



FCU

- FGHC** Horizontal Concealed Units
- FCHU** Horizontal Ultra Thin Units
- FGVC** Vertical Concealed Units
- FGVE** Vertical Exposed Units
- FCHR** Hi Rise Units

Fan Coil Unit
Product Line

Contents

Overview 3
 Horizontal Concealed 4
 Horizontal Ultra Thin 5
 Vertical Concealed 6
 Vertical Exposed 7
 Hi Rise 8
 Optional Valve Accessories 9
 Thermostat Options 10
 Electrified Product Family 11
 Other Products 12



Globally Recognized. Industry Respected.
 All units are AHRI Certified®

AHRI Certified® is the trusted mark of performance for heating, air conditioning, water heating, and commercial refrigeration equipment. To find AHRI Certified products, go to www.ahridirectory.org.

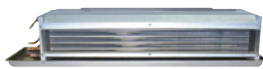


About Ice Air

Ice Air has over 50 years of industry experience in developing and manufacturing a wide variety of HVAC units to provide superior new construction heating and cooling systems and to replace old installations. Ice Air offers advanced green technologies and provides world-class comfort at high efficiency levels, meeting environmental standards and promoting a healthy environment.

Ice Air's state-of-the-art units can be equipped with digital controls designed to optimize user comfort and ease of operation. Ice Air products are designed to provide years of trouble-free operation and reliable performance in multi-family housing, hotels/motels, dormitories, commercial buildings and similar projects. Units are ideal for new construction, retrofit and replacement applications.

FCHC Horizontal Concealed, Page 4



FCHU Horizontal Ultra Thin, Page 5



FCVC Vertical Concealed, Page 6



FCVE Vertical Exposed, Page 7



FCHR Hi Rise, Page 8



Overview

Quiet Comfort...Efficient Control...Flexible Design

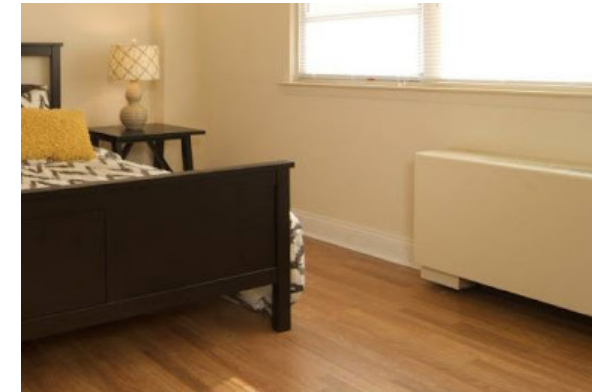
Ice Air Fan Coil Units (FCU) provide reliable performance, high-efficiency operation and allow ultimate design flexibility.

Ice Air FCUs utilize the highest quality materials and manufacturing practices in order to provide quiet comfort operation. Thermal and sound insulation, paired with precisely-sized air handling components deliver low sound levels while achieving optimum comfort. Work without distraction. Sleep without noise. Ice Air units create a comfortable environment so quiet it's almost undetectable.

Through the use of optional ECM motors, Ice Air FCUs are highly efficient while providing improved indoor air quality. As a member of the USGBC (U.S. Green Building Council), Ice Air is committed to creating a healthy environment through the use of sustainability-focused HVAC products that support green building design and construction.

Maintaining the highest quality product means Ice Air products meet all UL standards and conform to ASHRAE 90.1, local building codes and energy standards. All Ice Air products are ETL-listed for safety in the U.S. and Canada.

Every project is different with distinctive needs outside of providing comfort to the space. Ice Air FCUs are available in a multitude of configurations with a wide variety of accessories and options such as 2-pipe and 4-pipe systems, customized valve packages and customized sheet metal to create a custom design tailored to the needs of the project.



