Engineered Comfort

VERTICAL HI-RISE FAN COIL UNITS WITH EPIC ECM OR 3-SPEED ECM MOTOR
TYPE M CONCEALED MASTER
2 PIPE OR 4 PIPE
MODEL SERIES: 39VH • UNIT SIZES 3 – 21

MODELS:

- ❑ **39VHZ** Chilled/Hot Water (2-pipe).
- ❑ **39VHZE** Chilled Water & Electric Heat (2-pipe).
- ❑ **39VHZW** Chilled & Hot Water (4-pipe).
- ❑ **39VHW** Hot Water (2-pipe).

STANDARD FEATURES:

- 20 ga. (1.0) galvanized steel casing.
- 1/2" (13), 2 lb/cu.ft. density water repellent fiberglass insulation.
- 1" (25) throwaway filter.
- Galvanized steel insulated drain pan.
- Factory installed P-Trap.
- Double deflection supply grille(s), see drawing 39VH/L-3.
- Front return panel (not shown, see drawing 39VH-6) with AW Appliance White powder coat finish.
- Factory installed piping package(s).

OPTIONS:

❑1/2" (13) Fiber-Free liner.
❑1/2" (13) Steri-liner.
❑1" (25) MERV 8 pleated filter.
❑Factory mounted risers.
❑Electric heat.
❑Stainless steel drain pan.
❑Drain pan float switch.
❑Toggle disconnect switch.
❑Outside air damper.
❑Thermostat / Controls (by Engineered Comfort).
❑Special features: _____ .

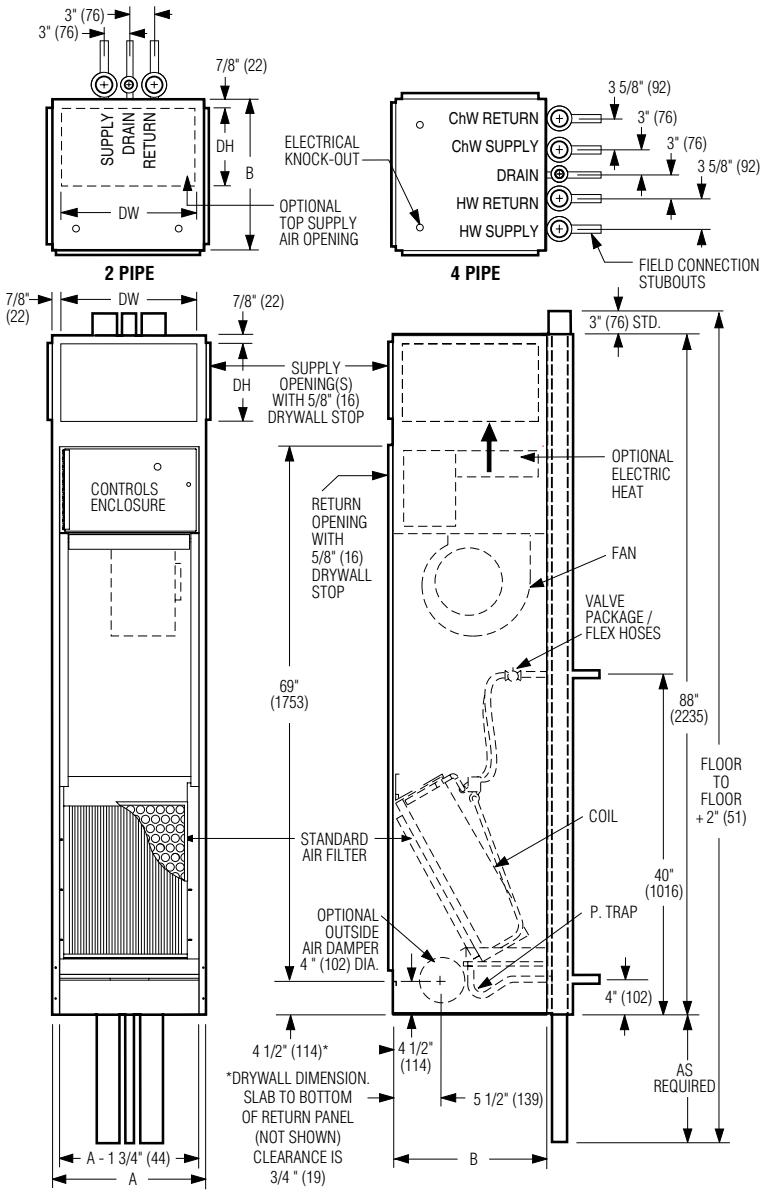
WATER COIL:

- 1/2" (13) Copper tubes with aluminum ripple fins.
- Manual air vents.
- Stainless steel flexible hose connections.

