



**UNDERFLOOR FAN BOOSTER UNIT WITH  
ECM MOTOR  
SHORT CASING  
MODELS: 38F, 38FW & 38FE • UNIT SIZE 3S**

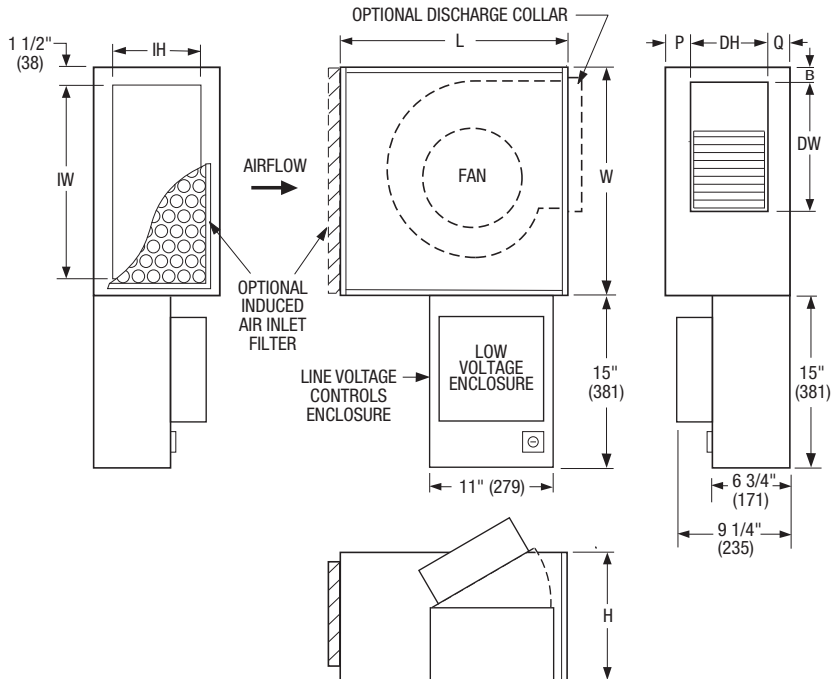
**STANDARD FEATURES:**

- Shorting casing design saves space and allows unit fan to be accessed through a single floor tile.
- 20 ga. (1.0) galvanized steel casing components.
- Full size top access panel.
- Discharge opening designed for flanged duct connection.
- 1/2" (13) dual density insulation, exposed edges coated to prevent air erosion. Meets requirements to NFPA 90A and UL181.
- Ultra-high efficiency ECM fan motor. EPIC fan volume controller.
- Motor blower assembly mounted on special 16 ga. (1.6) angles and isolated from casing with rubber isolators.
- Single point electrical connection.
- Top access hinged door on the line voltage/fan controls enclosure.
- Controls mounted as standard on RH side as shown. Terminals ordered with LH controls (optional) are inverted and discharge duct location/elevation will therefore change.

**OPTIONS:**

- Filter frame and 1" (25) disposable filter.
- Toggle disconnect switch.
- Fiber-free liner.
- Perforated metal liner.
- Steri-liner.
- Isolator pads.
- Fan unit fusing.
- Left hand controls location.
- Discharge collar.  
12" flat oval for flexible duct connection 14 1/4" x 7 3/4" (362 x 197).
- Special features: \_\_\_\_\_.

**Model 38F Basic Unit**



**Dimensional Data. Imperial Units (inches)**

Unit Size	W	H	L	B	P	Q	Inlet IW x IH	Outlet Discharge DW x DH	Filter Size
3S	20	11	20	1 3/8	2	2	17 x 8	11 1/4 x 7	19 x 10

**Dimensional Data. Metric Units (mm)**

Unit Size	W	H	L	B	P	Q	Inlet IW x IH	Outlet Discharge DW x DH	Filter Size
3S	508	279	508	35	51	51	432 x 203	286 x 178	483 x 254

**Electrical Data**

Unit Size	Motor H.P.	ECM Motor			
		Voltage	120/1/60	208/240/1/60	277/1/60
3S	1/3	Watts	410	400	430
		FLA	5.7	2.8	3.1



FLA = Full load amperage

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Page 1 of 2.  
Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
8 - 20 - 08	38F	8 - 13 - 07	38F-2



**UNDERFLOOR FAN BOOSTER UNIT WITH  
ECM MOTOR  
SHORT CASING • HEAT ACCESSORIES  
MODELS: 38FW & 38FE • UNIT SIZE 3S**

**Hot Water Coil Section  
Model 38FW**

**Standard Features:**

- Coil section installed on unit discharge.
- Coil (and header on multi-circuit units) is installed in insulated casing for increased thermal efficiency.
- 1/2" (13) copper tubes.
- Aluminum ripple fins.
- Sweat connections: One Row 1/2" (13) O.D. male solder. Two and three row 7/8" (22) O.D. male solder.
- Top access panel for inspection and coil cleaning.
- Flanged outlet duct connection.

