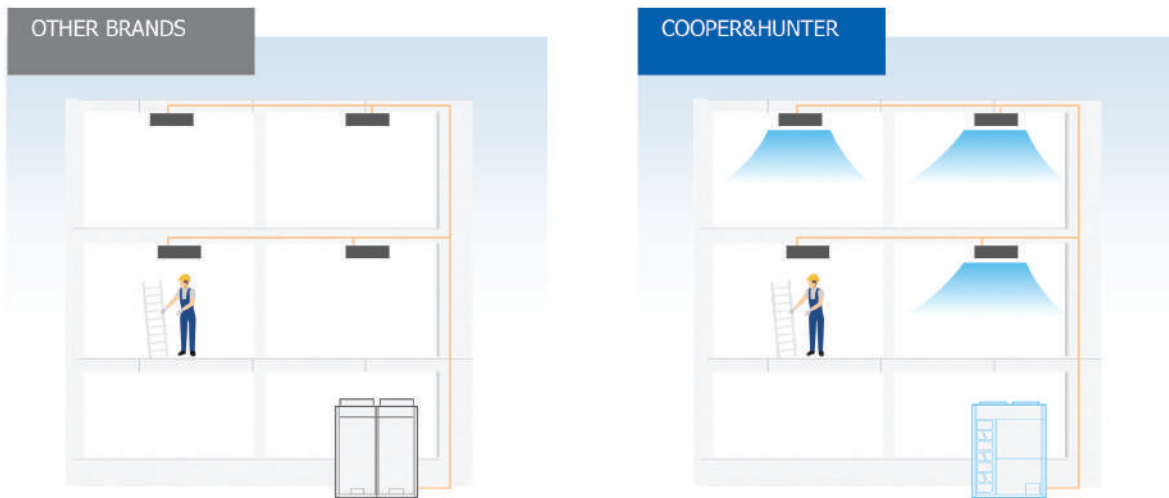
Cooper&Hunter's CHV6 URBAN equipment has forgone testing under a variety of extreme temperature conditions to ensure functionality and reliability in any weather.

Special laboratory simulators have been used to test conditions of the unit during shipping and transport by water, air, and land.



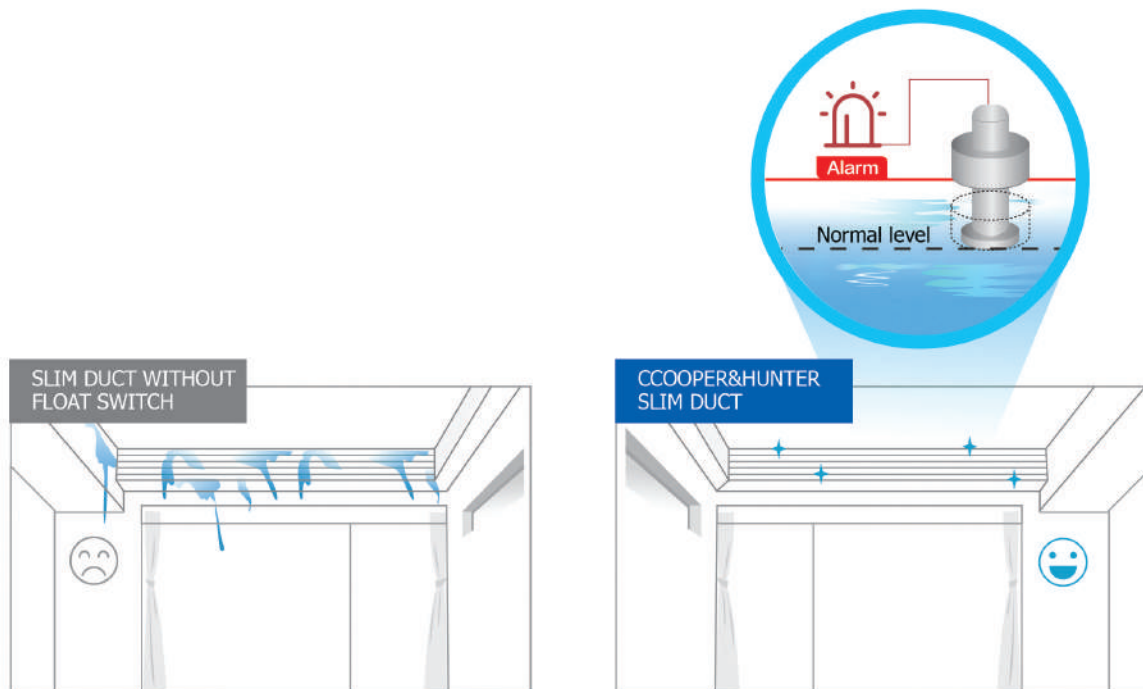
/// MAINTENANCE ZONING

In the event of a unit failure, the faulty system can be isolated for replacement or maintenance while the other units continue to operate. This allows continuous climate control, even during the troubleshooting or repair process.



/// CONDENSATE LEAKAGE PROTECTION

Even in the event of clogged drainpipes or a drain pump malfunction, Cooper&Hunter's slim ducted units are equipped with a built-in float switch to prevent overflow. An error code will be displayed when the condensate reaches a certain level and the unit will turn off automatically if the condensate exceeds the float switch level.



EFFICIENCY

NEW COMPRESSOR VAPOR TECHNOLOGY

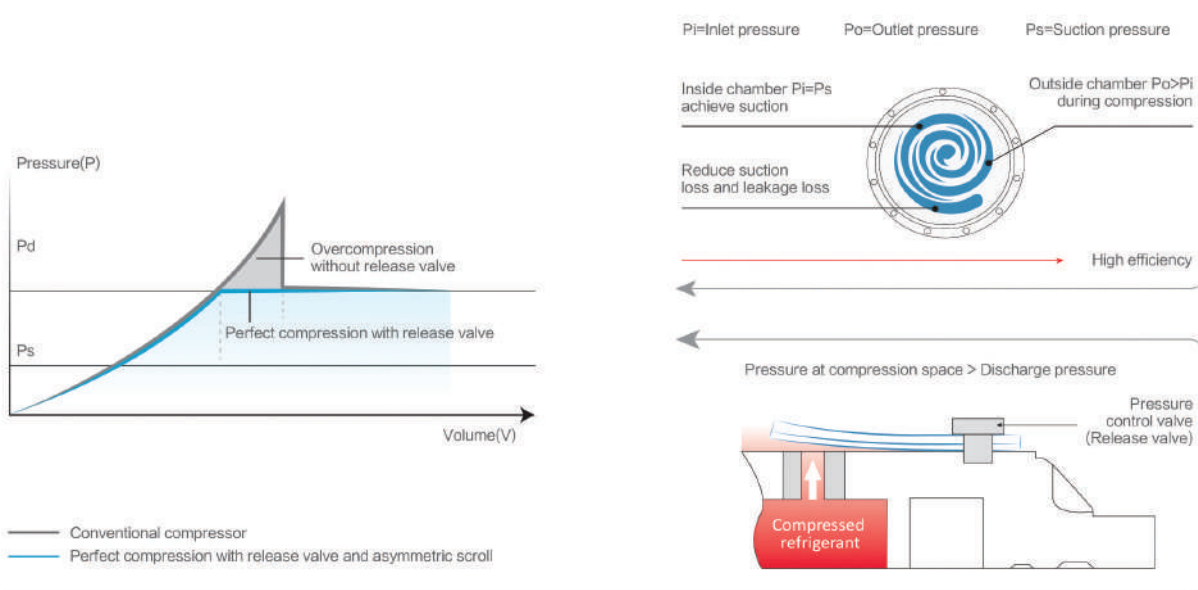
Cooper&Hunter's CHV6 systems are equipped with scroll compressors. Vapor injection technology increases heating performance and energy saving by up to 25%.

- 1 A new air suction design offers improved compressor efficiency under fast rotating speed conditions and improved compressor stability under heavy working load.
- 2 The overpressure relief valve improves efficiency by reducing compression loss, especially in medium and low production conditions.
- 3 The highly efficient drive frame design reduces leakage loss and friction loss.
- 4 A specialized exhaust system minimizes oil loss in the compressor.
- 5 Vapor injection technology increases heating performance and energy saving.
- 6 The high efficiency DC motor operates within a range of 27 speeds to save energy.
- 7 The oil balance pipe ensures reliability of the unit.
- 8 The oil separator keeps the oil in the compressor to increase longevity of the unit.
- 9 The use of PVE oil ensures high reliability and longevity.



ENERGY USE

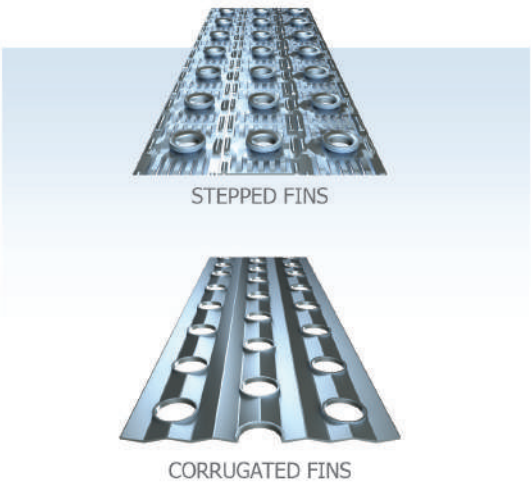
When refrigerant gas is compressed, it passes through an asymmetric volute and patented exhaust valve to reduce energy loss.



/// CORRUGATED FINS

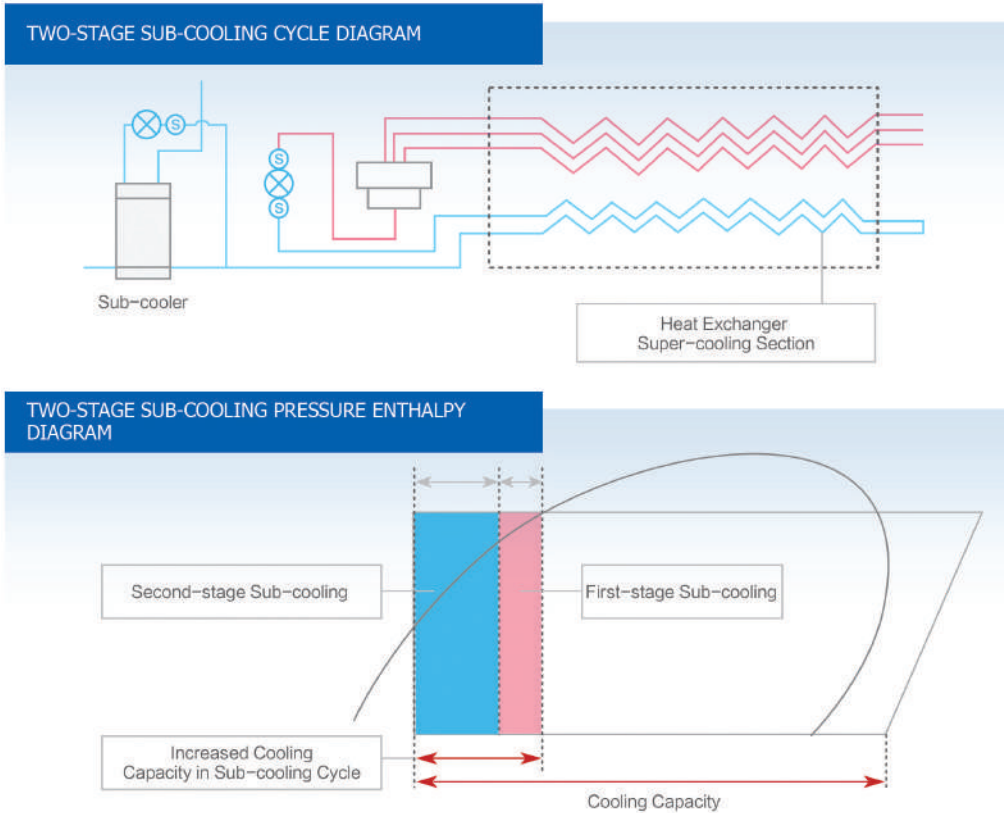
Improved heat exchange efficiency and durability are provided by a new fin design, which allows a larger number of fins to be placed within the exchanger, increasing the surface area by 22%. Compared to conventional brands, the Cooper&Hunter heat exchanger is 40% more resistant to frost and the range of operation of the heat exchanger for heating between defrosts is increased by 50%.

FEATURES AND BENEFITS		
Air Flow Resistance	Decreased 20%	↓
Total Heat Transfer Area	Improved 21.4%	↑
Heating Capacity Without Frost Test Condition 44°F DB / 42°F WB)	Improved 1-3%	↑
Heating Capacity With Frost Test Condition 80°F DB / 62°F WB)	Improved 8-12%	↑
Frost Resistance	Improved 40%	↑



/// SUBCOOLING TECHNOLOGY

The Cooper&Hunter outdoor heat exchanger is designed for optimum efficiency. The first stage of subcooling can reduce the temperature by 54.5°F while the second stage can reach up to 80.6°F for effective subcooling.

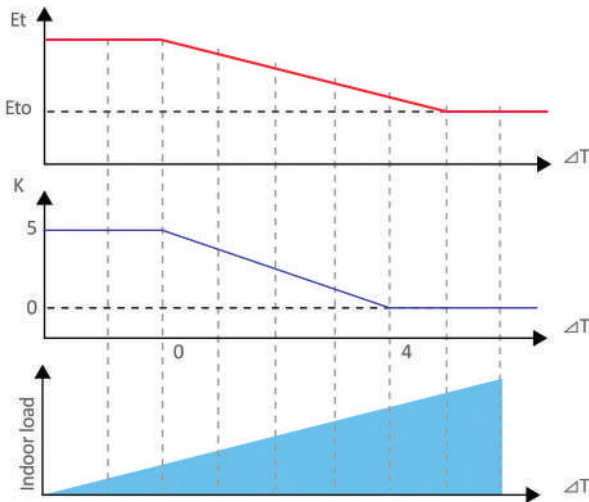


- Increases cooling capacity of the refrigerant
- Reduces resistance of refrigerant flow in pipelines
- Increases sub-cooling degree and electronic expansion valve control accuracy
- Increases sub-cooling degree, increasing the length of refrigerant pipe

EFFICIENCY

REFRIGERANT TEMPERATURE CONTROL

1. The evaporating temperature can be adjusted between 35.6°F and 60.8°F, which is the widest range in the market.
2. Fast cooling depends on a lower evaporating temperature.
3. Cold draft prevention is based on higher evaporating temperatures.
4. Energy can be saved by improving seasonal efficiency.



Evaporation temperature (E_t) control can be adjusted according to the difference between the room temperature (T_{in}) and the set temperature (T_{set}).

$$E_t = E_{to} + K$$

$$\Delta T = T_{in} - T_{set}$$

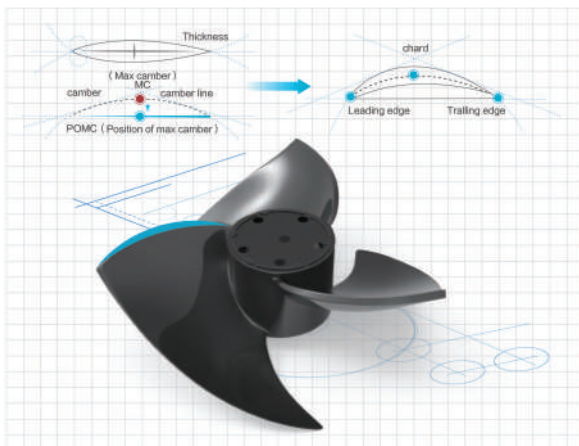
E_{tn} = Evaporating temperature

E_{to} = initial value of the evaporating temperature (can be adjusted by setting the outdoor unit)

K = can be automatically adjusted according to the difference between room temperature and set temperature ΔT .

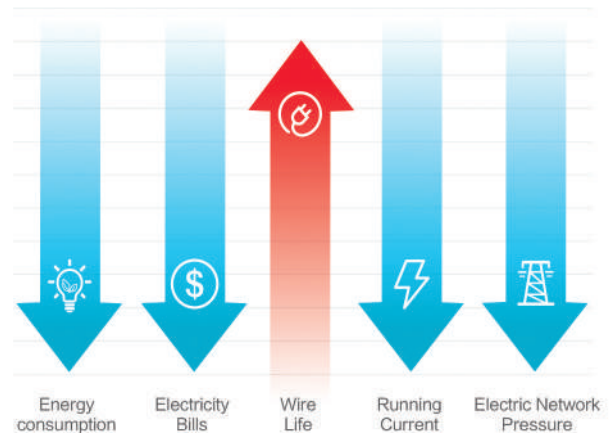
AERODYNAMIC AXIAL FAN

When converting input power into wasted noise energy, the aerodynamic design of Cooper&Hunter's fan blades reduces energy loss while improving flow performance and static pressure. Enhanced efficiency and reduced noise level can also be attributed to the combination of the axial fan with a brushless DC fan motor.



BALANCED POWER DEMAND

When the CHV6 system is in peak power demand, it automatically balances between maintaining comfort and saving energy while meeting daily power needs.



/// DEPENDABLE DEFROST & ANTI-FROST STRUCTURE

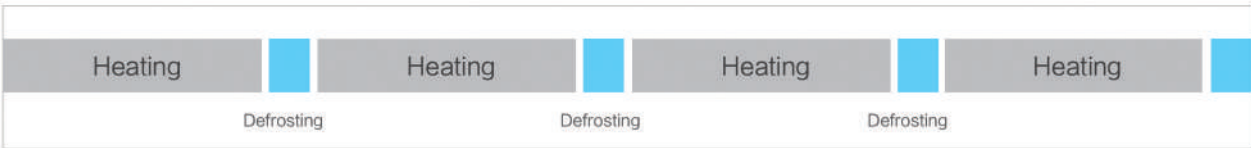
When low temperatures and humidity combine, water vapor in the air can accumulate and solidify as frost in the outdoor unit. For conventional units, frost accumulation on the heat exchanger can cause system malfunction or failure, but Cooper&Hunter's intelligent Defrost determines the optimal time to liquify and remove the frost, saving unnecessary energy loss associated with traditional defrost methods, and maintaining indoor comfort.

