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 | Inteli-line[®] Vertical Stack Fan Coil Unit Valve Series with Fixed Coil Pack

Whalen Inteli-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.

Inteli-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		300	3	310	2.0	9300	6300			145
		300	4	310	2.3	11500	7100			150
2PHO - Two Pipe Heating Only (Vertical	Standard	400	3	400	2.7	12800	9200		115/60/1	145
Stack Cabinet Unit Heater)		400	4	390	3.1	15200	9800			150
2PCO - Two Pipe Cooling Only Unit	Primary	600	3	600	3.9	18800	13600			165
	,	600	4	590	4.9	23000	15000	PSC, ECM	208-230/60/1	170
2PAE - Two Pipe Heating and Cooling Unit		800	3	800	5.0	23300	17100	PSC, ECIVI	200-230/00/1	165
with Auxilary Electric Heat	Secondary	800	4	790	5.8	27500	19300			170
2PTE - Two Pipe Heating and Cooling Unit		1000	3	960	7.2	36000	24700			205
with Total Electric Heat	Special	1000	4	950	8.0	40000	26700		265/60/1	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 | Inteli-line[®] Vertical Stack Fan Coil Unit Valve Series with Slide-Out Coil Pack

Whalen Inteli-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

				Coolir	ng Capacity	
Model	CFM	GPM	Coil	EWT	TC	SC
			Rows	(°F)	(Btu/hr)	(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

				Heatir	ng Capacity	
Model	CFM	GPM	Coil	EWT	тс	SC
			Rows	(°F)	(Btu/hr)	(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		300			147 / 14
	Chandend	300			147 / 19
2PHO - Two Pipe Heating Only (Vertical Stack Cabinet Unit Heater)	Standard	400			147 / 14 147 / 19 147 / 20 147 / 20 147 / 25 /1 165 / 26 60/1 165 / 31 165 / 33
		400	1		147 / 25
2PCO - Two Pipe Cooling Only Unit	Primary	600]	115/60/1	165 / 26
	,	600		000 000/00/4	165 / 31
2PAE - Two Pipe Heating and Cooling Unit		800	PSC, ECM	208-230/60/1	165 / 33
with Auxilary Electric Heat	Secondary	800		265/60/1	165 / 38
2PTE - Two Pipe Heating and Cooling Unit		1000	1	200/00/1	196 / 50
with Total Electric Heat	Special	1000			196 / 55
	Special	1200	1		Chassis (lbs) 147 / 14 147 / 19 147 / 20 147 / 25 165 / 26 165 / 31 165 / 33 165 / 38 196 / 50
4P - Four Pipe Heating and Cooling Unit		1200	1		196 / 61



WTNX | Inteli-thermTM Vertical Stack Fan Coil Series with Slide-Out Coil Pack

When you specify an Inteli-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 Inteli-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.



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

			3-Row C	ooling Ca	pacity				4-Row C	ooling Ca	pacity	
Whalen Catalog Name	SCFM	GPM	Coil Rows	EWT (°F)	TC (Btu/hr)	SC (Btu/hr)	SCFM	GPM	Coil Rows	EWT (°F)	TC (Btu/hr)	SC (Btu/hr)
W(N/T)X-03 EC Motor	356	2.1	3	45	10,100	7,300	350	2.5	4	45	11,900	7,900
W(N/T)X-04 EC Motor	450	3.1	3	45	14,500	9,800	440	3.3	4	45	16,000	10,700
W(N/T)X-06 EC Motor	690	4.2	3	45	19,700	14,300	650	4.4	4	45	20,600	14,200
W(N/T)X-08 EC Motor	760	5.0	3	45	22,700	16,100	750	5.6	4	45	26,300	18,100
W(N/T)X-10 EC Motor	1020	6.8	3	45	33,000	23,500	1020	7.3	4	45	35,300	25,000
W(N/T)X-12 EC Motor	1220	8.0	3	45	38,700	28,000	1220	8.8	4	45	43,200	30,500

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		Sum	-		
	Outdoor 32°F DB, 29°F	WB	Outdoor 95°F	DB, 78°F WB		
	Indoor 70°F DB, 58°F	WB	Indoor 75°F I	Indoor 75°F DB, 63°F WB		
CFM	Apparent Sensible Effective- ness	Total Recovery Efficiency	Apparent Sensible Effective- ness	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.

