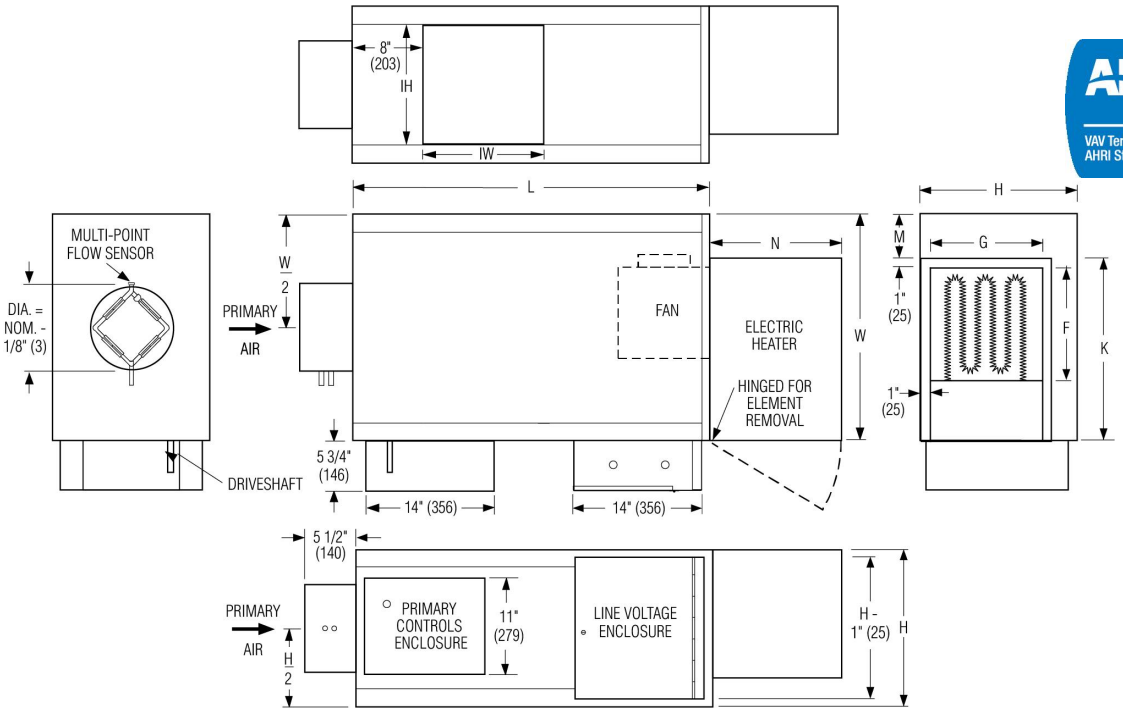
Item	Qty	Model Option Codes	Tag 1	Unit Size	Max Cooling	Min Cooling	Aux. Min	Max Primary	Min Primary	Fan Airflow	kW
1	1	D35SE	FPVAV-32-01	310				1200	400	1200	11.5
		310 - SP - V6 - NB - MN - OR - FDD - CF - FN - FN1 - 4803 - SCRA - FIR									
2	1	D35SE	FPVAV-32-02	714				2400	800	2400	22.9
		714 - SP - V6 - NB - MN - OR - FDD - CF - FN - FN1 - 4803 - SCRA - FIR									
4	1	D35SE	FPVAV-33-01	410				1500	500	1500	14.3
		410 - SP - V6 - NB - MN - OR - FDD - CF - FN - FN1 - 4803 - SCRA - FIR									
5	1	D35SE	FPVAV-33-02	410				1500	500	1500	14.3
		410 - SP - V6 - NB - MN - OR - FDD - CF - FN - FN1 - 4803 - SCRA - FIR									
6	1	D35SE	FPVAV-33-03	310				1200	400	1200	11.5
		310 - SP - V6 - NB - MN - OR - FDD - CF - FN - FN1 - 4803 - SCRA - FIR									
7	1	D35SE	FPVAV-34-01	410				1500	500	1500	14.3
		410 - SP - V6 - NB - MN - OR - FDD - CF - FN - FN1 - 4803 - SCRA - FIR									
8	1	D35SE	FPVAV-34-02	310				1200	400	1200	11.5
		310 - SP - V6 - NB - MN - OR - FDD - CF - FN - FN1 - 4803 - SCRA - FIR									
9	1	D35SE	FPVAV-35-01	410				1500	500	1500	14.3
		410 - SP - V6 - NB - MN - OR - FDD - CF - FN - FN1 - 4803 - SCRA - FIR									
10	1	D35SE	FPVAV-35-02	308				925	300	925	8.8
		308 - SP - V6 - NB - MN - OR - FDD - CF - FN - FN1 - 4803 - SCRA - FIR									
11	1	D35SE	FPVAV-35-03	208				750	250	750	7.2
		208 - SP - V6 - NB - MN - OR - FDD - CF - FN - FN1 - 4803 - SCRA - FIR									
12	1	D35SE	FPVAV-35-04	208				700	225	700	6.7
		208 - SP - V6 - NB - MN - OR - FDD - CF - FN - FN1 - 4803 - SCRA - FIR									
13	1	D35SE	FPVAV-35-05	208				750	250	750	7.2
		208 - SP - V6 - NB - MN - OR - FDD - CF - FN - FN1 - 4803 - SCRA - FIR									
14	1	D35SE	FPVAV-35-06	310				1150	400	1150	11.0
		310 - SP - V6 - NB - MN - OR - FDD - CF - FN - FN1 - 4803 - SCRA - FIR									
16	1	D30RE	VB-32-01	10	1000	1000	1000				8.0
		10 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA									
17	1	D30RE	VB-32-02	10	850	275	650				5.2
		10 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA									
18	1	D30RE	VB-32-03	08	550	175	400				3.2
		08 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA									