Coil Options:

2 Pipe system:
❑ 3 Row C/HW.
❑ 4 Row C/HW.
❑ 1 Row HW Only.
❑ 2 Row HW Only.
❑ 3 Row HW Only.

4 Pipe system:
❑ 3/1 CW/HW Rows.
❑ 3/2 CW/HW Rows.
❑ 4/1 CW/HW Rows.



Dimensional Data

Unit Size	Footprint A x B	Supply Grille Nominal DW x DH	Filter Size
3, 5, 6	18 x 18 (457 x 457)	16 x 10 (406 x 254)	13 1/8 x 16 3/4 (333 x 425)
8, 10	20 x 20 (508 x 508)	18 x 10 (457 x 254)	15 1/2 x 24 (394 x 610)
12, 15	24 x 24 (610 x 610)	22 x 10 (559 x 254)	18 1/2 x 29 (470 x 737)
19, 21	30 x 24 (762 x 610)	28 x 10 (711 x 254)	24 1/2 x 29 (622 x 737)

Intertek

AHRI CERTIFIED™ www.ahridirectory.org Room Fan-Coils AHRI Standard 440

NOTES:

1. Wiring from electrical entry knock-out to controls enclosure is furnished and field installed by others.
2. Risers available from 3/4" (19) to 3" (76) dia. with either 1/2" (13) or 3/4" (19) thick insulation.
3. Max. riser length is 120" (3048), 100" (2540) min.
4. Back riser location shown. See drawing 39VH/L-1 for available riser and discharge grille unit configurations.
5. All piping and insulation between master and slave unit is furnished and field installed by others.
6. Riser stubouts are approx. 4 1/2" (114) long. Water connections are 5/8" (16) O.D. and drain connection is 7/8" (22) O.D.
7. Factory mounted risers shown. See drawing 39VH/L-2 for shipped loose riser details.

Dimensions are in inches (mm).

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**5 - 15 - 26**	**39**	**8 - 5 - 16**	**39VH-4**

Engineered Comfort reserves the right to change any information concerning product or pricing without notice.

Electrical Data

Unit Size	EPIC ECM Motor FLA					3-Speed ECM FLA				
	Motor HP	120V	208V	240V	277V	Motor HP	120V	208V	240V	277V
3	*	—	—	—	—	1/3	1.6	1.1	1.1	1.0
5	*	—	—	—	—	1/3	2.0	1.4	1.4	1.2
6	*	3.6	2.3	2.2	2.0	1/3	2.5	1.8	1.7	1.6
8	*	—	—	—	—	1/3	3.4	2.4	2.3	2.1
10	*	6.8	4.0	4.3	3.6	1/2	4.7	3.3	3.2	2.9
12	*	—	—	—	—	3/4	5.3	3.7	3.7	3.3
15	*	8.7	5.8	5.4	4.6	3/4	8.0	5.6	5.5	5.0
19	*	12.7	8.5	7.8	6.5	1	11.9	8.3	8.2	7.4
21	*	—	—	—	—	1	12.5	8.8	8.6	7.8

* The EPIC ECM is a variable horsepower motor. Refer to Selectworks schedule for actual power consumption.
FLA = Full load amperage (high speed fan). All motors are single phase/60 Hz.

MOTOR OPTIONS:

❑ EPIC ECM. Ultra-high efficiency fan motor with overload protection. EPIC fan volume controller, 0–10 Vdc.

❑ 3-Speed ECM. Ultra-high efficiency fan motor with overload protection.

ELECTRIC HEAT:

- Class 'A' 80/20 Ni./Cr. wire.
- Automatic reset high limit cut-outs (one per element).
- Magnetic contactors per stage.

Voltage:

Single phase, 60 Hz.

❑ 120V ❑ 208V ❑ 240V ❑ 277V

Electric heat options:

❑ Door interlocking disconnect switch.
❑ Main fusing.
❑ Quiet contactors.
❑ Manual reset secondary Hi-limit thermal cut out.
❑ UV light w/safety switch.

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