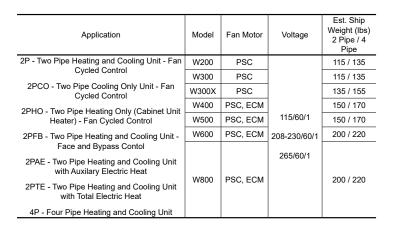
- Small unit footprint saves space
- Ease of installation with reduced costs
- Enhanced unit insulation
- Upgraded universal controls
- User-friendly drain service system
- Improved unit serviceability
- Dehumidification performance
- Demonstrated reliability

	Fluid	Co	oling Capad	city ¹	Heating	Capacity ²	
Model	CFM	Velocity (FPS)	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

Vertical Stack Valveless Riser Fan Coil

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





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

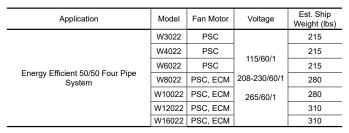
Fluid Cooling Capacity¹ Heating Capacity² Model CFM EWT SC Velocity EWT TC TC (FPS) (°F) (Btu/hr) (Btu/hr) (°F) (Btu/hr) W3022 170 6.0 45 4958.9 4237.4 140 8363.1 W4022 200 6.0 45 5,834.0 4,985.2 140 9,838.9 W6022 300 6.0 45 8.249.5 6.227.5 140 14.976.6 W6022X 300 6.0 45 9.528.8 6.682.8 140 14.997.0 W8022 16,797.8 400 6.0 45 11.692.0 8.889.3 140 W10022 500 6.0 45 12,562.5 9,806.5 140 19,804.6 23,771.1 W12022 600 15,710.5 12,531.0 140 6.0 45 W16022 800 45 20,651.8 16,971.8 140 30,581.9

100% Capacity

		Fluid	Co	oling Capac	ity ¹	Heating	Capacity ²
Model	CFM	Velocity (FPS)	EWT (°F)	TC (Btu/hr)	SC (Btu/hr)	EWT (ºF)	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 $^\circ$ F WB entering air, 45 $^\circ$ 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.







HCFR Horizontal Fan Coil Uncased - *Chilled / Hot Water / Electric Heat*



HCPR Horizontal Fan Coil with Plenum - *Chilled / Hot Water / Electric Heat*

HCPB 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 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.

Мо	Model		Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
	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
HCFR	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
	002	200	30.0	24.4	10.2	114
	003	300	30.0	24.4	10.2	114
HCPR/	004	400	37.5	24.4	10.2	144
HCPR/	006	600	44.0	24.4	10.2	157
псрр	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

Nominal Capacities

	HCFR, HCPR, HCPB								
		Cooling	Heating						
Model		Total Sensible			Total				
model	Rows	Capacity	Capacity	Rows	Capacity				
		BTUH**	BTUH**		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				
800	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.



Unit Sizes

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



- · 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 openinas.
- · 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 oneto 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.

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

75.0

75.0

......

28.0

28.0

13.1

13.1

245/215

256 / 226

Nominal Capacities

1,000

1,200

010

012

Unit Sizes

	HCRF, HCEF, HCEB									
		Cooling	Heating							
Model	Rows	Total Capacity	Sensible Capacity	Rows	Total Capacity					
		BTUH**	BTUH**		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*



Unit Sizes

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



Мс	Model		Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
	006	600	21.5	27.9	16.3	132
	008	800	25.5	27.9	16.3	144
	010	1,000	31.5	27.9	16.3	152
HPFR	012	1,200	37.5	27.9	16.3	162
	015	1,500	43.5	27.9	16.3	228
	018	1,800	49.5	27.9	16.3	270
	022	2,200	55.5	27.9	16.3	294
	006	600	21.5	31.2	17.2	150
	008	800	25.5	31.2	17.2	162
	010	1,000	31.5	31.2	17.2	174
HPPR / HPPB	012	1,200	37.5	31.2	17.2	180
	015	1,500	43.5	31.2	17.2	252
	018	1,800	49.5	31.2	17.2	300
	022	2,200	55.5	31.2	17.2	300

Nominal Capacities

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.

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

HPFR, HPPR, HPPB

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, 115/1/80, 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, 115/1/80, and high speed. 2-row coils rated at 150° F EWT and 70° F EAT with 30° F water temperature drop, 115/1/80, 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.

