







Commercial Fan Coils and Air Handling Equipment Product Catalog

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KEY

CW - Chilled Water
HW - Hot Water
EH - Electric Heat
DX - Direct Expansion

Direct Drive



Whalen Direct Drive Units come in a variety of configurations to meet practically any commercial, residential and institutional system and design requirement.

Whether you need concealed or exposed... with or without plenums...hot water, chilled water and/or electric heat...2-pipe or 4-pipe configurations, the choice is yours.

WFX | Intelli-line® Vertical Stack Fan Coil Unit Valve Series with Fixed Coil Pack

Whalen Intelli-line® Vertical Stack Fan Coil units are designed to be stacked in vertical risers for heating and/or cooling applications in hotels, apartments, condominiums, nursing homes, dormitories and offices.

Features:

Units provide heating and cooling with 2-way or 3-way water control valves. Two Pipe and Four Pipe configurations operating as part of a Centralized Heating and Cooling System.

Intelli-line® Vertical Stack units are economical by reducing time, material and labor requirements. Units arrive fully assembled with factory installed piping packages, controls and risers.

A small footprint allows the units to be furred into columns, walls or closets without the need for expensive horizontal run-outs.

Routine floor level maintenance and inspection is easily performed through the return air opening.

Unit height, grille size and location, piping packages, control packages, outdoor air requirements and performance are customized to fit the application.

Remember, if you don't see something you need, just ask!



Vertical Stack Valve Control Unit (WFX) - Fixed Coil

Application	Risers	Model	Coil (Rows)	CFM	Flow	Total Cooling BTUH	Sensible Cooling BTUH	Fan Motor	Voltage	Est. Ship Weight (lbs)
2P - Two Pipe Heating and Cooling Unit	Standard	300	3	310	2.0	9300	6300	PSC, ECM	115/60/1	145
2PHO - Two Pipe Heating Only (Vertical Stack Cabinet Unit Heater)		300	4	310	2.3	11500	7100			150
		400	3	400	2.7	12800	9200			145
		400	4	390	3.1	15200	9800			150
2PCO - Two Pipe Cooling Only Unit	Master	600	3	600	3.9	18800	13600		208-230/60/1	165
		600	4	590	4.9	23000	15000			170
2PAE - Two Pipe Heating and Cooling Unit with Auxiliary Electric Heat	Slave	800	3	800	5.0	23300	17100			165
		800	4	790	5.8	27500	19300			170
2PTE - Two Pipe Heating and Cooling Unit with Total Electric Heat	Special	1000	3	960	7.2	36000	24700		265/60/1	205
		1000	4	950	8.0	40000	26700			210
		1200	3	1160	8.3	41600	29500			205
4P - Four Pipe Heating and Cooling Unit		1200	4	1150	9.8	49000	33500			210

Cooling based upon 80°F DB, 67°F WB entering air temperature and 45°F entering liquid temperature



WRX | Intelli-line® Vertical Stack Fan Coil Unit Valve Series with Slide-Out Coil Pack

Whalen Intelli-line® Vertical Stack Fan Coil units with Slide-Out Chassis are designed to be stacked in vertical risers for heating and/or cooling applications in hotels, apartments, condominiums, nursing homes, dormitories and offices.

Features:

Slide-Out Chassis version of the Fixed Coil Valved Control Unit (WFX) - The heating and cooling chassis uses only 4 fasteners for total accessibility. Chassis offer lifetime flexibility by allowing upsizing/downsizing as space conditions change.

Installation Benefits:

- The coil is kept clean during construction
- The chassis is installed after all drywall, sanding and painting is finished
- Risers can be flushed without the risk of damaging the coil and piping package options
- Optional return air covers are also available for projects using factory-installed chassis.

Operational Benefits:

- Quick, effortless chassis installation and removal
- Reduced commissioning times
- Easy access to drain pan and internal components
- Minimized tenant disruption and loss of income
- Chassis-only replacement option available on renovation projects



Vertical Stack Valve Control Unit (WRX) - Slide-Out Coil Pack

Model	CFM	GPM	Cooling Capacity			
			Coil Rows	EWT (°F)	TC (Btu/hr)	SC (Btu/hr)
WRX-03	350	2.1	3	45	10,100	7,300
WRX-04	450	3.1	3	45	14,500	9,800
WRX-06	700	4.2	3	45	19,700	14,300
WRX-08	758	5.0	3	45	22,700	14,600
WRX-10	1020	6.8	3	45	33,000	23,500
WRX-12	1220	8.0	3	45	38,700	28,000

Cooling based upon 80°F DB, 67°F WB entering air temperature

Model	CFM	GPM	Heating Capacity			
			Coil Rows	EWT (°F)	TC (Btu/hr)	SC (Btu/hr)
WRX-03	345	2.5	4	45	12,700	9,000
WRX-04	440	3.3	4	45	16,100	10,800
WRX-06	650	4.4	4	45	20,600	14,200
WRX-08	753	5.6	4	45	26,300	18,100
WRX-10	1020	7.3	4	45	35,300	25,000
WRX-12	1220	8.8	4	45	43,200	30,500

Heating based upon 70°F DB entering air temperature

Application	Risers	Model	Fan Motor	Voltage	Est. Ship Weight Cabinet / Chassis (lbs)
2P - Two Pipe Heating and Cooling Unit	Standard	300	PSC, ECM	115/60/1	147 / 14
		300			147 / 19
2PHO - Two Pipe Heating Only (Vertical Stack Cabinet Unit Heater)	Master	400			147 / 20
		400			147 / 25
2PCO - Two Pipe Cooling Only Unit	Master	600		208-230/60/1	165 / 26
		600			165 / 31
2PAE - Two Pipe Heating and Cooling Unit with Auxiliary Electric Heat	Slave	800			165 / 33
		800			165 / 38
2PTE - Two Pipe Heating and Cooling Unit with Total Electric Heat	Slave	1000		265/60/1	196 / 50
		1000			196 / 55
4P - Four Pipe Heating and Cooling Unit	Special	1200			196 / 56
		1200			196 / 61



WTNX | Intelli-therm™ Vertical Stack Fan Coil Series with Slide-Out Coil Pack

When you specify an Intelli-therm™ Vertical Stack Fan Coil unit with a slide-out coil pack, you also get the advantage of an integrated thermal recovery unit to take advantage of modern building codes and the increasing outside air requirements. Moreover, since the Intelli-therm™ unit ships completely assembled, there is less field work required. With customization capabilities including riser locations, handing and discharge arrangements and sizes, it means that your new Whalen units will be installed and operating in significantly less time.

Features:

- Integrated Energy Recovery Module - Our integrated energy recovery module is fully removable for easy maintenance and capable of providing fresh air to the occupied space as well as exhausting multiple bathrooms.
- Constant Fresh Air Flow - Each unit is programmed for a minimum constant air flow to provide the required outside air. Optional decorative wall controls provide intermittent high speed exhaust flow from one or two remote locations.
- Multiple Ventilation Rates - Each energy recovery module is shipped with a factory-set ventilation rate to balance the supply and exhaust air selected.
- Additional Benefits During Installation - Because the coil pack is designed to slide out, it can be shipped separately from the cabinet. This provides additional user benefits and reduces the risk of damage during the installation phase.



Intelli-therm™ Vertical Stack W(N/T)X - Slide-Out Coil Pack

3-Row Air Coil with Standard Blower Motor							
Whalen Catalog Name	AHRI Certified Reference Number	SCFM	GPM	Cooling Capacity			
				Coil Rows	EWT (°F)	TC (Btu/hr)	SC (Btu/hr)
W(N/T)X-03 3-Row PSC	10150533	356	2.1	3	45	10,100	7,300
W(N/T)X-04 3-Row PSC	10098898	440	3.1	3	45	14,500	9,800
W(N/T)X-06 3-Row PSC	10152062	670	4.2	3	45	19,700	14,300
W(N/T)X-08 3-Row PSC	10190368	770	5.0	3	45	22,700	16,100

4-Row Air Coil with Standard Blower Motor							
Whalen Catalog Name	AHRI Certified Reference Number	SCFM	GPM	Cooling Capacity			
				Coil Rows	EWT (°F)	TC (Btu/hr)	SC (Btu/hr)
W(N/T)X-03 4-Row PSC	10544545	358	2.5	4	45	11,900	7,900
W(N/T)X-04 4-Row PSC	10190321	435	3.3	4	45	16,000	10,700
W(N/T)X-06 4-Row PSC	10152709	640	4.4	4	45	20,600	14,200
W(N/T)X-08 4-Row PSC	10155868	770	5.6	4	45	26,300	18,100

Cooling performance ratings based upon 80°F DB, 67°F WB entering air temperature and LWT = 55°F.

