

Dimensional Data

| Unit Size | Nominal CFM (l/s) | A | B | C | D | Filter Size |
|-----------|-------------------|-----------|---------------|---------------|---------------|------------------------|
| 3 | 300 (142) | 20 (508) | 26 1/2 (673) | 20 3/8 (518) | 22 5/8 (575) | 10 x 20 (254 x 508) |
| 4 | 400 (189) | 25 (636) | 31 1/2 (800) | 25 3/8 (645) | 27 5/8 (702) | 10 x 25 (254 x 635) |
| 6 | 600 (283) | 30 (762) | 36 1/2 (927) | 30 3/8 (772) | 32 5/8 (829) | 10 x 30 (254 x 762) |
| 8 | 800 (378) | 40 (1016) | 46 1/2 (1181) | 40 3/8 (1026) | 42 5/8 (1083) | 2@ 10 x 20 (254 x 508) |
| 12 | 1200 (566) | 50 (1270) | 56 1/2 (1435) | 50 3/8 (1286) | 52 5/8 (1337) | 2@ 10 x 25 (254 x 635) |
| 15 | 1500 (708) | 60 (1524) | 66 1/2 (1689) | 60 3/8 (1534) | 62 5/8 (1591) | 2@ 10 x 30 (254 x 762) |

Electrical Data

| Unit Size | Fan Qty. | Proportional ECM Motor FLA | | | | | 3-Speed ECM Motor FLA | | | | | 3-Speed PSC Motor FLA | | | | |
|-----------|----------|----------------------------|------|------|------|------|-----------------------|------|------|------|------|-----------------------|------|------|------|------|
| | | Motor HP | 120V | 208V | 240V | 277V | Motor HP | 120V | 208V | 240V | 277V | Motor HP | 120V | 208V | 240V | 277V |
| 3 | 1 | 1/4 | 1.8 | 0.8 | 0.7 | 0.7 | 1/8 | 1.8 | 0.8 | 0.7 | 0.7 | 1/30 | 0.7 | 0.4 | 0.5 | 0.4 |
| 4 | 1 | 1/4 | 2.3 | 1.4 | 1.4 | 1.2 | 1/8 | 2.3 | 1.4 | 1.4 | 1.2 | 1/15 | 1.3 | 0.8 | 0.8 | 0.8 |
| 6 | 2 | 1/4 | 2.1 | 1.5 | 1.3 | 1.2 | 1/8 | 2.1 | 1.5 | 1.3 | 1.2 | 1/10 | 1.7 | 0.9 | 0.9 | 0.9 |
| 8 | 2 | 1/4 | 2.8 | 1.9 | 1.8 | 1.6 | 1/4 | 2.8 | 1.9 | 1.8 | 1.6 | 1/6 | 2.1 | 1.0 | 1.1 | 1.0 |
| 12 | 3 | 2 @ 1/4 | 3.9 | 2.5 | 2.6 | 2.5 | 2 - 1/8, 1/4 | 3.9 | 2.5 | 2.6 | 2.5 | 2 - 1/6, 1/15 | 3.4 | 1.6 | 1.7 | 1.6 |
| 15 | 4 | 2 @ 1/4 | 4.4 | 3.0 | 2.9 | 2.7 | 2 @ 1/4 | 4.4 | 3.0 | 2.9 | 2.7 | 2 @ 1/6 | 4.1 | 2.0 | 2.1 | 2.0 |

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

| | | | | | |
|-----------------------|-------------|-------------------------------|-------------------|--------------------|--|
| SCHEDULE TYPE: | | Page 1 of 3. | | | |
| PROJECT: | | Dimensions are in inches (mm) | | | |
| ENGINEER: | DATE | B SERIES | SUPERSEDES | DRAWING NO. | |
| CONTRACTOR: | 4 - 3 - 23 | 40 | 4 - 11 - 22 | 40HP-1 | |



**LOW PROFILE HORIZONTAL FAN COIL UNITS
WITH PLENUM • PROPORTIONAL ECM, 3-SPEED ECM
OR PSC MOTOR • 2 & 4 PIPE COOLING/HEATING
MODEL: 40HP TYPES Z AND ZW**