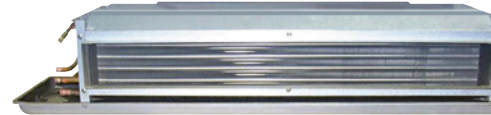
FCHC Series



Easily adaptable for concealed or above-ceiling mounting, the FCHC compact fan coil units save floor space, making it an ideal choice for use in new construction and retrofit applications. The design flexibility allows the unit to be customized to meet a variety of space requirements. The units are designed for easy installation and service.

Features:

- Whisper quiet sound levels
- Available in 2-pipe and 4-pipe systems
- Multiple control options
- Customizable configuration options
- Project-specific factory-installed piping packages



SERIES MODEL #		5FCHC02	5FCHC03	5FCHC04	5FCHC06	5FCHC08	5FCHC10	5FCHC12
Airflow (CFM)	HIGH	200	300	400	600	800	1,000	1,200
	MED	150	225	300	450	600	750	900
	LOW	100	150	200	300	400	500	600
Cooling Capacity (BTU/h)	HIGH	7,000	9,400	12,500	19,000	23,200	27,800	33,300
	MED	5,250	7,050	9,375	14,250	17,400	20,850	24,975
	LOW	4,200	5,640	7,500	11,400	13,920	16,680	19,980
Heating Capacity (BTU/h)	HIGH	10,100	14,400	18,800	28,000	36,100	43,200	51,300
	MED	7,575	10,800	14,100	21,000	27,075	32,400	38,475
	LOW	6,060	8,640	11,280	16,800	21,660	25,920	30,780
Fan	TYPE	DOUBLE INLET FORWARD CURVED						
	NUMBER	1	2			3	4	
Motor	V/Hz	115V/60Hz						
Coil	TYPE	ALUMINUM FIN AND COPPER TUBE						
Piping Connections (in)	INLET/OUTLET	1/2						
	CONDENSATE	5/8						

SPECIFICATION NOTES:
 1. Cooling: 80°F DB, 67°F WB, 45°F Entering Water, 10°F Temperature Differential
 2. Heating: 70°F DB, 180°F Entering Water

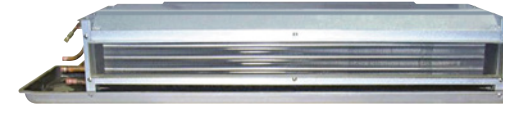
FCHU Series



The slim, space-saving FCHU unit is designed specifically for under-ceiling mounting. This flexibility allows the unit to be customized to meet a variety of job requirements.

Features:

- Whisper quiet sound levels
- Available in 2-pipe and 4-pipe systems
- Multiple control options
- Customizable configuration options
- Project-specific factory-installed piping packages



SERIES MODEL #		5FCHU02	5FCHU03	5FCHU04	5FCHU06
Airflow (CFM)	HIGH	200	300	400	600
	MED	150	225	300	450
	LOW	100	150	200	300
Cooling Capacity (BTU/h)	HIGH	4,900	7,000	11,900	15,300
	MED	3,675	5,250	8,925	11,475
	LOW	2,940	4,200	7,140	9,180
Heating Capacity (BTU/h)	HIGH	8,300	11,600	19,600	26,700
	MED	6,225	8,700	14,700	20,025
	LOW	4,980	6,960	11,760	16,020
Fan	TYPE	DOUBLE INLET FORWARD CURVED			
	NUMBER	1	2		2
Motor	V/Hz	115V/60Hz			
Coil	TYPE	ALUMINUM FIN AND COPPER TUBE			
Piping Connections (in)	INLET/OUTLET	1/2			
	CONDENSATE	5/8			

SPECIFICATION NOTES:
 1. Cooling: 80°F DB, 67°F WB, 45°F Entering Water, 10°F Temperature Differential
 2. Heating: 70°F DB, 180°F Entering Water

FCVC Series



Ice Air's concealed vertical fan coil FCVC unit is designed to accommodate large spaces where easy access to the equipment for maintenance purposes is preferred. Typically, the unit is located in a closet within the conditioned space.