Thermal Recovery Unit Efficiency Performance (Enthalpy Core)

Winter			Summer	
Outdoor 32°F DB, 29°F WB			Outdoor 95°F DB, 78°F WB	
Indoor 70°F DB, 58°F WB			Indoor 75°F DB, 63°F WB	
CFM	Apparent Sensible Effectiveness	Total Recovery Efficiency	Apparent Sensible Effectiveness	Total Recovery Efficiency
50	85%	67%	68%	49%



RFC | Vertical Stack Fan Coil Unit

Valveless Series Innoline® Riser Fan Coil

The Original Innovation Taken to a New Level

Over nearly five decades and in thousands of installations worldwide, the innovative engineering and long-term operating performance of Whalen Innoline® Riser Fan Coil units have been proven exhaustively in hotels, apartments, condominiums, nursing homes, dormitories and offices. This performance record is such that now – as engineers, contractors and owners are making retrofit decisions – many insist on replacing existing Whalen Riser Fan Coil installations with new Innoline® Riser Fan Coil units, to the exclusion of other alternatives.

Features:

Units provide heating and cooling without the need of water control valves. Two Pipe (Heat/Cool, Heat Only and Cool Only) and Four Pipe configurations operating as part of a Centralized Heating and Cooling System.

- Small unit footprint saves space
- Ease of installation with reduced costs
- Enhanced unit insulation
- Upgraded universal controls
- User-friendly drain service system
- Improved unit serviceability
- Dehumidification performance
- Demonstrated reliability



Vertical Stack Valveless Riser Fan Coil

Model	CFM	Fluid Velocity (FPS)	Cooling Capacity ¹			Heating Capacity ²	
			EWT (°F)	TC (Btu/hr)	SC (Btu/hr)	EWT (°F)	TC (Btu/hr)
W200	222	6.0	45	5,834.0	4,985.2	140	9,838.9
W300	241	6.0	45	8,249.5	6,227.5	140	14,976.6
W300X	241	6.0	45	9,528.8	6,682.8	140	14,997.0
W400	362	6.0	45	11,692.0	8,889.3	140	16,797.8
W500	455	6.0	45	12,562.5	9,806.5	140	19,804.6
W600	580	6.0	45	15,710.5	12,531.0	140	23,771.1
W800	683	6.0	45	20,651.8	16,971.8	140	30,581.9

¹ Rated in accordance with ARI Standard 440. Cooling capacities based on 80°F DB/67°F WB entering air, 45°F entering water, 10°F water temperature rise

² Water heating coils rated at 70°F DB entering air, 140°F entering water, 20°F water temperature drop

Application	Model	Fan Motor	Voltage	Est. Ship Weight (lbs) 2 Pipe / 4 Pipe
2P - Two Pipe Heating and Cooling Unit - Fan Cycled Control	W200	PSC	115/60/1	115 / 135
	W300	PSC		115 / 135
2PCO - Two Pipe Cooling Only Unit - Fan Cycled Control	W300X	PSC		135 / 155
	W400	PSC, ECM		150 / 170
2PHO - Two Pipe Heating Only (Cabinet Unit Heater) - Fan Cycled Control	W500	PSC, ECM	208-230/60/1	150 / 170
	W600	PSC, ECM		200 / 220
2PFB - Two Pipe Heating and Cooling Unit - Face and Bypass Control	W800	PSC, ECM	265/60/1	200 / 220
2PAE - Two Pipe Heating and Cooling Unit with Auxiliary Electric Heat				
2PTE - Two Pipe Heating and Cooling Unit with Total Electric Heat				
4P - Four Pipe Heating and Cooling Unit				



50/50 | Vertical Stack Fan Coil Unit

Valveless Series Innoline® 50/50 Four Pipe System

The Valveless Innoline® 50/50 4-Pipe System saves energy and reduces installation costs. Used as part of a Centralized Heating and Cooling system with heating supply water temperatures of 120° F and below.

Features:

The Valveless Series Innoline® 50/50 system features all the advantages of a conventional four-pipe system but reduces pump and piping requirements by 50 percent.

During design day conditions, two pumps – each sized to carry 50 percent of the total flow – operate in parallel, delivering 100 percent of the hot or chilled water required. Marginal days can be handled by one or two pumps circulating hot or chilled water through one or both heat-exchangers.

This design allows pump and motor usage to be staged as conditions require, keeping energy demands at a minimum.

- Individual room control
- Naturally balanced units
- Smaller pumps and pipes
- No dampers, electric or flow-control valves
- No soldered connections in cabinets
- Reduced installation and maintenance costs
- Fan and pump staging for energy efficiency



Vertical Stack Valveless 50/50 Four Pipe System

50% Capacity

Model	CFM	Fluid Velocity (FPS)	Cooling Capacity ¹			Heating Capacity ²	
			EWT (°F)	TC (Btu/hr)	SC (Btu/hr)	EWT (°F)	TC (Btu/hr)
W3022	170	6.0	45	4958.9	4237.4	140	8363.1
W4022	200	6.0	45	5,834.0	4,985.2	140	9,838.9
W6022	300	6.0	45	8,249.5	6,227.5	140	14,976.6
W6022X	300	6.0	45	9,528.8	6,682.8	140	14,997.0
W8022	400	6.0	45	11,692.0	8,889.3	140	16,797.8
W10022	500	6.0	45	12,562.5	9,806.5	140	19,804.6
W12022	600	6.0	45	15,710.5	12,531.0	140	23,771.1
W16022	800	6.0	45	20,651.8	16,971.8	140	30,581.9

100% Capacity

Model	CFM	Fluid Velocity (FPS)	Cooling Capacity ¹			Heating Capacity ²	
			EWT (°F)	TC (Btu/hr)	SC (Btu/hr)	EWT (°F)	TC (Btu/hr)
W3022	340	6.0	45	9917.8	8474.9	140	16726.1
W4022	400	6.0	45	11,668.0	9,970.4	140	19,677.8
W6022	600	6.0	45	16,499.0	12,455.0	140	29,953.2
W6022X	600	6.0	45	19,057.5	13,365.5	140	29,994.0
W8022	800	6.0	45	23,384.0	17,778.5	140	33,595.6
W10022	1000	6.0	45	22,612.5	17,651.7	140	35,648.3
W12022	1200	6.0	45	28,278.9	22,555.8	140	42,788.0
W16022	1600	6.0	45	37,173.2	30,549.2	140	55,047.4

¹ Rated in accordance with ARI Standard 440. Cooling capacities based on 80°F DB/67°F WB entering air, 45°F entering water, 10°F water temperature rise

² Water heating coils rated at 70°F DB entering air, 140°F entering water, 20°F water temperature drop and high fan speed.

Application	Model	Fan Motor	Voltage	Est. Ship Weight (lbs)
Energy Efficient 50/50 Four Pipe System	W3022	PSC	115/60/1	215
	W4022	PSC		215
	W6022	PSC		215
	W8022	PSC, ECM	208-230/60/1	280
	W10022	PSC, ECM	265/60/1	280
	W12022	PSC, ECM		310
	W16022	PSC, ECM		310



HCFR Horizontal Fan Coil

Uncased - *Chilled / Hot Water / Electric Heat*



H CPR Horizontal Fan Coil

with Plenum - *Chilled / Hot Water / Electric Heat*



HCPB Horizontal Fan Coil

with Plenum and Bottom Return - *Chilled / Hot Water / Electric Heat*



Unit Sizes

Model		Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
HCFR	002	200	36.0	22.5	9.9	90
	003	300	36.0	22.5	9.9	90
	004	400	44.0	22.5	9.9	108
	006	600	50.0	22.5	9.9	133
	008	800	50.0	23.6	11.7	149
	010	1,000	56.0	23.6	11.7	173
	012	1,200	64.0	23.6	11.7	184
H CPR/ HCPB	002	200	30.0	24.4	10.2	114
	003	300	30.0	24.4	10.2	114
	004	400	37.5	24.4	10.2	144
	006	600	44.0	24.4	10.2	157
	008	800	44.0	26.4	12.2	173
	010	1,000	50.0	26.4	12.2	197
	012	1,200	58.0	26.4	12.2	207

Features and Benefits

- Heavy-gauge galvanized steel cabinet with neoprene-coated 1/2" thick fiberglass insulation with 3.35 PCF density.
- Coils are made of 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual-air vent. DX and steam coils do not include manual-air vent. Coils are 100% underwater pressure tested at 350 PSI with a 300 PSI working pressure.
- Galvanized drain pan is powder-coated epoxy with a 1/8" thick closed-cell insulation and has primary and secondary drain connections.
- Three-speed, 115/1/60, 208/1/50-60 or 277/1/60 PSC motor with quick-connect plug.
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- One-inch, reinforced duct collar on return- and supply-air openings.
- Swing-down, hinged return-air grille/access door on exposed cabinet HCEF and telescoping recessed cabinet HCRF models.
- Exposed cabinet HCEF unit has single-deflection supply-air grille.
- One-inch fiberglass, throwaway filter, except for HCFR Series horizontal uncased models.
- Individually tagged, crated and shipped as scheduled for installation.
- UL and C-UL approved, ARI certified and 100% factory tested.