Nominal Shipping Depth (in.) Height (in.) Model Width (in.) CFM Weight (lb.) 47.5 156 006 600 48.8 18.5 008 800 47.5 48.8 18.5 174 010 1,000 47.5 48.8 18.5 180 HPRF 012 1,200 55.5 48.8 18.5 192 015 1,500 258 57 5 48 8 18 5 018 1,800 61.2 48.8 18.5 306 022 2,200 67.5 48.8 18.5 330 006 600 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 HPEF 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

Unit Sizes

	HPRF, HPEF								
		Cooling	Неа	Heating					
Model	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH***				
006	3	13,132	13,132	2	23,618				
800	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				
800	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*

Model		Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
	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
VCFS / VCFP	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 Cooling Heating Total Sensible Total Model Rows Capacity Rows Capacity Capacity BTUH** BTUH** BTUH*** 006 3 23,857 18,943 2 39,315 45,620 008 3 27,833 23,175 2 24,380 010 3 29,251 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 66,760 52,475 107,023 3 2 006 4 27,066 20,138 1 25,920 008 4 32,491 25,079 1 29,165 010 4 34,629 27,020 28,864 1 012 4 45,036 34,133 1 31,883 62,440 45,059 015 4 1 51,819 018 4 72,063 52,405 61,796 1 022 4 81,429 58,364 1 56,951

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 oneto 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.

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.



Unit Sizes

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*

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 quickconnect 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 1500hour 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, directexpansion (DX) and/or electric heat.

U	In	it	S	izes	

Model		Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
	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
VCBS /	010	1,000	20.4	20.3	57.8	181
VCBP	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
	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
VCRS /	010	1,000	30.1	27.1	46.0	219
VCRP	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						
		Cooling	1	He	eating			Cooling			Heating	
Model	Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH***	Model	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	
800	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	
800	4	26,168	21,556	1	26,758	800	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.

- 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*

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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.

Model		Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
	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
VWCS	006	600	44.3	10.0	22.0	156
	800	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

Unit Sizes

	Cooling		Hea	Alua au
			Tica	ung
Rows	Total Capacity BTUH**	Sensible Capacity BTUH**	Rows	Total Capacity BTUH***
3	7,499	5,648	2	11,997
3	7,756	5,845	2	12,644
3	15,749	11,117	2	23,292
3	17,353	12,020	2	24,526
3	31,672	22,904	2	49,453
3	35,599	25,511	2	54,667
3	40,582	29,714	2	62,917
	3 3 3 3 3 3 3 3 3 3 3	BTUH** 3 7,499 3 7,756 3 15,749 3 17,353 3 31,672 3 35,599 3 40,582	BTUH** BTUH** 3 7,499 5,648 3 7,756 5,845 3 15,749 11,117 3 17,353 12,020 3 31,672 22,904 3 35,599 25,511 3 40,582 29,714	BTUH** BTUH** 3 7,499 5,648 2 3 7,756 5,845 2 3 15,749 11,117 2 3 17,353 12,020 2 3 31,672 22,904 2 3 35,599 25,511 2

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*



Unit Sizes

Мо	Model		Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
	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
VWFT	006	600	55.3	11.3	26.0	246
	800	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

		VW	/FT			
		Cooling		Heating		
Model	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.

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 guick-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 $1/2^{\prime\prime}\,$ and $1^{\prime\prime}\,$ 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.



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



- Heavy-gauge galvanized steel cabinet with neoprene-coated 1/2¹ thick fiberglass insulation with 3.35 PCF density.
- Coils are made of 1/2" OD copper tube with aluminum fins (12 FP 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.

N	lodel	Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
	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
VWST	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
	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
VWSW	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
	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
VWRG	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

61.0

13.3

33.0

198

Nominal Capacities

1,200

012

		VWST, VW	SW, VWRG		
		Cooling	Hea	Heating	
Model	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
800	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 Nominal Shipping Model Width (in.) Depth (in.) Height (in.) CFM Weight (lb.) 004 400 53.0 16.5 14.2 162 VWLR 006 600 53.0 16.5 14.2 162 004 400 51.0 18.0 16.5 168 VWLF 006 600 51.0 18.0 16.5 170 004 400 18.0 16.5 168 51.0

51.0

18.0

16.5

170

Nominal Capacities

600

006

VWLT

VWLR, VWLF, VWLT								
		Heating						
Model	Rows Capacity Ca		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 springloaded 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.

Model		Nominal CFM	Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
	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
AHVS/	030	3,000	46.1	27.1	60.0	701
AHV9/	040	4,000	58.3	27.1	54.0	734
ALIVE	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

		· · ·								
				AH	VS, 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 C BTL	apacity JH**	Rows	Total Capacity BTUH**					
008	1	28,	321	2	42,631					
012	1	38,	320	2	66,536					
016	1	55,0	088	2	83,726					
020	1	67,6	648	2	103	,091				
030	1	92,6	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					
100	1	322,		2	480					
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. VAC for sizes 008-050, 208/3/60 VAC for sizes 060-120, and high speed.



Unit Sizes

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 springloaded 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.

Мо	Model		Width (in.)	Depth (in.)	Height (in.)	Shipping Weight (lb.)
	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
AHHS	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

Unit Sizes

	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								

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 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 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/replocator*



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