



FAN COILS
AIR HANDLERS

PRODUCTS CATALOG



 WILLIAMS



Williams fan coils are installed all over the world. The Wynn in Las Vegas, Mississippi State University, Google, Disney, and the Hilton Waikoloa are just a few of the places that trust the Williams brand.



About Williams

For over 100 years, Williams has been a market leader in providing everything from basic units to fully customized high-quality HVAC products for residential and commercial buildings. Today, Williams continues the proud tradition by offering to the commercial/industrial market more configurations and size options of quality fan coils, and air handlers than any other HVAC company in North America.

Williams, based in Colton, California, serves all US and overseas markets with complete engineering, sales, marketing and administrative services. At its Colton, California facility,



Williams uses the resources of nearly 500,000 square feet of manufacturing and warehouse facilities to provide high quality products to some of the most discriminating customers in the world. Our pledge is to provide complete, high-quality and timely support for the successful completion of your construction projects involving engineered products offered by Williams.



Easy Riser Vertical Stack Fan Coil

300 - 1,200 CFM

CABINET DESIGN

The Easy Riser (ER) Vertical Stack fan coils are 88" in height and widely recognized in the industry for low-cost installation in multistory facilities. The Easy Riser fan coils are a draw-through design, ranging from 300 to 1,200 CFM and are available in four configurations. Easy Riser units have full easy access through the return-air grille to the coil, slide-out blower with quick-connect plug, filter and insulated drain pan.



BASIC - ER-B

Designed for concealed applications along room walls or in corners. This unit is constructed of heavy-gauge galvanized steel and insulated with 1/2" thick, three plus pound density, neoprene-coated fiberglass.

DELUXE - ER-D

This unit is constructed of heavy-gauge galvanized steel and insulated with 1 / 2" thick, three plus pound density, neoprene-coated fiberglass. While the Deluxe offers the same features as the Basic model above, the cabinet is manufactured of cold-rolled steel, phosphate conversion coated with a soft-white, powder-coat finish.



MASTER and SLAVE

Master and Slave models have the same internal features as the Basic model and are designed to work together. The Master/Slave combination features two separate fan coils piped to a common set of risers on the Master. Each fan coil has its own valves and controls. Master piped in series, one above the other. Available in painted configuration.

TWINPACK

The TwinPack is the same as the Master and Slave model above except the two fan coils are shipped and installed as one unit. Drywall is installed on the rear face of each fan coil. Drywall thicknesses may be selected to meet local codes. These models are custom built to the One-Hour, Through-Penetration Fire-Stop System. Each unit has its own valves, controls and unique lifting brackets for easy handling. Fire-stop must be field-furnished and applied per local code requirements after installation. Available in painted configuration.





Easy Riser Vertical Stack Fan Coil

Features and Options

FEATURES

- 300 to 1,200 CFM ranges in four configurations.
- Heavy-gauge galvanized steel cabinet insulated with 1/2" thick, high density, neoprene-coated fiberglass.
- Coils, 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual air vent. Coils are 100% underwater pressure tested to 350 PSI with a 300 PSI working pressure.
- Galvanized steel drain pan is powder-coated, covered in 1/8" thick closed-cell insulation.
- Three-speed, 115/1/60 PSC motor with quick-connect plug.
- Easy slide-out, draw-through blower and motor assembly.
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- One-inch fiberglass, throwaway filter.
- Full easy access through the return-air grille to the coil, slide-out blower with quick-connect plug, filter and insulated drain pan.
- One supply-air opening (ER-12 has two openings).
- Half-inch return-air collar for drywall.
- Expansion compensation loops for expansion and contraction of the coil assures a quieter operation.
- Low-cost installation in multistory facilities.
- Protective covers keep the grille openings free of debris during shipment and construction.
- Individually tagged, crated and shipped as scheduled for installation.
- ETL and AHRI certified; 100% factory tested.

OPTIONS

- Soft-white and custom colors; powder-coating that has been subjected to a 1,500 hour salt spray test in accordance with ASTM B117.
- Drain pans – stainless-steel.
- Three-speed motors 120-277/1/50-60 Hz.
- Insulation – 1/2" to 1" fiberglass, foil-face, and elastomeric.
- Coils – copper fins/tubes, phenolic-coated, stainless-steel casing and/or DX cooling – available from one- to six-row coils.
- Systems – Two- or four-pipe hydronic cooling/heating and/or electric heat.
- Controls – wide selection of factory mounted valves and controls.
- Filters – washable, and pleated.
- Grilles – supply and return single- and double-deflection, additional openings and custom colors.
- Electric resistance heat from 1 to 9 kW.
- Thermostat with quick-connect plug.
- Circulator pump for water heating applications.
- ECM™ motors; programmed 3-speed, or variable volume, 120-240/1/60 or 277/1/60.
- Outside Air Openings – motorized or manual outside air dampers.
- Custom riser lengths and extensions.
- Risers available in type M, L, and K copper with fiberglass, elastomeric closed-cell insulation options.
- Risers on Master fan coils have a 3" long and 5/8" swaged solder joint to connect to the Slave unit.
- Riser termination valve package.
- Pedestal bases.