Nominal Capacities

HCFR, H CPR, HCPB					
Model	Cooling			Heating	
	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH***
002	3	8,578	7,018	2	15,899
003	3	9,153	7,538	2	16,961
004	3	14,374	11,206	2	24,601
006	3	18,464	14,754	2	31,164
008	3	24,812	19,582	2	40,666
010	3	32,205	25,140	2	51,853
012	3	39,105	29,695	2	62,012
002	4	10,947	7,927	1	8,240
003	4	11,677	8,506	1	8,746
004	4	17,603	12,473	1	14,064
006	4	24,868	17,282	1	20,719
008	4	28,348	20,964	1	27,014
010	4	37,113	27,102	1	34,455
012	4	44,904	32,030	1	41,852

For detailed capacities please visit our website at www.whalencompany.com or contact your local representative. ** Cooling ratings based on 80° F DB and 67° F WB EAT, 45° F EWT with 10° F water temperature rise, 115/1/60, and high speed. ***Heating ratings based on nominal CFM. 1-row coils rated at 160° F EWT and 70° F EAT with 40° F water temperature drop, 115/1/60, and high speed. 2-row coils rated at 150° F EWT and 70° F EAT with 30° F water temperature drop, 115/1/60, and high speed.

Equipment Options

- Soft-white, powder-coated epoxy cabinet.
- Stainless steel drain pans.
- Insulation - fiberglass, foil-face, elastomeric in 1/2" and 1" thicknesses.
- Coils - copper fins/tubes, stainless steel fins/tubes, phenolic coated, stainless steel end plates. All options are available on one- to six-rows.
- Systems - two- or four-pipe, hydronic cooling/ heating, steam, direct-expansion (DX) and/or electric heat.
- Cabinet: telescoping recessed (HCRF), exposed (HCEF) and custom colors.
- Controls - unlimited selection of factory-mounted valves and controls.
- Filters - two-inch thick throwaway (except horizontal uncased), washable and metallic.
- Flow-control circulator for water heating applications.
- Grilles available as double-deflection and in custom colors.
- Electric strip heat from 0.5 to 7 kW.



HCRF Horizontal Fan Coil with Telescoping Recessed Cabinet - Chilled / Hot Water / Electric Heat



HCEF Horizontal Fan Coil with Exposed Cabinet - Chilled / Hot Water / Electric Heat



HCEB Horizontal Fan Coil with Exposed Cabinet and Bottom Supply - Chilled / Hot Water / Electric Heat



Features and Benefits

- Heavy-gauge galvanized steel cabinet with neoprene-coated 1/2" thick fiberglass insulation with 3.35 PCF density.
- Coils are made of 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual-air vent. DX and steam coils do not include manual-air vent. Coils are 100% underwater pressure tested at 350 PSI with a 300 PSI working pressure.
- Galvanized drain pan is powder-coated epoxy with a 1/8" thick closed-cell insulation and has primary and secondary drain connections.
- Three-speed, 115/1/60, 208/1/50-60 or 277/1/60 PSC motor with quick-connect plug.
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- One-inch, reinforced duct collar on return- and supply-air openings.
- Swing-down, hinged return-air grille/access door on exposed cabinet HCEF and telescoping recessed cabinet HCRF models.
- Exposed cabinet HCEF unit has single-deflection supply-air grille.
- One-inch fiberglass, throwaway filter, except for HCFR Series horizontal uncased models.
- Individually tagged, crated and shipped as scheduled for installation.
- UL and C-UL approved, ARI certified and 100% factory tested.

Equipment Options

- Soft-white, powder-coated epoxy cabinet.
- Stainless steel drain pans.
- Insulation - fiberglass, foil-face, elastomeric in 1/2" and 1" thicknesses.
- Coils - copper fins/tubes, stainless steel fins/tubes, phenolic coated, stainless steel end plates. All options are available on one- to six-rows.
- Systems - two- or four-pipe, hydronic cooling/ heating, steam, direct-expansion (DX) and/or electric heat.
- Cabinet: telescoping recessed (HCRF), exposed (HCEF) and custom colors.
- Controls - unlimited selection of factory-mounted valves and controls.
- Filters - two-inch thick throwaway (except horizontal uncased), washable and metallic.
- Flow-control circulator for water heating applications.
- Grilles available as double-deflection and in custom colors.
- Electric strip heat from 0.5 to 7 kW.

Unit Sizes

Model		Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
HCRF	002	200	52.5	27.0	11.0	127
	003	300	52.5	27.0	11.0	127
	004	400	52.5	27.0	11.0	179
	006	600	60.5	27.0	11.0	179
	008	800	60.5	27.0	13.0	191
	010	1,000	74.5	27.0	13.0	215
	012	1,200	74.5	27.0	13.0	226
HCEF/ HCEB	002	200	53.0	24.0	11.4	198 / 127
	003	300	53.0	24.0	11.4	198 / 127
	004	400	53.0	24.0	11.4	210 / 179
	006	600	61.0	28.0	11.4	209 / 179
	008	800	61.0	28.0	13.1	221 / 191
	010	1,000	75.0	28.0	13.1	245 / 215
	012	1,200	75.0	28.0	13.1	256 / 226

Nominal Capacities

HCRF, HCEF, HCEB					
Model	Cooling			Heating	
	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH***
002	3	8,578	7,018	2	15,899
003	3	9,153	7,538	2	16,961
004	3	14,374	11,206	2	24,601
006	3	18,464	14,754	2	31,164
008	3	24,812	19,582	2	40,666
010	3	32,205	25,140	2	51,853
012	3	39,105	29,695	2	62,012
002	4	10,947	7,927	1	8,240
003	4	11,677	8,506	1	8,746
004	4	17,603	12,473	1	14,064
006	4	24,868	17,282	1	20,719
008	4	28,348	20,964	1	27,014
010	4	37,113	27,102	1	34,455
012	4	44,904	32,030	1	41,852

For detailed capacities please visit our website at www.whalencompany.com or contact your local representative. ** Cooling ratings based on 80° F DB and 67° F WB EAT, 45° F EWT with 10° F water temperature rise, 115/1/60, and high speed. ***Heating ratings based on nominal CFM. 1-row coils rated at 160° F EWT and 70° F EAT with 40° F water temperature drop, 115/1/60, and high speed. 2-row coils rated at 150° F EWT and 70° F EAT with 30° F water temperature drop, 115/1/60, and high speed.



HPFR Hi-Performance Horizontal Fan Coil Uncased - *Chilled / Hot Water / Electric Heat*



HPPR Hi-Performance Horizontal Fan Coil with Plenum - *Chilled / Hot Water / Electric Heat*



HPPB Hi-Performance Horizontal Fan Coil with Plenum and Bottom Return - *Chilled / Hot Water / Electric Heat*



Features and Benefits

- Heavy-gauge galvanized steel cabinet with neoprene-coated 1/2" thick fiberglass insulation with 3.35 PCF density.
- Coils are made of 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual-air vent. DX and steam coils do not include manual-air vent. Coils are 100% underwater pressure tested at 350 PSI with a 300 PSI working pressure.
- Galvanized drain pan is powder-coated epoxy and subjected to a 650-hour salt spray test in accordance with ASTM-B117. Also comes with 1/8" thick closed-cell insulation and primary and secondary drain connections.
- Three-speed, 115/1/60 PSC motor with quick-connect plug or three-speed, 208-230/1/50-60 or 277/1/60 PSC motor with quick-connect plug.
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- One-inch, reinforced duct collar on return- and supply-air openings.
- Swing-down, hinged return-air grille/access door on HPEF and HPRF models.
- HPEF unit has single-deflection supply-air grille.
- One-inch fiberglass, throwaway filter, except on HPFR models.
- Individually tagged, crated and shipped as scheduled for installation.
- UL and C-UL approved, ARI certified and 100% factory tested.

