

# Vertical Series Fan Coils



150 to 1200 CFM

This family of units is versatile enough to fit nearly any vertical application. A wide variety of cabinet styles and capacities make these units the perfect solution for any project that demands perimeter or interior comfort conditioning.

Units are available with standard and high capacity hydronic coils and DX coils to meet individual space requirements. Filters can be replaced without tools and without removing the front panels making them one of the most maintenance friendly units available.

Flexibility and ease of service makes these units ideally suited for office buildings, nursing homes, schools and many other applications.

## APPLICATION FIT

Multiple cabinet choices are available in eight nominal sizes for applications in a variety of room layouts.

- The Vertical Cabinet Series (FXY) is available in seven nominal capacities. Units come with a powder paint finished cabinet that are ideal for perimeter air conditioning.
- The Vertical Sloped-top Cabinet Series (FSY) is designed for perimeter air conditioning. The slope-top design discourages the placement of objects on the supply grille.
- The Vertical Lowboy Cabinet Series (LXA/LXW) is ideal for low window sill height applications.
- The Vertical Hideaway Series (FHY/LHA/LHW) is tailored to recess into a wall or custom cabinetry by others to meet architectural needs.
- The Vertical Recessed Cabinet Series (STY/STW) is designed for applications where space is at a premium such as in a corridor, bathroom, or stairwell.

## DESIGN FLEXIBILITY

- Easy to use ratings program to speed up unit selection and project design.
- Standard and high capacity hydronic coils and DX coils (except STY, STW, LHA, LHW, LXA, LXW) are available to match the space heating and cooling loads.
- Optional powder paint finish colors and grille selections will complement most décor (FXY, FSY, LXA, LXW, STY, STW).
- Optional full finish back panel to cover units that are visible from the outside (FXY, FSY, LXA, LXW).
- Customizable cabinetry makes these units ideal for renovation jobs where special sizes are required or to fit oversized valve packages and controls.
- Optional airflow configuration (front supply) to meet certain design limitations.
- Manual or motorized air dampers are available to meet ventilation requirements and reduce field labor (not STY, STW).
- Wide variety of factory assembled valve packages to meet desired controls specifications.
- Optional condensate overflow switch to address the latest building codes where required.
- Wide variety of optional insulation materials available to address IAQ concerns.

## EASE OF INSTALLATION

- Factory assembled valve packages minimize the piping work at the job site.
- Optional unit mounted controls, service switches and fusing minimizes the electrical work required on site.
- Units are factory tagged for clear identification at the job site.
- Opposite end connection units may minimize the piping work on renovation jobs.
- Custom cabinetry facilitates installation by:
  - Deeper units allow piping to run along the wall thus minimizing the piping work while providing an insulated plenum that eliminates the need for outside air transitions on renovation jobs.
  - Wider units allow for same end piping and electrical connections to minimize the floor penetrations and eliminate the need for filler cabinetry.

## QUALITY AND SAFETY

- Every unit is tested and inspected at the factory for trouble free start-up.
- Optional camlocks are available to tamper-proof the units.
- UL, cUL, MEA listed, and ARI certified.

## EASE OF SERVICE

- All components are accessible by simply removing the front panel.
- Filters can be replaced without tools or removing the front panels on cabinet units (FXY, FSY).
- Blower and drain pan assembly slide out for service and cleaning.



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## FHY/FXY/FSY NOMINAL CAPACITY\*

Unit Size	Nominal CFM	Cooling		Heating	
		Rows	Total Capacity Range MBH**	Rows	Heating Capacity Range MBH***
02	200	3 or 4	4.8 - 6.6	1, 2	7.6 - 14.1
03	300	3 or 4	7.2 - 8.6	1, 2	9.3 - 19.4
04	400	3 or 4	11.2 - 13.1	1, 2	12.0 - 26.7
06	600	3 or 4	13.9 - 18.6	1, 2	13.5 - 38.8
08	800	3 or 4	18.5 - 20.6	1, 2	21.3 - 46.9
10	1000	3 or 4	22.0 - 29.5	1, 2	24.0 - 61.5
12	1200	3 or 4	26.3 - 35.3	1, 2	26.5 - 74.0

**NOTES:** \* For detailed capacities please visit our web site at [www.iec-okc.com](http://www.iec-okc.com) or contact your local representative

\*\* Ratings based on 80° DB and 67° WB EAT, 45° EWT with 10° water temperature rise

\*\*\* Ratings based on nominal CFM, 180° EWT and 70° EAT

1. Electric heat available from 1 KW to 6 KW
2. Steam and DX coils available
3. Maximum 5 combined (heating/cooling) rows