To prevent excess frost in the outdoor unit, the heat exchanger circuit extends to the bottom of the unit. This ensures that the frost does not solidify as it reaches the condensate drain and, therefore, allows smooth drainage flow. The extended heat exchanger also results in a longer interval between defrosting periods.

C&H DEFROST



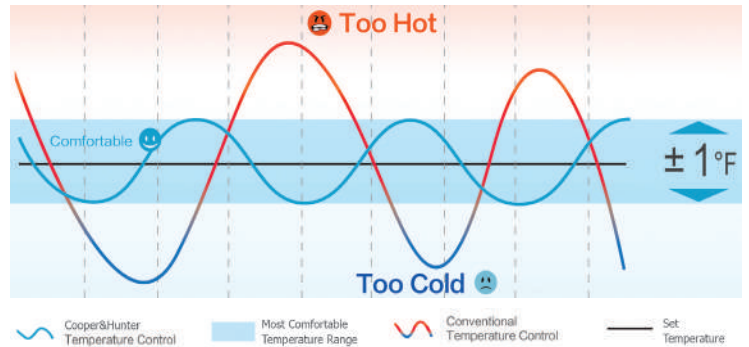
CONVENTIONAL DEFROST



COMFORT

TEMPERATURE ACCURACY

Cooper&Hunter CHV6 systems utilize a return air temperature sensor in combination with a temperature sensor on the remote control to accurately determine the room temperature and provide temperature stability within the 1°F range.



2,000 STEP EVAPORATOR EEV

A 1°F range of accuracy is achieved with a high precision 2,000-step Electronic Expansion valve (EEV) to control the flow of refrigerant based on real-time room temperature feedback from temperature sensors on controllers and indoor units. The EEV ensures accurate flow adjustment according to the actual indoor unit load.



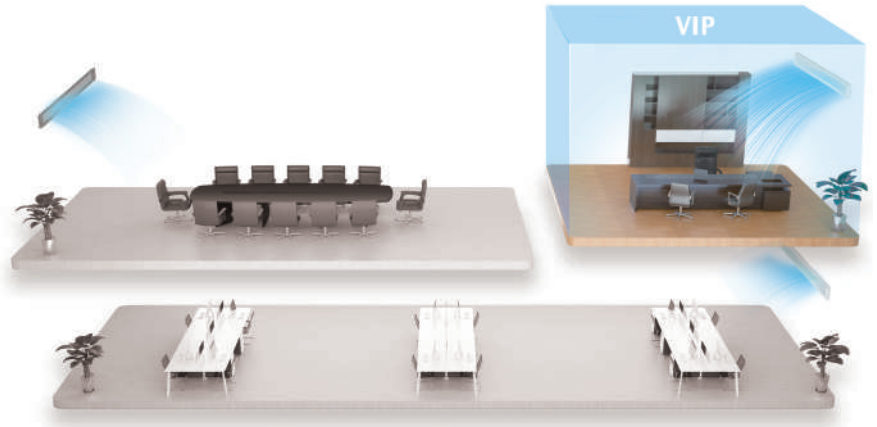
QUIET INDOOR UNITS & NIGHT MODE FOR OUTDOOR UNITS

With a noise level as low as 19 dB(A), Cooper&Hunter's CHV indoor units offer a suitably silent solution for libraries, hospitals, and auditoriums, which often require noise levels below 25 dB(A). To reduce noise from the outdoor unit at night, Night Mode can be set on the outdoor unit PCB to reduce noise by up to 15 dB(A) for 8-10 hours every night. Advanced technology allows the user to specify the noise reduction value and the maximum operating frequency of fans and compressors during these hours.



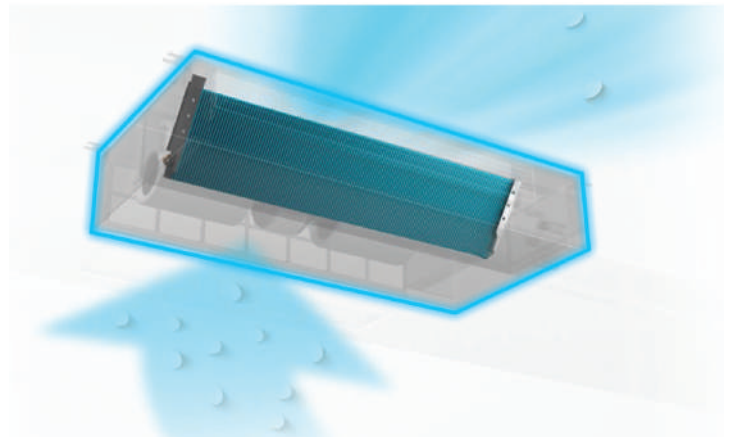
/// VIP MODE

VIP mode allows for important zones or rooms to be prioritized for comfort as quickly as possible. This feature is particularly convenient in locations like hotels, where it is important to provide the best comfort solutions for presidential suites.



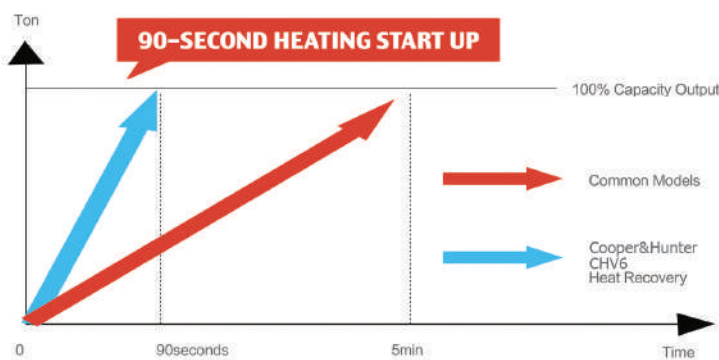
/// DEHUMIDIFICATION

Cooper&Hunter's CHV6 systems offer dependable cooling and heating as well as powerful dehumidification, which inhibits the growth of bacteria and provides a more comfortable indoor environment. The humidity sensor is located inside of the indoor unit to measure and control humidity with optimum precision.



/// 90-SECOND START-UP

Even in extremely low temperatures, Cooper&Hunter's CHV6 systems provide a quick heating solution, taking only 90 seconds to reach 100% heating performance.



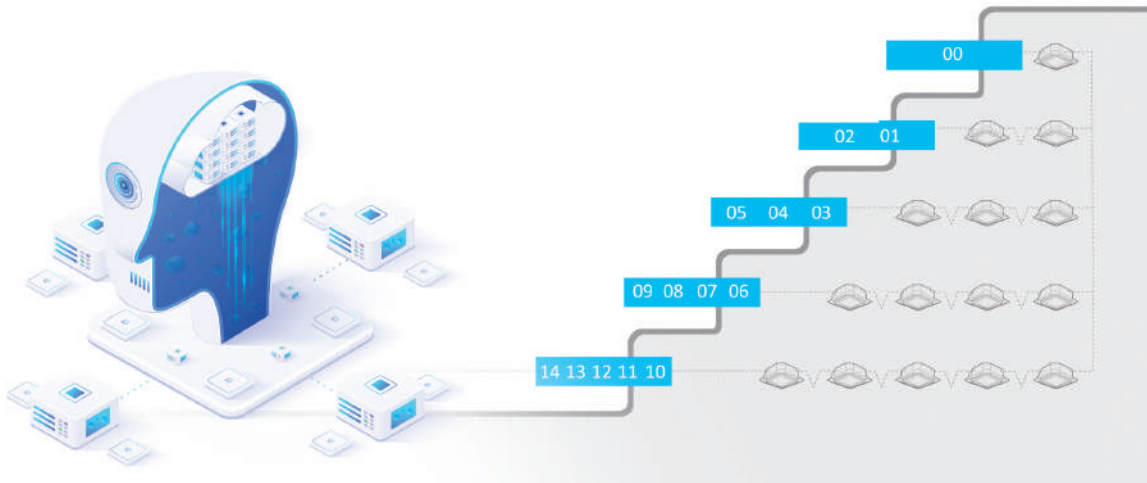
*Taking 34Ton as an example



VERSATILITY

/// AUTOMATIC ADDRESSING

Up to 64 indoor units can be connected to one CHV6 outdoor unit. To eliminate the tedious task of manually addressing each of the indoor units, C&H systems utilize automatic addressing technology which addresses the indoor units by default. This can be useful for trouble-shooting scenarios when only one or few indoor units are faulty.



/// SAFE & CONVENIENT SYSTEM OPERATION

CHV6 outdoor units are equipped with a service window at the top of the junction box guard for easy access to the 7-segment LED display, DIP switches, and other control buttons. Using the service window for parameter checks and maintenance reduces chances of electrical shock by keeping the high-voltage components safely behind the compartment cover.



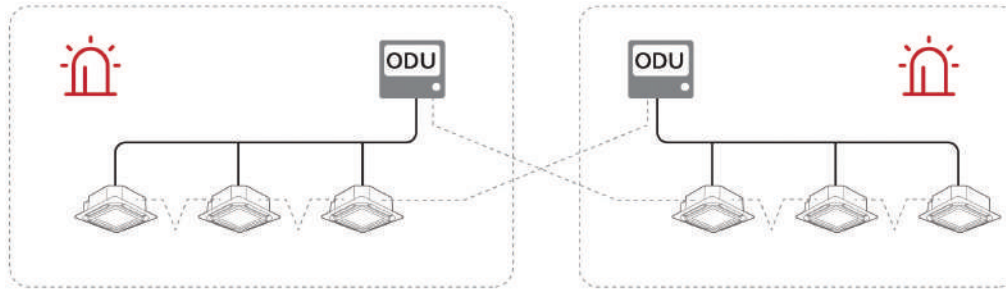
/// COMPACT & LIGHTWEIGHT

CHV6 units are compact in size and relatively lightweight. The 16 Ton chassis, which is the largest capacity per CHV6 unit, fits into a standard elevator space for transport, offering a convenient and economical solution for existing refurbishment projects as well as new installations.



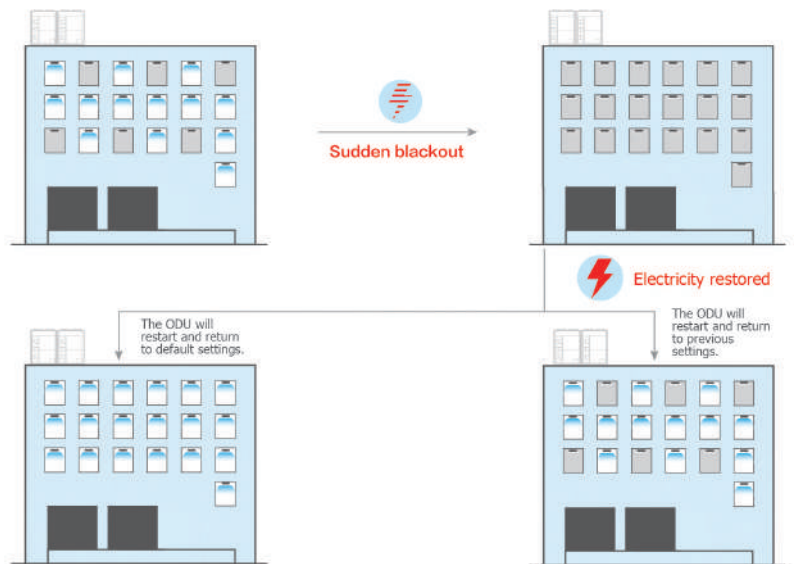
/// COMMUNICATION ERROR ALERT

Cross-wiring, one of the most common mistakes made when installing A/C systems, can cause a variety of errors or system malfunction. The CHV6 condensers feature simplified wiring ports equipped with technology that will display warnings when the wires are connected incorrectly.



/// AUTO RESTART

In the event of a power outage, Cooper&Hunter CHV6 systems can be programmed to restart automatically, either by restoring to previous settings or with a full system restart to default settings. The auto restart function is most convenient in rooms where people are not usually present, such as hardware rooms, server rooms, etc.



/// OUTDOOR UNIT LED

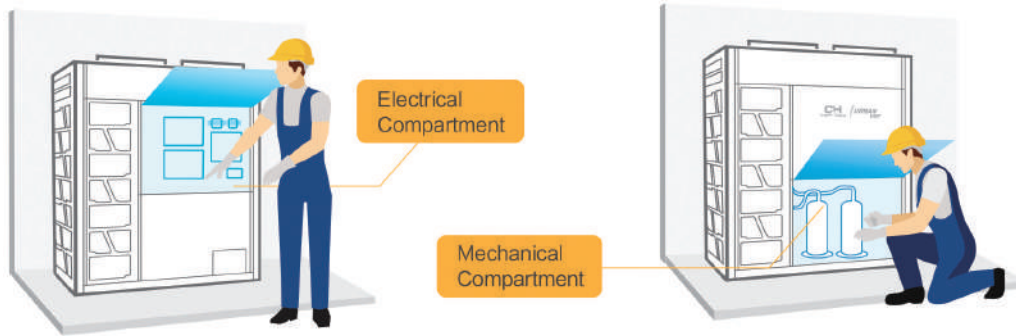
CHV6 outdoor units include a 7-segment LED which displays error codes and can be utilized when checking refrigerant, pressures, compressor frequency, alarm codes, and more. The LED conveniently simplifies operation and maintenance.



VERSATILITY

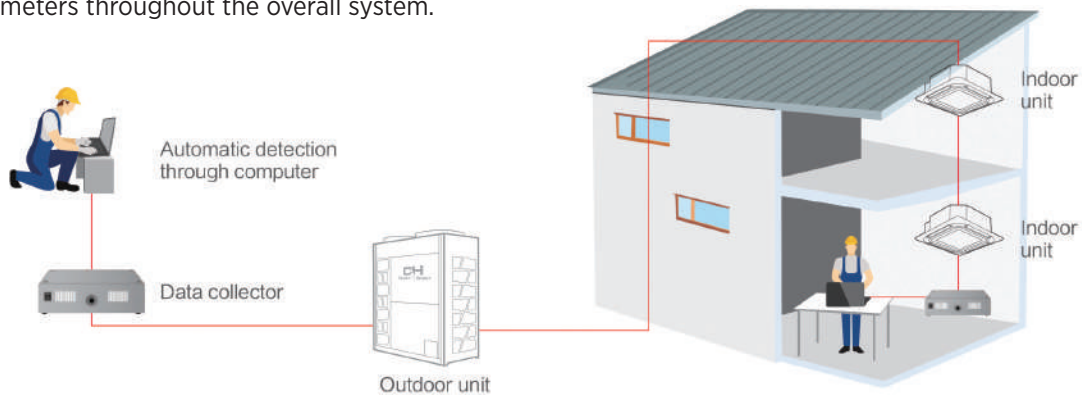
/// ELECTRICAL & MECHANICAL SEPARATION

CHV6 outdoor units are intelligently designed with separated electrical and mechanical compartments for more organized service and maintenance. Electrical and electronic parts are positioned above the compressors and accumulator to comply with the practical law of the center of gravity, reducing chances of tip-over accidents and unnecessary vibration during operation. This design also helps to maintain a stable level of heat in the electrical box and maximize airflow.



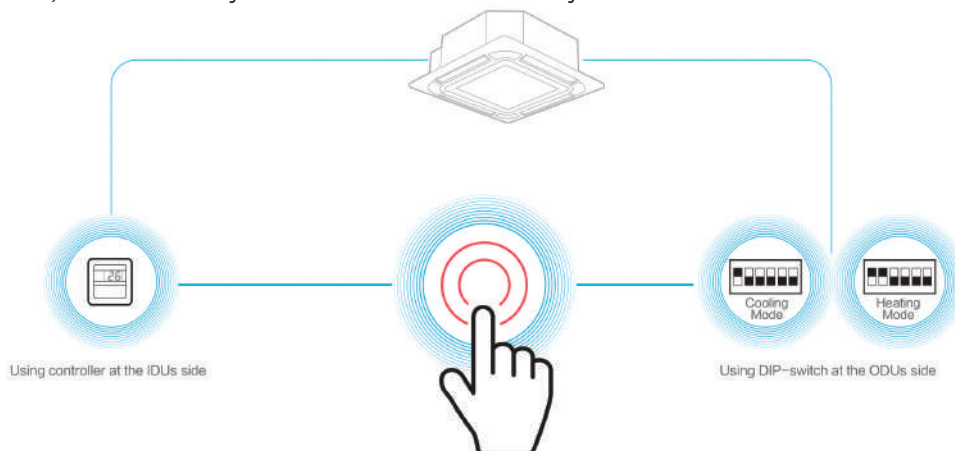
/// INTELLIGENT SYSTEM MONITORING

Cooper&Hunter offers an optional service tool for system monitoring, which greatly simplifies maintenance and troubleshooting for large systems. Indoor and outdoor units can be connected for real-time readings and monitoring of various parameters throughout the overall system.



/// CONVENIENT TEST RUN

When an installation is complete, it is important for the installer to test the A/C system and verify that it is in proper working condition. For testing convenience, there is a quick test run function which can be initiated at either the indoor or the outdoor unit, so the whole system will start simultaneously.



OUTDOOR UNITS

CHV6 INTRODUCES THE FIRST HEAT RECOVERY SYSTEM FROM COOPER&HUNTER IN THE US MARKET.

CHV6 Urban heat recovery systems, which require 3 refrigerant pipes, are able to provide simultaneous cooling and heating throughout a building or can be adapted into heat pumps with only 2 refrigerant pipes.

CHV6 Mini Urban systems offer a heat pump solution for slightly smaller applications.