Equipment Options

- Soft-white, powder-coated epoxy cabinet that's subjected to a 1500-hour salt spray test in accordance with ASTM-B117.
- Drain pans - stainless steel.
- Insulation - fiberglass, foil-face, elastomeric in 1/2" and 1" thicknesses.
- Coils - copper fins/tubes, stainless steel fins/tubes, phenolic coated, stainless steel end plates. All options are available on one- to six-rows.
- Systems - two- or four-pipe, hydronic cooling/ heating, steam, direct-expansion (DX) and/or electric heat.
- Cabinet - exposed cabinet (HPEF), telescoping cabinet (HPRF) and custom colors.
- Controls - wide selection of factory-mounted valves and controls.
- Filters - two-inch thick throwaway, washable and metallic.
- Flow-control circulator for water heating applications.
- Grilles available as double-deflection and in custom colors.
- Electric strip heat from 0.5 to 9 kW.

Unit Sizes

Model	Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
HPFR	006	600	21.5	27.9	132
	008	800	25.5	27.9	144
	010	1,000	31.5	27.9	152
	012	1,200	37.5	27.9	162
	015	1,500	43.5	27.9	228
	018	1,800	49.5	27.9	270
HPPR / HPPB	022	2,200	55.5	27.9	294
	006	600	21.5	31.2	150
	008	800	25.5	31.2	162
	010	1,000	31.5	31.2	174
	012	1,200	37.5	31.2	180
	015	1,500	43.5	31.2	252
	018	1,800	49.5	31.2	300
	022	2,200	55.5	31.2	300

Nominal Capacities

HPFR, HPPR, HPPB					
Model	Cooling			Heating	
	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH***
006	3	13,132	13,132	2	23,618
008	3	18,812	16,967	2	30,972
010	3	27,415	23,343	2	43,022
012	3	30,268	27,143	2	51,223
015	3	40,098	34,824	2	64,789
018	3	49,009	41,558	2	77,538
022	3	57,664	48,058	2	89,950
006	4	16,373	15,302	1	13,771
008	4	22,465	19,058	1	18,636
010	4	32,825	26,284	1	26,351
012	4	40,054	31,854	1	28,535
015	4	51,839	40,675	1	36,850
018	4	62,619	48,437	1	44,829
022	4	73,106	55,890	1	52,680

For detailed capacities please visit our website at www.whalencompany.com or contact your local representative.

** Cooling ratings based on 80° F DB and 67° F WB EAT, 45° F EWT with 10° F water temperature rise, 115/1/60 , and high speed. ***Heating ratings based on nominal CFM. 1-row coils rated at 160° F EWT and 70° F EAT with 40° F water temperature drop, 115/1/60 , and high speed. 2-row coils rated at 150° F EWT and 70° F EAT with 30° F water temperature drop, 115/1/60 , and high speed.



HPRF Hi-Performance Horizontal Fan Coil Telescoping Recessed Cabinet - *Chilled / Hot Water / Electric Heat*



HPEF Hi-Performance Horizontal Fan Coil Exposed Cabinet - *Chilled / Hot Water / Electric Heat*



Features and Benefits

- Heavy-gauge galvanized steel cabinet with neoprene-coated 1/2" thick fiberglass insulation with 3.35 PCF density.
- Coils are made of 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual-air vent. DX and steam coils do not include manual-air vent. Coils are 100% underwater pressure tested at 350 PSI with a 300 PSI working pressure.
- Galvanized drain pan is powder-coated epoxy and subjected to a 650-hour salt spray test in accordance with ASTM-B117. Also comes with 1/8" thick closed-cell insulation and primary and secondary drain connections.
- Three-speed, 115/1/60 PSC motor with quick-connect plug or three-speed, 208-230/1/50-60 or 277/1/60 PSC motor with quick-connect plug.
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- One-inch, reinforced duct collar on return- and supply-air openings.
- Swing-down, hinged return-air grille/access door on HPEF and HPRF models.
- HPEF unit has single-deflection supply-air grille.
- One-inch fiberglass, throwaway filter, except on HPFR models.
- Individually tagged, crated and shipped as scheduled for installation.
- UL and C-UL approved, ARI certified and 100% factory tested.

Equipment Options

- Soft-white, powder-coated epoxy cabinet that's subjected to a 1500-hour salt spray test in accordance with ASTM-B117.
- Drain pans - stainless steel.
- Insulation - fiberglass, foil-face, elastomeric in 1/2" and 1" thicknesses.
- Coils - copper fins/tubes, stainless steel fins/tubes, phenolic coated, stainless steel end plates. All options are available on one- to six-rows.
- Systems - two- or four-pipe, hydronic cooling/ heating, steam, direct-expansion (DX) and/or electric heat.
- Cabinet - exposed cabinet (HPEF), telescoping cabinet (HPRF) and custom colors.
- Controls - wide selection of factory-mounted valves and controls.
- Filters - two-inch thick throwaway, washable and metallic.
- Flow-control circulator for water heating applications.
- Grilles available as double-deflection and in custom colors.
- Electric strip heat from 0.5 to 9 kW.

Unit Sizes

Model		Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
HPRF	006	600	47.5	48.8	18.5	156
	008	800	47.5	48.8	18.5	174
	010	1,000	47.5	48.8	18.5	180
	012	1,200	55.5	48.8	18.5	192
	015	1,500	57.5	48.8	18.5	258
	018	1,800	61.2	48.8	18.5	306
	022	2,200	67.5	48.8	18.5	330
HPEF	006	600	33.0	32.0	18.5	168
	008	800	37.0	32.0	18.5	186
	010	1,000	43.0	32.0	18.5	198
	012	1,200	49.0	32.0	18.5	210
	015	1,500	55.0	32.0	18.5	276
	018	1,800	61.0	32.0	18.5	324
	022	2,200	67.0	32.0	18.5	348

Nominal Capacities

HPRF, HPEF					
Model	Cooling			Heating	
	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH***
006	3	13,132	13,132	2	23,618
008	3	18,812	16,967	2	30,972
010	3	27,415	23,343	2	43,022
012	3	30,268	27,143	2	51,223
015	3	40,098	34,824	2	64,789
018	3	49,009	41,558	2	77,538
022	3	57,664	48,058	2	89,950
006	4	16,373	15,302	1	13,771
008	4	22,465	19,058	1	18,636
010	4	32,825	26,284	1	26,351
012	4	40,054	31,854	1	28,535
015	4	51,839	40,675	1	36,850
018	4	62,619	48,437	1	44,829
022	4	73,106	55,890	1	52,680

For detailed capacities please visit our website at www.whalencompany.com or contact your local representative.

** Cooling ratings based on 80° F DB and 67° F WB EAT, 45° F EWT with 10° F water temperature rise, 115/1/60, and high speed. ***Heating ratings based on nominal CFM. 1-row coils rated at 160° F EWT and 70° F EAT with 40° F water temperature drop, 115/1/60, and high speed. 2-row coils rated at 150° F EWT and 70° F EAT with 30° F water temperature drop, 115/1/60, and high speed.



VCFS Hi-Performance Vertical Fan Coil with Front Return - Chilled / Hot Water / Electric Heat



VCFP Hi-Performance Vertical Fan Coil with Painted Front Return - Chilled / Hot Water / Electric Heat



Features and Benefits

- Heavy-gauge galvanized steel cabinet with neoprene-coated 1/2" thick fiberglass insulation with 3.35 PCF density.
- Coils are made of 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual-air vent. DX and steam coils do not include manual-air vent. Coils are 100% underwater pressure tested at 350 PSI with a 300 PSI working pressure.
- Galvanized drain pan is powder-coated epoxy and subjected to a 650-hour salt spray test in accordance with ASTM-B117. Also comes with 1/8" thick closed-cell insulation and primary and secondary drain connections.
- Three-speed, 115/1/60 PSC motor with quick-connect plug or three-speed, 208-230/1/50-60 or 277/1/60 PSC motor with quick-connect plug.
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- One-inch, reinforced duct collar on return- and supply-air openings.
- One-inch fiberglass, throwaway filter.
- Individually tagged, crated and shipped as scheduled for installation.
- UL and C-UL approved, ARI certified and 100% factory tested.