Horizontal Fan Coils

200 - 1,200 CFM

CABINET DESIGN

Low-Static, direct-drive fan coils range from 200 to 1,200 CFM. Units are constructed of heavy-gauge galvanized steel and insulated with 1/2" thick, neoprene-coated fiberglass. Our low-static horizontal fan coils are a blow-through design. Drain pans are finished in a black powder-coat with 1/8" thick closed-cell insulation featuring primary and secondary drain connections. The low-profile design is particularly effective above drop ceilings, in closets and fits into spaces with tight vertical dimensions. They are designed for jobs where low-static pressure is required.

BASIC - LH-B

The Basic fan coil consists of a coil, quick-connect blower/motor assembly and insulated drain pan. Whether in hotels, motels or apartments, this fan coil is perfectly adaptable because of its low profile. This model has no exterior cabinet.



RETURN-AIR PLENUM - LH-R

The return-air plenum is the same as our Basic unit with a galvanized rear return-air plenum (bottom return optional), insulated with a 1/2 inch neoprene-coated fiberglass. It is also ideal for mounting above ceilings, in closets, hallways or bathroom areas. The plenum conceals the unit's blower motor, which is easily accessible for service by removing the bottom panel (rear panel if bottom return).

DELUXE - LH-D

Our Deluxe model is designed for a horizontal, exposed ceiling-mounted application. The Deluxe is a Basic fan coil with a cabinet manufactured of cold-rolled steel, insulated with neoprene-coated 1/2 inch fiberglass, and finished in a soft-white, powder-coat. This unit is ideal for new construction and remodel applications where adding air conditioning ductwork is limited.



FLUSH - LH-F

The Flush model is a recessed fan coil for flush ceiling applications. The telescoping frame and hinged access panel accommodate any type of ceiling. The access panel is manufactured of cold-rolled steel and finished in a soft-white, powder-coat.



Horizontal Fan Coils

Features and Options

FEATURES

- 200 to 1,200 CFM.
- Heavy-gauge galvanized steel cabinet insulated with 1/2" thick, high density, neoprene-coated fiberglass. (Excluding LH-B Basic)
- Coils, 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual air vent. Coils are 100% underwater pressure tested to 350 PSI with a 300 PSI working pressure.
- Galvanized steel drain pan is powder-coated, with 1/8" thick closed-cell insulation and has primary and secondary drain connections.
- Three-speed, 120/1/60 PSC motor with quick-connect plug.
- Blow-through design.
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- Swing-down, hinged return-air grille/access door on deluxe and flush models.
- Deluxe unit has single-deflection supply-air grille.
- One-inch duct collar on return- and supply-air openings.
- Low static, direct-drive fan coils.
- Low-profile design is effective above drop ceilings, in closets and fits into places with tight vertical dimensions.
- One-inch fiberglass, throwaway filter, except LH-B (Basic).
- Designed for jobs where low-static pressure is required.
- Protective covers keep the grille openings free of debris during shipment and construction.
- Individually tagged, crated and shipped as scheduled for installation.
- ETL and AHRI certified. 100% factory tested.

OPTIONS

- Soft-white and custom colors, powder-coated finish.
- Drain pans – stainless steel
- Insulation – 1/2" to 1" fiberglass, foil-face and elastomeric.
- Coils – copper fins/tubes, phenolic-coated, stainless steel coil casing – available from one- to six-row coils.
- Three-speed, 208-230/1/50-60 or 277/1/60 PSC motor with quick connect plug
- Systems – Two- or four-pipe hydronic cooling/heating and/or electric heat.
- Controls – wide selection of factory-mounted valves and controls.
- Filters – two-inch thick throwaway (except Deluxe and Flush), washable and pleated.
- Grilles – double-deflection and custom colors.
- Electric strip heat from 1 to 7 kW
- Circulator pump for water heating applications.