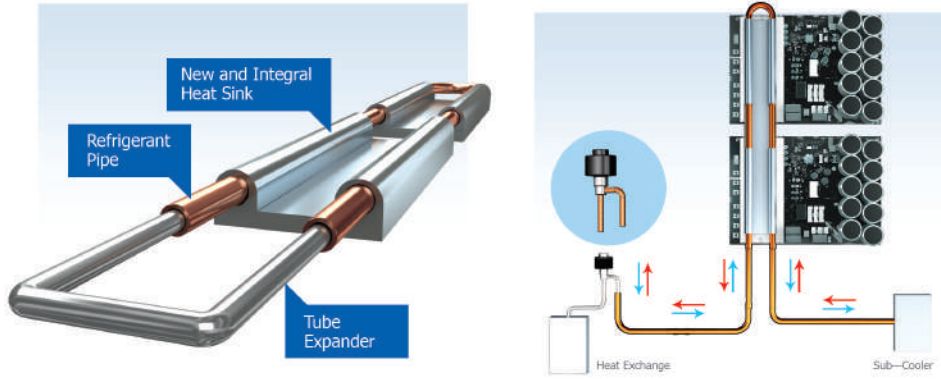
CHV6 URBAN **CHV6 MINI URBAN**

- CHV6 URBAN 208-230V
- CHV6 URBAN 460V
- CHV6 HYPER HEAT 208-230V
- CHV6 HYPER HEAT 460V
- CHV6 MINI URBAN

CHV6 URBAN

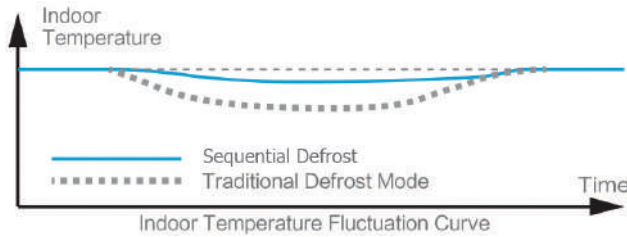
ADVANCED HEAT SINK DESIGN

CHV6 Urban series utilizes built-in heat sinks to efficiently dissipate heat from the outdoor PCB, inverter module, and electrical box, improving the electrical reliability of the system.



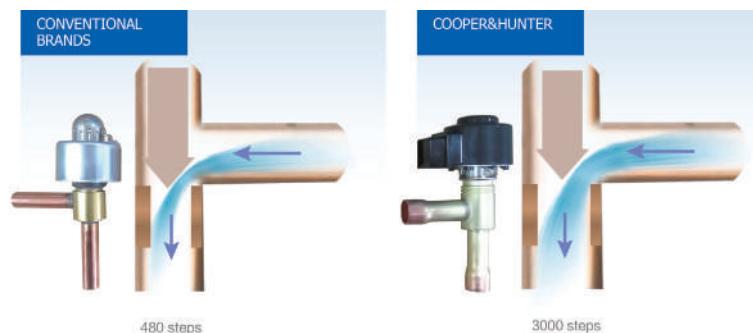
SEQUENTIAL DEFROST

In the event that a CHV6 modular system begins to freeze up, the URBAN series will defrost and heat at the same time to prevent any uncomfortable temperature fluctuations during the defrosting process. The system will automatically shift the defrost priority between the multiple outdoor units to ensure that they are all evenly utilized.



3,000-STEP OUTDOOR EEV

The 3,000-step outdoor EEV allows more precise refrigerant flow to the system.



/// FLEXIBLE INSTALLATION PARAMETERS

Installation for Cooper&Hunter CHV6 Urban systems is highly flexible with a maximum pipe length of 3,281 ft and a maximum height difference between indoor and outdoor units of 295 ft.

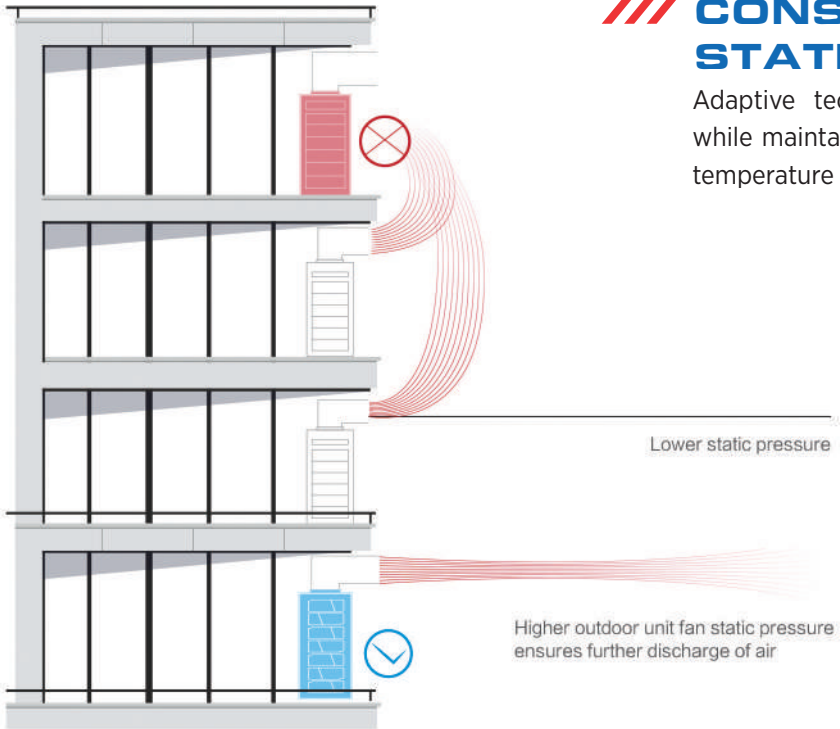
Maximum length of a single pipe: 623 ft (190m)
Total length of pipes: 3,281 ft (1,000m)

Maximum height difference of indoor units: 49 ft (15m) (Can be extended to 98 ft (30m) in some cases)

Maximum height difference between indoor and outdoor units:
When the outdoor unit is higher: 164 ft (50m) (Can be extended to 295 ft (90m) in some cases)
When the indoor unit is higher: 131 ft (40m) (Can be extended to 295 ft (90m) in some cases)

Maximum length from the first branch pipe to the farthest indoor unit: 295 ft (90m)

Maximum pipe length between outdoor units: 33 ft (10m)



/// CONSISTENT FAN STATIC PRESSURE

Adaptive technology allows CHV6 systems to defrost while maintaining a steady static pressure, reducing room temperature fluctuation.



Higher outdoor unit fan static pressure ensures further discharge of air

CHV6 URBAN

208~230V



Model Name			CHV6-072URB	CHV6-096URB	CHV6-120URB	CHV6-144URB	CHV6-168URB	CHV6-192URB	
Unit Group Configuration			1x CHV6-072URB	1x CHV6-096URB	1x CHV6-120URB	1x CHV6-144URB	1x CHV6-168URB	1x CHV6-192URB	
Nominal Tonnage		RTU	6	8	10	12	14	16	
Capacity	Cooling	Btu/h	69,000	92,000	114,000	138,000	160,000	184,000	
	Heating	Btu/h	75,000	100,000	126,000	150,000	170,000	200,000	
Input Power		kW	5.69/6.27	7.87/7.96	9.65/10.45	12.7/13.46	14.57/15.51	16.14/17.87	
EER (Ducted/Non-Ducted)		Btu/h/W	12.15/14.80	11.80/14.05	11.80/13.90	10.85/12.10	11.0/11.85	11.40/11.85	
COP 47°F (Ducted/Non-Ducted)		W/W	3.51/4.15	3.68/4.10	3.53/4.30	3.27/3.61	3.21/3.49	3.28/3.51	
Power Supply		V/Ph/Hz	208-230V / 3Ph / 60Hz						
Electrical Parameters		MCA	A	34.3	41.2	49.3	60.1	62.3	78.1
		MOP	A	45	50	60	80	80	100
Max Connectable Indoor Units		N ^o	13	16	19	23	29	33	
Sound Pressure Level		dB(A)	59	60	62	62	62	63	
Dimensions		H	68.13	68.13	68.13	68.13	68.13	68.13	
		W	37.09	37.09	47.63	53.16	53.16	63.00	
		D	29.22	29.22	29.22	29.22	29.22	29.22	
Connection Pipe Diameter	Heat Recovery Operation System	Low Pressure Gas Pipe	in.	3/4	7/8	1 1/8	1 1/8	1 1/8	1 1/8
		High/Low Pressure Gas Pipe		5/8	3/4	7/8	7/8	7/8	7/8
	Liquid Pipe	3/8		3/8	1/2	1/2	1/2	5/8	
	Heat Pump Operation System	High/Low Pressure Gas Pipe		3/4	7/8	1 1/8	1 1/8	1 1/8	1 1/8
		Liquid Pipe		3/8	3/8	1/2	1/2	1/2	5/8
Refrigerant			R410A						
Compressor			Scroll Comp						
Compressor Quantity			1	1	1	2	2	2	
Refrigerant Charge Before Shipment		lbs.	13.2	13.2	19.4	21.6	21.6	25.4	
Weight	Net Weight	lbs.	534	536	637	796	798	858	
	Gross Weight	lbs.	595	597	705	864	866	930	
Total Piping Length		ft.	3,280						
Operation Range	Cooling	°F	14-126						
	Heating	°F	-13-62						

- The above cooling and heating capacities reflect the outdoor unit operating at 100% rating of indoor units, Cooling Operation Conditions: Indoor Air Inlet Temperature: 80°F DB 67°F WB, Outdoor Air Inlet Temperature: 95°F DB, Piping Length: 25ft., Piping Lift: 0ft., Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 70°F DB, Outdoor Air Inlet Temperature: 47°F DB 43°F WB.
- Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene. Measurement point: 3.3ft. from the service cover surface and 4.9ft. from floor level.
- The actual appearance of outdoor units may differ from photos.
- Specifications are subject to change without notice.



CHV6 URBAN

208~230V

Model Name			CHV6-216URB	CHV6-240URB	CHV6-264URB	CHV6-288URB	
Unit Group Configuration			1x CHV6-096URB 1x CHV6-120URB	2x CHV6-120URB	1x CHV6-120URB 1x CHV6-144URB	2x CHV6-144URB	
Nominal Tonnage		RTU	18	20	22	24	
Capacity	Cooling	Btu/h	206,000	228,000	252,000	275,500	
	Heating	Btu/h	226,000	252,000	276,000	300,500	
Input Power		kW	17.45/18.41	19.3/20.9	22.35/23.91	25.4/26.92	
EER (Ducted/Non-Ducted)		Btu/h/W	11.81/13.96	11.81/13.89	11.26/12.86	10.85/12.11	
COP 47°F (Ducted/Non-Ducted)		W/W	3.60/4.21	3.53/4.30	3.38/3.90	3.27/3.61	
Power Supply		V/Ph/Hz	208-230V / 3Ph / 60Hz				
Electrical Parameters		MCA	A	41.2+49.3	49.3+49.3	49.3+60.1	60.1+60.1
		MOP	A	50+60	60+60	60+80	80+80
Max Connectable Indoor Units		N ^o	36	43	47	50	
Sound Pressure Level		dB(A)	64	65	65	65	
Dimensions		H	68.13	68.13	68.13	68.13	
		W D	37.09+47.63 29.22	47.63+47.63 29.22	47.63+53.16 29.22	53.16+53.16 29.22	
Connection Pipe Diameter	Heat Recovery Operation System	Low Pressure Gas Pipe	in.	1 1/8	1 1/4	1 1/4	1 1/4
		High/Low Pressure Gas Pipe		1 1/8	1 1/8	1 1/8	1 1/8
	Liquid Pipe	5/8		3/4	3/4	3/4	
	Heat Pump Operation System	High/Low Pressure Gas Pipe		1 1/8	1 1/4	1 1/4	1 1/4
		Liquid Pipe		5/8	3/4	3/4	3/4
Refrigerant			R410A				
Compressor			Scroll Comp				
Compressor Quantity			1+1	1+1	1+2	2+2	
Refrigerant Charge Before Shipment		lbs.	13.2+19.4	19.4+19.4	19.4+21.6	21.6+21.6	
Weight	Net Weight	lbs.	536+637	637+637	637+796	796+796	
	Gross Weight	lbs.	597+705	705+705	705+864	864+864	
Total Piping Length		ft.	3,280				
Operation Range		Cooling	°F 14-126				
		Heating	°F -13-62				

- The above cooling and heating capacities reflect the outdoor unit operating at 100% rating of indoor units, Cooling Operation Conditions: Indoor Air Inlet Temperature: 80°F DB 67°F WB, Outdoor Air Inlet Temperature: 95°F DB, Piping Length: 25ft., Piping Lift: 0ft., Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 70°F DB, Outdoor Air Inlet Temperature: 47°F DB 43°F WB.
- Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene. Measurement point: 3.3ft. from the service cover surface and 4.9ft. from floor level.
- The actual appearance of outdoor units may differ from photos.
- Specifications are subject to change without notice.

CHV6 URBAN

208~230V



Model Name			CHV6-312URB	CHV6-336URB	CHV6-360URB	CHV6-384URB	
Unit Group Configuration			1x CHV6-144URB 1x CHV6-168URB	2x CHV6-168URB	1x CHV6-168URB 1x CHV6-192URB	2x CHV6-192URB	
Nominal Tonnage		RTU	26	28	30	32	
Capacity	Cooling	Btu/h	298,000	320,000	344,000	368,000	
	Heating	Btu/h	320,000	340,000	370,000	400,000	
Input Power		kW	27.27/28.97	29.14/31.02	30.71/33.38	32.28/35.74	
EER (Ducted/Non-Ducted)		Btu/h/W	10.92/11.98	10.99/11.84	11.19/11.84	11.40/11.84	
COP 47°F (Ducted/Non-Ducted)		W/W	3.24/3.54	3.21/3.49	3.25/3.50	3.28/3.51	
Power Supply		V/Ph/Hz	208-230V / 3Ph / 60Hz				
Electrical Parameters		MCA	A	60.1+62.3	62.3+62.3	62.3+78.1	78.1+78.1
		MOP	A	80+80	80+80	80+100	100+100
Max Connectable Indoor Units		N ^o	53	59	64	64	
Sound Pressure Level		dB(A)	65	65	66	66	
Dimensions		H	68.13	68.13	68.13	68.13	
		W	53.16+53.16	53.16+53.16	53.16+63	63+63	
		D	29.22	29.22	29.22	29.22	
Connection Pipe Diameter	Heat Recovery Operation System	Low Pressure Gas Pipe	in.	1 1/4	1 1/2	1 1/2	1 1/2
		High/Low Pressure Gas Pipe		1 1/8	1 1/8	1 1/4	1 1/4
	Liquid Pipe	3/4		3/4	3/4	3/4	
	Heat Pump Operation System	High/Low Pressure Gas Pipe		1 1/4	1 1/2	1 1/2	1 1/2
		Liquid Pipe		3/4	3/4	3/4	3/4
Refrigerant			R410A				
Compressor			Scroll Comp				
Compressor Quantity			2+2	2+2	2+2	2+2	
Refrigerant Charge Before Shipment		lbs.	21.6+21.6	21.6+21.6	21.6+25.4	25.4+25.4	
Weight	Net Weight	lbs.	796+798	798+798	798+858	858+858	
	Gross Weight	lbs.	864+866	866+866	866+930	930+930	
Total Piping Length		ft.	3,280				
Operation Range		Cooling	°F 14-126				
		Heating	°F -13-62				

1. The above cooling and heating capacities reflect the outdoor unit operating at 100% rating of indoor units, Cooling Operation Conditions: Indoor Air Inlet Temperature: 80°F DB 67°F WB, Outdoor Air Inlet Temperature: 95°F DB, Piping Length: 25ft., Piping Lift: 0ft., Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 70°F DB, Outdoor Air Inlet Temperature: 47°F DB 43°F WB.
2. Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
3. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene. Measurement point: 3.3ft. from the service cover surface and 4.9ft. from floor level.
4. The actual appearance of outdoor units may differ from photos.
5. Specifications are subject to change without notice.

CHV6 URBAN

208~230V



Model Name			CHV6-408URB	CHV6-432URB	CHV6-456URB	
Unit Group Configuration			1x CHV6-120URB 2x CHV6-144URB	3x CHV6-144URB	2x CHV6-144URB 1x CHV6-168URB	
Nominal Tonnage		RTU	34	36	38	
Capacity	Cooling	Btu/h	389,500	413,500	435,500	
	Heating	Btu/h	426,000	450,500	470,000	
Input Power		kW	35.05/37.37	38.1/40.38	39.97/42.43	
EER (Ducted/Non-Ducted)		Btu/h/W	11.12/12.59	10.85/12.11	10.88/12.01	
COP 47°F (Ducted/Non-Ducted)		W/W	3.34/3.79	3.27/3.61	3.25/3.57	
Power Supply		V/Ph/Hz	208-230V / 3Ph / 60Hz			
Electrical Parameters		MCA	A	49.3+60.1+60.1	60.1+60.1+60.1	60.1+60.1+ 60.3
		MOP	A	60+80+80	80+80+80	80+80+80
Max Connectable Indoor Units		N ^o	64	64	64	
Sound Pressure Level		dB(A)	67	67	67	
Dimensions		H	68.13	68.13	68.13	
		W D	47.63+53.16+53.16 29.22	53.16+53.16+53.16 29.22	53.16+53.16+53.16 29.22	
Connection Pipe Diameter	Heat Recovery Operation System	Low Pressure Gas Pipe	in.	1 1/2	1 1/2	1 1/2
		High/Low Pressure Gas Pipe		1 1/4	1 1/4	1 1/4
	Liquid Pipe	3/4		3/4	3/4	
	Heat Pump Operation System	High/Low Pressure Gas Pipe		1 1/2	1 1/2	1 1/2
		Liquid Pipe		3/4	3/4	3/4
Refrigerant			R410A			
Compressor			Scroll Comp			
Compressor Quantity			1+2+2	2+2+2	2+2+2	
Refrigerant Charge Before Shipment		lbs.	19.4+21.6+21.6	21.6+21.6+21.6	21.6+21.6+21.6	
Weight	Net Weight	lbs.	637+796+796	796+796+796	796+796+798	
	Gross Weight	lbs.	705+864+864	864+864+864	864+864+866	
Total Piping Length		ft.	3,280.8			
Operation Range		Cooling	°F 14-126			
		Heating	°F -13-62			

- The above cooling and heating capacities reflect the outdoor unit operating at 100% rating of indoor units, Cooling Operation Conditions: Indoor Air Inlet Temperature: 80°F DB 67°F WB, Outdoor Air Inlet Temperature: 95°F DB, Piping Length: 25ft., Piping Lift: 0ft., Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 70°F DB, Outdoor Air Inlet Temperature: 47°F DB 43°F WB.
- Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahrirectory.org.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene. Measurement point: 3.3ft. from the service cover surface and 4.9ft. from floor level.
- The actual appearance of outdoor units may differ from photos.
- Specifications are subject to change without notice.