Equipment Options

- Soft-white, powder-coated epoxy cabinet that's subjected to a 1500-hour salt spray test in accordance with ASTM-B117.
- Drain pans - stainless steel.
- Insulation - fiberglass, foil-face, elastomeric in 1/2" and 1" thicknesses.
- Coils - copper fins/tubes, stainless steel fins/tubes, phenolic coated, stainless steel end plates. All options are available on one- to six-rows.
- Systems - two- or four-pipe, hydronic cooling/ heating, steam, direct-expansion (DX) and/or electric heat.
- Cabinet - bottom return painted (VCBP), front return painted (VCFP), rear return painted (VCRP).
- Controls - wide selection of factory-mounted valves and controls.
- Filters - two-inch thick throwaway, washable and metallic.
- Flow-control circulator for water heating applications.
- Electric strip heat from 0.5 to 9 kW.

Unit Sizes

Model		Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
VCFS / VCFP	006	600	21.0	20.0	42.0	139
	008	800	25.0	20.0	42.0	157
	010	1,000	25.0	20.0	45.0	169
	012	1,200	30.0	20.0	45.0	182
	015	1,500	37.0	20.0	48.0	242
	018	1,800	37.0	20.0	48.0	256
	022	2,200	41.0	20.0	48.0	276

Nominal Capacities

VCFS, VCFP					
Model	Cooling			Heating	
	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH***
006	3	23,857	18,943	2	39,315
008	3	27,833	23,175	2	45,620
010	3	29,251	24,380	2	46,178
012	3	35,675	29,762	2	58,701
015	3	53,354	41,351	2	83,483
018	3	58,483	46,959	2	98,432
022	3	66,760	52,475	2	107,023
006	4	27,066	20,138	1	25,920
008	4	32,491	25,079	1	29,165
010	4	34,629	27,020	1	28,864
012	4	45,036	34,133	1	31,883
015	4	62,440	45,059	1	51,819
018	4	72,063	52,405	1	61,796
022	4	81,429	58,364	1	56,951

For detailed capacities please visit our website at www.whalencompany.com or contact your local representative.

** Cooling ratings based on 80° F DB and 67° F WB EAT, 45° F EWT with 10° F water temperature rise, 115/1/60, and high speed.

***Heating ratings based on nominal CFM. 1-row coils rated at 160° F EWT and 70° F EAT with 40° F water temperature drop, 115/1/60, and high speed. 2-row coils rated at 150° F EWT and 70° F EAT with 30° F water temperature drop, 115/1/60, and high speed.



VCBS Hi-Performance

Vertical Fan Coil with Bottom Return - *Chilled / Hot Water / Electric Heat*

VCBP Hi-Performance

Vertical Fan Coil with Painted Bottom Return - *Chilled / Hot Water / Electric Heat*

VCRS Hi-Performance

Vertical Fan Coil with Rear Return - *Chilled / Hot Water / Electric Heat*

VCRP Hi-Performance

Vertical Fan Coil with Painted Rear Return - *Chilled / Hot Water / Electric Heat*



Unit Sizes

	Model	Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
VCBS / VCBP	004	400	20.3	14.3	57.6	125
	006	600	20.3	14.3	57.6	132
	008	800	20.3	14.3	57.6	170
	010	1,000	20.4	20.3	57.8	181
	012	1,200	20.4	20.3	57.8	200
	015	1,500	36.0	24.6	62.8	269
	018	1,800	36.0	24.6	62.8	281
	022	2,200	36.0	24.6	62.8	281
VCRS / VCRP	004	400	24.1	27.1	46.0	171
	006	600	24.1	27.1	46.0	177
	008	800	24.1	27.1	46.0	209
	010	1,000	30.1	27.1	46.0	219
	012	1,200	30.1	27.1	46.0	235
	015	1,500	38.1	27.1	46.0	304
	018	1,800	38.1	27.1	54.0	318
	022	2,200	46.1	27.3	60.0	318

Nominal Capacities

VCBS, VCBP						VCRS, VCRP					
Model	Cooling			Heating		Model	Cooling			Heating	
	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH***		Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH***
004	3	19,380	14,303	2	43,654	004	3	26,504	20,095	2	43,654
006	3	22,093	16,451	2	45,686	006	3	28,381	21,726	2	45,686
008	3	25,780	22,316	2	40,840	008	3	24,600	20,850	2	40,840
010	3	31,442	25,414	2	49,326	010	3	31,442	25,414	2	49,326
012	3	33,697	28,006	2	52,383	012	3	33,697	28,006	2	52,383
015	3	53,632	41,219	2	72,586	015	3	53,632	41,219	2	72,586
018	3	63,096	48,168	2	86,551	018	3	63,096	48,168	2	86,551
022	3	70,542	54,082	2	105,835	022	3	70,542	54,082	2	105,835
004	4	27,133	20,266	1	23,463	004	4	27,133	20,266	1	29,763
006	4	29,214	21,963	1	26,222	006	4	29,214	21,963	1	30,825
008	4	26,168	21,556	1	26,758	008	4	26,168	21,556	1	25,956
010	4	34,917	27,243	1	31,349	010	4	34,917	27,243	1	31,349
012	4	37,946	30,486	1	32,515	012	4	37,946	30,486	1	32,515
015	4	62,214	44,780	1	48,844	015	4	62,214	44,780	1	48,844
018	4	70,965	51,526	1	58,157	018	4	70,965	51,526	1	58,157
022	4	85,031	5,988	1	72,284	022	4	85,031	5,988	1	72,284

For detailed capacities please visit our website at www.whalencompany.com or contact your local representative.

** Cooling ratings based on 80° F DB and 67° F WB EAT, 45° F EWT with 10° F water temperature rise, 115/1/60, and high speed.

***Heating ratings based on nominal CFM. 1-row coils rated at 160° F EWT and 70° F EAT with 40° F water temperature drop, 115/1/60, and high speed. 2-row coils rated at 150° F EWT and 70° F EAT with 30° F water temperature drop, 115/1/60, and high speed.

Features and Benefits

- Heavy-gauge galvanized steel cabinet with neoprene-coated 1/2" thick fiberglass insulation with 3.35 PCF density.
- Coils are made of 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual-air vent. DX and steam coils do not include manual-air vent. Coils are 100% underwater pressure tested at 350 PSI with a 300 PSI working pressure.
- Galvanized drain pan is powder-coated epoxy and subjected to a 650-hour salt spray test in accordance with ASTM-B117. Also comes with 1/8" thick closed-cell insulation and primary and secondary drain connections.
- Three-speed, 115/1/60 PSC motor with quick-connect plug or three-speed, 208-230/1/50-60 or 277/1/60 PSC motor with quick-connect plug.
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- One-inch, reinforced duct collar on return- and supply-air openings.
- One-inch fiberglass, throwaway filter.
- Individually tagged, crated and shipped as scheduled for installation.
- UL and C-UL approved, ARI certified and 100% factory tested.

Equipment Options

- Soft-white, powder-coated epoxy cabinet that's subjected to a 1500-hour salt spray test in accordance with ASTM-B117.
- Drain pans - stainless steel.
- Insulation - fiberglass, foil-face, elastomeric in 1/2" and 1" thicknesses.
- Coils - copper fins/tubes, stainless steel fins/tubes, phenolic coated, stainless steel end plates. All options are available on one- to six-rows.
- Systems - two- or four-pipe, hydronic cooling/ heating, steam, direct-expansion (DX) and/or electric heat.

- Cabinet - bottom return painted (VCBP), front return painted (VCFP), rear return painted (VCRP).
- Controls - wide selection of factory-mounted valves and controls.
- Filters - two-inch thick throwaway, washable and metallic.
- Flow-control circulator for water heating applications.
- Electric strip heat from 0.5 to 9 kW.



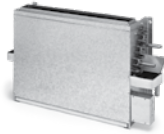
Vertical Console



Whalen Console Fan Coil Units deliver reliable performance and quiet operation while being very easy to install and service. Their pleasing physical appearance allows them to blend in with any décor, and they're available in several styles to complement any space.

These units are ideal for perimeter and corridor heating and cooling in hotels, apartments, hospitals, commercial buildings and other multi-room facilities.