Item	Qty	Model Option Codes	Tag 1	Unit Size	Max Cooling	Min Cooling	Aux. Min	Max Primary	Min Primary	Fan Airflow	kW
19	1	D30RE 08 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-32-04	08	575	175	400				3.2
20	1	D30RE 08 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-32-05	08	500	175	375				3.0
21	1	D30RE 12 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-32-06	12	1600	600	1200				9.5
22	1	D30RE 10 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-32-07	10	900	300	675				5.4
24	1	D30RE 12 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-33-01	12	1700	600	1275				10.1
25	1	D30RE 10 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-33-02	10	725	225	525				4.2
26	1	D30RE 08 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-33-03	08	600	200	450				3.6
27	1	D30RE 12 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-33-04	12	1200	400	900				7.2
28	1	D30RE 10 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-33-05	10	900	300	675				5.4
29	1	D30RE 12 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-33-06	12	1200	300	900				7.2
30	1	D30RE 08 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-33-07	08	600	600	600				4.8
31	1	D30RE 06 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-33-08	06	300	100	225				1.8
32	1	D30RE 06 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-34-.01	06	450	150	350				2.8
33	1	D30RE 14 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-34-.02	14	2000	700	1500				11.9
34	1	D30RE 06 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-34-.03	06	400	125	250				2.0
35	1	D30RE 08 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-34-.04	08	600	200	450				3.6
36	1	D30RE 14 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA	VB-34-.05	14	2250	750	1675				13.3

Item	Qty	Model Option Codes	Tag 1	Unit Size	Max Cooling	Min Cooling	Aux. Min	Max Primary	Min Primary	Fan Airflow	kW
37	1	D30RE	VB-34-.06	06	450	150	350				2.8
		06 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA									
38	1	D30RE	VB-34-.07	06	475	125	350				2.8
		06 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA									
39	1	D30RE	VB-34-.08	08	650	225	475				3.8
		08 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA									
40	1	D30RE	VB-34-.09	14	2000	700	1500				11.9
		14 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA									
41	1	D30RE	VB-35-01	08	675	675	675				5.4
		08 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA									
42	1	D30RE	VB-35-02	06	350	125	125				2.0
		06 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA									
43	1	D30RE	VB-35-03	14	2000	700	1500				11.9
		14 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA									
44	1	D30RE	VB-35-04	14	2000	700	1500				11.9
		14 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA									
45	1	D30RE	VB-35-05	08	600	600	150				1.2
		08 - NB - OR - QD2 - FDD - FN - 4803 - SCRA - BA									
46	1	D35SEST	FPVAV-32-03	208				600	200	600	5.7
		208 - SP - V6 - NB - MN - MA - OR - FDD - DF - FN - FV - FN1 - 4803 - SCRA - FIR - BBQF									