Vertical Fan Coils/Low Static

200 - 1,200 CFM

CABINET DESIGN

Low-Static, Vertical fan coils are available in sizes ranging from 200 to 1,200 CFM. Vertical fan coils are blow-through design. The vertical, up flow design is ideal for heating and cooling requirements in office buildings, college dormitories, churches, hospitals, hotels and motels. Vertical fan coil units are designed to be mounted on the floor or wall.

BASIC - LV-B

The Basic fan coil is manufactured of heavy-gauge galvanized steel and insulated with 1/2" thick, three plus pound density, neoprene-coated fiberglass. The Basic unit consists of the coil, galvanized powder-coated, drain pan with 1/8" thick closed cell insulation, filter and blower assembly with quick-connect plug. It is designed for furred-in-applications with a field-fabricated, custom enclosure.



DELUXE - LV-D

Our Deluxe is the same as the Basic model and installed into a fully-cased decorative cabinet. Constructed of cold-rolled steel, phosphate-conversion coated and painted with a soft-white, powder-coat finish. This unit is intended for "free-blow" exposed wall mounting. It is most commonly found under window sills in office buildings or motels. The one-piece, front panel is easily removed for complete service access. Filters are concealed from sight and easily removable without the use of tools. The Deluxe unit features four-way diffusing grilles for customized air discharge and black control door to complement the grille.



MODULAR - LV-M

The Modular model is the same as the slope top with solid sides and the cabinet is designed with a flat top. Removable, one-piece front panel provides complete access to the fan coil. This model has been designed with features to allow ease of maintenance and quick component servicing. The filter, blower assembly with quick-connect plug, drain pan and coil are easily removed. Cabinet includes black top bar-type discharge, front return-air grille and white top control door.



RECESSED - LV-R

The Recessed unit is designed for recessed wall installations where space is limited. This design is ideal for hallways, bathrooms and other small areas. The access panel is easily removable and is painted with our soft-white, powder-coat finish.



Vertical Fan Coils/Low Static

200 - 1,200 CFM

SLOPE TOP - LV-S

The Slope Top cabinet is designed with a full sloping top. It features solid-side panels so that units may be set side-by-side, for long corridor applications. This unit is ideal for schools, hospitals, hotels, motels and office buildings. The full sloping top discourages the placement of books and other items over the stamped, louvered discharge grilles. The Slope Top unit features a white control door on top.



WRAP SLOPE TOP - LV-W

The Wrap Slope Top is the same as the Slope Top but the cabinet is designed with a wraparound front panel. The cabinet top is flat for three inches from the wall to allow for standard curtains or blinds which hang over the window sill, and then continues into a sloping top. Ideal for hotel, motel and dormitories allowing for expensive window décors to remain the same, while discouraging anything being placed over the discharge grille. The Wrap Slope Top cabinet is manufactured of cold-rolled steel, finished with a soft-white, powder-coat and has a stamped, louvered discharge grille and top control door.



FRONT DISCHARGE - LV-F

Our Front Discharge fan coil has the same features as the Modular but the cabinet is designed for front discharge and return air grilles. The removable front panel below the discharge air grille provides complete access to the unit for servicing the filter, motor, coil, drain pan and piping package. This unit is fully exposed, attractively styled and ideal for the perimeter cooling/heating in public buildings, offices, hospitals, hotels, motels and schools. The Front Discharge fan coil is painted with a soft-white powder-coat finish, white control door with black, bar-type return-air and discharge grilles.



Vertical Fan Coils/Low Silhouette

400 - 600 CFM

CABINET DESIGN

Our Low-Silhouette fan coils are available in 400 to 600 CFM and designed for under-the-window applications. The low-silhouette allows unobstructed window views from hotel or motel rooms, offices, public buildings and hospitals. Coils are limited to four rows. Two units may be set side-by-side where 800 to 1,200 CFM is required.

BASIC - LS-B

The Basic unit is designed for furred-in, under-the-window applications. Typically, the 14 1/2" height unit is placed under a window with a field-furnished decorative enclosure concealing the unit. This allows for full-light exposure and does not inhibit vision through the window. The Basic fan coil consists of heavy-gauge galvanized chassis, a drain pan finished with a powder-coat and insulated with 1/8" closed-cell insulation, blower assembly with quick-connect plug, throwaway filter and top-discharge duct collar.



DELUXE - LS-D

Our Deluxe model has the same features as the Basic with its top vertical discharge and low-silhouette design. Its attractive, streamlined cabinetry blends with any room decor and has become a proven favorite with architects, engineers and contractors. Even though freestanding, the unit provides for the unlimited movement of drapes, shades and blinds while at peak performance. The cabinet is a soft-white, powder-coat finish with black four-way diffusing supply-air grilles and a control access panel.