VWCS Vertical Floor Console Fan Coil Concealed - *Chilled / Hot Water / Electric Heat*



Features and Benefits

- Heavy-gauge galvanized steel cabinet with neoprene-coated 1/2" thick fiberglass insulation with 3.35 PCF density.
- Coils are made of 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual-air vent. Direct Expansion (DX) and steam coils do not include manual-air vent. Coils are 100% underwater pressure tested at 350 PSI with a 300 PSI working pressure.
- Galvanized drain pan is powder-coated epoxy with a 1/8" thick closed-cell insulation and has primary and secondary drain connections.
- Three-speed, 115/1/60, 208/1/50-60 or 277/1/60 PSC motor with quick-connect plug.
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- Stamped, louvered discharge grille on vertical slope top, wrap slope top and recessed.
- Black, bar-type discharge grille on vertical front discharge and modular.
- Multiple, four-way quadrafuser discharge grille on vertical flat top.
- One-inch fiberglass, throwaway filter.
- Designed to be floor or wall-mounted with six mounting holes provided for wall-mounting.
- Individually tagged, crated and shipped as scheduled for installation.
- UL and C-UL approved, ARI certified.

Equipment Options

- Soft-white, powder-coated epoxy cabinet.
- Stainless steel drain pan.
- Insulation - fiberglass, foil-face, elastomeric in 1/2" and 1" thickness.
- Coils - copper fins/tubes, stainless steel fins/tubes, phenolic coated, stainless steel end plates. All options are available on one- to five-row for VW units.
- Systems - two- or four-pipe, hydronic cooling/heating, steam, DX and/or electric heat.
- Cabinet - flat top, slope top, wrap slope top, concealed, wall recessed.
- Grilles - eliminate the need for closet doors and come in custom colors.
- Controls - unlimited selection of factory-mounted valves and controls.
- Filters - washable and metallic.
- Flow-control circulator for water heating applications.
- Electric strip heat from 0.5 to 6 kW.

Unit Sizes

Model		Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
VWCS	002	200	28.3	10.0	22.0	101
	003	300	28.3	10.0	22.0	101
	004	400	39.3	10.0	22.0	140
	006	600	44.3	10.0	22.0	156
	008	800	42.3	12.0	25.0	221
	010	1,000	50.3	12.0	25.0	240
	012	1,200	50.3	12.0	25.0	262

Nominal Capacities

VWCS, VWFT					
Model	Cooling			Heating	
	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH***
002	3	7,499	5,648	2	11,997
003	3	7,756	5,845	2	12,644
004	3	15,749	11,117	2	23,292
006	3	17,353	12,020	2	24,526
008	3	31,672	22,904	2	49,453
010	3	35,599	25,511	2	54,667
012	3	40,582	29,714	2	62,917

For detailed capacities please visit our website at www.whalencompany.com or contact your local representative.

** Cooling ratings based on 80° F DB and 67° F WB EAT, 45° F EWT with 10° F water temperature rise, 115/1/60, and high speed.

***Heating ratings based on nominal CFM. 1-row coils rated at 160° F EWT and 70° F EAT with 40° F water temperature drop, 115/1/60, and high speed. 2-row coils rated at 150° F EWT and 70° F EAT with 30° F water temperature drop, 115/1/60, and high speed.



VWFT Vertical Floor Console Fan Coil Flat Top - Chilled / Hot Water / Electric Heat



Features and Benefits

- Heavy-gauge galvanized steel cabinet with neoprene-coated 1/2" thick fiberglass insulation with 3.35 PCF density.
- Coils are made of 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual-air vent. Direct Expansion (DX) and steam coils do not include manual-air vent. Coils are 100% underwater pressure tested at 350 PSI with a 300 PSI working pressure.
- Galvanized drain pan is powder-coated epoxy with a 1/8" thick closed-cell insulation and has primary and secondary drain connections.
- Three-speed, 115/1/60, 208/1/50-60 or 277/1/60 PSC motor with quick-connect plug.
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- Stamped, louvered discharge grille on vertical slope top, wrap slope top and recessed.
- Black, bar-type discharge grille on vertical front discharge and modular.
- Multiple, four-way quadrafuser discharge grille on vertical flat top.
- One-inch fiberglass, throwaway filter.
- Designed to be floor or wall-mounted with six mounting holes provided for wall-mounting.
- Individually tagged, crated and shipped as scheduled for installation.
- UL and C-UL approved, ARI certified.

Equipment Options

- Soft-white, powder-coated epoxy cabinet.
- Stainless steel drain pan.
- Insulation - fiberglass, foil-face, elastomeric in 1/2" and 1" thickness.
- Coils - copper fins/tubes, stainless steel fins/tubes, phenolic coated, stainless steel end plates. All options are available on one- to five-row for VW units.
- Systems - two- or four-pipe, hydronic cooling/heating, steam, DX and/or electric heat.
- Cabinet - flat top, slope top, wrap slope top, concealed, wall recessed.
- Grilles - eliminate the need for closet doors and come in custom colors.
- Controls - unlimited selection of factory-mounted valves and controls.
- Filters - washable and metallic.
- Flow-control circulator for water heating applications.
- Electric strip heat from 0.5 to 6 kW.

Unit Sizes

Model		Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
VWFT	002	200	39.3	11.3	26.0	168
	003	300	39.3	11.3	26.0	168
	004	400	50.3	11.3	26.0	234
	006	600	55.3	11.3	26.0	246
	008	800	53.3	13.3	30.0	304
	010	1,000	61.3	13.3	30.0	316
	012	1,200	67.3	13.3	30.0	360

Nominal Capacities

VWFT					
Model	Cooling			Heating	
	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH***
002	4	9,268	6,381	1	6,734
003	4	9,567	6,591	1	7,141
004	4	18,373	12,240	1	14,775
006	4	20,051	13,219	1	15,735
008	4	35,914	24,692	1	34,437
010	4	40,228	27,441	1	33,583
012	4	46,543	32,159	1	40,664

For detailed capacities please visit our website at www.whalencompany.com or contact your local representative.

** Cooling ratings based on 80° F DB and 67° F WB EAT, 45° F EWT with 10° F water temperature rise, 115/1/60 , and high speed.

***Heating ratings based on nominal CFM. 1-row coils rated at 160° F EWT and 70° F EAT with 40° F water temperature drop, 115/1/60 , and high speed. 2-row coils rated at 150° F EWT and 70° F EAT with 30° F water temperature drop, 115/1/60 , and high speed.



VWST Vertical Floor Console Fan Coil Slope Top - Chilled / Hot Water / Electric Heat



VWSW Vertical Floor Console Fan Coil Wrap Slope Top - Chilled / Hot Water / Electric Heat



VWRG Vertical Floor Console Fan Coil Recessed Cabinet - Chilled / Hot Water / Electric Heat



Features and Benefits

- Heavy-gauge galvanized steel cabinet with neoprene-coated 1/2" thick fiberglass insulation with 3.35 PCF density.
- Coils are made of 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual-air vent. Direct Expansion (DX) and steam coils do not include manual-air vent. Coils are 100% underwater pressure tested at 350 PSI with a 300 PSI working pressure.
- Galvanized drain pan is powder-coated epoxy with a 1/8" thick closed-cell insulation and has primary and secondary drain connections.
- Three-speed, 115/1/60, 208/1/50-60 or 277/1/60 PSC motor with quick-connect plug.
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- Stamped, louvered discharge grille on vertical slope top, wrap slope top and recessed.
- Black, bar-type discharge grille on vertical front discharge and modular.
- Multiple, four-way quadrafuser discharge grille on vertical flat top.
- One-inch fiberglass, throwaway filter.
- Designed to be floor or wall-mounted with six mounting holes provided for wall-mounting.
- Individually tagged, crated and shipped as scheduled for installation.
- UL and C-UL approved, ARI certified.

Equipment Options

- Soft-white, powder-coated epoxy cabinet.
- Stainless steel drain pan.
- Insulation - fiberglass, foil-face, elastomeric in 1/2" and 1" thickness.
- Coils - copper fins/tubes, stainless steel fins/tubes, phenolic coated, stainless steel end plates. All options are available on one- to five-row for VW units.
- Systems - two- or four-pipe, hydronic cooling/heating, steam, DX and/or electric heat.
- Cabinet - flat top, slope top, wrap slope top, concealed, wall recessed.
- Grilles - eliminate the need for closet doors and come in custom colors.
- Controls - unlimited selection of factory-mounted valves and controls.
- Filters - washable and metallic.
- Flow-control circulator for water heating applications.
- Electric strip heat from 0.5 to 6 kW.