CHV6 URBAN

460V



Model Name			CHV6-072SRB	CHV6-096SRB	CHV6-120SRB	CHV6-144SRB	CHV6-168SRB	CHV6-192SRB	
Unit Group Configuration			1x CHV6-072SRB	1x CHV6-096SRB	1x CHV6-120SRB	1x CHV6-144SRB	1x CHV6-168SRB	1x CHV6-192SRB	
Nominal Tonnage		RTU	6	8	10	12	14	16	
Capacity	Cooling	Btu/h	69,000	92,000	114,000	138,000	160,000	184,000	
	Heating	Btu/h	75,000	100,000	126,000	150,000	170,000	200,000	
Input Power		kW	6.05/6.47	8.29/8.35	10.27/10.79	13.14/13.71	15.38/15.56	17.2/18.2	
EER (Ducted/Non-Ducted)		Btu/h/W	11.4/13.9	11.1/13.2	11.1/13.0	10.5/11.4	10.4/11.1	10.7/11.2	
COP 47°F (Ducted/Non-Ducted)		W/W	3.40/4.03	3.57/3.98	3.42/4.17	3.21/3.50	3.20/3.39	3.22/3.40	
Power Supply		V/Ph/Hz	460V / 3Ph / 60Hz						
Electrical Parameters		MCA	A	18.4	23.4	25.8	29.0	35.1	39.8
		MOP	A	30	40	40	40	45	50
Max Connectable Indoor Units		N ^o	13	16	19	23	29	33	
Sound Pressure Level		dB(A)	59	60	62	62	62	63	
Dimensions		H	68.13	68.13	68.13	68.13	68.13	68.13	
		W	37.09	37.09	47.63	53.16	53.16	63.00	
		D	29.22	29.22	29.22	29.22	29.22	29.22	
Connection Pipe Diameter	Heat Recovery Operation System	Low Pressure Gas Pipe	in.	3/4	7/8	1 1/8	1 1/8	1 1/8	1 1/8
		High/Low Pressure Gas Pipe	in.	5/8	3/4	7/8	7/8	7/8	7/8
	Liquid Pipe	in.	3/8	3/8	1/2	1/2	1/2	5/8	
	Heat Pump Operation System	High/Low Pressure Gas Pipe	in.	3/4	7/8	1 1/8	1 1/8	1 1/8	1 1/8
		Liquid Pipe	in.	3/8	3/8	1/2	1/2	1/2	5/8
Refrigerant			R410A						
Compressor			Scroll Comp						
Compressor Quantity			1	1	1	2	2	2	
Refrigerant Charge Before Shipment		lbs.	13.2	13.2	19.4	21.6	21.6	25.4	
Weight	Net Weight	lbs.	549	549	670	820	822	886	
	Gross Weight	lbs.	608	608	738	893	895	970	
Total Piping Length		ft.	3,280						
Operation Range	Cooling	°F	14-126						
	Heating	°F	-13-62						

- The above cooling and heating capacities reflect the outdoor unit operating at 100% rating of indoor units. Cooling Operation Conditions: Indoor Air Inlet Temperature: 80°F DB 67°F WB, Outdoor Air Inlet Temperature: 95°F DB, Piping Length: 25ft., Piping Lift: 0ft.. Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 70°F DB, Outdoor Air Inlet Temperature: 47°F DB 43°F WB.
- Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene. Measurement point: 3.3ft. from the service cover surface and 4.9ft. from floor level.
- The actual appearance of outdoor units may differ from photos.
- Specifications are subject to change without notice.



CHV6 URBAN

460V

Model Name			CHV6-216SRB	CHV6-240SRB	CHV6-264SRB	CHV6-288SRB	
Unit Group Configuration			1x CHV6-096SRB 1x CHV6-120SRB	2x CHV6-120SRB	1x CHV6-120SRB 1x CHV6-144SRB	2x CHV6-144SRB	
Nominal Tonnage		RTU	18	20	22	24	
Capacity	Cooling	Btu/h	206,000	228,000	252,000	276,000	
	Heating	Btu/h	226,000	252,000	276,000	300,000	
Input Power		kW	18.56/19.97	20.54/22.03	24.00/24.66	27.06/27.24	
EER (Ducted/Non-Ducted)		Btu/h/W	11.1/12.4	11.1/12.4	10.5/11.5	10.2/10.8	
COP 47°F (Ducted/Non-Ducted)		W/W	3.4/3.88	3.35/3.80	3.28/3.59	3.23/3.33	
Power Supply		V/Ph/Hz	460V / 3Ph / 60Hz				
Electrical Parameters		MCA	A	23.4+25.8	25.8+25.8	25.8+29.0	29.0+29.0
		MOP	A	40+40	40+40	40+40	40+40
Max Connectable Indoor Units		N ^o	36	43	47	50	
Sound Pressure Level		dB(A)	64	65	65	65	
Dimensions		H	68.13	68.13	68.13	68.13	
		W	37.09+47.63	47.63+47.63	47.63+53.16	53.16+53.16	
		D	29.22	29.22	29.22	29.22	
Connection Pipe Diameter	Heat Recovery Operation System	Low Pressure Gas Pipe	in.	1 1/8	1 1/4	1 1/4	1 1/4
		High/Low Pressure Gas Pipe		1 1/8	1 1/8	1 1/8	1 1/8
	Liquid Pipe	5/8		3/4	3/4	3/4	
	Heat Pump Operation System	High/Low Pressure Gas Pipe		1 1/8	1 1/4	1 1/4	1 1/4
		Liquid Pipe		5/8	3/4	3/4	3/4
Refrigerant			R410A				
Compressor			Scroll Comp				
Compressor Quantity			1+1	1+1	1+2	2+2	
Refrigerant Charge Before Shipment		lbs.	13.2+19.4	19.4+19.4	19.4+21.6	21.6+21.6	
Weight	Net Weight	lbs.	549+670	670+670	670+820	820+820	
	Gross Weight	lbs.	608+738	738+738	738+893	893+893	
Total Piping Length		ft.	3,280				
Operation Range		Cooling	°F				
		Heating	°F				

- The above cooling and heating capacities reflect the outdoor unit operating at 100% rating of indoor units, Cooling Operation Conditions: Indoor Air Inlet Temperature: 80°F DB 67°F WB, Outdoor Air Inlet Temperature: 95°F DB, Piping Length: 25ft., Piping Lift: 0ft.. Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 70°F DB, Outdoor Air Inlet Temperature: 47°F DB 43°F WB.
- Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene. Measurement point: 3.3ft. from the service cover surface and 4.9ft. from floor level.
- The actual appearance of outdoor units may differ from photos.
- Specifications are subject to change without notice.

CHV6 URBAN

460V



Model Name			CHV6-312SRB	CHV6-336SRB	CHV6-360SRB	CHV6-384SRB	
Unit Group Configuration			1x CHV6-144SRB 1x CHV6-168SRB	2x CHV6-168SRB	1x CHV6-168SRB 1x CHV6-192SRB	2x CHV6-192SRB	
Nominal Tonnage		RTU	26	28	30	32	
Capacity	Cooling	Btu/h	298,000	320,000	344,000	368,000	
	Heating	Btu/h	320,000	340,000	370,000	400,000	
Input Power		kW	29.22/29.3	31.07/31.13	33.08/33.88	35.73/36.63	
EER (Ducted/Non-Ducted)		Btu/h/W	10.2/10.7	10.3/10.6	10.4/10.6	10.3/10.5	
COP 47°F (Ducted/Non-Ducted)		W/W	3.2/3.26	3.2/3.24	3.2/3.24	3.2/3.23	
Power Supply		V/Ph/Hz	460V / 3Ph / 60Hz				
Electrical Parameters		MCA	A	29.0+35.1	35.1+35.1	35.1+39.8	39.8+39.8
		MOP	A	40+45	45+45	45+50	50+50
Max Connectable Indoor Units		N ^o	53	59	64	64	
Sound Pressure Level		dB(A)	65	65	66	66	
Dimensions		H	68.13	68.13	68.13	68.13	
		W	53.16+53.16	53.16+53.16	53.16+63	63+63	
		D	29.22	29.22	29.22	29.22	
Connection Pipe Diameter	Heat Recovery Operation System	Low Pressure Gas Pipe	in.	1 1/4	1 1/2	1 1/2	1 1/2
		High/Low Pressure Gas Pipe		1 1/8	1 1/8	1 1/4	1 1/4
		Liquid Pipe		3/4	3/4	3/4	3/4
	Heat Pump Operation System	High/Low Pressure Gas Pipe		1 1/4	1 1/2	1 1/2	1 1/2
		Liquid Pipe		3/4	3/4	3/4	3/4
Refrigerant			R410A				
Compressor			Scroll Comp				
Compressor Quantity			2+2	2+2	2+2	2+2	
Refrigerant Charge Before Shipment		lbs.	21.6+21.6	21.6+21.6	21.6+25.4	25.4+25.4	
Weight	Net Weight	lbs.	820+822	822+822	822+886	886+886	
	Gross Weight	lbs.	893+895	895+895	895+970	970+970	
Total Piping Length		ft.	3,280				
Operation Range		Cooling	°F 14-126				
		Heating	°F -13-62				

- The above cooling and heating capacities reflect the outdoor unit operating at 100% rating of indoor units, Cooling Operation Conditions: Indoor Air Inlet Temperature: 80°F DB 67°F WB, Outdoor Air Inlet Temperature: 95°F DB, Piping Length: 25ft., Piping Lift: 0ft., Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 70°F DB, Outdoor Air Inlet Temperature: 47°F DB 43°F WB.
- Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene. Measurement point: 3.3ft. from the service cover surface and 4.9ft. from floor level.
- The actual appearance of outdoor units may differ from photos.
- Specifications are subject to change without notice.

CHV6 URBAN

460V



Model Name			CHV6-408SRB	CHV6-432SRB	CHV6-456SRB	
Unit Group Configuration			1x CHV6-120SRB 2x CHV6-144SRB	3x CHV6-144SRB	2x CHV6-144SRB 1x CHV6-168SRB	
Nominal Tonnage		RTU	34	36	38	
Capacity	Cooling	Btu/h	388,000	414,000	436,000	
	Heating	Btu/h	426,000	450,000	470,000	
Input Power		kW	37.31/39.03	40.59/41.12	42.75/42.40	
EER (Ducted/Non-Ducted)		Btu/h/W	10.4/11.0	10.2/10.8	10.2/10.7	
COP 47°F (Ducted/Non-Ducted)		W/W	3.2/3.4	3.21/3.33	3.25/3.29	
Power Supply		V/Ph/Hz	460V / 3Ph / 60Hz			
Electrical Parameters		MCA	A	25.8+29+29	29.0+29.0+29.0	29.0+29.0+35.1
		MOP	A	40+40+40	40+40+40	40+40+45
Max Connectable Indoor Units		N ^o	64	64	64	
Sound Pressure Level		dB(A)	67	67	67	
Dimensions		H	68.13	68.13	68.13	
		W D	47.63+53.16+53.16 29.22	53.16+53.16+53.16 29.22	53.16+53.16+53.16 29.22	
Connection Pipe Diameter	Heat Recovery Operation System	Low Pressure Gas Pipe	in.	1 1/2	1 1/2	1 1/2
		High/Low Pressure Gas Pipe		1 1/4	1 1/4	1 1/4
	Liquid Pipe	3/4		3/4	3/4	
	Heat Pump Operation System	High/Low Pressure Gas Pipe		1 1/2	1 1/2	1 1/2
		Liquid Pipe		3/4	3/4	3/4
Refrigerant			R410A			
Compressor			Scroll Comp			
Compressor Quantity			1+2+2	2+2+2	2+2+2	
Refrigerant Charge Before Shipment		lbs.	19.4+21.6+21.6	21.6+21.6+21.6	21.6+21.6+21.6	
Weight	Net Weight	lbs.	670+820+820	820+820+820	820+820+822	
	Gross Weight	lbs.	738+893+893	893+893+893	893+893+895	
Total Piping Length		ft.	3,280.8			
Operation Range		Cooling	°F 14-126			
		Heating	°F -13-62			

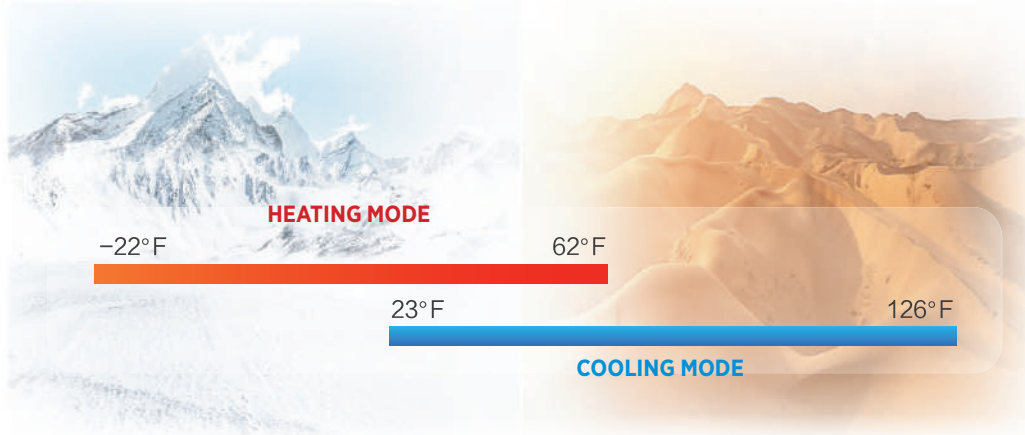
- The above cooling and heating capacities reflect the outdoor unit operating at 100% rating of indoor units, Cooling Operation Conditions: Indoor Air Inlet Temperature: 80°F DB 67°F WB, Outdoor Air Inlet Temperature: 95°F DB, Piping Length: 25ft., Piping Lift: 0ft., Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 70°F DB, Outdoor Air Inlet Temperature: 47°F DB 43°F WB.
- Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahrirectory.org.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene. Measurement point: 3.3ft. from the service cover surface and 4.9ft. from floor level.
- The actual appearance of outdoor units may differ from photos.
- Specifications are subject to change without notice.

HYPER HEAT



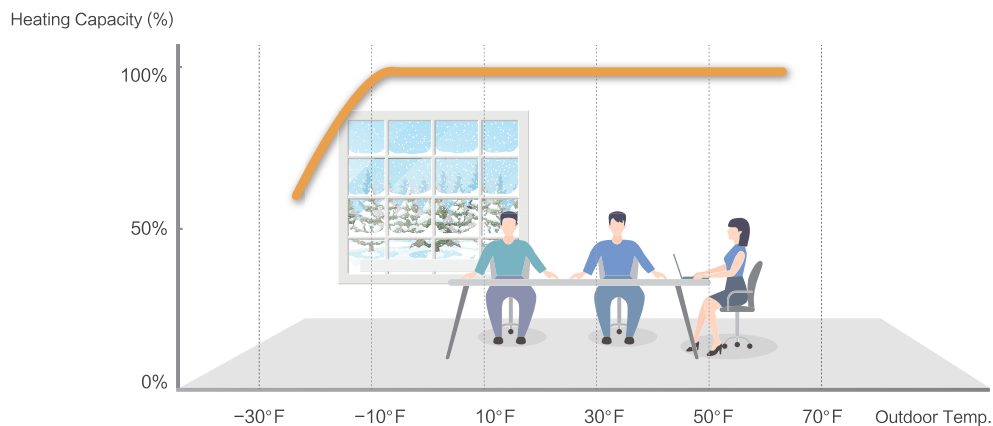
WIDER OPERATION RANGE

Wider operation range creates larger application potential. In cooling mode the operation range is from 23°F to 126°F and in heating mode is from -22°F to 62°F, which ensures the stable operation under extreme conditions. It allows simultaneous cooling and heating operation at temperatures ranging from -4°F to 81°F.



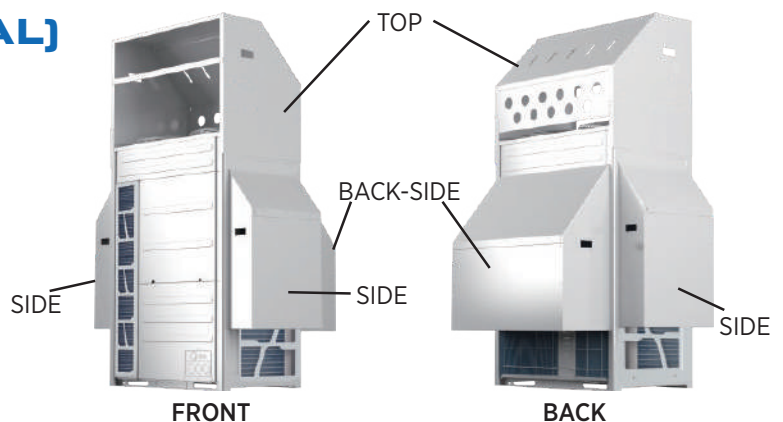
RELIABLE PERFORMANCE IN LOW TEMPERATURES

Compared with the standard series, the heating capacity of Hyper series is significantly increased at extreme low temperatures. At -4°F, the unit can operate at more than 90% heating capacity, at -13°F, 85%, and maintain 60% when temperatures reach -22°F.*



SNOW HOOD (OPTIONAL)

Heavy snow accumulation could affect heat exchange capacity. With the snow hood kit, the unit can prevent heavy snow from accumulating on top, protecting the heat exchanger and ensuring its stable operation.



