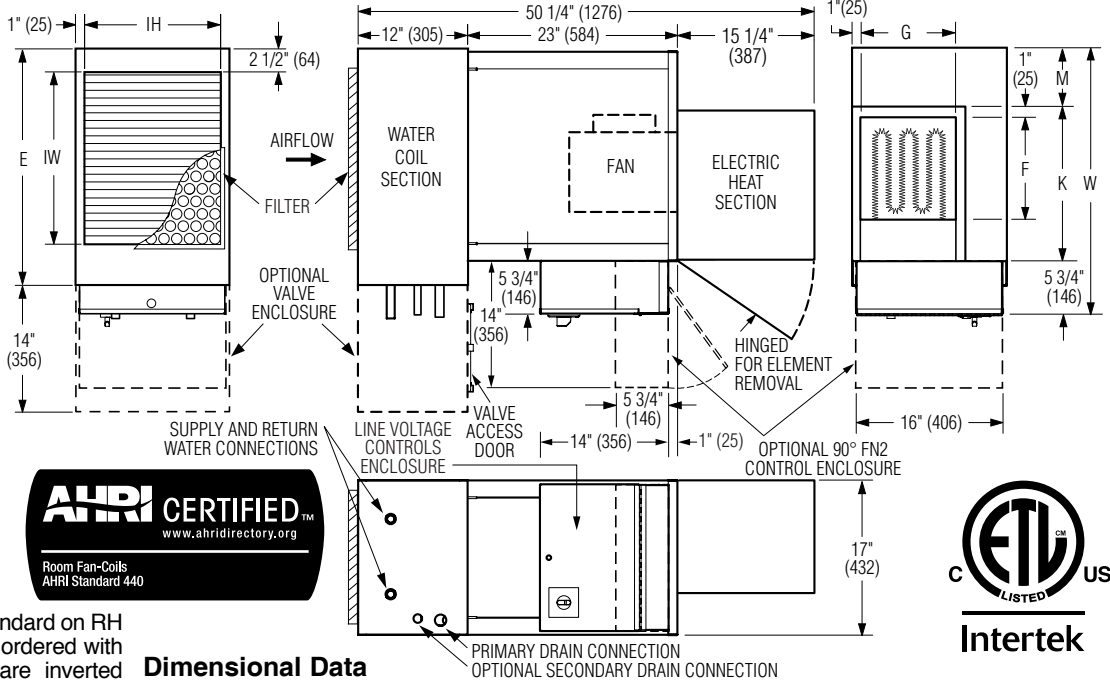




HIGH PERFORMANCE HORIZONTAL FAN COIL UNITS WITH 3-SPEED ECM OR PSC MOTOR
2 PIPE WITH ELECTRIC HEAT • DIRECT DRIVE DRAW THROUGH DESIGN
MODEL: 35FHZE • UNIT SIZES 4 – 24

STANDARD FEATURES:

- 18 ga. (1.3) galvanized steel channel frame with 20 ga. (1.0) casing components.
- 3/4" (19) dual density insulation, exposed edges coated to prevent air erosion. Meets the requirements of NFPA 90A and UL 181.
- Side and bottom full size access panels for ease of maintenance and service.
- Motor blower assembly mounted on special 16 ga. (1.6) angles and isolated from casing with rubber isolators.
- Single point electrical connection.
- Controls mounted as standard on RH side as shown. Fan coil ordered with LH controls (optional) are inverted and discharge duct hanging location will therefore change.
- 1" (25) throwaway fiberglass media filter.



Dimensional Data

Unit Size	Nominal CFM (l/s)	W	E	Inlet IW x IH	Outlet Duct Size F x G	K	M	Filter Size
4	400 (189)	28 3/4 (730)	26 (660)	19 x 15 (483 x 381)	8 7/8 x 10 1/2 (225 x 267)	16 1/2 (419)	6 1/2 (165)	20 x 16 (508 x 406)
6	600 (283)				11 1/4 x 10 1/2 (286 x 267)			
8	800 (378)				11 1/4 x 10 1/2 (286 x 267)			
10	1000 (472)	42 3/4 (1086)	40 (1016)	33 x 15 (838 x 381)	12 1/2 x 11 3/4 (318 x 298)	23 (584)	14 (356)	35 x 16 (889 x 406)
12	1200 (566)				13 7/8 x 11 3/4 (352 x 298)			
14	1400 (661)				13 7/8 x 11 3/4 (352 x 298)			
16	1600 (755)				15 1/8 x 11 3/4 (384 x 298)			

MOTOR OPTIONS:

- Energy efficient 3-Speed PSC fan motor with overload protection.
- Ultra-high efficiency 3-Speed ECM fan motor with overload protection.