Unit Sizes

	Model	Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
VWST	002	200	39.3	11.3	30.0	168
	003	300	39.3	11.3	30.0	168
	004	400	50.3	11.3	30.0	234
	006	600	55.3	11.3	30.0	246
	008	800	53.3	13.3	34.0	304
	010	1,000	61.3	13.3	34.0	316
	012	1,200	67.3	13.3	34.0	360
VWSW	002	200	35.3	11.3	30.0	168
	003	300	35.3	11.3	30.0	168
	004	400	52.1	11.3	30.0	234
	006	600	52.1	11.3	30.0	246
	008	800	57.8	12.0	34.0	304
	010	1,000	57.8	12.0	34.0	316
	012	1,200	69.0	12.0	34.0	360
VWRG	002	200	30.0	11.6	30.0	120
	003	300	30.0	11.6	30.0	120
	004	400	42.0	11.6	30.0	162
	006	600	47.0	11.6	30.0	168
	008	800	47.0	13.3	33.0	174
	010	1,000	55.0	13.3	33.0	186
	012	1,200	61.0	13.3	33.0	198

Nominal Capacities

VWST, VWSW, VWRG					
Model	Cooling			Heating	
	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH***
002	3	7,499	5,648	2	11,997
003	3	7,756	5,845	2	12,644
004	3	15,749	11,117	2	23,292
006	3	17,353	12,020	2	24,526
008	3	31,672	22,904	2	49,453
010	3	35,599	25,511	2	54,667
012	3	40,582	29,714	2	62,917
002	4	9,268	6,381	1	6,734
003	4	9,567	6,591	1	7,141
004	4	18,373	12,240	1	14,775
006	4	20,051	13,219	1	15,735
008	4	35,914	24,692	1	34,437
010	4	40,228	27,441	1	33,583
012	4	46,543	32,159	1	40,664

For detailed capacities please visit our website at www.whalencompany.com or contact your local representative.

** Cooling ratings based on 80° F DB and 67° F WB EAT, 45° F EWT with 10° F water temperature rise, 115/1/60, and high speed.

***Heating ratings based on nominal CFM. 1-row coils rated at 160° F EWT and 70° F EAT with 40° F water temperature drop, 115/1/60, and high speed. 2-row coils rated at 150° F EWT and 70° F EAT with 30° F water temperature drop, 115/1/60, and high speed.



VWLR Vertical Floor Console Lowboy Fan Coil with Recessed Painted Grille - Chilled / Hot Water / Electric Heat



VWLF Vertical Floor Console Lowboy Fan Coil with Low Front Discharge - Chilled / Hot Water / Electric Heat



VWLT Vertical Floor Console Lowboy Fan Coil with Low Top Discharge - Chilled / Hot Water / Electric Heat



Features and Benefits

- Heavy-gauge galvanized steel cabinet with neoprene-coated 1/2" thick fiberglass insulation with 3.35 PCF density.
- Coils are made of 1/2" OD copper tube with aluminum fins (12 FPI) equipped with manual-air vent. Direct expansion (DX) and steam coils do not include manual-air vent. Coils are 100% underwater pressure tested at 350 PSI with a 300 PSI working pressure.
- Galvanized drain pan is powder-coated epoxy with a 1/8" thick closed-cell insulation and has primary and secondary drain connections.
- Three-speed, 115/1/60, 208/1/50-60 or 277/1/60 PSC motor with quick-connect plug.
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- One-inch fiberglass, throwaway filter.
- Designed to be floor- or wall-mounted with six mounting holes provided for wall-mounting.
- Individually tagged, crated and shipped as scheduled for installation.
- UL and C-UL approved, ARI certified.

Equipment Options

- Soft-white, powder-coated epoxy cabinet is standard on all painted units
- Stainless steel drain pans
- Insulation - fiberglass, foil-face, elastomeric in 1/2" and 1" thicknesses.
- Coils - copper fins/tubes, stainless steel fins/tubes, phenolic coated, stainless steel end plates. All options are available on one- to three-row for VW Lowboy units.
- Systems - two- or four-pipe, hydronic cooling/ heating, steam, DX and/or electric heat.
- Grilles - come in custom colors.
- Controls - unlimited selection of factory-mounted valves and controls.
- Filters - washable and metallic.
- Flow-control circulator for water heating applications.
- Electric strip heat from 0.5 to 6 kW.

Unit Sizes

Model		Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
VWLR	004	400	53.0	16.5	14.2	162
	006	600	53.0	16.5	14.2	162
VWLF	004	400	51.0	18.0	16.5	168
	006	600	51.0	18.0	16.5	170
VWLT	004	400	51.0	18.0	16.5	168
	006	600	51.0	18.0	16.5	170

Nominal Capacities

VWLR, VWLF, VWLT					
Model	Cooling			Heating	
	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH***
004	3	17,162	12,409	2	25,017
006	3	20,466	15,109	2	30,243
004	2	12,387	10,374	1	17,063
006	2	14,724	12,654	1	20,432

For detailed capacities please visit our website at www.whalencompany.com or contact your local representative.

** Cooling ratings based on 80° F DB and 67° F WB EAT, 45° F EWT with 10° F water temperature rise, 115/1/60, and high speed.

***Heating ratings based on nominal CFM. 1-row coils rated at 160° F EWT and 70° F EAT with 40° F water temperature drop, 115/1/60, and high speed. 2-row coils rated at 150° F EWT and 70° F EAT with 30° F water temperature drop, 115/1/60, and high speed.



Belt Drive



Whalen Horizontal and Vertical Belt Drive Units come in a variety of configurations to meet practically any commercial or institutional system and design requirement.

Whether you need single-wall or double-wall units ...
hot water, chilled water and/or electric heat...
2-pipe or 4-pipe configurations, we have the right
configuration for you.

AHVS Belt Drive Air Handler Vertical Single Wall - Chilled / Hot Water / Direct Expansion / Electric Heat



AHVP Belt Drive Air Handler Vertical Single Wall Painted - Chilled / Hot Water / Direct Expansion / Electric Heat

Features and Benefits

- Heavy-gauge galvanized steel cabinet with neoprene-coated 1/2" thick fiberglass insulation with 1.5 PCF density on models 008-040. 1/2" thick fiberglass insulation with 3.35 PCF density on models 050-120.
- Coils are made of 1/2" OD copper tube with aluminum fins (10 FPI) and equipped with manual-air vent. DX and steam coils do not include manual-air vent. Coils are 100% underwater pressure tested at 350 PSI with a 300 PSI working pressure at 180° maximum water temperature.
- Galvanized drain pan is powder-coated epoxy 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.
- Adjustable, variable-pitch drive sheave and cast-iron pulley keyed to motor shaft (order separately).
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- Size 008-040 units are equipped with vibration isolators that minimize noise levels and equipment reverberation.
- Two-inch thick, 30/30 pleated filter, flatly mounted with spring-loaded clips on the side access door for easy maintenance without the use of tools.
- Individually tagged, crated and shipped as scheduled for installation.
- ETL approved, AHRI certified and 100% factory tested.

Equipment Options

- Deluxe enclosure painted with soft-white, powder-coated epoxy cabinet that's subjected to a 1,500-hour salt spray test in accordance with ASTM B117.
- Drain pans - stainless steel and double-wall.
- Insulation - fiberglass, foil-face, elastomeric and double-wall (solid or perforated) in 1/2" and 1" thicknesses.
- Coils - copper fins/tubes, stainless steel fins/tubes, phenolic coated, stainless steel end plates. All options are available on one through 12 rows for AHHS/P 008-040 and one through 10 rows for AHHS/P 050-120.
- Systems - two- or four-pipe, hydronic cooling/heating, steam, direct-expansion (DX) and/or electric heat.
- Controls - wide selection of factory-mounted valves, controls and enclosures.
- Motors - heavy-duty, high temperature, ODP, TEFC; 115, 208, 230, 277, 460 and 575 voltages.
- Filters - two-inch thick throwaway, washable, metallic and v-bank.
- Electric resistance heat from 1.0 to 25 kW on sizes 008-040; 7.0 to 65 kW on sizes 050-120.
- Mixing boxes - with dampers, modulating and three-position economizers.

Unit Sizes

Model		Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
AHVS/ AHVP	008	800	24.1	27.1	46.0	327
	012	1,200	30.1	27.1	46.0	359
	016	1,600	38.1	27.1	46.0	448
	020	2,000	38.1	27.1	54.0	464
	030	3,000	46.1	27.1	60.0	701
	040	4,000	58.3	27.1	54.0	734
	050	5,000	71.3	27.1	54.0	975
	060	6,000	85.3	27.1	60.0	1,234
	080	8,000	85.3	27.1	67.0	1,521
	100	10,000	105.3	27.1	67.0	1,915
	120	12,000	116.3	34.1	83.0	2,289

*The listed unit weight will vary pending coil row selections and motor HP selections.