CHV6 URBAN

HYPER HEAT 208~230V



Model Name			CHV6-072URBHH	CHV6-096URBHH	CHV6-120URBHH	CHV6-144URBHH	CHV6-192URBHH	CHV6-240URBHH
Unit Group Configuration			1x CHV6-072URBHH	1x CHV6-096URBHH	1x CHV6-120URBHH	2x CHV6-072URBHH	2x CHV6-096URBHH	2x CHV6-120URBHH
Nominal Tonnage		RTU	6	8	10	12	16	20
Capacity	Cooling	Btu/h	72,000	96,000	120,000	144,000	192,000	240,000
	Heating	Btu/h	81,000	103,000	129,000	162,000	206,000	258,000
Input Power		kW	6.0/6.45	8.19/8.05	10.04/10.19	11.52/12.74	16.67/16.77	21.07/20.08
EER (Ducted/Non-Ducted)		Btu/h/W	12.0/12.8	11.7/12.5	12/12	12.5/12.2	11.5/11.8	11.4/11.8
COP 47°F (Ducted/Non-Ducted)		W/W	3.65/4.25	3.75/4.05	3.71/3.90	3.72/4.10	3.60/3.94	3.50/3.80
Low Temp. Heating Capacity (17°F)		Btu/h	81,000	103,000	129,000	162,000	206,000	258,000
COP 17°F (Ducted/Non-Ducted)		W/W	2.45/2.67	2.45/2.55	2.40/2.53	2.45/2.45	2.37/2.40	2.36/2.38
Power Supply		V/Ph/Hz	208-230V / 3Ph / 60Hz					
Electrical Parameters	MCA	A	63.8	67.4	71.2	63.8+63.8	67.4+67.4	71.2+71.2
	MOP	A	90	90	100	90+90	90+90	100+100
Max Connectable Indoor Units		N ^o	21	29	29	43	57	59
Sound Pressure Level		dB(A)	58	60	65	67	67	68
Dimensions	H	in.	68.13	68.13	68.13	68.13	68.13	68.13
	W	in.	53.16	53.16	53.16	53.16+ 53.16	53.16+ 53.16	53.16+ 53.16
	D	in.	29.22	29.22	29.22	29.22	29.22	29.22
Connection Pipe Diameter	Heat Recovery Operation System	Low Pressure Gas Pipe	3/4	7/8	1 1/8	1 1/8	1 1/8	1 3/8
		High/Low Pressure Gas Pipe	5/8	3/4	7/8	7/8	7/8	1 1/8
		Liquid Pipe	3/8	3/8	1/2	1/2	5/8	3/4
	Heat Pump Operation System	High/Low Pressure Gas Pipe	3/4	7/8	1 1/8	1 1/8	1 1/8	1 3/8
		Liquid Pipe	3/8	3/8	1/2	1/2	5/8	3/4
Refrigerant			R410A					
Compressor			Scroll Comp					
Compressor Quantity			2	2	2	2+2	2+2	2+2
Refrigerant Charge Before Shipment		lbs.	17.2	18.7	18.7	17.2+17.2	18.7+18.7	18.7+18.7
Weight	Net Weight	lbs.	796	798	800	796+796	798+798	800+800
	Gross Weight	lbs.	860	862	864	860+860	862+862	864+864
Total Piping Length		ft.	3,280					
Operation Range	Cooling	°F	23-126					
	Heating	°F	-22-62					

1. The above cooling and heating capacities reflect the outdoor unit operating at 100% rating of indoor units, Cooling Operation Conditions: Indoor Air Inlet Temperature: 80°F DB 67°F WB, Outdoor Air Inlet Temperature: 95°F DB, Piping Length: 25ft., Piping Lift: 0ft., Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 70°F DB, Outdoor Air Inlet Temperature: 47°F DB 43°F WB.
2. Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
3. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene. Measurement point: 3.3ft. from the service cover surface and 4.9ft. from floor level.
4. The actual appearance of outdoor units may differ from photos.
5. Specifications are subject to change without notice.



CHV6 URBAN

HYPER HEAT 460V

Model Name			CHV6-072SRBHH	CHV6-096SRBHH	CHV6-120SRBHH	CHV6-144SRBHH	CHV6-192SRBHH	CHV6-240SRBHH	
Unit Group Configuration			1x CHV6-072SRBHH	1x CHV6-096SRBHH	1x CHV6-120SRBHH	2x CHV6-072SRBHH	2x CHV6-096SRBHH	2x CHV6-120SRBHH	
Nominal Tonnage		RTU	6	8	10	12	16	20	
Capacity	Cooling	Btu/h	72,000	96,000	120,000	144,000	192,000	240,000	
	Heating	Btu/h	81,000	103,000	129,000	162,000	206,000	258,000	
Input Power		kW	6.0/6.45	8.19/8.05	10.04/10.19	11.52/12.74	16.67/16.77	21.07/20.08	
EER (Ducted/Non-Ducted)		Btu/h/W	12.0/12.8	11.7/12.5	12/12	12.5/12.2	11.5/11.8	11.4/11.8	
COP 47°F (Ducted/Non-Ducted)		W/W	3.65/4.25	3.75/4.05	3.71/3.90	3.72/4.10	3.60/3.94	3.50/3.80	
Power Supply		V/Ph/Hz	460V / 3Ph / 60Hz						
Electrical Parameters		MCA	A	31.7	33.7	35.7	31.7+31.7	33.7+33.7	35.7+35.7
		MOP	A	45	45	50	45+45	45+45	50+50
Max Connectable Indoor Units		N ^o	21	29	29	43	57	59	
Sound Pressure Level		dB(A)	58	60	65	67	67	68	
Dimensions		H	68.13	68.13	68.13	68.13	68.13	68.13	
		W	53.16	53.16	53.16	53.16+ 53.16	53.16+ 53.16	53.16+ 53.16	
		D	29.22	29.22	29.22	29.22	29.22	29.22	
Connection Pipe Diameter	Heat Recovery Operation System	Low Pressure Gas Pipe	in.	3/4	7/8	1 1/8	1 1/8	1 1/8	1 3/8
		High/Low Pressure Gas Pipe	in.	5/8	3/4	7/8	7/8	7/8	1 1/8
	Liquid Pipe	in.	3/8	3/8	1/2	1/2	5/8	3/4	
	Heat Pump Operation System	High/Low Pressure Gas Pipe	in.	3/4	7/8	1 1/8	1 1/8	1 1/8	1 3/8
		Liquid Pipe	in.	3/8	3/8	1/2	1/2	5/8	3/4
Refrigerant			R410A						
Compressor			Scroll Comp						
Compressor Quantity			2	2	2	2+2	2+2	2+2	
Refrigerant Charge Before Shipment		lbs.	17.2	18.7	18.7	17.2+17.2	18.7+18.7	18.7+18.7	
Weight	Net Weight	lbs.	816	818	820	816+816	818+818	820+820	
	Gross Weight	lbs.	895	897	899	895+895	897+897	899+899	
Total Piping Length		ft.	3,280						
Operation Range	Cooling	°F	23-126						
	Heating	°F	-22-62						

- The above cooling and heating capacities reflect the outdoor unit operating at 100% rating of indoor units. Cooling Operation Conditions: Indoor Air Inlet Temperature: 80°F DB 67°F WB, Outdoor Air Inlet Temperature: 95°F DB, Piping Length: 25ft., Piping Lift: 0ft., Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 70°F DB, Outdoor Air Inlet Temperature: 47°F DB 43°F WB.
- Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene. Measurement point: 3.3ft. from the service cover surface and 4.9ft. from floor level.
- The actual appearance of outdoor units may differ from photos.
- Specifications are subject to change without notice.

CHV6 MINI URBAN

THE CHV6 MINI URBAN SERIES CREATES A HIGH-QUALITY TRANQUIL ENVIRONMENT.

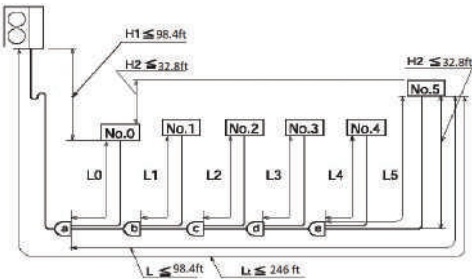
The lattice design utilizes the concept of aircraft engine design, which follows the principle or aerodynamics to reduce noise significantly. The grille also improves safety as it prevents children's fingers from being injured by the fan blades.



EXTENDED REFRIGERANT PIPING

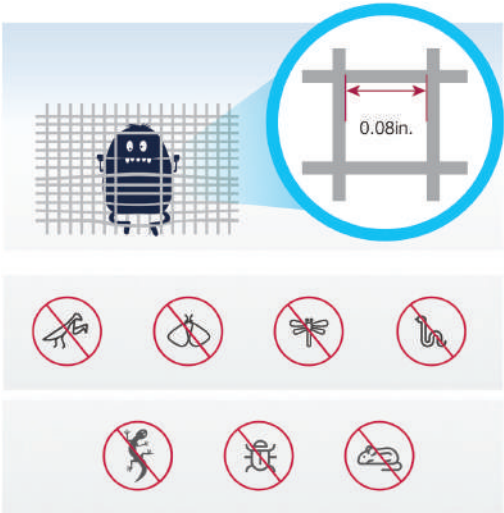
The lattice design utilizes the concept of aircraft engine design, which follows the principle or aerodynamics to reduce noise significantly. The grille also improves safety as it prevents children's fingers from being injured by the fan blades.

Tons		2	3/4/5
Power Supply		208-230 / 1Ph / 60Hz	
Total Piping Length - Lt=Lt+L0+L1+L2...		197 ft	394 ft
Longest Length actual - Lt		164 ft	246 ft
Longest Length after first Branch - L		66 ft	98 ft
Level Difference between Indoor and Outdoor Unit	Outdoor Unit is Higher - H1	66 ft	98 ft
	Outdoor Unit is Lower - H2	66 ft	98 ft
Level Difference between Indoor Units H3		11 ft	33 ft



INSECT SCREENS

CHV6 systems are equipped with specialized screens which keep insects out of the unit, preventing unnecessary damage to electrical components.



CHV6 MINI URBAN

208~230V



Model Name			CHV6-28URBM	CHV6-36URBM	CHV6-48URBM	CHV6-60URBM
Nominal Tonnage		RTU	2	3	4	5
Capacity	Cooling	Btu/h	27,000	36,000	48,000	57,500
	Heating	Btu/h	32,000	42,000	54,000	61,000
Input Power		kW	1.93/2.37	2.86/2.54	4.71/3.81	6.25/5.75
EER (Ducted/Non-Ducted)		Btu/h/W	11.0/11.5	12.6/14.2	10.2/1.6	9.2/10
Power Supply		V/Ph/Hz	208-230V / 1Ph / 60Hz			
Electrical Parameters	MCA	A	25.3	31.4	32.8	33.2
	MOP	A	35	40	45	45
Max Connectable Indoor Units		Qty	5	9	11	11
Sound Pressure Level		dB(A)	52	52	55	56
Dimensions	H		31.50	52.5	52.5	52.5
	W		37.41	37.41	37.41	37.41
	D		14.56	14.56	14.56	14.56
Connection Pipe Diameter	High/Low Pressure Gas Pipe	in.	5/8	5/8	5/8	5/8
	Liquid Pipe		3/8	3/8	3/8	3/8
Refrigerant			R410A			
Compressor			Rotary			
Compressor Quantity			1	1	1	1
Weight	Net Weight	lbs.	172	229	229	231
	Gross Weight		194	256	256	256
Piping Design	Height Diff between ODU and IDU	ft.	66	98.4	98.4	98.4
	Height Diff between IDUs		11	32.8	32.8	32.8
	Total Piping Length		197	394	394	394
Operation Range	Cooling	°F	23-114			
	Heating	°F	-4-60			

1. The above cooling and heating capacities reflect the outdoor unit operating at 100% rating of indoor units. Cooling Operation Conditions: Indoor Air Inlet Temperature: 80°F DB 67°F WB, Outdoor Air Inlet Temperature: 95°F DB, Piping Length: 25ft., Piping Lift: 0ft., Heating Operation Conditions: Nominal Heating Condition, Indoor Air Inlet Temperature: 70°F DB, Outdoor Air Inlet Temperature: 47°F DB 43°F WB
2. Rated capacity and efficiency are certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
3. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene. Measurement point: 3.3ft. from the service cover surface and 4.9ft. from floor level.
4. The actual appearance of outdoor units may differ from photos.
5. Specifications are subject to change without notice.

/// GENERAL FEATURES & FUNCTIONS

4-WAY CEILING CASSETTE
4-WAY MINI CEILING CASSETTE
1 WAY CASSETTE
FLOOR CEILING CONSOLE
SLIM DUCTS LOW STATIC PRESSURE
SLIM DUCTS HIGH STATIC PRESSURE
WALL MOUNTS
MULTI-POSITION AIR HANDLER UNIT
AHU CONNECTION KITS
HYDRO BOX



48-INCH DRAINAGE HEIGHT

Some CHV indoor models are equipped with a drain pump to pull condensation upward and remove water from the units with a drainage height of up to 48 inches.



SELF DIAGNOSIS

CHV indoor units use the self-diagnosis function to monitor and analyze malfunctions. Error codes are displayed on LED displays, remote controllers, or PCB boards as a general troubleshooting guide.



COMPACT SIZE

Compact indoor units can be conveniently transported and installed, even in small spaces.



REMOTE CONTROL

Indoor units can be controlled with wireless remote controller featuring an LCD display.



SILENT OPERATION

CHV units create minimal sound pressure during operation.



ADJUSTABLE LOUVER POSITION

CHV indoor units feature adjustable louvers for more precise directional air flow.



SWING LOUVER

CHV ceiling cassettes and wall mounts include louvers which swing automatically for even air distribution.



3D AIR FLOW PANEL (OPTIONAL)

The optional 3D air-flow panel, which includes an LED display and adjustable horizontal and vertical louvers, enables system control with a Cooper&Hunter wireless remote controller.



FAN SPEED

All CHV indoor units have 6 selectable fan speeds.



AUTO FAN SPEED

Fan speed rotation is automatically controlled to achieve optimum efficiency and comfort.



EASY MAINTENANCE

CHV indoor units provide convenient access to filters and other important components for easy upkeep and increased longevity.



WIDE CAPACITY RANGE

CHV indoor units come in a wide range of capacities across 5 different indoor model types.



AUTO RESTART

The automatic restart function sets the indoor units to automatically restart and resume previous settings in the event of a power outage.



LOW TEMPERATURE COOLING

The target temperature of indoor units can be set as low as 60°F.



WiFi ADAPTER (OPTIONAL)

An optional WiFi adapter can be installed to enable system control via iOS or Android smart device for up to 64 indoor units.



WIRELESS RECEIVER

Indoor units can be controlled via C&H wireless remote controller when a wireless receiver is installed. CHV wall mounts include a wireless receiver, but it is an optional accessory for other model types.



HUMIDITY SENSOR (OPTIONAL)

The optional humidity sensor allows access to more precise dehumidification control.



SMART HUMAN MOTION SENSOR

Intelligent motion sensing technology enables auto ON/OFF, auto fan, and auto temperature adjustments based on movement and occupancy of the room.



FRESH AIR INTRODUCTION

Fresh air can be directed into rooms with an optional adapter or direct connection to the air return segment of the unit.



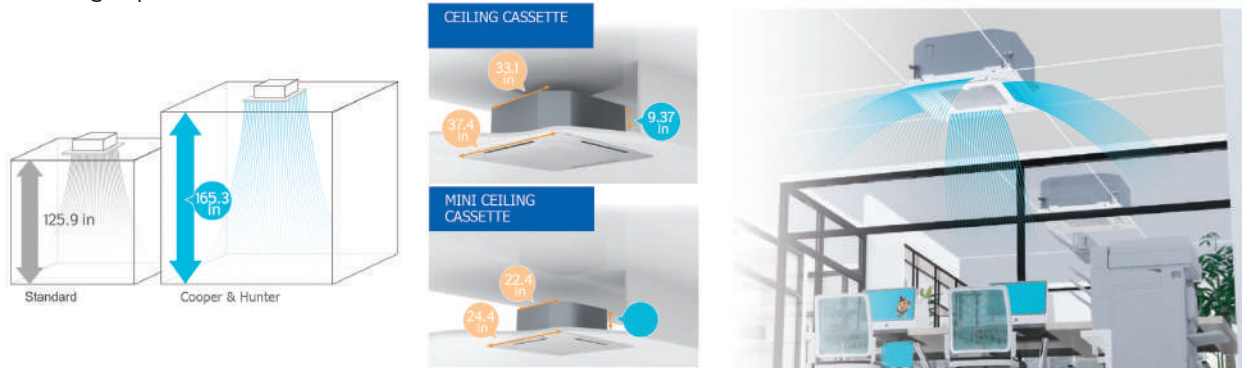
STANDARD FILTER INCLUDED

A washable, long-life filter is included as a standard part.

CEILING CASSETTES

CONVENIENT DESIGN / SUITABLE FOR HIGH CEILINGS

The CVH 4-way Ceiling Cassette, available in 9.37 in and 8.46 in models, features a sophisticated design which fits in standard ceiling grids. CHV ceiling cassettes can be installed up to 13.78 ft high without interfering with airflow or air conditioning capabilities.



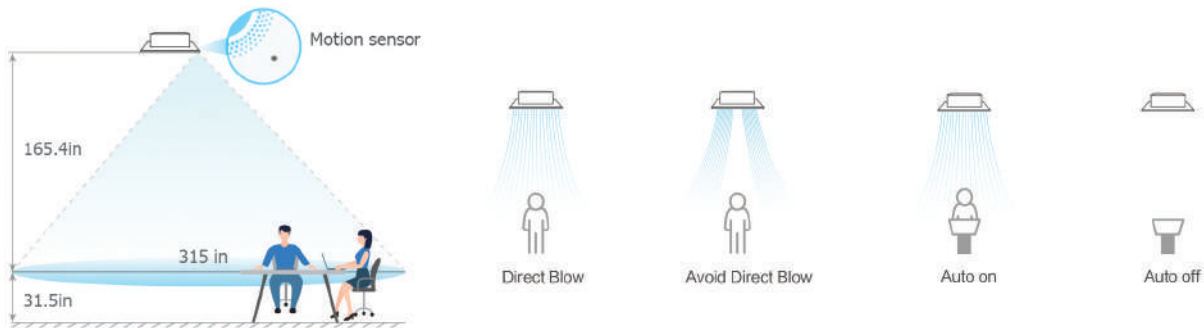
PRECISE LOUVER CONTROL

The louvers of CHV ceiling cassettes can be controlled individually with 6 angle settings and a maximum reach angle of 64°.



CEILING CASSETTE MOTION SENSOR

The smart motion sensor can be utilized for a variety of purposes. For example, it can automatically turn the unit on/off or direct the airflow towards or away from people, depending on the control settings. Additionally, in heavy-traffic times or areas, the temperature can automatically adjust to maintain a comfortable indoor climate.