FRONT DISCHARGE - LS-F

The Front-Discharge fan coil has the same unit design features as the Deluxe model. Cabinets are a soft-white, powder-coat finish with black, bar-type front-discharge and return-air grilles.



RECESSED - LS-R

The Recessed unit is designed for recessed wall installations where space is limited. This design is ideal for hallways, bathrooms and other small areas. The access panel is easily removable and is finished in our soft-white, powder-coat.





Vertical Fan Coils/Low Silhouette

Features and Options

FEATURES

- LV models 200 to 1,200, LS models 400 to 600 CFM and are limited to four rows. Two LS units may be placed side-by-side where 800 to 1,200 CFM is required. Heavy-gauge galvanized steel cabinet insulated with 1/2" thick, over three-pound density, neoprene-coated fiberglass.
- Coils, 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual air vent. Coils are 100% underwater pressure tested to 350 PSI with a 300 PSI working pressure.
- Galvanized steel drain pan is powder-coated, covered in 1/8" thick closed-cell insulation and drain connection.
- Three-speed, 115/1/60 PSC motor with quick-connect plug. (EC optional)
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- One-inch fiberglass, throwaway filter.
- Stamped, louvered discharge grille on LV-R, LV-S, LV-W and LS-R. Black, bar-type discharge grille on LV-F, and LS-F.
- Multiple, four-way diffusing discharge grilles on LV-D and LS-D.
- Rear mounting holes provided for wall mounting.
- Protective covers keep the grille openings free of debris during shipment and construction.
- Individually tagged, crated and shipped as scheduled for installation.
- ETL and AHRI certified; 100% factory tested.

OPTIONS

- Soft-white and custom colors, powder-coated finish.
- Drain pans – stainless-steel and double-wall.
- Insulation – 1/2" to 1" fiberglass, foil-face, and elastomeric
- Coils – copper fins/tubes, phenolic-coated, stainless-steel coil casing – one to five row coils for LV and one to four row coils for LS.
- Systems – Two- or four-pipe; hydronic cooling/heating and/or electric heat.
- Controls – wide selection of factory-mounted valves and controls.
- Filters – washable and pleated.
- Grilles – eliminates the need for closet doors and are available in custom colors.
- Electric strip heat from 1 to 5 kW.

High Performance Horizontal Fan Coils

400 - 2,200 CFM

CABINET DESIGN

High-Static Horizontal direct-drive fan coils range from 400 to 2,200 CFM. Units are constructed of heavy-gauge galvanized steel and insulated with 1/2" thick, over three-pound density, neoprene-coated fiberglass. Horizontal fan coils are a blow-through design and include a drain pan finished with a powder-coat and insulated with an 1/8" thick closed-cell insulation, featuring primary and secondary drain connections. The high-static motor is virtually unsurpassed in its variety of uses where higher static duct runs are encountered. It is designed for jobs where high-static pressure (0.50 max.) is required.

BASIC - HH-B

The Basic fan coil is manufactured of heavy-gauge galvanized steel, insulated drain pan with primary and secondary drain connections and easily removable blower assembly with quick-connect plug. This fan coil is highly diversified to meet the varying needs of higher static applications within concealed locations. Applications include drop ceilings, over closets, in offices, schools, condominiums and apartments.



DELUXE - HH-D

Our Deluxe model is designed for horizontal, exposed ceiling mount applications. The Deluxe is a Basic fan coil with a cabinet manufactured of cold-rolled steel, phosphate conversion-coated then finished in a soft-white, powder-coat. It is adaptable for remodel situations where the addition of ductwork is limited.

FLUSH - HH-F

The Flush model is a recessed unit for flush ceiling applications. The Flush fan coil has all the design features of the Basic. The cabinet has a soft-white, powder-coat telescoping frame and hinged access panel to accommodate any type of ceiling.



RETURN-AIR PLENUM - HH-R

The Return-Air Plenum is the same as the Basic model with a galvanized return-air plenum with rear-return (bottom optional) and insulated with a 1/2" neoprene-coated fiberglass. It is also effective for mounting above ceilings, in closets, hallways or bathroom areas. The plenum conceals the blower motor which is easily accessible for servicing by removing the bottom panel.

CASED FLUSH - CH-F (400 - 800 CFM)

Our Cased Flush model is a horizontally ducted fan coil which is aligned flush with the ceiling. It is ideal for horizontal applications in apartments, condominiums and motels requiring either a drop-ceiling or soffit installation. The swing-down access panel allows for fast and easy filter removal and routine maintenance. Bottom return-air is standard. Available in sizes ranging from 400 to 800 CFM.