Nominal Capacities

AHVS, AHVP									
Model	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**
Cooling									
008	3	28,290	21,270	4	29,868	21,924	6	38,018	25,287
012	3	39,757	30,889	4	44,227	32,662	6	56,748	37,812
016	3	51,134	40,466	4	63,276	45,270	6	75,527	50,358
020	3	64,591	50,824	4	79,519	56,757	6	91,520	61,722
030	3	98,800	76,965	4	115,950	83,795	6	138,249	92,992
040	3	123,881	98,940	4	143,573	107,170	6	183,328	123,554
050	3	150,782	121,967	4	181,547	134,728	6	226,878	153,475
060	3	188,329	149,367	4	221,714	163,263	6	276,671	186,041
080	3	245,188	196,668	4	292,211	216,260	6	359,495	244,087
100	3	314,488	248,936	4	370,265	272,323	6	444,145	302,924
120	3	354,322	289,265	4	424,053	318,553	6	531,257	362,765
Heating									
Model	Rows	Total Capacity BTUH**		Rows	Total Capacity BTUH**				
008	1	28,321		2	42,631				
012	1	38,320		2	66,536				
016	1	55,088		2	83,726				
020	1	67,648		2	103,091				
030	1	92,661		2	153,013				
040	1	123,307		2	192,023				
050	1	153,355		2	231,087				
060	1	184,066		2	294,746				
080	1	248,704		2	385,875				
100	1	322,626		2	480,440				
120	1	357,812		2	560,057				

For detailed capacities please visit our website at www.whalencompany.com or contact your local representative. ** Cooling ratings based on 80° F DB and 67° F WB EAT, 45° F EWT with 10° F water temperature rise, 115/1/60 VAC for sizes 008-050, 208/3/60 VAC for sizes 060-120, and high speed. ***Heating ratings based on nominal CFM. 1-row coils rated at 160° F EWT and 70° F EAT with 40° F water temperature drop, 115/1/60 VAC for sizes 008-050, 208/3/60 VAC for sizes 060-120, and high speed. 2-row coils rated at 150° F EWT and 70° F EAT with 30° F water temperature drop, 115/1/60 VAC for sizes 008-050, 208/3/60 VAC for sizes 060-120, and high speed.



AHHS Belt Drive Air Handler Horizontal Single Wall - Chilled / Hot Water / Direct Expansion / Electric Heat



AHHP Belt Drive Air Handler Horizontal Single Wall Painted - Chilled / Hot Water / Direct Expansion / Electric Heat

Features and Benefits

- Heavy-gauge galvanized steel cabinet with neoprene-coated 1/2" thick fiberglass insulation with 1.5 PCF density on models 008-040. 1/2" thick fiberglass insulation with 3.35 PCF density on models 050-120.
- Coils are made of 1/2" OD copper tube with aluminum fins (10 FPI) and equipped with manual-air vent. DX and steam coils do not include manual-air vent. Coils are 100% underwater pressure tested at 350 PSI with a 300 PSI working pressure at 180° maximum water temperature.
- Galvanized drain pan is powder-coated epoxy 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.
- Adjustable, variable-pitch drive sheave and cast-iron pulley keyed to motor shaft (order separately).
- Controls and motors are factory-wired and terminated in a junction box for single-point power supply.
- Size 008-040 units are equipped with vibration isolators that minimize noise levels and equipment reverberation.
- Two-inch thick, 30/30 pleated filter, flatly mounted with spring-loaded clips on the side access door for easy maintenance without the use of tools.
- Individually tagged, crated and shipped as scheduled for installation.
- ETL approved, AHRI certified and 100% factory tested.

Equipment Options

- Deluxe enclosure painted with soft-white, powder-coated epoxy cabinet that's subjected to a 1,500-hour salt spray test in accordance with ASTM B117.
- Drain pans - stainless steel and double-wall.
- Insulation - fiberglass, foil-face, elastomeric and double-wall (solid or perforated) in 1/2" and 1" thicknesses.
- Coils - copper fins/tubes, stainless steel fins/tubes, phenolic coated, stainless steel end plates. All options are available on one through 12 rows for AHHS/P 008-040 and one through 10 rows for AHHS/P 050-120.
- Systems - two- or four-pipe, hydronic cooling/heating, steam, direct-expansion (DX) and/or electric heat.
- Controls - wide selection of factory-mounted valves, controls and enclosures.
- Motors - heavy-duty, high temperature, ODP, TEFC; 115, 208, 230, 277, 460 and 575 voltages.
- Filters - two-inch thick throwaway, washable, metallic and v-bank.
- Electric resistance heat from 1.0 to 25 kW on sizes 008-040; 7.0 to 65 kW on sizes 050-120.
- Mixing boxes - with dampers, modulating and three-position economizers.

Unit Sizes

Model		Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
AHHS	008	800	24.1	39.1	20.3	247
	012	1,200	30.1	39.1	20.3	259
	016	1,600	38.1	39.1	20.3	347
	020	2,000	38.1	39.1	23.5	369
	030	3,000	46.1	45.1	28.0	531
	040	4,000	58.1	45.3	27.9	604
	050	5,000	71.1	45.3	27.9	795
	060	6,000	85.1	45.3	27.9	974
	080	8,000	85.1	45.3	35.3	1,231
	100	10,000	105.4	45.3	35.3	1,825
	120	12,000	116.4	45.3	35.3	2,183


*The listed unit weight will vary pending coil row selections and motor HP selections.

Nominal Capacities

AHHS, AHHP									
Model	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**
Cooling									
008	3	28,290	21,270	4	29,868	21,924	6	38,018	25,287
012	3	39,757	30,889	4	44,227	32,662	6	56,748	37,812
016	3	51,134	40,466	4	63,276	45,270	6	75,527	50,358
020	3	64,591	50,824	4	79,519	56,757	6	91,520	61,722
030	3	98,800	76,965	4	115,950	83,795	6	138,249	92,992
040	3	123,881	98,940	4	143,573	107,170	6	183,328	123,554
050	3	150,782	121,967	4	181,547	134,728	6	226,878	153,475
060	3	188,329	149,367	4	221,714	163,263	6	276,671	186,041
080	3	245,188	196,668	4	292,211	216,260	6	359,495	244,087
100	3	314,488	248,936	4	370,265	272,323	6	444,145	302,924
120	3	354,322	289,265	4	424,053	318,553	6	531,257	362,765
Heating									
Model	Rows	Total Capacity BTUH**		Rows	Total Capacity BTUH**				
008	1	28,321		2	42,631				
012	1	38,320		2	66,536				
016	1	55,088		2	83,726				
020	1	67,648		2	103,091				
030	1	92,661		2	153,013				
040	1	123,307		2	192,023				
050	1	153,355		2	231,087				
060	1	184,066		2	294,746				
080	1	248,704		2	385,875				
100	1	322,626		2	480,440				
120	1	357,812		2	560,057				

For detailed capacities please visit our website at www.whalencompany.com or contact your local representative. ** Cooling ratings based on 80° F DB and 67° F WB EAT, 45° F EWT with 10° F water temperature rise, 115/1/60 VAC for sizes 008-050, 208/3/60 VAC for sizes 060-120, and high speed. ***Heating ratings based on nominal CFM. 1-row coils rated at 160° F EWT and 70° F EAT with 40° F water temperature drop, 115/1/60 VAC for sizes 008-050, 208/3/60 VAC for sizes 060-120, and high speed. 2-row coils rated at 150° F EWT and 70° F EAT with 30° F water temperature drop, 115/1/60 VAC for sizes 008-050, 208/3/60 VAC for sizes 060-120, and high speed.





Behind every unit that carries the Whalen name is a singularity of purpose: the engineering and manufacturing of products that improve the quality of life for our customers.

Our long-term commitment to this endeavor assures you of systems that are distinctive in **concept**, **performance**, **reliability** and **value**.

The number of industry “firsts” from Whalen is impressive. They include:

- The industry’s first vertical stack valveless fan coils
- The first vertical stack heat pump offering
- The first removable chassis closet-type heat pumps
- The first AHRI-listed water-cooled air conditioning units with hydronic heat

Let us put Whalen innovation to work for you, too. Find out how our approach to your project will deliver a “perfect fit” solution – and make your life easier.

Need to locate a sales representative? Whalen’s sales rep locator tool was designed to help you easily find a Whalen sales representative within the United States and Canada.

whalencompany.com/relocator



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