Accessories Standard Cassettes										
Wired Controllers			Wireless Controller	Central Controller	Decoration Panel	Receiver Kit	Motion Sensor	Humidity Sensor	WIFI Adapter	Fresh Air Duct Adapter
SPWT-A01	SPWT-B01	SPWT-WG01	SPRC-101	SPCC-D10	SHP-G-NK	SPWRK-T03	SPHNS-01E	SPHDS-S01E	SPHM-64M	SPFA2.64







CEILING CASSETTES

4 WAY CEILING CASSETTE



Model Name			CHV-09SCC4W	CHV-12SCC4W	CHV-15SCC4W	CHV-19SCC4W	CHV-22SCC4W	CHV-24SCC4W
Capacity	Cooling	Btu/h	9,600	12,300	15,400	19,100	21,500	24,200
	Heating	Btu/h	10,900	13,700	17,100	21,500	24,200	27,300
Input Power		W	20	30	30	40	60	70
Power Supply		V/Ph/Hz	208-230V / 1Ph / 60Hz					
Electrical Parameters	MCA	A	1.19					
	MOP	A	15					
Airflow Rate		CFM	314/357/386/ 429/479/536	325/386/421/ 457/500/607	400/454/486/ 532/571/750	446/486/554/ 568/625/786	464/539/607/ 654/714/929	525/582/643/ 682/750/964
Sound Pressure Level		dB(A)	26/26/27/28/28/30	26/27/28/29/29/32	26/27/29/29/31/33	26/28/28/30/31/34	28/29/31/32/33/36	28/29/31/32/33/36
Dimensions (H x W x D)		in.	9.69x33.06x33.06	9.69x33.06x33.06	9.69x33.06x33.06	9.69x33.06x33.06	9.69x33.06x33.06	9.69x33.06x33.06
Decoration Panel		in.	1.84x37.41x37.41					
Weight		lbs.	44	44	46	46	51	51
Connection Pipe Diameter	Liquid	in.	1/4	1/4	1/4	1/4	1/4	3/8
	Gas		1/2	1/2	1/2	1/2	1/2	5/8
	Drain		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4

Model Name			CHV-27SCC4W	CHV-30SCC4W	CHV-38SCC4W	CHV-48SCC4W	CHV-54SCC4W
Capacity	Cooling	Btu/h	27,300	30,700	37,200	47,800	54,600
	Heating	Btu/h	30,700	34,100	42,700	54,600	61,400
Input Power		W	60	60	130	130	130
Power Supply		V/Ph/Hz	208-230V / 1Ph / 60Hz				
Electrical Parameters	MCA	A	1.19	1.19	2.15	2.15	2.15
	MOP	A	15				
Airflow Rate		CFM	550/600/668/ 725/786/964	575/632/700/ 739/821/964	700/800/886/ 979/1071/1321	800/864/971/ 1057/1196/1321	850/914/1032/ 1096/1214/1321
Sound Pressure Level		dB(A)	30/31/33/35/36/37	30/31/33/35/36/37	33/34/36/38/40/42	34/36/38/40/44/46	36/38/40/41/44/46
Dimensions (H x W x D)		in.	11.31x33.06x33.06	11.31x33.06x33.06	11.31x33.06x33.06	11.31x33.06x33.06	11.31x33.06x33.06
Decoration Panel		in.	1.84x37.41x37.41				
Weight		lbs.	57	57	57	57	57
Connection Pipe Diameter	Liquid	in.	3/8	3/8	3/8	3/8	3/8
	Gas		5/8	5/8	5/8	5/8	5/8
	Drain		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4

Bacnet	CH-Checker	Switch Boxes	
SPBN-H160	SPHCH-64	Single Box	Multi Box
			

- The nominal cooling capacity and heating capacity are based on the following conditions: Cooling Operation Conditions, Indoor Air Inlet Temperature: 80°F DB, 66°F WB, Outdoor Air Inlet Temperature: 95°F DB Piping Length: 24.6ft, Piping Lif: 0ft Heating Operation Conditions, Indoor Air Inlet Temperature: 68°F DB, Outdoor Air Inlet Temperature: 44°F DB, 42°F WB
- The sound pressure level is based on the following conditions: 4.9ft beneath the unit. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field
- The actual appearance of outdoor units may differ from photos.
- Specifications are subject to change without notice.

CEILING CASSETTES

4 WAY MINI CEILING CASSETTE



Model Name			CHV-05MCC4W	CHV-07MCC4W	CHV-09MCC4W	CHV-12MCC4W	CHV-15MCC4W	CHV-17MCC4W	CHV-19MCC4W	
Capacity	Cooling	Btu/h	5,100	7,480	9,520	12,240	15,300	17,000	19,040	
	Heating	Btu/h	6,800	8,500	11,220	14,280	17,000	19,040	21,420	
Input Power		W	14	14	14	16	22	30	40	
Power Supply		V/Ph/Hz	208-230V / 1Ph / 60Hz							
Electrical Parameters	MCA	A	0.23	0.23	0.29	0.35	0.41	0.49	0.66	
	MOP	A	15							
Airflow Rate		CFM	256/232/220/199	256/232/220/199	280/256/232/208	292/256/232/208	333/213/252/238	393/339/312/252	446/387/333/286	
Sound Pressure Level		dB(A)	30/29/28/26	30/29/28/26	32/30/28/26	34/32/29/26	38/36/31/28	42/39/36/31	45/42/38/34	
Dimensions (H x W x D)		in.	8.47x22.44x22.44							
Decoration Panel		in.	1.44x24.44x24.44							
Weight		lbs.	32	32	32.6	32.6	34.8	35	35	
Connection Pipe Diameter	Liquid	in.	1/4							
	Gas		1/2							
	Drain		1 1/4							

Accessories Mini Cassettes										
Wired Controllers			Wireless Controller	Central Controller	Decoration Panel	Receiver Kit	Motion Sensor	Humidity Sensor	WIFI Adapter	Fresh Air Duct Adapter
SPWT-A01	SPWT-B01	SPWT-WG01	SPRC-101	SPCC-D10	SHPE-D-NK	SPWRK-Z01	SPHNS-MACN	SPHDS-S01E	SPHM-64M	SPFA2.64

Bacnet	CH-Checker	Switch Boxes	
SPBN-HI60	SPHCH-64	Single Box	Multi Box

- The nominal cooling capacity and heating capacity are based on the following conditions: Cooling Operation Conditions, Indoor Air Inlet Temperature: 80°F DB, 66°F WB, Outdoor Air Inlet Temperature: 95°F, DB, Piping Length: 24.6ft, Piping Lif: 0ft, Heating Operation Conditions, Indoor Air Inlet Temperature: 68°F DB, Outdoor Air Inlet Temperature: 44°F DB, 42°F WB
- The sound pressure level is based on the following conditions: 4.9ft beneath the unit. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field
- The actual appearance of outdoor units may differ from photos.
- Specifications are subject to change without notice.







CEILING CASSETTES

1-WAY CASSETTE

Model Name			CHV-07CC1W	CHV-09CC1W	CHV-12CC1W	CHV-14CC1W	CHV-18CC1W	CHV-24CC1W
Capacity	Cooling	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	Heating	Btu/h	8,500	11,000	13,600	17,100	21,500	27,200
Input Power		W	20	30	40	40	50	100
Power Supply		V/Ph/Hz	208-230V / 1Ph / 60Hz					
Electrical Parameters	MCA	A	0.48	0.48	0.48	0.48	1.11	1.11
	MOP	A	15					
Airflow Rate		CFM	219/208/198/ 180/170/163	233/219/198/ 180/170/163	293/258/240/ 219/198/180	353/293/240/ 223/201/184	427/350/311/ 290/275/233	551/445/396/ 350/297/251
Sound Pressure Level		dB(A)	33/32/31/30/29/28	35/34/32/31/29/28	40/36/35/33/30/29	43/39/35/33/31/29	41/39/36/35/33/31	48/46/43/40/37/33
Dimensions (H x W x D)		in.	7.56x35.81x18.5	7.56x35.81x18.5	7.56x35.81x18.5	7.56x35.81x18.5	7.56x46.44x18.5	7.56x46.44x18.5
Decoration Panel		in.	2.19x43.31x21.63	2.19x43.31x21.63	2.19x43.31x21.63	2.19x43.31x21.63	2.19x53.94x21.63	2.19x53.94x21.63
Weight		lbs.	42	42	44	44	53	53
Connection Pipe Diameter	Liquid	in.	1/4	1/4	1/4	1/4	1/4	3/8
	Gas		1/2	1/2	1/2	1/2	5/8	5/8
	Drain	VP25						

Accessories 1-Way Cassettes

Wired Controllers			Wireless Controller	Central Controller	Decoration Panel	Receiver Kit	Motion Sensor	WIFI Adapter	Fresh Air Duct Adapter
SPWT-A01	SPWT-B01	SPWT-WG01	SPRC-101	SPCC-D10	SHP-D-NA SHP-E-NA	SPWRK-X01H	SPHNS-S01E	SPHM-64M	SPFA2.64
									

Bacnet	CH-Checker	Switch Boxes	
SPBN-HI60	SPHCH-64	Single Box	Multi Box
			

- The nominal cooling capacity and heating capacity are based on the following conditions: Cooling Operation Conditions, Indoor Air Inlet Temperature: 80°F DB, 66°F WB, Outdoor Air Inlet Temperature: 95°F, DB, Piping Length: 24.6ft, Piping Lif: 0ft, Heating Operation Conditions, Indoor Air Inlet Temperature: 68°F DB, Outdoor Air Inlet Temperature: 44°F DB, 42°F WB
- The sound pressure level is based on the following conditions: 4.9ft beneath the unit. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field
- The actual appearance of outdoor units may differ from photos.
- Specifications are subject to change without notice.

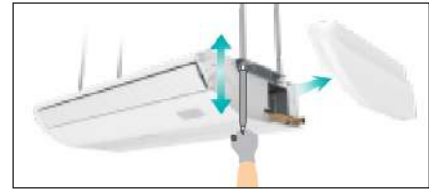
FLOOR CEILING



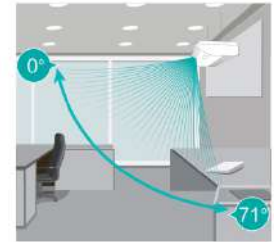
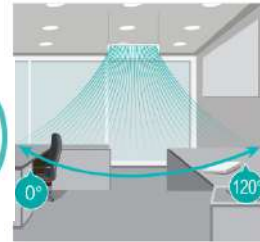
CONVENIENT INSTALLATION AND MAINTENANCE

The unit can be installed to be standing on floors or hanging on ceilings. Whereby interior walls maximized to display items or you can hang the unit on the ceiling.

Adjust the ceiling or wall mounting height by just opening the side panels without the need to access the internal parts. Service manholes are unnecessary due to the strategic repositioning of piping connections and electrical box behind the air return panel.



Louvers are consist of horizontal and vertical flaps to cover larger coverage area to the edges of any rooms. Wider opening angle from up to 120° for vertical louvers and up to 71° for horizontal louvers supplies air further and lower down to floor.

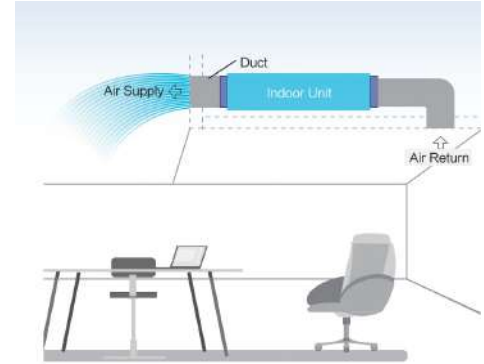
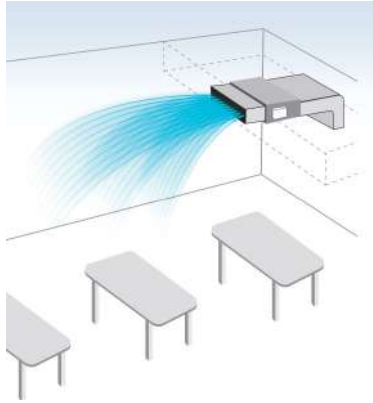


Model Name			CHV-18CFT	CHV-22CFT	CHV-24CFT	CHV-27CFT	CHV-30CFT	CHV-38CFT	CHV-48CFT
Capacity	Cooling	Btu/h	19,100 19,800	21,500 22,200	24,200 24,900	28,700 29,700	30,700 31,700	38,200 39,600	48,500 49,500
	Heating	Btu/h	22,200	25,600	29,000	32,800	34,100	44,400	55,600
Input Power		W	40	70	70	70	80	130	160
Power Supply		V/Ph/Hz	208-230V / 1Ph / 60Hz						
Electrical Parameters	MCA	A	0.43	0.64	0.64	1.2	1.2	1.2	2.15
	MOP	A	15						
Airflow Rate		CFM	459/389/318	569/495/399	569/495/399	643/537/431	685/576/470	876/724/576	1166/989/812
Sound Pressure Level		dB(A)	39/35/30/ 39/38/35	45/41/37/ 48/44/40	45/41/37/ 48/44/40	43/39/34/ 46/41/37	45/40/36/ 48/43/39	51/46/40 54/49/43	50/46/42 55/50/46
Dimensions (H x W x D)		in.	9x39x26.75	9x39x26.75	9x39x26.75	9x50.75x26.75	9x50.75x26.75	9x50.75x26.75	9x62.25x26.75
Weight		lbs.	72.7	75	75	90.4	90.4	90.4	108
Connection Pipe Diameter	Liquid	in.	1/4	3/8	3/8	3/8	3/8	3/8	3/8
	Gas		5/8	5/8	5/8	5/8	5/8	5/8	5/8
	Drain		VP25						

Accessories Floor Ceiling Unit										
Wired Controllers			Wireless Controller	Central Controller	Motion Sensor	WiFi Adapter	Bacnet	CH-Checker	Switch Boxes	
SPWT-A01	SPWT-B01	SPWT-WG01	SPRC-101	SPCC-D10	SPHNS-S01E	SPHM-64M	SPBN-H160	SPHCH-64	Single Box	Multi Box

/// ADJUSTABLE STATIC PRESSURE AND IMPROVED AIR QUALITY

The static pressure of the slim duct fan can be adjusted to suit various noise and air flow needs. Fresh air supply and filters ensure improved air quality.



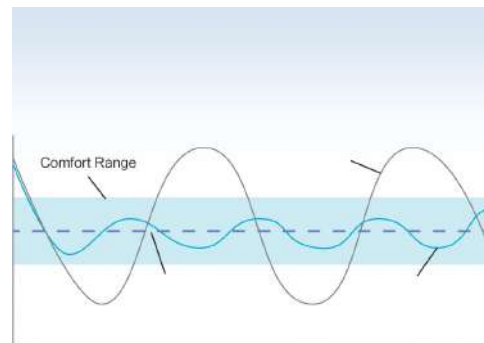
/// 3D AIR FLOW PANEL (OPTIONAL)

The optional 3D air-flow panel, which includes an LED display and adjustable horizontal and vertical louvers, enables system control with a Cooper&Hunter wireless remote controller and the capability for more precise directional air flow.



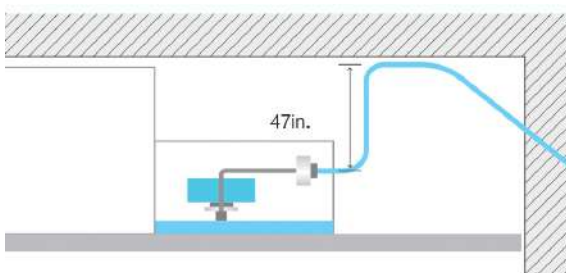
/// TEMPERATURE PRECISION

CHV slim ducted units include 3 temperature sensors to prevent overcooling or overheating of the room. The sensors send real-time signals to the unit for more accurate temperature supply.



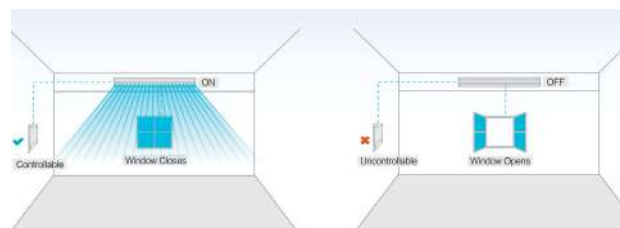
/// DRAIN PUMP

CHV low static pressure slim ducts include a standard drain pump and a maximum drain height of 47 inches. Internal and external drain pumps are optional accessories available for high static pressure slim ducts.



/// DEVICE CONNECTION OPTIONS

Third party building management systems and sensors can be connected to the indoor unit via dry contacts. Devices such as hotel room key card, window contact and fire alarm can be connected at the same time.