WATER COIL SECTION:

- Installed on inlet as a draw through design.
- Coil (and header on multi-circuit units) is installed in insulated (fiber-free/foam) casing for increased thermal efficiency.
- 1/2" (13) copper tubes with aluminum ripple fins.
- Cooling coils include an insulated, galvanize steel drain pan with 3/4" (19) male NPT primary drain connection.
- Side and bottom access panels for inspection and coil cleaning.
- Right hand coil connection shown (looking in direction of airflow) is standard. Left hand is optional.

Coil Options:

- 2 Pipe system:
- 3 Row C/HW. 5 Row C/HW.
 - 4 Row C/HW. 6 Row C/HW.

ELECTRIC COIL SECTION:

- Hinged door with heater element module for easy access, removal and replacement of heater element without disturbing ductwork.
- Coil installed on unit discharge.
- Insulated coil element wrapper.
- Automatic reset high limit cut-outs (one per element).
- Flanged outlet duct connection.

Voltage:

- Single Phase, 60 Hz.:
- 120V 208V
 - 240V 277V
- Three phase, 60 Hz.:
- 208V
 - 480V (4 wire wye)

Electrical Data

Unit Size	3-Speed ECM Motor FLA					3-Speed PSC Motor FLA				
	Motor HP	120V	208V	240V	277V	Motor HP	120V	208V	240V	277V
4	1/3	1.5	1.4	1.4	0.9	1/10	1.5	0.7	0.7	0.6
6	1/3	2.9	1.9	1.9	1.5	1/6	2.5	1.1	1.2	1.1
8	1/3	3.3	2.2	2.2	1.9	1/6	2.7	1.3	1.3	1.2
10	1/3	3.6	2.4	2.4	2.4	1/4	3.8	1.9	1.9	1.5
12	1/2	4.3	2.8	2.7	2.9	1/4	4.1	2.0	2.0	1.6
14	1/2	5.1	3.4	3.4	3.2	1/3	4.6	2.3	2.3	2.0
16	3/4	6.0	4.0	4.0	3.7	1/3	7.1	3.0	3.0	2.7

FLA = Full load amperage (High Fan Speed). All motors are single phase/60 Hz.

Electric Coil Options:

- Door interlock disconnect switch.
- SCR Controls
- Power circuit fusing.
- Class 'A' 80/20 Ni./Cr. Wire.
- Dust tight construction.
- Manual reset secondary thermal cut-out.

Coil O.D. Sweat Connections

Unit Size	Number of Rows			
	3	4	5	6
4 – 8	7/8	7/8	7/8	7/8
10 – 16	7/8	7/8	7/8	1 1/8



SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

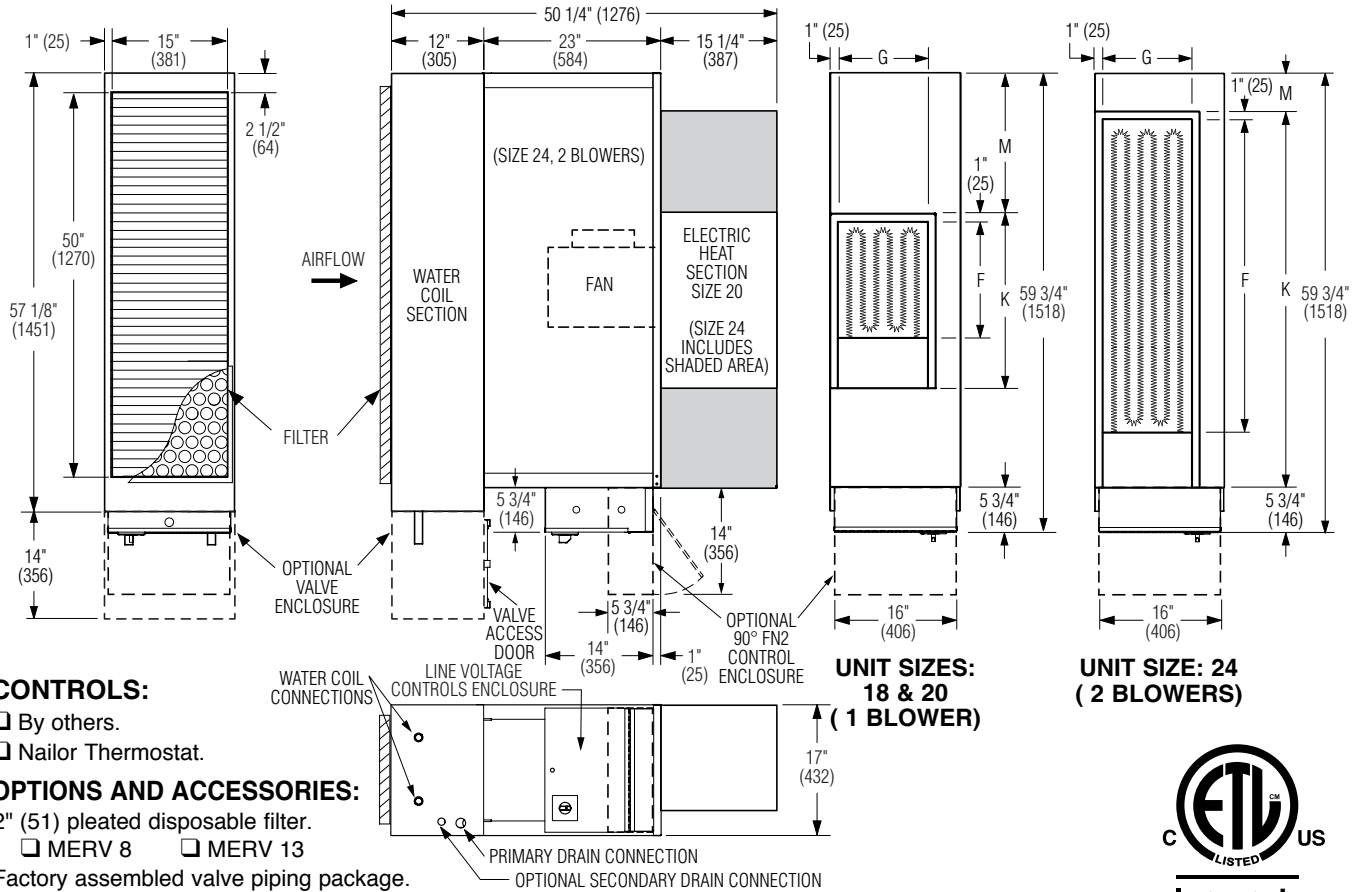
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Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
4 - 11 - 22	35FH	11 - 24 - 20	35FH-3