High Performance Horizontal Fan Coils

Features and Options

FEATURES

- 400 to 2,200 CFM.
- Heavy-gauge galvanized steel cabinet insulated with 1/2" thick, 3.35 PCF density, neoprene-coated fiberglass.
- Coils, 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual air vent. Coils are 100% underwater pressure tested to 350 PSI with a 300 PSI working pressure.
- Galvanized steel drain pan is powder-coated, with 1/8" thick closed-cell insulation and has primary and secondary drain connections.
- Three-speed, 115/1/60 PSC motor with quick-connect plug. Easy removable, blow-through blower and motor assembly.
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- One-inch fiberglass, throwaway filter, except HH-B.
- One-inch duct collar on return and supply-air openings.
- High-static motor is designed for jobs where high-static pressure (0.50 max.) is required.
- Protective covers keep the grille openings free of debris during shipment and construction.
- Individually tagged, crated and shipped as scheduled for installation.
- ETL and AHRI certified; 100% factory tested.

OPTIONS

- Soft-white and custom colors, powder-coated finish.
- Drain pans – stainless-steel and double-wall.
- Insulation – 1/2" to 1" fiberglass, foil-face, elastomeric and double-wall (solid or perforated).
- Coils – copper fins/tubes, phenolic-coated, stainless-steel casing – available from one- to six-row coils.
- Systems – Two- or four-pipe hydronic cooling/heating and/or electric heat.
- Controls – wide selection of factory-mounted valves and controls.
- Filters – two-inch thick throwaway (except Deluxe and Flush), washable and pleated.
- Grilles – single or double-deflection.
- Electric strip heat from 1 to 9 kW.
- Circulator pump options for water heating applications.
- ECM™ motors; programed 3-spced, or variable volume , 120-240/1/60 or 277/1/60.

High Performance Vertical Fan Coils

400 - 2,200 CFM

CABINET DESIGN

Cased Vertical fan coils range from 400 to 2,200 CFM. Units are constructed of heavy-gauge galvanized steel and insulated with 1/2" thick, three plus pound density, neoprene-coated fiberglass. Cased vertical fan coils are a draw-through design, featuring slide-out blowers with a quick-connect plug. Galvanized drain pan is finished with a powder-coat and insulated with a 1/8" thick closed cell-insulation featuring primary and secondary drain connections.

BASIC - CV-B (CV-D DELUXE PAINTED)

The Basic is a high-static, ducted vertical cased, unpainted fan coil with a bottom or front return. It is primarily used in vertical floor-mounted or hideaway applications. This fan coil is furred into partition walls or hidden in closets, utility rooms and other concealed locations with a ducted discharge. A removable front access panel facilitates easy servicing of the coil, blower assembly, with quick-connect plug, and filter. A one-inch discharge duct flange is standard on top panel of each unit.



DIRECT FRONT RETURN - CV-F (CV-R PAINTED)

The Direct Front Return is a high-static, ducted vertical fan coil for installation in a closet-type enclosure. The front is removable for easy-service access to the slide-out blower assembly, with the quick-connect plug. The Front return-air filter may be removed without removing front panel. The top-discharge opening has a one-inch duct collar. CV-F is shown with return-air grille option allowing the unit to be furred in and the grille mounted to drywall for easy access without the expense of a closet door.

DELUXE - CV-D

Our Deluxe cabinets are manufactured of cold-rolled steel, phosphate conversion-coated then finished in a soft-white powder-coat. The Deluxe option is available on all cased vertical cabinet styles.





High Performance Vertical Fan Coils

Features and Options

FEATURES

- 400 to 2,200 CFM.
- Heavy-gauge galvanized steel cabinet insulated with 1/2" thick, 3.35 PCF density, neoprene-coated fiberglass.
- Coils, 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual air vent. Coils are 100% underwater pressure tested to 350 PSI with a 300 PSI working pressure.
- Galvanized steel drain pan is powder-coated with 1/8" thick closed-cell insulation and has primary and secondary drain connections.
- Three-speed, 115/1/60 PSC motor with quick-connect plug.
- Easy slide-out, draw-through blower and motor assembly.
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- One-inch fiberglass, throwaway filter.
- One-inch duct collar on return- and supply-air openings.
- Protective covers keep the grille openings free of debris during shipment and construction.
- Individually tagged, crated and shipped as scheduled for installation.
- ETL and AHRI certified; 100% factory tested.