SLIM DUCTS

LOW STATIC PRESSURE



Model Name			CHV-05SDLSP	CHV-07SDLSP	CHV-09SDLSP	CHV-12SDLSP	CHV-15SDLSP	CHV-19SDLSP
Capacity	Cooling	Btu/h	5,800	7,500	9,600	12,300	15,300	19,100
	Heating	Btu/h	6,500	8,500	11,300	13,600	17,100	21,500
Input Power		W	30	30	50	50	60	60
Power Supply		V/Ph/Hz	208-230V / 1Ph / 60Hz					
Electrical Parameters	MCA	A	0.47	0.56	0.64	0.64	0.74	0.74
	MOP	A	15					
Airflow Rate		CFM	247/230/215/ 201/184/170	247/230/215/ 201/184/170	318/286/257/ 237/208/184	318/286/257/ 237/208/184	424/381/332/ 286/240/194	477/441/396/ 353/311/272
Sound Pressure Level		dB(A)	28/27/26/24/23/21	28/27/26/24/23/21	35/32/32/30/26/23	35/32/32/30/26/23	23/26/30/32/32/35	35/32/30/28/25/23
Static Pressure Range		in. WG	0.04 (0.04 - 0.12)	0.04 (0.04 - 0.12)	0.04 (0.04 - 0.12)	0.04 (0.04 - 0.12)	0.04 (0.04 - 0.12)	0.04 (0.04 - 0.12)
Dimensions (H x W x D)		in.	7.56x27.56x17.52	7.56x27.56x17.52	7.56x27.56x17.52	7.56x27.56x17.52	7.56x27.56x17.52	7.56x27.56x17.52
Weight		lbs.	35.3	35.3	37.5	37.5	44.1	52.9
Connection Pipe Diameter	Liquid		1/4					
	Gas	in.	1/2					
	Drain		VP25					

Model Name			CHV-22SDLSP	CHV-24SDLSP
Capacity	Cooling	Btu/h	21,500	24,200
	Heating	Btu/h	24,200	27,300
Input Power		W	90	240
Power Supply		V/Ph/Hz	208-230V / 1Ph / 60Hz	
Electrical Parameters	MCA	A	1.12	1.15
	MOP	A	15	
Airflow Rate		CFM	636/569/505/434/370/307	636/569/505/434/370/307
Sound Pressure Level		dB(A)	38/36/35/33/31/24	38/36/35/33/31/24
Static Pressure Range		in. WG	0.04 (0.04 - 0.12)	0.04 (0.04 - 0.12)
Dimensions (H x W x D)		in.	7.56x46.45x17.52	7.56x46.45x17.52
Weight		lbs.	52.9	52.9
Connection Pipe Diameter	Liquid		3/8	
	Gas	in.	5/8	
	Drain		VP25	

Accessories Low Static Pressure Ducted Unit												
Wired Controllers			Wireless Controller	Central Controller	Receiver Kit	Motion Sensor	Humidity Sensor	WIFI Adapter	Bacnet	CH-Checker	Switch Boxes	
SPWT-A01	SPWT-B01	SPWT-WG01	SPRC-101	SPCC-D10	SPWRK-VO2	SPHNS-S01E	SPHDS-S01E	SPHM-64M	SPBN-H160	SPHCH-64	Single Box	Multi Box



SLIM DUCTS






HIGH STATIC PRESSURE

Model Name			CHV-07SDHSP	CHV-09SDHSP	CHV-12SDHSP	CHV-15SDHSP	CHV-19SDHSP	CHV-24SDHSP	
Capacity	Cooling	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	
	Heating	Btu/h	8,500	10,900	13,700	17,100	21,600	27,400	
Input Power		W	40	40	55	55	55	82	
Power Supply		V/Ph/Hz	208-230V / 1Ph / 60Hz						
Electrical Parameters	MCA	A	1.81	1.81	1.81	1.81	2.27	2.27	
	MOP	A	15						
Airflow Rate		CFM	318/283/240/ 222/205/187	318/283/240/ 222/205/187	424/388/353/ 318/283/254	424/388/353/ 318/283/254	512/459/406/ 371/335/307	671/600/530/ 459/388/335	
Sound Pressure Level		dB(A)	30/27/23/21/20/19	30/27/23/21/20/19	35/33/32/28/26/24	35/33/32/28/26/24	33/30/27/25/23/22	36/34/31/28/24/22	
Static Pressure Range		in. WG	0.12/0.16/0.20/0.24/0.28/0.32/0.36/0.40/0.44/0.48/0.52/0.56/0.60						
Dimensions (H x W x D)		in.	10.63x28.55x28.34	10.63x28.55x28.34	10.63x28.55x28.34	10.63x28.55x28.34	10.63x38.55x28.34	10.63x28.55x28.34	
Weight		lbs.	51	51	53	53	66	66	
Connection Pipe Diameter	Liquid	in.	1/4					3/8	
	Gas		1/2					5/8	
	Drain		VP25						

Model Name			CHV-30SDHSP	CHV-38SDHSP	CHV-48SDHSP	CHV-54SDHSP	CHV-76SDHSP	CHV-96SDHSP	
Capacity	Cooling	Btu/h	30,800	38,000	48,000	54,500	76,500	95,600	
	Heating	Btu/h	34,200	42,500	54,500	61,500	85,300	107,500	
Input Power		W	100	132	180	223	610	830	
Power Supply		V/Ph/Hz	208-230V / 1Ph / 60Hz						
Electrical Parameters	MCA	A	2.68	2.68	5.04	5.04	5.57	7.92	
	MOP	A	15						
Airflow Rate		CFM	883/812/742/ 671/600/530	989/883/812/ 742/671/600	1254/1148/1042/ 936/830/724	1377/1254/1095/ 936/830/770	2012/1906/1835/ 1800/1730/1677	2541/2400/2294/ 2153/2030/1765	
Sound Pressure Level		dB(A)	34/32/30/28/25/22	37/35/31/29/26/23	38/36/34/31/29/26	41/38/35/33/30/27	49/48/47/46/45/44	53/52/50/49/47/44	
Static Pressure Range		in. WG	0.20/0.24/0.28/0.32/0.36/0.40/0.44/0.48/0.52/0.56/0.60/0.64/0.68/0.72/0.76/0.80				0.20 - 1(0.60)		0.20 - 1(0.60)
Dimensions (H x W x D)		in.	11.8x46.27x31.5	11.8x46.27x31.5	11.8x58.08x31.5	11.8x58.08x31.5	18.5x19.25x44.5	18.5x19.25x44.5	
Weight		lbs.	88	88	108	108	229	229	
Connection Pipe Diameter	Liquid	in.	3/8					7/8	
	Gas		5/8					7/8	
	Drain		VP25						

Accessories High Static Pressure Ducted Unit

Wired Controllers			Wireless Controller	Central Controller	Receiver Kit	Motion Sensor	Humidity Sensor	WiFi Adapter	Drain Pump
SPWT-A01	SPWT-B01	SPWT-WG01	SPRC-101	SPCC-D10	SPWRK-V02	SPHNS-S01E	SPHDS-S01E	SPHM-64M	SPIDP-DHP07/24-27/54-76/96
									

Drain Pump	Bacnet	CH-Checker	Switch Boxes	
SPEDP-DHP07/54	SPBN-H160	SPHCH-64	Single Box	Multi Box
				

- The nominal cooling capacity is the combined capacity of the Cooper&Hunter standard split system. Cooling Operation Conditions Indoor Air Inlet Temperature: 80°F DB, 66°F WB, Outdoor Air Inlet Temperature: 95°F DB, Heating Operation Conditions Indoor Air Inlet Temperature: 68°F DB, Outdoor Air Inlet Temperature: 44°F DB, 42°F WB, Piping Length: 24.6ft, Piping Lif: 0ft
- The sound pressure level is based on following conditions: 4.9ft Beneath the Unit, With Discharge Duct(6.5ft.) and Return Duct(3.3ft.). Voltage of the power source for the indoor fan motor is 208V. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.
- The data for external pressure "*"indicates Standard Pressure Setting values when a filter is not used.
- The actual appearance of outdoor units may differ from photos.
- Specifications are subject to change without notice.

SLIM DUCTS

DOAS UNITS



/// SIMPLE & FLEXIBLE SYSTEM

Create a more comfortable, healthy indoor environment with the fresh air indoor unit which provides outdoor air ventilation and seamlessly integrates into a ducted VRF system.

/// HIGH STATIC PRESSURES OFFERED

/// DRAIN PUMP PRE-INSTALLED

Indoor Unit Type		Fresh Air Indoor Unit
Model Name		CHV-96FASD
Indoor Unit Power Supply		208-230V / 1Ph / 60Hz
Outlet Air Temperature Control*1 Nominal Cooling Capacity	Btu/h (kW)	96,000 (28.2)
Outlet Air Temperature Control*1 Nominal Heating Capacity	Btu/h (kW)	60,000 (17.6)
Indoor Temperature Control*2 Nominal Cooling Capacity	Btu/h (kW)	96,000 (28.2)
Indoor Temperature Control*2 Nominal Heating Capacity	Btu/h (kW)	83,600 (24.5)
Sound Pressure Level *3 (Overall A Scale) (208/230V)	dB	50/51
Outer Dimensions Height	in.(mm)	19-1/8. (486)
Outer Dimensions Width	in.(mm)	50 (1270)
Outer Dimensions Depth	in.(mm)	44-1/8 (1120)
Net Weight	lbs(kg)	247 (112)
Refrigerant		R410A
Indoor Fan Air Flow Rate	cfm (m/min)	1236 (35.0)
External Pressure (208/230V) High Pressure	in.W.G(Pa)	1.06/1.24 (265/310)
External Pressure (208/230V) Standard	in.W.G(Pa)	-
Motor Nominal Output	w	402 (201 x 2pcs)
Min Circuit Amps	A	4.3
Maximum Fuse Amps	A	15
Connections Refrigerant Piping Liquid Line	in.(mm)	Brazed 3/8 (9.520)
Connections Refrigerant Piping Gas Line	in.(mm)	Brazed 7/8 (22.20)
Condensate Drain OD	in.(mm)	VP25 1-1/4 (32)
Condensate Drain ID	in.(mm)	VP251 (25)

Temperature Range of Fresh Air: Cooling: 68°F - 109°F, Heating: 19°F - 68°F

Accessories High Static Pressure Ducted Unit									
Wired Controllers			Wireless Controller	Central Controller	Receiver Kit	Motion Sensor	Humidity Sensor	WiFi Adapter	Bacnet
SPWT-A01	SPWT-B01	SPWT-WG01	SPRC-101	SPCC-D10	SPWRK-V02	SPHNS-S01E	SPHDS-S01E	SPHM-64M	SPBN-H160

CH-Checker	Switch Boxes		*1. Outlet Air Temperature Control: A control system to bring the outlet temperature closer to the set point temperature of the wired controller, using an outlet air thermistor of the unit. Nominal capacity (outlet air temperature control) is based on combination with VRF system and following conditions: Cooling Operation Conditions-Outdoor Temperature: 91°F DB (33.0°C DB) 82°F WB (28.0°C WB) Discharge Set Temperature: 61°F DB (16.0°C DB), Heating Operation Conditions Outdoor Temperature: 32°F DB (0°C DB) 27°F WB (-2.9°C WB), Discharge Set Temperature: 72°F DB (22.0°C DB), Piping Length: 24.6 ft. (7.5m) Piping Lift: 0 ft. (0m)						
SPHCH-64	Single Box	Multi Box	*2. Indoor Temperature Control: A control system to bring the room atmosphere temperature closer to the set point temperature of the wired controller, using a temperature sensor (remote sensor or thermistor in wired controller) mounted to any place in the room. Nominal capacity (indoor temperature control) is based on combination with VRF system and following conditions: Cooling Operation Conditions-Outdoor Temperature: 91°F DB (33.0°C DB) 82°F WB (28.0°C WB), Indoor Temperature: 81°F DB (27.0°C DB), Heating Operation Conditions-Outdoor Temperature: 32°F DB (0°C DB) 27°F WB (-2.9°C WB), Indoor Temperature: 68°F DB (20.0°C DB), Piping Length: 24.6 ft. (7.5m) Piping Lift: 0 ft. (0m)						
			*3. The sound pressure level is based on the following conditions. 4.9 ft. (1.5m) beneath the units. The above data is measured in an anechoic chamber so that reflected sound should be taken into consideration in the field.						



WALL MOUNTS

WALL UNITS

/// HIGH EFFICIENCY DC FAN MOTOR

The DC fan motor provides low-cost operation with a minimum power consumption as low as 20W, which is approximately 60% less than conventional air conditioning options.

/// QUIET OPERATION

Super silent DC fan motors and EEVs ensure quiet operation of C&H wall mounted units. Sleep Mode and Silent Mode can also be utilized for further noise reduction.

/// 6 FAN SPEEDS

6 indoor fan speeds are available to meet a variety of needs.

/// SELF-CLEAN FUNCTION

CHV wall mounts have a Self-Clean function which dries the coil to eliminate build-up of dust, mildew, and other airborne particles.



Model Name			CHV-07WTU	CHV-09WTU	CHV-12WTU	CHV-15WTU	CHV-18WTU	CHV-24WTU	CHV-28WTU
Capacity	Cooling	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	28,700
	Heating	Btu/h	8,500	11,300	13,700	17,100	21,500	27,300	28,700
Input Power		W	20	20	30	30	30	70	80
Power Supply		V/Ph/Hz	208-230V / 1Ph / 60Hz						
Electrical Parameters	MCA	A	0.45	0.45	0.53	0.56	0.56	0.94	1.02
	MOP	A	15						
Airflow Rate		CFM	347/323/305/288/264/247	347/323/305/288/264/247	364/323/305/288/264/247	570/529/500/470/429/405	705/635/600/529/470/411	705/635/600/529/470/411	823/776/705/600/500/429
Sound Pressure Level		dB(A)	36/35/33/32/30/28	36/35/33/32/30/28	36/35/33/32/30/28	38/37/36/32/31/29	40/38/36/35/33/31	45/42/41/38/35/31	50/48/45/41/36/33
Dimensions (H x W x D)		in.	10.63x33.27x8	10.63x33.27x8	10.63x33.27x8	12.34x37.80x9.06	12.34x44.09x9.06	12.34x44.09x9.06	12.34x44.09x9.06
Weight		lbs.	20	20	20	30	35	35	35
Connection Pipe Diameter	Liquid	in.	1/4	1/4	3/8	3/8	3/8	3/8	3/8
	Gas	in.	3/8	3/8	1/2	1/2	5/8	5/8	5/8
	Drain		VP16						

Accessories Wall Mount Unit										
Wired Controllers			Wireless Controller	Central Controller	Motion Sensor	WIFI Adapter	Bacnet	CH-Checker	Switch Boxes	
SPWT-A01	SPWT-B01	SPWT-WG01	SPRC-101	SPCC-D10	SPHNS-S01E	SPHM-64M	SPBN-H160	SPHCH-64	Single Box	Multi Box

- The nominal cooling capacity and heating capacity are based on following conditions: The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field. Cooling Operation Conditions Indoor Air Inlet Temperature: 80°F DB, 66°F WB Outdoor Air Inlet Temperature: 95°F DB
- Heating Operation Conditions Indoor Air Inlet Temperature: 68°F DB, Outdoor Air Inlet Temperature: 44°F DB, 42°F WB Piping Length: 2.6ft. Piping Lift: 0ft. The sound pressure level is based on following conditions: 2.6ft.(0.8m) below the unit and 3.3ft.(1m) in front of the unit. The above noise values are measured under the condition of air supply.
- The actual appearance of outdoor units may differ from photos.
- Specifications are subject to change without notice.

AIR HANDLER UNITS

MULTI POSITION AHU



/// KEY FEATURES

- Multi positioning installation is able to fit in different type of projects and room structures.
- 100% copper pipe
- Low noise DC Fan Motor
- Optional electric heater



Model Name			CHV-18MPAHU	CHV-24MPAHU	CHV-36MPAHU	CHV-48MPAHU	CHV-60MPAHU
Capacity	Cooling	Btu/h	18,000	24,000	36,000	48,000	60,000
	Heating	Btu/h	20,000	27,000	40,000	54,000	66,000
Power Supply		V/Ph/Hz	208-230V/ 1Ph / 60Hz				
Electrical Parameters	MCA	A	2.27	2.68	2.68	5.57	7.92
	MOP	A	15				
Airflow Rate		CFM	600	765	1100	1400	1500
Sound Pressure Level		dB(A)	43/33	44/34	51	53	55
Dimensions (H x W x D)		in.	45x17.75x20.88	46x19.63x21.63	46x19.63x21.63	53.88x22x24	53.88x22x24
Weight		lbs.	125	135	135.5	204	204
Connection Pipe Diameter	Liquid	in.	1/4	3/8	3/8	3/8	3/8
	Gas		1/2	5/8	5/8	5/8	5/8
	Drain		1 1/4				

Accessories MAHU

Wired Controllers			Wireless Controller	Central Controller	Receiver Kit	Motion Sensor	WIFI Adapter
SPWT-A01	SPWT-B01	SPWT-WG01	SPRC-101	SPCC-D10	SPWRK-V02	SPHNS-S01E	SPHM-64M

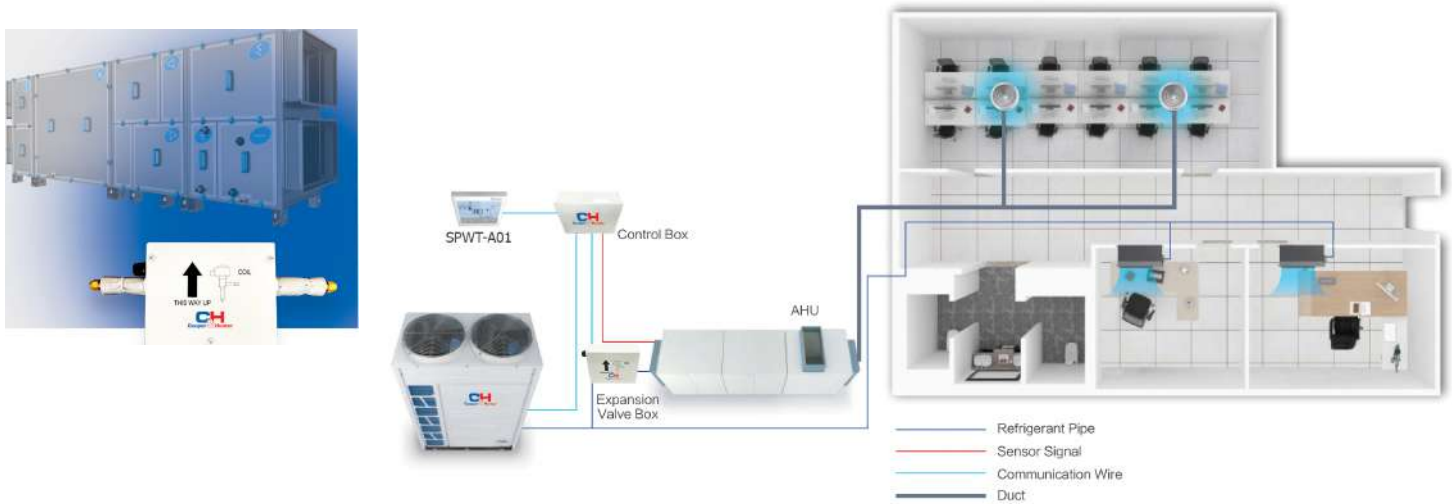
Drain Pump	Bacnet	CH-Checker	Switch Boxes		<ol style="list-style-type: none"> The nominal cooling capacity is the combined capacity of the Cooper&Hunter standard split system. Cooling Operation Conditions Indoor Air Inlet Temperature: 80°F DB, 66°F WB, Outdoor Air Inlet Temperature: 95°F DB, Heating Operation Conditions Indoor Air Inlet Temperature: 68°F DB, Outdoor Air Inlet Temperature: 44°F DB, 42°F WB, Piping Length: 24.6ft, Piping Lif: 0ft The sound pressure level is based on following conditions: 4.9ft Beneath the Unit, With Discharge Duct(6.5ft.)and Return Dut(3.3ft.). Voltage of the power source for the indoor fan motor is 208V. The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the field. The data for external pressure *)indicates Standard Pressure Setting values when a filter is not used. The actual appearance of outdoor units may differ from photos. Specifications are subject to change without notice.
SPEDP-DHP07/54	SPBN-H160	SPHCH-64	Single Box	Multi Box	

AIR HANDLER KIT

/// AHU CONNECTION KIT AND FUNCTIONS

Cooper&Hunter's AHU connection kit enables the connection of an air handler unit with a CHV6 system, providing more installation flexibility and convenience for connecting to previous ductwork in renovation projects.

