



UNDERFLOOR FAN POWERED TERMINAL UNIT
SERIES FLOW • CONSTANT VOLUME
ECM MOTOR
MODELS: 38S, 38SW & 38SE • UNIT SIZES: 1, 3 & 5

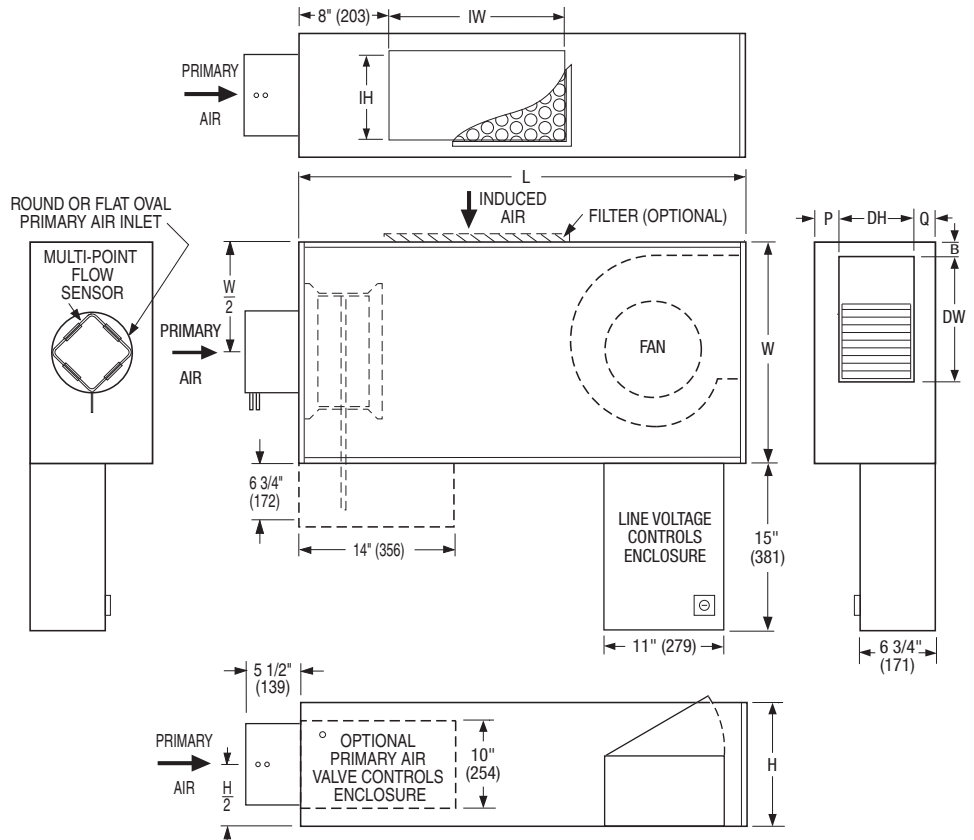
Model 38S Basic Unit

STANDARD FEATURES:

- 20 ga. (1.0) galvanized steel casing components.
- 16 ga. (1.6) galvanized steel inclined opposed blade damper. 45° rotation. CW to close.
- Multi-point averaging flow sensor.
- Full size top access panel.
- Ultra-high efficiency ECM fan motor. EPIC fan volume controller.
- 1/2" (13) dual density insulation, exposed edges coated to prevent air erosion. Meets requirements to NFPA 90A and UL181.
- Single point electrical connection.
- Discharge opening for flanged duct connection.
- Top access hinged door on the line voltage/fan controls enclosure.
- Full primary air valve low voltage enclosure for factory mounted DDC and analog electronic controls.
- 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:

- Toggle disconnect switch.
- Fiber-free liner.
- Perforated metal liner.
- Steri-liner.
- Solid metal liner.
- Isolator pads.
- Fan Unit fusing.
- Special features: _____.



Dimensional Data. Imperial Units (inches)

Unit Size	Inlet Size	W	H	L	B	P	Q	Inlets IW x IH	Outlet Discharge DW x DH	Filter Size
1	4, 5, 6	20	8 1/2	40	1 3/8	4	3/4	8 x 6	7 1/8 x 3 3/4	10 x 7
3	6, 8, 10	20	11	40	1 3/8	2	2	15 3/4 x 8	11 1/4 x 7	18 x 10
5	10, 12*, 14*	20	15	49	1 1/4	2	4 3/4	14 x 10 1/2	11 3/8 x 8 1/4	16 x 14

Dimensional Data. Metric Units (mm)

Unit Size	Inlet Size	W	H	L	B	P	Q	Inlets IW x IH	Outlet Discharge DW x DH	Filter Size
1	4, 5, 6	508	216	1016	35	102	19	203 x 152	181 x 95	254 x 179
3	6, 8, 10	508	279	1016	35	51	51	400 x 203	286 x 178	457 x 254
5	10, 12*, 14*	508	381	1245	32	51	121	356 x 267	289 x 210	406 x 356