Features:

- Whisper quiet sound levels
- Available in 2-pipe and 4-pipe systems
- Multiple control options
- Customizable configuration options
- Project-specific factory-installed piping packages
- AHRI Certified*



SERIES MODEL #		5FCVC02	5FCVC03	5FCVC04	5FCVC06	5FCVC08	5FCVC10	5FCVC12
Airflow (CFM)	HIGH	200	300	400	600	800	1,000	1,200
	MED	150	225	300	450	600	750	900
	LOW	100	150	200	300	400	500	600
Cooling Capacity (BTU/h)	HIGH	6,900	8,100	11,600	18,700	20,800	30,700	34,100
	MED	5,175	6,075	8,700	14,025	15,600	23,025	25,575
	LOW	4,140	4,860	6,960	11,220	12,480	18,420	20,460
Heating Capacity (BTU/h)	HIGH	10,350	12,150	17,400	28,050	31,200	46,050	51,150
	MED	7,760	9,110	1,305	2,100	23,400	34,540	38,360
	LOW	6,200	7,300	10,450	16,800	18,700	27,600	30,650
Fan	TYPE	DOUBLE INLET FORWARD CURVED						
	NUMBER	1	2			3	4	
Motor	V/Hz	115V/60Hz						
Coil	TYPE	ALUMINUM FIN AND COPPER TUBE						
Piping Connections (in)	INLET/OUTLET	1/2						
	CONDENSATE	5/8						

SPECIFICATION NOTES:

1. Cooling: 80°F DB, 67°F WB, 45°F Entering Water, 10°F Temperature Differential
2. Heating: 70°F DB, 180°F Entering Water

FCVE Series



Ice Air's Vertical Exposed FCVE units independently provide comfort cooling and heating within a room. They are often located against walls, beneath windows or along the perimeter of a room to accommodate maximum load requirements.

Features:

- Whisper quiet sound levels
- Available in 2-pipe and 4-pipe systems
- Multiple control options
- Customizable configuration options
- Project-specific factory-installed piping packages
- AHRI Certified*



SERIES MODEL #		5FCVE02	5FCVE03	5FCVE04	5FCVE06	5FCVE08	5FCVE10	5FCVE12
Airflow (CFM)	HIGH	200	300	400	600	800	1,000	1,200
	MED	150	225	300	450	600	750	900
	LOW	100	150	200	300	400	500	600
Cooling Capacity (BTU/h)	HIGH	6,900	8,100	11,600	18,700	20,800	30,700	34,100
	MED	5,175	6,075	8,700	14,025	15,600	23,025	25,575
	LOW	4,140	4,860	6,960	11,220	12,480	18,420	20,460
Heating Capacity (BTU/h)	HIGH	10,350	12,150	17,400	28,050	31,200	46,050	51,150
	MED	7,760	9,110	1,305	2,100	23,400	34,540	38,360
	LOW	6,200	7,300	10,450	16,800	18,700	27,600	30,650
Fan	TYPE	DOUBLE INLET FORWARD CURVED						
	NUMBER	1	2			3	4	
Motor	V/Hz	115V/60Hz						
Coil	TYPE	ALUMINUM FIN AND COPPER TUBE						
Piping Connections (in)	INLET/OUTLET	1/2						
	CONDENSATE	5/8						

SPECIFICATION NOTES:

1. Cooling: 80°F DB, 67°F WB, 45°F Entering Water, 10°F Temperature Differential
2. Heating: 70°F DB, 180°F Entering Water

FCHR Series



Designed specifically for high-rise installations – apartments, hotels, condominiums and office buildings – the Ice Air FCHR units combine easy installation without sacrificing room comfort or design appearance. These compact units take up a minimum of space and can be used in a variety of ways such as built into a room divider or a wall to serve two or more rooms. The FCHR can also be concealed in the corner of a room or even inside a closet.