AHU KIT FUNCTIONS: ON/OFF Control, Capacity Demand, Temperature Setting, and Set Operation Modes. A third-party AHU heat exchanger should be selected according to provided specifications and limitations. Neglecting these parameters could affect the life of the outdoor unit, the operating range or the reliability of operation.



Model Name			SPAK-02	SPAK-04	SPAK-06	SPAK-10	SPAK-20	SPAK-30
Power Supply		V/Ph/Hz	208-230V / 1Ph / 60Hz					
Nominal Capacity		Ton	1.5	3	5	8	16	24
		HP	2	4	6	10	20	30
Allowed Heat Exchanger Capacity (H/M/L)	Cooling	kBtu/h	19.4/17.1/13.6	38.2/30.7/24.2	54.6/47.8/38.2	95.5/85.3/68.2	191.1/177.4/170.6	290.0/279.8/273.0
	Heating	kBtu/h	24.2/19.1/15.7	42.7/34.1/27.3	61.4/54.6/42.7	107.5/95.5/76.4	245.0/204.7/191.1	324.2/313.9/307.1
Heat Exchanger Volume	Min	in. ³	34.8	62.9	117.2	237.4	516.9	754.3
	Max	in. ³	70.8	144.6	178.2	290.5	608.4	898.9
Equivalent Indoor Unit Capacity	Ton		1.5	3	5	8	16	24
	HP		2	4	6	10	20	30
Control Box Model			SPAK-01					
Expansion Valve Box Model			SPAK-02	SPAK-04	SPAK-06	SPAK-10	SPAK-20	SPAK-30

Operation Conditions		Cooling		Heating	
Indoor Air Inlet Temperature	DB	80°F		68°F	
	WB	66°F		-	
Outdoor Air Inlet Temperature	DB	95°F		44°F	
	WB	-		42°F	

Accessories AHU Kit						
Wired Controllers	Central Controller	WiFi Adapter	Bacnet	CH-Checker	Switch Boxes	
SPWT-A01	SPCC-D10	SPHM-64M	SPBN-HI60	SPHCH-64	Single Box	Multi Box

HYDRO BOX



Hydro Box Model Name			CHV-080HM	CHV-160HM
Power Supply			208-230V / 1Ph / 60Hz	
Heating Capacity	kW		8	16
	kBtu/h		27	54
MCA	A		22.71	22.71
MOP	A		25	25
Dimensions	External (HxWxD)	in.	35.03x20.47x12.6	
	Packaging (HxWxD)	in.	44.09x23.4x18.2	
Weight	Net	lbs.	121	128
	Gross	lbs.	159	165
Heat Exchanger			Plate Heat Exchanger	
Heat Exchanger Insulation Material			Elastomeric Foam	
Water Production	Heating	°F	59-131	
	DHW (with Electric Heater)	°F	77-167	
Sound Pressure		dB(A)	33	
Sound Power		dB(A)	46	
Piping Connections	Gas	in.	5/8	
	Liquid	in.	3/8	
Water Pump	Type	-	DC Motor	
	Speed	-	Inverter Control	
	Pumping Head	ft.	41	
	Pumping Head for Water Circuit	ft.	16.4	
	Power Input	w	100	160
Booster Heating		kW	3	
Water Filter	Diameter Perforations	in.	0.33	
	Material	-	Hpb59-1	
Water Circuit	Piping Connections Diameter	in.	1 1/4 NPT	
	Shut Off Valve	-	Yes	
	Drain Valve	-	Yes	
	Safety Valve	PSI	43.5	
	Air Purge Valve	-	Yes	
	Nominal Water	GPM	6.07	12.1
	Expansion Vessel	Volume	GAL	2.11
Max. Water Pressure		PSI	43.5	

Operation Range

Indoor Unit Cooling			Indoor Unit Heating			Water Module Heating (DHW)			Water Module Heating (floor heating)		
	Maximum	Minimum		Maximum	Minimum		Maximum	Minimum		Maximum	Minimum
Indoor	90°F DB / 73°F WB	70°F DB / 59°F WB	Indoor	81°F DB	59°F DB	Inlet Water	129°F	50°F	Inlet Water	129°F	50°F
Outdoor	126°F DB*	14°F DB	Outdoor	62°F WB*	-13°F WB**	Outdoor	109°F WB	-13°F WB**	Outdoor	62°F WB	-13°F WB**

CONTROLLERS

SPWT-WG01



- Cool/Heat/Auto/Dry/Fan
- Fan speed control
- 24-hour/7-Day timer
- Check function
- Error code history display
- PCB inspection indoor/outdoor
- Backlight control
- Wireless control available
- Breeze mode
- Eco mode (energy saving mode)
- Sleep mode
- 3D airflow customization
- Dehumidification
- Performance monitoring
- Air filter cleaning reminder
- Automatic test run
- Self-diagnosis function
- Built-in temperature sensor
- Individual louver control
- Quiet mode / silent mode
- Self-cleaning

SPWT-A01



- Cool/Heat/Auto/Dry/Fan
- Air filter cleaning reminder
- Fan speed control
- 1°F temperature setting
- 3D airflow customization
- 72-hour timer
- Backlight control
- Up to 16 indoor units can be connected
- Error code display
- Built-in temperature sensor
- Dehumidification
- Check function
- One touch test run
- Self cleaning
- Multiple speeds
- Swinging louvers

SPWT-B01



- Cool/Heat/Auto/Dry/Fan
- Fan speed control
- 24-hour timer
- Check function
- Error code history display
- PCB inspection indoor/outdoor
- Backlight control
- Wireless control available
- Breeze mode
- Eco mode (energy saving mode)
- Sleep mode
- 3D airflow customization
- Dehumidification
- Performance monitoring
- Air filter cleaning reminder
- Automatic test run
- Self-diagnosis function
- Built-in temperature sensor
- Individual louver control
- Quiet mode / silent mode
- Self-cleaning

SPRC-101



- Performance monitoring
- Automatic test run
- Fan speed control
- Backlight control
- Individual louver control
- Sleep mode
- 3D airflow customization
- Fan speed control
- 24-hour timer
- Self-diagnosis function
- Built-in temperature sensor
- Breeze mode
- ECO (energy saving mode)
- Sleep mode
- Self-cleaning function

WIRELESS RECEIVER KIT

- SPWRK-T03
- SPWRK-Z01
- SPWRK-V02
- SPWRK-X01H



ACCESSORIES

/// CENTRALIZED CONTROLLER SPCC-D10



- Max. 160 connected IDUs
- VRF and ATW system control
- Weekly/holiday schedule
- Remote control with web access
- Password setting
- Multilingual - 14 languages

External Input/Output Setting: Support external input and output signal control from 3rd-party control.

Temperature Limitation: You can set higher limit of heating and lower limit of cooling to save energy.

Intuitive Interface: Self-cleaning and six fan-speed setting can be set with a simple touch to ensure you more health and comfort.

IDU Alternate Operation Setting: IDUs alternate operation can be realized by a simple touch, simplifying air-conditioning control of equipment rooms or data centers.

High-resolution Color Screen: Smart Touch II adopts a minimalist and fashionable appearance design, equipped with a high-resolution 10-inch color screen, providing users with a more user-friendly usage experience.

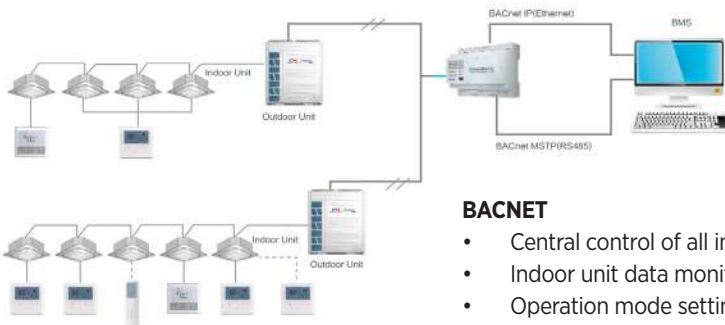
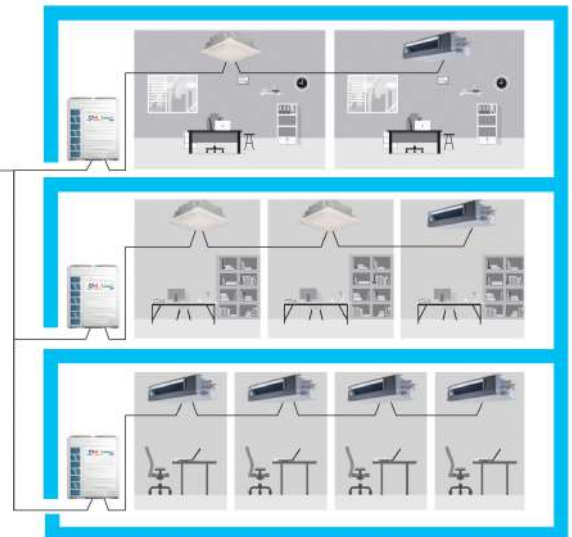
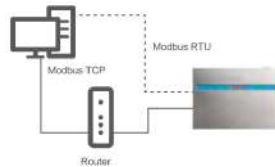
Error Reminder: Error reminder email when malfunction occurs helps to get the information in time.

/// BUILDING MANAGEMENT SYSTEM (BMS)

A Building management system is a computer-based system which offers convenient control and monitoring of multiple units in HVAC systems to ensure safe and efficient operation.

MODBUS

- ON/OFF control of all units
- Temperature setting
- Operating mode setting
- Inlet air temperature monitoring
- Airflow setting and monitoring
- Alarm monitoring and code display



BACNET

- Central control of all indoor units
- Indoor unit data monitoring
- Operation mode setting
- Louver swing control
- Activation/deactivation of wall thermostat

SWITCH BOX

SWITCH BOX FEATURES



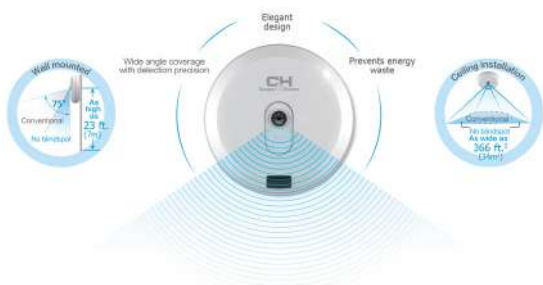
Cooper&Hunter's CHV6 URBAN series utilizes the optional switch box accessory to achieve heat recovery capabilities. Heat recovery systems utilize 3 refrigerant pipes, as opposed to only 2 in heat pump systems, to enable simultaneous cooling and heating.

- Quantity ports for indoor units (1, 4, 8, 12, 16)
- Maximum total capacity of connected indoor units per port: 290Btu/h
- Does not require drainpipes or drain connections
- Compact and simple design
- Combination flexibility between single and multiple branches
- Fewer joints, hooks, and spare parts for ease of installation

Model Name		Single Branch		Multiple Branch				
		SPSBB-16	SPSBB-28	SPMBB-4/45	SPMBB-8/85	SPMBB-12/85	SPMBB-16/85	
Power Supply	V/Ph/Hz	208-230V / 1Ph / 60Hz						
Net Weight	lbs.	13.9	14.1	31.1	55.6	78.3	103	
Number of Ports (Indoor Unit)		1	1	4	8	12	16	
Max Number of Connected Indoor Units per Port		8	8	8	8	6	6	
Max Total Capacity of Connected Indoor Units per Port	kW	16	28	16	16	16	16	
	Btu/h	≤54	≤96	≤54	≤54	≤54	≤54	
	RT	4.5	8	4.5	4.5	4.5	4.5	
Max Total Capacity of All Connected Indoor Units	kW	16	28	44.8	85	85	85	
	kBtu/h	≤54	≤96	≤154	≤290	≤290	≤290	
	RT	4.5	8	12.7	24	24	24	
Operation Sound	dB(A)	33	33	31	31	34	34	
Running Current	A	0.1	0.1	0.2	0.4	0.6	0.8	
Recommended Fuse/Breaker Size	in.	15						
Outer Dimensions (HxWxD)	in.	7.5x11.88x8.44	7.5x11.88x8.44	10.25x11.94x13.88	10.25x21.38x13.88	10.25x40.25x13.88	10.25x40.25x13.88	
Refrigerant Piping	Gas Line (High/Low Pressure)	in.	5/8	5/8	7/8	7/8	1 1/8	1 1/8
	(High/Low Pressure) Gas Line (Low Pressure)	in.	3/4	3/4	1	1 1/8	1 1/4	1 1/4
	Liquid Line	in.	-	-	1/2	1/2	3/4	3/4
Refrigerant Piping	Gas Line		5/8	3/4	5/8	5/8	5/8	5/8
	Liquid Line		-	-	3/8	3/8	3/8	3/8

SMART MOTION SENSOR

With the use of a dynamic motion sensor, the CHV6 system can prioritize cooling and heating functions in occupied rooms and high traffic areas. The round, white sensor can be mounted discretely on a wall or ceiling up to 23 ft high to detect movement within a 366 sq. ft area. This sensor is compatible with CHV wall mounts and slim ducts.

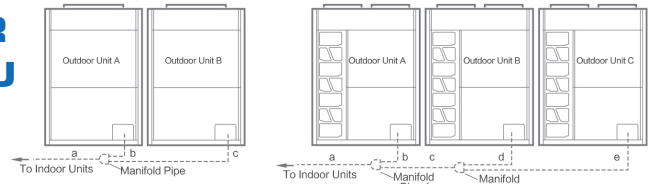


- **High accuracy:** Airflow automatically adjusts based on the amount of motion detected within range of the sensor.
- **Wide Range:** High motion detection within a 366 SF area.
- **High energy saving:** Units can be set to turn on and off automatically based on room occupancy.



(Indoor Unit on Left Side)

BRANCH PIPES FOR HYPER HEAT AND STANDARD ODU



Branch Pipes for Hyper Heat ODU

Model Name	Pipe type	Applicable capacity (kBtu/h)	Pipe sizes inch		
			Low Gas Pipe	Hight/Low Gas Pipe	Liquid Pipe
Manifold Pipe					
SPBPK-M282HR	Heat Recovery	144	1-1/8	7/8	1/2
SPBPK-M202HR	Heat Recovery	192	1-1/8	7/8	5/8
SPBPK-M212HR	Heat Recovery	240	1-3/8	1-1/8	3/4
SPBPK-162HP	Heat Pump	144		1-1/8	1/2
SPBPK-242HP	Heat Pump	192		1-1/8	5/8
SPBPK-M32HP	Heat Pump	240		1-3/8	3/4
Branch pipe - First/Last and after Switch box					
SPBPK-M142HR	Heat Recovery	Q<54	5/8	1/2	3/8
SPBPK-M282HR	Heat Recovery	54<Q<86	3/4	5/8	3/8
		86<Q<114	7/8	3/4	3/8
SPBPK-M452HR	Heat Recovery	114<Q<154	1-1/8	7/8	1/2
		154<Q<170	1-1/8	7/8	1/2
SPBPK-M562HR	Heat Recovery	170<Q<212	1-1/8	7/8	5/8
		212<Q<250	1-1/8	1-1/8	5/8
SPBPK-102HP	Heat Pump	Q<54		5/8	3/8
		54<Q<86		3/4	3/8
		86<Q<114		7/8	3/8
SPBPK-162HP	Heat Pump	114<Q<154		1-1/8	1/2
		154<Q<170		1-1/8	1/2
SPBPK-242HP	Heat Pump	170<Q<250		1-1/8	5/8

Branch Pipes for Standard ODU

Model Name	Pipe type	Applicable capacity (kBtu/h)	Pipe sizes inch		
			Low Gas Pipe	Hight/Low Gas Pipe	Liquid Pipe
Manifold Pipe					
SPBPK-M202HR	Heat Recovery	216	1-1/8	1-1/8	5/8
SPBPK-M212HR	Heat Recovery	240 - 312	1-1/4	1-1/8	3/4
SPBPK-M302HR	Heat Recovery	336	1-1/2	1-1/8	3/4
SPBPK-M302HR	Heat Recovery	360-384	1-1/2	1-1/4	3/4
SPBPK-M302HR/SPBPK-M212HR	Heat Recovery	408-456	1-1/2	1-1/4	3/4
SPBPK-M32HP	Heat Pump	216		1-1/8	5/8
SPBPK-M32HP	Heat Pump	240-312		1-1/4	3/4
SPBPK-M32HP	Heat Pump	336-384		1-1/2	3/4
SPBPK-M32HP/SPBPK-M32HP	Heat Pump	408-456		1-1/2	3/4
Branch pipe - First/Last and after Switch box					
SPBPK-M142HR	Heat Recovery	Q<54	5/8	1/2	3/8
SPBPK-M282HR	Heat Recovery	54<Q<86	3/4	5/8	3/8
		86<Q<114	7/8	3/4	3/8
SPBPK-M452HR	Heat Recovery	114<Q<154	1-1/8	7/8	1/2
		154<Q<170	1-1/8	7/8	1/2
SPBPK-M562HR	Heat Recovery	170<Q<212	1-1/8	7/8	5/8
		212<Q<250	1-1/8	1-1/8	5/8
SPBPK-M692HR	Heat Recovery	250<Q<344	1-1/4	1-1/8	3/4
		344<Q<544	1-1/2	1-1/4	3/4
SPBPK-102HP	Heat Pump	Q<54		5/8	3/8
		54<Q<86		3/4	3/8
		86<Q<114		7/8	3/8
SPBPK-162HP	Heat Pump	114<Q<154		1-1/8	1/2
		154<Q<170		1-1/8	1/2
SPBPK-242HP	Heat Pump	170<Q<250		1-1/8	5/8
SPBPK-302HP	Heat Pump	250<Q<344		1-1/4	3/4
	Heat Pump	344<Q<544		1-1/2	3/4



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