# Engineered Comfort

## VERTICAL HI-RISE FAN COIL UNITS WITH EPIC ECM OR 3-SPEED ECM MOTOR
## TYPE C CONCEALED (STAND-ALONE)
## 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.
- ❑ Full riser chase.
- ❑ 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: _____ .

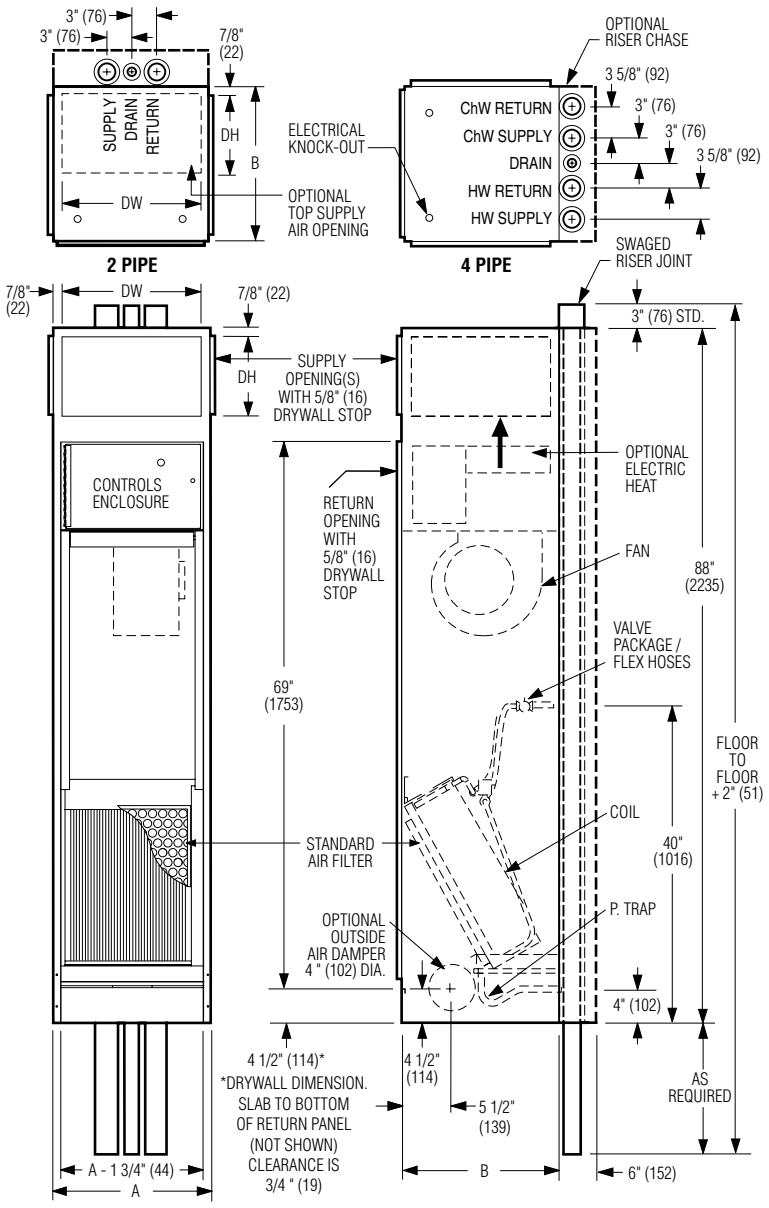
### WATER COIL:

- 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) |

**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. Factory mounted risers shown. See drawing 39VH/L-2 for shipped loose riser details.

Intertek

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


Dimensions are in inches (mm).

| SCHEDULE TYPE: | | | | |
|---|---|---|---|---|
| PROJECT: | | | | |
| ENGINEER: | DATE | B SERIES | SUPERSEDES | DRAWING NO. |
| CONTRACTOR: | 5 - 15 - 26 | 39 | 8 - 5 - 16 | 39VH-1 |

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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