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WITH 3-SPEED ECM OR PSC MOTOR
2 PIPE WITH ELECTRIC HEAT • DIRECT DRIVE
DRAW THROUGH DESIGN
MODEL: 35FHZE • UNIT SIZES 4 – 24**



CONTROLS:

- By others.
- Nailor Thermostat.

OPTIONS AND ACCESSORIES:

- 2" (51) pleated disposable filter.
 - MERV 8
 - MERV 13
- Factory assembled valve piping package.
 - components shipped loose
 - mounted in full protective enclosure
- Stainless steel drain pan with drain connection.
- Secondary overflow drain connection, 1/2" (13) male NPT.
- Fiber-free liner.
- Perforated metal liner.
- Steri-liner.
- Steri-liner w/perf.
- 1" (25) fiberglass liner.
- Hanger brackets.
- LH controls location/configuration.
- Safety overflow float switch.
- Toggle disconnect switch.
- Ultraviolet light package.
- Ducted return filter rack connection (see separate submittal 35FH/37FH-FFR).
- Mixing Box (See separate submittal 35FH-MB).
- Outside Air Inlet (OAI) (see separate submittal 35FH-OAI).
- FN2 90° line voltage enclosure.
- FN3 Remote line voltage enclosure (see separate submittal FN3).
- Induced Air Silencer (see separate submittals 35FH-DSI and 35FH-DSIE).

**UNIT SIZES:
18 & 20
(1 BLOWER)**

**UNIT SIZE: 24
(2 BLOWERS)**



Dimensional Data

Unit Size	Nominal CFM (l/s)	Outlet Duct Size F x G	K	M	Filter Size
18	1800 (849)	15 1/4 x 11 3/4 (387 x 298)	23 (584)	18 3/8 (467)	52 x 16 (1321 x 406)
20	2000 (944)	15 1/4 x 11 3/4 (387 x 298)	23 (584)	18 3/8 (467)	
24	2400 (1133)	41 1/4 x 11 3/4 (1048 x 298)	49 (1245)	5 (127)	

Electrical Data

Unit Size	3-Speed Motor ECM FLA					3-Speed PSC Motor FLA				
	Motor HP	120V	208V	240V	277V	Motor HP	120V	208V	240V	277V
18	3/4	6.4	4.5	4.5	4.3	1/3	7.7	3.3	3.4	3.2
20	3/4	7.7	5.6	5.6	5.3	1/2	8.2	4.3	4.4	3.6
24	2 @ 1/3	9.4	6.0	6.0	6.1	2@ 1/3	8.4	4.0	4.0	3.6

FLA = Full load amperage (High Fan Speed). All motors are single phase/60 Hz.

Seismic Certification:

- SSI (Standard)
- OSHPD
- Special Features:



Coil O.D. Sweat Connections

Unit Size	Number of Rows
18 – 24	3, 4, 5 & 6
	1 1/8

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

DATE

B SERIES

SUPERSEDES

DRAWING NO.

4 - 11 - 22

35FH

11 - 24 - 20

35FH-3