## LHA/LHW/LXA/LXW NOMINAL CAPACITY\*

Unit Size	Nominal CFM	Cooling		Heating	
		Rows	Total Capacity Range MBH**	Rows	Heating Capacity Range MBH***
02	200	2 or 3	5.1 - 5.5	1, 2	7.2 - 13.0
03	300	2 or 3	8.6 - 10.9	1, 2	9.5 - 20.0
04	400	2 or 3	12.3 - 13.4	1, 2	10.1 - 26.9
06	600	2 or 3	18.3 - 21.1	1, 2	14.6 - 40.6

**NOTES:** \* For detailed capacities please visit our web site at [www.iec-okc.com](http://www.iec-okc.com) or contact your local representative

\*\* Ratings based on 80° DB and 67° WB EAT, 45° EWT with 10° water temperature rise

\*\*\* Ratings based on nominal CFM, 180° EWT and 70° EAT

1. Electric heat available from 1 KW to 6 KW

## STY/STW NOMINAL CAPACITY\*

Unit Size	Nominal CFM	Cooling	
		Rows	Total Capacity Range MBH**
01	150	2	2.1
03	300	2	5.2

**NOTES:** \* For detailed capacities please visit our web site at [www.iec-okc.com](http://www.iec-okc.com) or contact your local representative

\*\* Ratings based on 80° DB and 67° WB EAT, 45° EWT with 10° water temperature rise

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## FSY/FXY PHYSICAL DATA - INCHES (MILLIMETERS)

Unit Size	FSY/FXY Width	FSY/FXY Depth	FSY Height	FXY Height
02	41" (1041)	9" (229)	28-3/4" (731)	25" (635)
03	45" (1143)	9" (229)	28-3/4" (731)	25" (635)
04	51" (1295)	9" (229)	28-3/4" (731)	25" (635)
06	61" (1549)	9" (229)	28-3/4" (731)	25" (635)
08	63" (1600)	9" (229)	28-3/4" (731)	25" (635)
10	77" (1950)	9" (229)	28-3/4" (731)	25" (635)
12	85" (2159)	9" (229)	28-3/4" (731)	25" (635)

**NOTE:** 1. All dimensions are +/- 1/4" (6)

## FHY PHYSICAL DATA - INCHES (MILLIMETERS)

Unit Size	Width	Depth	Height
02	25" (635)	9-1/4" (235)	25" (635)
03	29" (737)	9-1/4" (235)	25" (635)
04	35" (889)	9-1/4" (235)	25" (635)
06	45" (1143)	9-1/4" (235)	25" (635)
08	47" (1194)	9-1/4" (235)	25" (635)
10	61" (1549)	9-1/4" (235)	25" (635)
12	69" (1753)	9-1/4" (235)	25" (635)

**NOTES:** 1. All dimensions are +/- 1/4" (6)  
2. Auxiliary drain pan extends 5-3/4" (146) beyond width dimension

## LHA/LHW/LXA/LXW PHYSICAL DATA - INCHES (MILLIMETERS)

Unit Size	LXA/LXW Width	LHA/LHW Width	LXA/LXW Depth	LHA/LHW Depth	LXA Height	LXW Height	LHA Height	LHW Height
02	41" (1041)	23" (584)	12-1/4" (311)	11-1/8" (283)	14-1/2" (368)	16-1/2" (419)	14-3/8" (368)	16-3/8" (419)
03	46" (1168)	28" (711)	12-1/4" (311)	11-1/8" (283)	14-1/2" (368)	16-1/2" (419)	14-3/8" (368)	16-3/8" (419)
04	54" (1372)	36" (914)	12-1/4" (311)	11-1/8" (283)	14-1/2" (368)	16-1/2" (419)	14-3/8" (368)	16-3/8" (419)
06	68" (1727)	50" (1270)	12-1/4" (311)	11-1/8" (283)	14-1/2" (368)	16-1/2" (419)	14-3/8" (368)	16-3/8" (419)

**NOTES:** 1. All dimensions are +/- 1/4" (6)  
2. Auxiliary drain extends 6-1/4" (159) beyond the unit width on LHA/LHW units. Control box could extend up to 1-3/4" (44) beyond the width

## STY/STW PHYSICAL DATA - INCHES (MILLIMETERS)

Unit Size	STW Width	STY Width	STW/STY Bottom Depth	STW/STY Top Depth	STW/STY Height
01	25-3/4" (654)	15-3/4" (400)	7-1/8" (181)	5-1/8" (130)	23-1/2" (597)
03	39-3/4" (1010)	29-3/4" (756)	7-1/8" (181)	5-1/8" (130)	23-1/2" (597)

**NOTE:** 1. All dimensions are +/- 1/4" (6)



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