OPTIONS

- Soft-white and custom colors, powder-coated finish.
- Drain pans – stainless-steel
- Insulation – 1/2" to 1" fiberglass, foil-face, and elastomeric
- Coils – copper fins/tubes, phenolic-coated, stainless steel casings – available from one- to six-row coils.
- Systems – Two- or four-pipe hydronic cooling/heating and/or electric heat.
- Controls – wide selection of factory-mounted valves and controls.
- Filters – two-inch thick throwaway, washable and pleated.
- Grilles – eliminates the need for closet doors – available in custom colors.
- Electric strip heat from 1 to 9 kW.
- Circulator pump for water heating applications.
- ECM™ motors; 3-speed, or variable volume, 120-240/1/60 or 277/1/60.

Belt Driven Air Handlers

800 - 12,000 CFM

CABINET DESIGN

Air handlers range from 800 to 12,000 CFM in either horizontal or vertical cabinet styles. Units are constructed of heavy-gauge galvanized steel and insulated with 1/2" thick, three plus pound density, neoprene-coated fiberglass. Our draw-through designs are available for either indoor or outdoor applications and are equipped with blowers that can handle up to 3.75 inches of total static pressure. Coils are available from one-to ten-rows, in any combination of chilled- or hot-water with electric heat option. Galvanized drain pans are powder-coated, with 1/8" thick closed-cell insulation featuring primary and secondary drain connections.

BASIC - AH-B/AV-B

Cabinets are heavy-gauge galvanized steel and insulated with 1/2" thick, three plus pound density, neoprene-coated fiberglass. Air Handlers are belt-driven with forward-curved and dynamically balanced blower. A flat filter section, with a two-inch, 30 percent pleated efficiency filter, is included and access doors are located on both sides of the unit for easy maintenance. Supply and return-air openings equipped with one-inch duct collar.



DELUXE - AH-D/AV-D

Offers the features of our Basic model, except cabinet is manufactured from cold-rolled steel, phosphate-conversion-coated and finished in soft-white, powder-coat. Ideal where a finished cabinet is desired.

FEATURES

- 800 to 12,000 CFM in horizontal and vertical cabinet styles.
- Heavy-gauge galvanized steel cabinet insulated with 1/2" thick, 3.35 PSF density, neoprene-coated fiberglass.
- Coils, 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual air vent. Coils are 100% underwater pressure tested to 350 PSI with a 300 PSI working pressure.
- Galvanized steel drain pan is painted with a powder-coat and insulated with a 1/8" thick closed-cell insulation and has primary and secondary drain connections.
- Belt-driven, draw-through design with forward-curved and dynamically balanced blowers.
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- Two-inch thick, 30/30 pleated filter, MERV flatly mounted, with spring-loaded clips on the access door for easy maintenance without the use of tools.
- Adjustable, variable-pitch drive sheave and cast-iron pulley keyed to motor shaft.
- Built for indoor applications and are equipped with blowers that can handle up to 3.75 inches of total static pressure.
- Coils are available from one- to ten-rows, in any combination of chilled- or hot-water with electric heat option.
- Protective covers keep the grille openings free of debris during shipment and construction.
- Individually tagged, crated and shipped as scheduled for installation.
- ETL and AHRI certified; 100% factory tested.