Electrical Data

Unit Size	Motor H.P.	ECM Motor FLA			
		Voltage	120/1/60	208/240/1/60	277/1/60
1	1/3	Watts	277	276	270
		FLA	3.7	1.9	1.9
3	1/3	Watts	420	450	410
		FLA	5.8	3.4	2.9
5	3/4	Watts	930	1080	940
		FLA	12.6	6.2	5.5

FLA = Full load amperage

*** Oval Inlet Dimensions**

Size	PW x PH	
	inches	mm
12	12 13/16 x 9 13/16	329 x 249
14	16 1/16 x 9 13/16	408 x 249



SCHEDULE TYPE:
 PROJECT:
 ENGINEER:
 CONTRACTOR:

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

DATE	B SERIES	SUPERSEDES	DRAWING NO.
4 - 20 - 09	38F	3 - 9 - 09	38S-1



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Hot Water Coil Section Model 38SW

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 ripper fins.
- Sweat connections: One Row 1/2" (13) O.D. male solder. Two row 7/8" (22) O.D. male solder.
- Top and bottom access panels for inspection and coil cleaning.
- Flanged outlet duct connection.

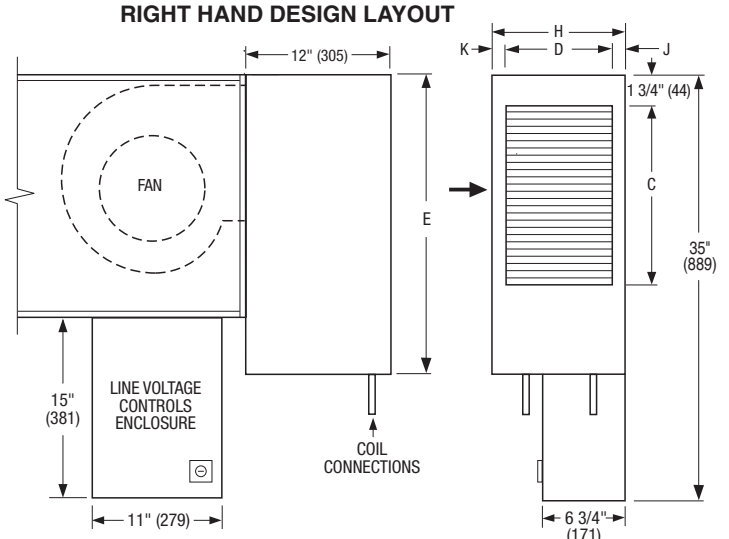
Coil Rows:

- 1-Row 2-Row

Coil Connections:

(Looking in direction of airflow).

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



Unit Size	Imperial Units (inches)					Metric Units (mm)				
	Outlet Discharge C x D	H	E	J	K	Outlet Discharge C x D	H	E	J	K
1	14 3/4 x 5 3/4	8 1/2	20	1	1 3/4	375 x 146	216	508	25	44
3	14 3/4 x 8 3/4	11	20	1 1/8	1 1/8	375 x 222	278	508	29	29
5	20 x 12 1/2	15	24 3/4	1 1/4	1 1/4	508 x 318	381	629	32	32

Electric Coil Section Model 38SE

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 RH side as shown. Terminal ordered with LH controls (optional) are inverted and discharge duct location/elevation will change.

Voltage:

Single phase, 60 Hz.

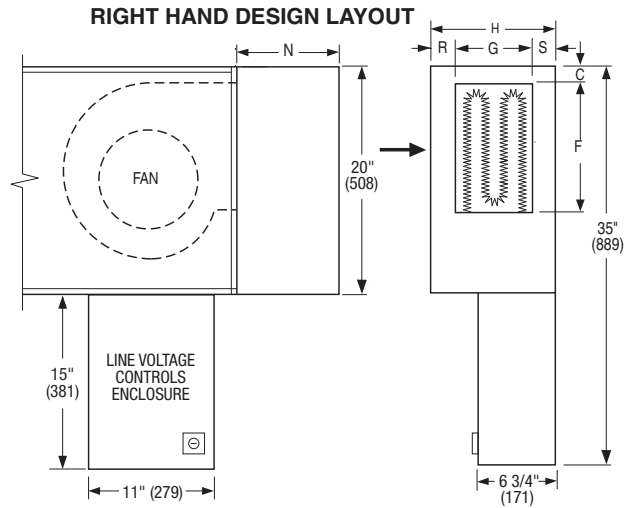
- 208V 240V 277V

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

- 208V 480V (4 wire wye).

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.



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
1	8 1/4 x 6	8 1/2	9	1 3/8	1	1 1/2	210 x 152	216	229	35	25	38
3	11 x 7 3/4	11	9	1	1 5/8	1 5/8	279 x 197	278	229	25	41	41
5	12 x 8 3/4	15	13 3/4	1	1	5 1/4	305 x 222	381	352	25	25	133

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