TYPE:

Z Chilled/Hot Water
(2-pipe system)

Coil Options:

- 3 Row C/HW
- 4 Row C/HW

ZW Chilled & Hot Water
(4-pipe system)

Coil Options:

- 3/1 CW/HW Rows
- 4/1 CW/HW Rows
- 3/2 CW/HW Rows
- 4/2 CW/HW Rows

STANDARD FEATURES:

- Galvanized steel casing.
- 1/2" (13) dual density insulation, exposed edges coated to prevent air erosion. Meets the requirements of NFPA 90A and UL 181.
- Single point electrical connection.
- Discharge collar for duct connection.
- Standard controls enclosure is mounted on side opposite coil connections.
- Rear return (field changeable) with 1" (25) throwaway filter.

MOTOR OPTIONS:

- Ultra-energy efficient proportional ECM fan motor(s) with thermal overload protection.
- Energy efficient 3-Speed ECM fan motor(s) with thermal overload protection.
- 3-Speed PSC fan motor(s) with thermal overload protection.

WATER COIL SECTION:

- 1/2" (12.7) copper tubes with aluminum ripple fins.
- Cooling coils include a foam insulated, galvanized steel sloped drain pan with 7/8" (22.2) O.D. primary drain connection. Field reversible.
- Left hand unit / coil connection as shown (looking in direction of airflow) is standard. Right hand is opposite.
- Manual air vents.
- Sweat Connections:
All 5/8" (15.9) O.D. male solder except size 15 three and four row:
7/8" (22.2) O.D. male solder.

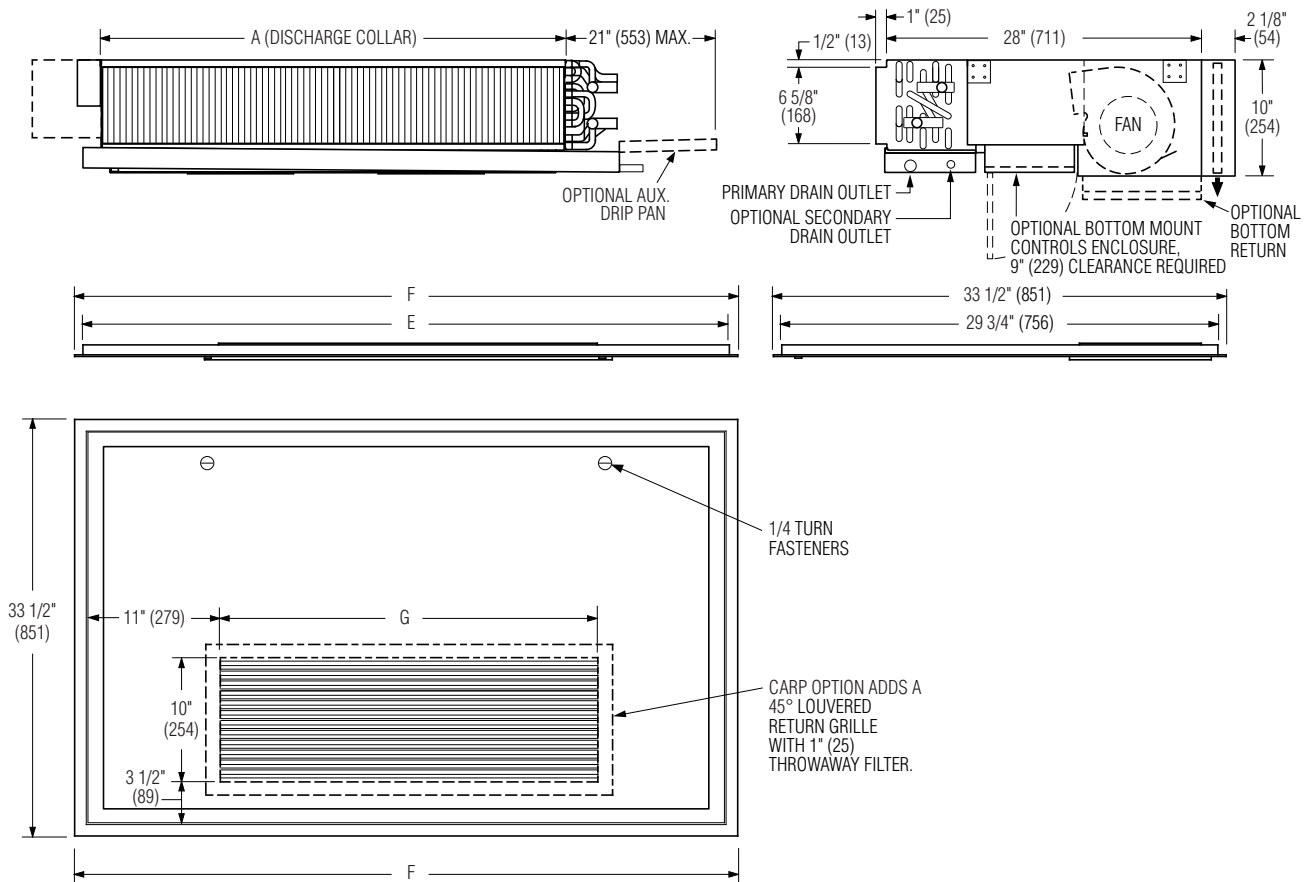
OPTIONS AND ACCESSORIES:

- Foil face fiberglass liner.
 - Closed cell foam liner.
 - 1" (25) filters
 - MERV 8 pleated.
 - MERV 8 pleated with spare.
 - Throwaway with spare.
 - Bottom return.
 - Bottom mounted hinged door controls enclosure.
 - Right hand unit/coil connection.
 - Toggle disconnect switch.
 - Drain pan float switch.
 - Factory assembled valve piping package (ships loose).
 - 5/8" (15.9) O.D. secondary drain connection.
 - Stainless steel drain pan.
 - Auxiliary drip pan (ship loose).
 - Outside Air Inlet (6" Left/Right/Back/Top Side).
 - Coil auto air vent(s).
 - Stainless steel coil casing.
 - 51FB Hinged filter grille (not available with CARP option).
 - Quiet type contactors.
 - Dust tight enclosure.
 - Main unit fusing.
 - Condensate pump.
 - 120V
 - 120/230V
 - Supply air, 51SV single deflection grille or 51DV double deflection grille.
- Seismic Certification:
- SSI (Standard)
 - OSHPD
 - Special Features: _____

| | | | | | |
|-----------------------|--|-------------|-----------------|-------------------|--------------------|
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BOTTOM PANEL ASSEMBLY

- CARP** Ceiling Access Return Air Panel (bottom return option only)
- CASP** Ceiling Access Solid Panel (rear return only)



Dimensional Data

| Unit Size | E | F | G | Filter Size |
|-----------|---------------|---------------|-----------|------------------------|
| 3 | 39 3/4 (1010) | 43 1/2 (1105) | 20 (508) | 10 x 20 (254 x 508) |
| 4 | 44 3/4 (1137) | 48 1/2 (1232) | 25 (635) | 10 x 25 (254 x 635) |
| 6 | 49 3/4 (1264) | 53 1/2 (1359) | 30 (762) | 10 x 30 (254 x 762) |
| 8 | 59 3/4 (1518) | 63 1/2 (1613) | 40 (1016) | 2@ 10 x 20 (254 x 508) |
| 12 | 69 3/4 (1772) | 73 1/2 (1867) | 50 (1270) | 2@ 10 x 25 (254 x 635) |
| 15 | 79 3/4 (2026) | 83 1/2 (2121) | 60 (1524) | 2@ 10 x 30 (254 x 762) |

NOTES:

- Left hand unit as shown, right hand unit is built as mirror image.
- 1/4-turn slotted fasteners. Qty. 2 for sizes 3 and 4, Qty. 3 for sizes 6 and 8, Qty. 4 for sizes 12 and 15.
- Minimum ceiling drywall opening should be cut as Panel Assembly neck dimension E x 29 3/4" (756) plus 1/4" (6).
- Standard finish is a durable baked enamel powder coat, AW appliance white powder finish. Custom colors are available.



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PROJECT:

ENGINEER:

CONTRACTOR:

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