Features:

- Whisper quiet sound levels
- Available in 2-pipe and 4-pipe systems
- Multiple control options
- Customizable configuration options
- Project-specific factory-installed piping packages



SERIES MODEL #		5FCHR03	5FCHR04	5FCHR06	5FCHR08	5FCHR10	5FCHR12
Airflow (CFM)	HIGH	300	400	600	800	1,000	1,200
	MED	225	300	450	600	750	900
	LOW	150	200	300	400	500	600
Cooling Capacity (BTU/h)	HIGH	11,500	13,600	21,900	27,500	37,700	43,100
	MED	8,625	10,200	16,425	20,625	28,275	32,325
	LOW	6,900	8,160	13,140	16,500	22,620	25,860
Heating Capacity (BTU/h)	HIGH	17,250	20,400	32,850	41,250	56,550	64,650
	MED	12,900	15,300	24,600	30,900	42,400	48,450
	LOW	10,350	12,250	19,700	24,750	33,950	38,750
Fan	TYPE	DOUBLE INLET FORWARD CURVED					
	NUMBER	1					
Motor	V/Hz	115V/60Hz					
Coil	TYPE	ALUMINUM FIN AND COPPER TUBE					
Piping Connections (in)	INLET/OUTLET	1/2					
	CONDENSATE	1/2					

SPECIFICATION NOTES:

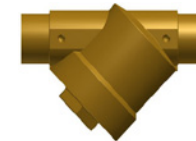
1. Cooling: 80°F DB, 67°F WB, 45°F Entering Water, 10°F Temperature Differential
2. Heating: 70°F DB, 180°F Entering Water

Optional Valve Accessories



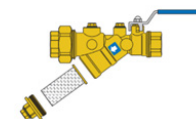
Motorized Valve

The optional factory supplied motorized valve comes with a 2-way or 3-way valve body and a 2-position electric actuator. The actuator can be normally open or normally closed. When powered, the actuator moves to the desired position. When power is removed, the actuator returns to the normal position.



Autoflow Valve

The optional automatic balancing valve provides accurate flow control. Valves are factory set to a rated flow. Flow will automatically be controlled within a given tolerance of the set flow rate.



Strainer

The optional y-strainer collects and removes debris, extending coil lifetime and preventing damage to controls and heat transfer components. Optional blowdown valve allows for clean-out without removing mesh screen.



Isolation Valve

The optional isolation valve is a manual shutoff valve. Water flow is controlled by rotating the valve handle.



Stainless Steel Hoses

The optional stainless-steel hoses comes with swivel connections for union of chassis and risers. Two hoses are provided per unit for connection of supply and return lines.



Purge Valve

Purge valves facilitate the removal of excess or unwanted liquids/gases within a piping system, storage tank, or other container.

Thermostat Options

Ice Air's thermostats for its lines of PTACs, WSHPs, Fan Coils, SPACs and Hybrid Water-Cooled ACs are designed for ease-of-use and efficiency. Unit-mounted controls are standard (accessible through an attractive brushed aluminum control door). Optional wall-mounted remote controls are available.



Habitat Wireless Thermostat

- Attractive, user-friendly design
- Wireless or wired connection
- Mobile app provides full control from anywhere, anytime
- Wi-Fi enabled for Smart App control options
- Works with Alexa or Google Assistant



Programmable Digital Touchscreen Thermostat

- Streamlined touchscreen display
- Intuitive design makes configuration fast and easy



Programmable Digital LCD Thermostat

- Easy-to-read digital display
- Compact, attractive design
- User-friendly for quick configuration



Non-Programmable LCD Digital Touch Pad Thermostat

- Touchpad interface controls basic functions
- Designed for simple operation



Non-Programmable LED Digital Touch Pad Thermostat

- Touchpad interface controls basic functions
- Designed for simple operation



Manual Temperature and Fan Speed Dial Thermostat

- Straightforward design for controlling basic functions
- Allows for easy thermostatic control

for FCVE/FCVC only



Manual Temperature and Mode Dial Thermostat

- Designed for Packaged Terminal Units
- Simple to operate
- Provides basic control functions

for PTAC/PTHP only

Get Electrified Using Building Electrification and Ice Air

Whether driven by corporate policy or local greenhouse gas emission legislation, the movement to reduce carbon dioxide emissions – also known as decarbonization – is gaining momentum. As building owners explore ways to reduce reliance on fossil fuels and meet increasingly stringent environmental requirements, **building electrification** has emerged as a proven strategy for reducing emissions while increasing efficiency and lowering operating costs. Building electrification is the process of replacing existing technologies that rely on fossil fuels – such as space heating systems – with newer technologies such as heat pumps that use electricity as the energy source for both heating and cooling.