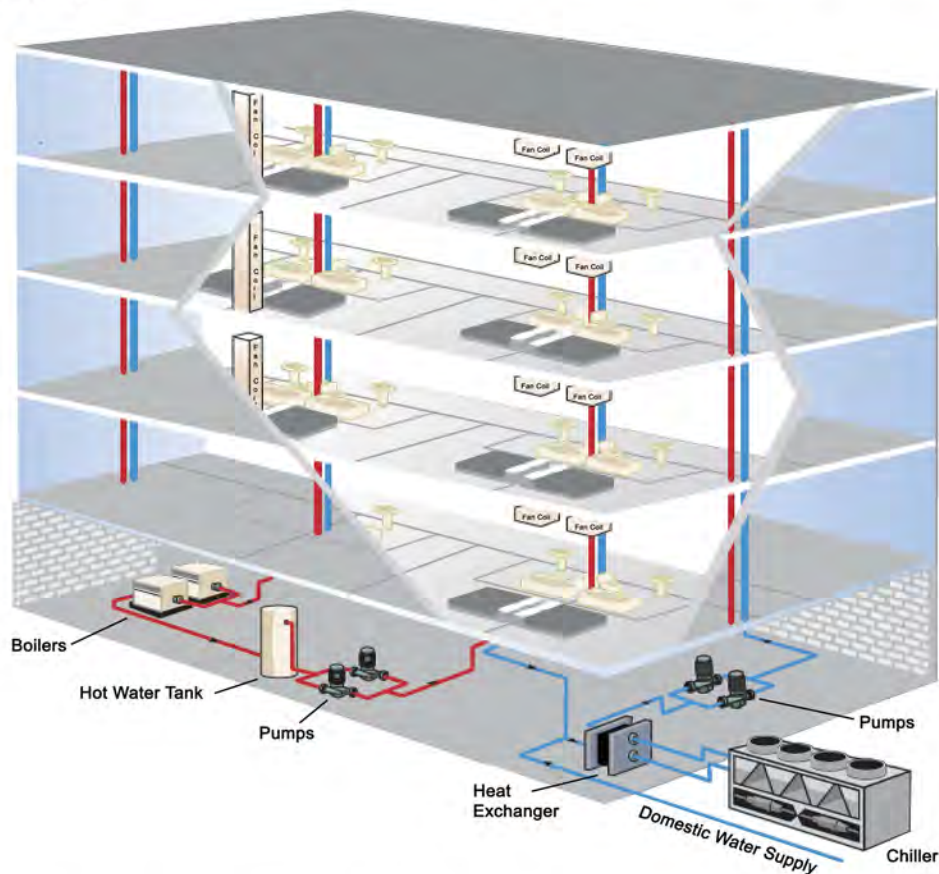
OPTIONS

- Soft-white, powder-coated cabinet.
- Drain pans – stainless-steel and double-wall.
- Motors – severe-duty, high-temperature, ODP, TEFC; 115, 208, 230, 277, 460, 575 Voltages.
- Insulation – 1/2" to 1" fiberglass, foil-face, elastomeric and double-wall (solid or perforated).
- Coils – copper fins/tubes, phenolic-coated, stainless-steel end plates – available from one- to ten-row coils.
- Systems – Two- or four-pipe hydronic cooling/heating and/or electric heat.
- Controls – wide selection of factory-mounted valves, controls and enclosures.
- Filters – two-inch thick throwaway, washable and V-Bank.
- Dual power source electric resistance heaters from 1 to 65 kW.
- Mixing Boxes – with dampers, modulating and two-position economizers.

IPS™ INTEGRATED PIPING SYSTEM

FEATURES

- Increased comfort throughout your building. IPS delivers true 4-pipe hydronic heating and cooling comfort creating an ideal environment for guests or residents and all for a lot less than traditional fan coil systems.
- Reduced installed costs. Use of domestic supply and return hot water lines for space heating eliminates the need for dedicated comfort system piping and equipment, such as boilers, pumps and storage tanks.
- Reduced operating cost. Less equipment, reduced run time and greater chiller efficiency means better control of energy usage throughout the year.
- Increased property value. Better comfort and lower operating costs translate into higher operating income and may increase the resale value of your property.
- Reduced building penetration. With IPS, you get a quieter, more comfortable environment without unnecessary exterior penetration of your building.
- LEED-friendly energy savings. Up to 60% more efficient than PTAC units, IPS requires fewer materials, employs dual use of the domestic water system, eliminates noisy compressors in the occupied space and reduces power consumption.
- IPS control board. This exclusive control board adapts to all 24-volt fan coil thermostats. It has a purge timer per ANSI standard; fan, pump, and damper relays.
- Quiet operation. Consolidated, out-of-the-way mechanical system
- Double-wall plate heat exchanger ensures integrity of the potable water supply*.
- The integrated Piping System's double-wall plate heat exchanger fully isolates the chilled water supply from the domestic water at all times.



* Double-wall plate heat exchanger may not be required in all jurisdictions and is not supplied by Williams.

ComforTRAC™

FEATURES

- Performance is demand-controlled and matches heating and cooling load in any climate.
- Energy consumption is also demand-controlled as the load is continuously monitored and matched as needed. This allows the ComforTRAC unit to “sip” capacity from the main chiller system or boiler far more efficiently than conventional systems.
- Open protocol-compatible, may easily be incorporated into building automation systems (BAS). BTL certified BACNet.
- Coil design minimizes flow requirements and increases design Delta T which reduces pipe size and the associated sizing of mains and central system components.
- Leaving air temperature control (LAT) delivers comfort and quick response at the unit. The unit is continuously recommissioning itself to space and system variations.
- Self-balancing and cleaning capabilities eliminate flow control devices, strainers and test ports saving capital and operating costs.

