

MODEL

- TVHC – Vertical High Performance Fan Coil Unit

FEATURES

- Heavy gauge galvanized steel construction
- 1/2" thick fiberglass insulation, Scrim reinforced foil faced fiberglass insulation (Optional),
- Elastomeric closed cell foam insulation (Optional)
- 1" duct discharge collar
- 1" flat filter rack with throwaway filters, 2" flat filter rack (Optional), 1" & 2" Merv 8 and Merv 13 filters (Optional), Spare filters (Optional)
- Removable access panels sized for easy handling
- Double deflection discharge grille (Optional)
- Quarter turn quick open access panel fasteners (Optional)
- Selectable Front or Bottom return and supply plenums (Optional)

COILS

- Cooling - 3 or 4 row chilled water
- Heating - 1 or 2 row hot water – reheat position
- 6 total rows of cooling and heating coils maximum
- 1/2" O.D. seamless copper tubes
- 0.016" tube wall thickness, 0.025" tube wall thickness (Optional)
- Stainless steel coil casings (Optional)
- Left- or Right-hand connections
- 450 PSIG working pressure at 200°F
- Removable for service
- Manual air vents, Automatic air vents (Optional)

DRAIN PANS

- Single wall, galvanized steel, externally insulated – fire retardant and antimicrobial closed cell foam
- Positively sloped to drain connection
- Condensate Overflow Switch (Optional)
- 3/4" MPT galvanized drain connection
- Single wall, stainless steel with external insulation (Optional)

FAN/MOTOR ASSEMBLIES

- Forward curved, DWDI centrifugal type
- 115, 208-230 & 277 volt, 1- phase, 3-speed PSC motors
- 115, 208-230 & 277 volt, 1- phase, 3-speed fixed EC and 3-speed adjustable, constant torque ECM spoked rotor EC motors (Optional)
- PWM Speed control options: ICM "Sync" 2-10V or ICM "Select" 3-speed (Optional)
- Quick disconnect motor connections
- Removable fan(s)/motor(s) for service



ELECTRICAL

- Electrical junction box for field wiring terminations
- Terminal block for field connections
- Front access electrical enclosure (Optional)
- SCR fan speed controller, only for high speed (Optional)
- Fan relay packages (Optional)
- Disconnect Switch: Toggle disconnect switch (Optional), Door interlocking disconnect switch (Optional)
- Main fusing (Optional)
- Unit and remote mounted three speed fan switches (Optional)

ELECTRIC HEAT

- Integral electric heat assembly with removable elements for easy service
- Automatic reset primary and back-up secondary manual thermal limits
- Single point power connection
- Hinged electrical enclosure
- Main fusing (Optional)

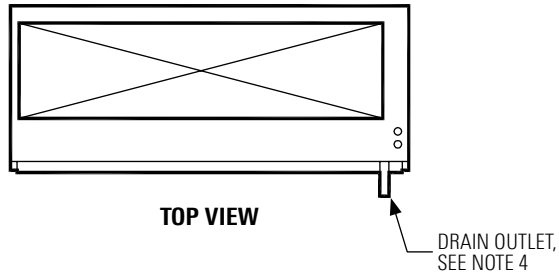
PIPING PACKAGES (OPTIONAL)

- 1/2", 3/4", 1", 1 1/4", 1 1/2" 2-way and 3-way, normally closed, 2-position electric motorized valves
- 1/2", 3/4", 1" piping packages factory-assembled and shipped loose with unions for field installation
- 1 1/4" and 1 1/2" piping packages ship as parts kit with instructions for field assembly and installation
- Isolation ball valves with memory stop
- 24V floating point modulating control valves, 0-10V proportional control valves
- Fixed (FC) and adjustable (PICV) flow control devices
- Unions, Y-strainers and P/T ports
- Remote mounted digital display and programmable thermostats

INLET DAMPER SECTION (OPTIONAL)