Numerous states around the U.S. – including California, New York, Washington DC, and others – have adopted regulatory policies aimed at reducing greenhouse gas emissions. Such regulations stress the role of electrification in decarbonizing the built environment and have wide-ranging implications for utilities, building engineers and architects, OEMs and building owners.

As an established HVAC original equipment manufacturer, Ice Air has been ahead of the of building electrification and decarbonization movement for decades. We're proud to leading the way and usher in a better tomorrow with innovative, reliable and efficient systems – all designed to help building owners make the transition to a greener, efficient and sustainable future.

Electrified Product Family



RSXC

Packaged Terminal Heat Pump



SPXC

Central Air Conditioner



HPWH

Heat Pump Water Heater - Domestic HW



VSHPG

Geothermal Vertical Stack Heat Pump

Electrified Product Family



* By making energy-saving upgrades today, you can give your building a head start on upcoming changes to city regulations such as NYC Law 97.

RSXC Series*

Cold Climate PTHPs give you the performance of a VRF system with the convenience of a PTAC. Using breakthrough cold climate technology allows Ice Air PTHPs to efficiently provide space heating down to -5°F and below.



iCool XC*

iCool XC heat pumps are compact, with advanced, two-stage dual heating capabilities (partial cold climate operation down to 23°F then supplemental electric heat resistance for increased output).



SPXC Series*

Cold Climate SPHPs are self-contained, concealed, ducted systems. This line of vertical packaged heat pumps serves multiple spaces through concealed ductwork to efficiently provide space heating to -5°F and below.



HPWH Series*

Air-Source Cold Climate Heat Pump Water Heaters capture the free energy in the environment and convert it to hot water. These units are certified to operate down to -13°F.



HPWH-SC Series*

Air-Source Cold Climate heat pump chiller heaters capture free energy in the environment to provide both hot and chilled water. These units are certified to operate down to -13°F.



VSHPGE Geothermal*

Ice Air's Geothermal WSHP is a versatile geothermal heat pump that is available in a range of sizes and configurations for convenient installation. Fully compatible with geothermal conditions, it provides an ideal solution for whisper quiet cooling and heating within a tight footprint.



Habitat Smart Technologies



The Habitat Thermostat's unique wireless mesh technology allows smart temperature control over the space it is monitoring. Transform a Fan Coil Unit into a state-of-the-art heating and cooling unit without opening walls to run wires.

Compatible with Nexus Home Automation Products **nexus** Equipment Management System™

Other Products

FCU

Fan Coil Units



This simple and easy cooling and heating solution provides reliable performance, high efficiency, ease of operation, low cost, easy installation, quiet comfort and a variety of solution-based options.

HWCAC

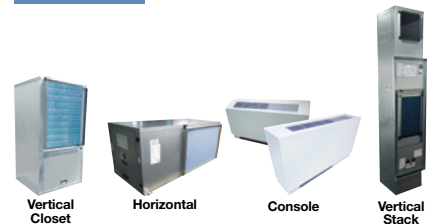
Hybrid Water-Cooled Air Conditioners



HWCACs provide hydronic heat without using the unit's compressor through an innovative system that combines high-efficiency cooling with a hot water coil.

WSHP

Water Source Heat Pumps



WSHPs provide efficient room-by-room comfort. Units function independently and are piped to a central water loop.

PTAC

Packaged Terminal Air Conditioners

PTACs are designed for ultra-high efficiency and comply with LEED® criteria in a durable, user-friendly package. Available for new construction, retrofit and ExactFit™ replacement applications.



NEW! Ice Air CEU Webinar

Learn more about the role HVAC electrification plays in building decarbonization today at iceairceu.com