**Coil Rows:**

- 1-Row  2-Row  3-Row

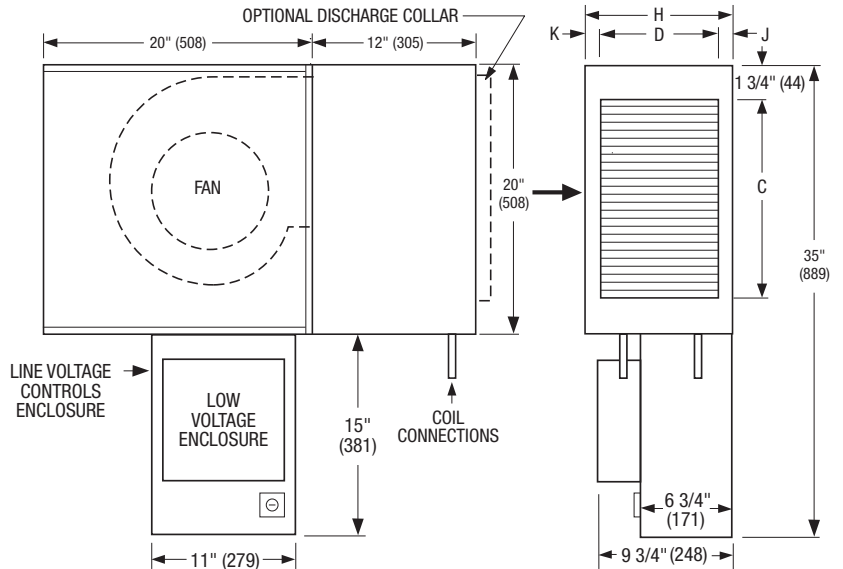
**Coil Connections:**

(Looking in direction of airflow).

- Right hand (illustrated). Standard.  
 Left hand. Optional.

**Option:**

- Discharge collar for flexible duct  
(see page 1 for dimensional data).



Unit Size	Imperial Units (inches)			Metric Units (mm)				
	Outlet Discharge C x D	H	J	K	Outlet Discharge C x D	H	J	K
3S	14 3/4 x 8 3/4	11	1 1/8	1 1/8	375 x 222	278	29	29

**Electric Coil Section Model 38FE**

**Standard Features:**

- Coil installed on unit discharge.
- Insulated heater element wrapper.
- Automatic reset high limit cut-outs (one per element).
- Flanged outlet duct connection.
- Airflow safety switch to prove airflow.
- Single Point electrical connection for entire terminal unit.
- Terminal unit with heater is ETL listed as an assembly.
- Controls mounted as standard on RHS as shown.

**Voltage:**

Single phase, 60 Hz.  208V  240V  277V

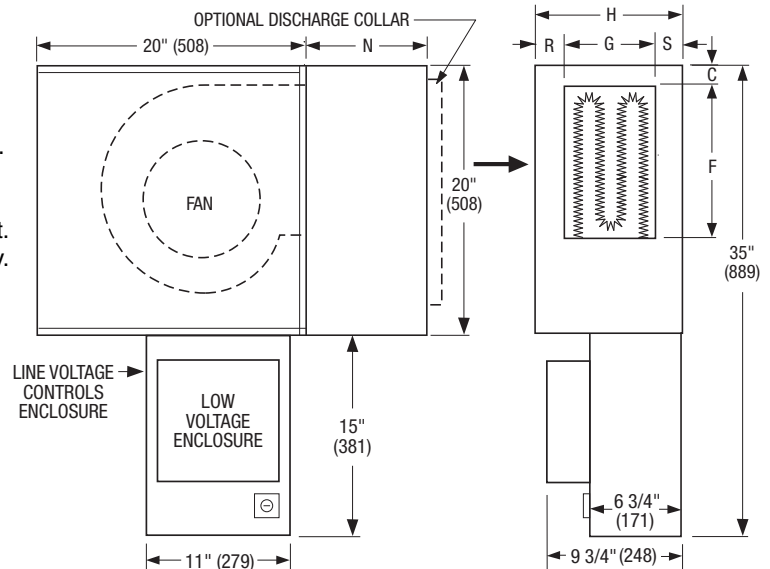
Three phase, 60 Hz. (Unit Size 3 and 5 only)

208V  480V (4 wire wye).

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**Options:**

- Toggle disconnect switch.
- Door interlock disconnect switch.
- Mercury contactors.
- Power circuit fusing.
- Class 'A' 80/20 Ni./Cr. Wire.
- Dust tight construction.
- Manual reset secondary thermal cut out.
- Discharge collar for flexible duct  
(see page 1 for dimensional data).



Unit Size	Imperial Units (inches)						Metric Units (mm)					
	Outlet Discharge F x G	H	N	C	R	S	Outlet Discharge F x G	H	N	C	R	S
3S	11 x 7 3/4	11	9	1	1 5/8	1 5/8	279 x 197	278	229	25	41	41

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Page 2 of 2.  
Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
8 - 20 - 08	38F	8 - 13 - 07	38F-2