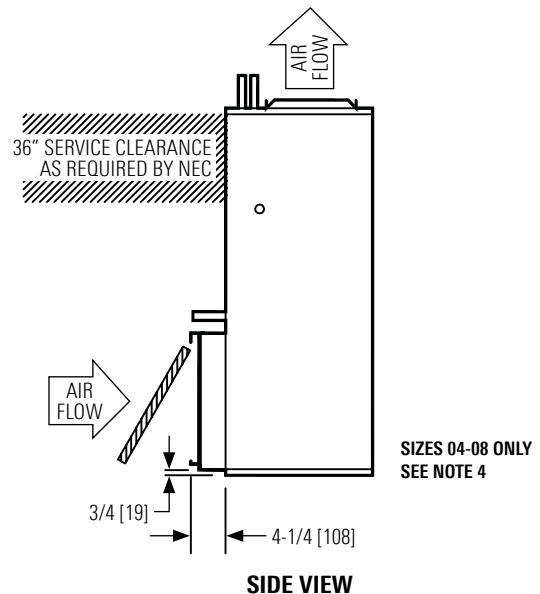
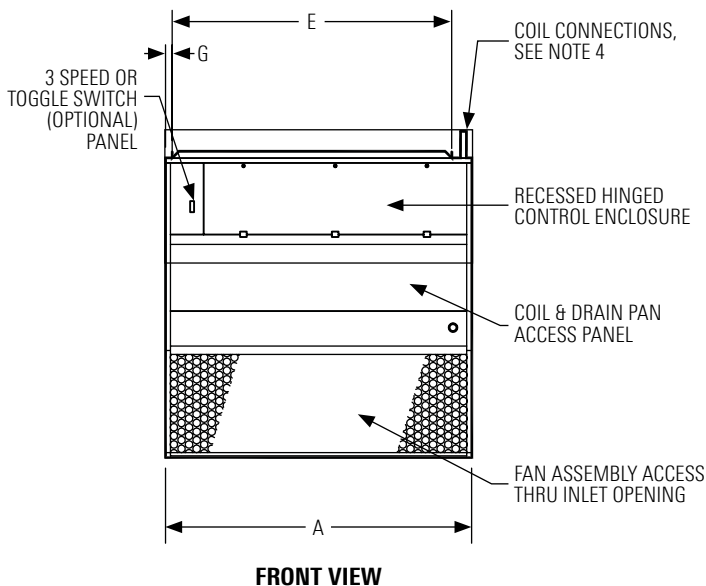
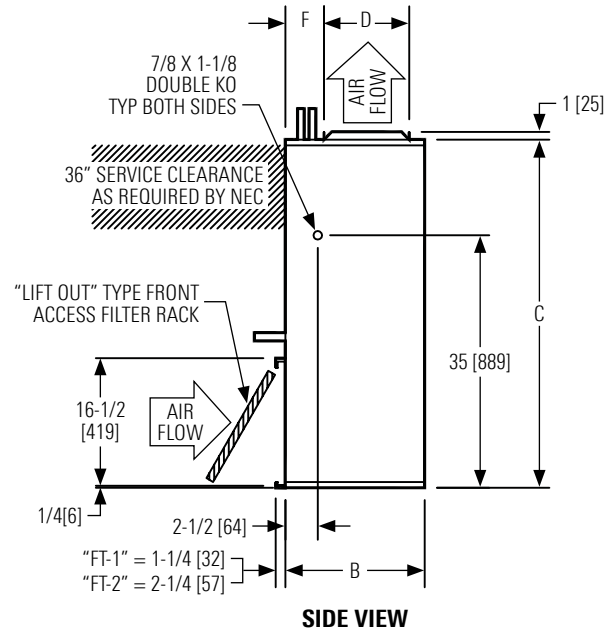
- Factory assembled and installed
- Heavy gauge galvanized steel formed blade dampers with parallel blade operation
- Low-leak dampers with extruded vinyl blade seals and flexible metal jamb seals

DIMENSIONAL DATA



CERTIFICATIONS

- AHRI 440 certified and labeled
- AHRI 410 certified and labeled Coils
- All units cETLus listed in compliance with UL/ANSI Standard 60335



NOTES:

1. Dimensions in parentheses are in millimeters (mm).
2. See table below for dimensional references.
3. Provide access clearance for electrical enclosure per local and national electrical code requirements.
4. Dimensions shown apply to filter access panel for unit sizes 04-08 only.

PERFORMANCE AND DIMENSIONAL DATA

Size	Performance						Dimensions													
Unit Size	CFM Range (Note 1)		AHRI Total Cooling Capacity (MBH) (Note 2)		AHRI Heating Capacity (Note 4)		A		B		C		D		E		F		G	
	PSC	ECM	Total Capacity	Sensible Capacity	1 row (MBH)	2 row (MBH)	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
04	485-600	240-475	13.6	9.4	12.5	21.2	22	559	15	381	48	1219	7 1/2	190	17	432	5 3/4	146	1 1/4	32
06	540-750	295-650	18	12.9	14.9	26.4	22	559	15	381	48	1219	7 1/2	190	17	432	5 3/4	146	1 1/4	32
08	850-1040	480-1100	24.3	17.2	20.5	36.3	22	559	15	381	48	1219	10	254	17	432	3 1/4	83	1 1/4	32
10	800-1250	475-1100	33.6	23	30.7	52.9	29	737	18	457	48	1219	12 3/4	324	24	610	3 3/4	95	1 1/4	32
12	1285-1475	550-1340	40.4	27.5	33.5	58.5	29	737	18	457	48	1219	12 3/4	324	24	610	3 3/4	95	1 1/4	32
16	1520-2200	790-1700	57.6	38.4	50.4	89	46	1168	18	457	48	1219	12 3/4	324	39	991	3 3/4	95	3	76
20	1540-2250	1000-2275	66.4	45.7	56	100.9	46	1168	18	457	48	1219	12 3/4	324	39	991	3 3/4	95	3	76

NOTES:

1. The minimum external static pressure required is .1 inches w.g.
2. Capacity based on 80°F DB and 67°F WB EAT, 45°F EWT, 10°F temperature rise, high fan speed, PSC motor. 4 - Row Coil 10 fpi. Airflow under dry coil conditions.
3. Airflow rate CFM on sizes 16 and 20 exceed maximum ratings in AHRI 440 and are therefore not certified.
4. Based on 70°F EAT, 180°F EWT, 20°F temperature drop, high fan speed.