1 Digital Controller

Programmed variable capacity based on set point difference to actual room temperature and humidity combined with how quickly the space is being conditioned. Greatest comfort at the lowest cost.

2 TRACvalve

- Proportional two-way control valve
- Characterized-port ball type
- Integral LAT sensor
- Self-balancing
- Self-cleaning
- Maintains Delta T
- Infinitely variable 20-100%

3 IAQ

- Individual control
- Temperature and humidity
- Reduced drafts and stratification
- Less “ON-OFF” cycling
- Multiple air changes
- Increased efficiency
- Throwaway filter



NetSensor

- Temperature
- Set point
- Humidity



4 BDC Motor / Blower

- Infinitely variable 25-100%
- Slow ramp rate
- Low RPM wheel
- Required CFM at variable ESP
- 50% reduction in motor watts
- Quieter operation

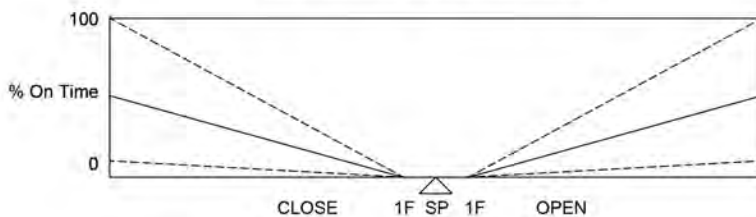
5 Williams Custom Coil Design

- Totally variable capacity
- Low flow
- Smaller pumps and pipe required
- Reduced demand 30-40%
- Pump HP reduction to 80%
- Higher latent means
- Humidity control
- Positive dehumidification
- Greater comfort and control

TRACvalve™

The TRACvalve™ variable fan coil is a budget-friendly, cost efficient approach to increasing comfort through leaving air temperature control. With TRACvalve™, the horsepower required by the system's central pumps is reduced. Plus, by metering overall demand, central plant efficiency is improved by up to 40%. TRACvalve™ adjusts to the design LAT, maintaining a high Delta-T across the coil. Variable fluid flow reacts to room and system changes, reducing GPM at lower load demand. TRACvalve™ variable fan coils are an excellent choice for any indoor environment in which tracking and adjusting to real time variable load is critical.

CONTROL SEQUENCE



% On Time Slope Adjustable Via Sensitivity Adjustment

Maximum = 30% / Degree F (Faster / Less Stable)
 Minimum = 3% / Degree F (Slower / More Stable)

% On Time Period = 1 Minute

1. At power up the actuator will drive in the close direction for 2 minutes and then zero its position.
2. If the Override signal is present, indicating system ON, the actuator will wait 1 more minute and then start controlling.
3. If the Override signal is absent, indicating system OFF, then the actuator will wait in the closed position.
4. Any time the Override signal becomes absent the actuator will store its present position, drive in the close direction for 2 minutes, and then zero its position.
5. The actuator will wait in the closed position until the Override signal indicates system On. At this time it will return to its previous position, wait 1 minute, and resume controlling.

SPECIFICATIONS

Leaving Air Temperature Controller:

Model Number	CEP-4701V
Supply Voltage	24 VAC (+20%, -15%)
Supply Power	4 VA
Override Input	24 VAC (+20%, -15%)
Torque	40 in-lb min. (4.5 Nm)
Frequency	50/60 Hz
Angular Rotation	0-95°; Fully adjustable with mechanical stop
Motor Timing	90 sec./90° @ 60 Hz 108 sec./90° @ 50 Hz
Connections	Wire clamp type; 14 to 22 AWG
Enclosure Mat'l	UL94-5V flame retardant polymer Black housing/Green cover



- TRACvalve , 130 PSI close
- Self-cleaning
- LAT sensor
- Rangeability 300:1
- Pressure independence
- Self-balancing
- Quick disconnect actuator
- Reduced flow of up to 80%!
- Improved chiller efficiency

SET POINT RESISTOR TABLE

°F	OHMS	°F	OHMS
54	16.9K	94	6.98K
56	16.2K	96	6.65K
58	15.4K	98	6.34K
60	14.7K	100	6.04K
62	14.0K	102	5.90K



FAN COILS / AIR HANDLERS
PRODUCTS CATALOG



www.wfc-fc.com

© Williams Comfort Products

Printed in USA

Subject to Change without Notice

L4057, 6/2018



WARNING This product can expose you to chemicals including epichlorohydrin which is known to the State of California to cause cancer and birth defects and/or other reproductive harm. For more information go to www.p65warnings.ca.gov