Items: 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14; Tags: FPVAV-32-01; FPVAV-33-01; FPVAV-33-02; FPVAV-33-03; FPVAV-34-01; FPVAV-34-02; FPVAV-35-01; FPVAV-35-02; FPVAV-35-03; FPVAV-35-04; FPVAV-35-05; FPVAV-35-06



Right-hand controls location shown

DIMENSIONAL DATA

Unit Size	Inlet Size	W	H	L IW x IH	Inducted Air Inlet IW x IH	Outlet Duct Size F x G	K	M
2	8 (203)	18 (457)	14 (356)	36 (914)	8 x 10 (203 x 254)	10 1/4 x 10 1/2 (260 x 267)	15 1/2 (394)	2 1/2 (64)
3	10 (254)	18 (457)	18 (457)	36 (914)	12 x 14 (305 x 356)	10 1/4 x 10 1/2 (260 x 267)	15 1/2 (394)	2 1/2 (64)
3	8 (203)	18 (457)	18 (457)	36 (914)	12 x 14 (305 x 356)	10 1/4 x 10 1/2 (260 x 267)	15 1/2 (394)	2 1/2 (64)
4	10 (254)	26 (660)	18 (457)	41 (1041)	14 x 14 (356 x 356)	13 x 10 1/2 (330 x 267)	21 (533)	5 (127)

N	277V FLA
12 1/2 (318)	2.6
15 1/4 (387)	3.3

Project:	Schneider Elec 4-28	**Date:**	8/27/2025
Engineer:		**Version No:**	
Contractor:			

Dimensions are in inches (mm)

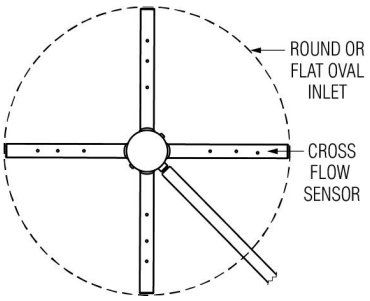
N	277V FLA
15 1/4 (387)	3.3
15 1/4 (387)	4.2

*The ECM is a variable horsepower motor

FEATURES

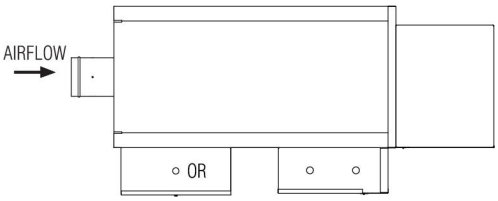
- 18 ga. (1.31) galvanized steel channel frame with 20 ga. (1.00) casing components
- 16 ga. (1.61) galvanized steel inclined opposed blade damper, 45° rotation, CW to close
- CF - Multi-point averaging Cross Flow sensor. Supplied with balancing tees. (4" and 5" supplied with annubar sensor.)
- Full size access panels on three sides
- Discharge opening designed for flanged duct connection
- Ultra-high efficiency ECM fan motor, EPIC fan volume controller
- 24 VAC Control Transformer
- Class A 80/20 Ni/Cr wire
- Externally insulated heater element wrapper
- Automatic reset high limit cut-outs (one per element)
- Magnetic contactor per stage
- Damper Actuator: Not Provided
- EPIC card option fan status (on/off) contact closure not included
- SP - Single point electrical connection
- V6 - Fan Motor Voltage: 277V EPIC ECM/1 phase
- NB - Controls: By Others (Field Mounted)
- MN - EPIC Fan Card: Manual volume control
- OR - Right-hand controls location standard (shown)
- FDD - 3/4" (19) Dual Density Fiberglass Liner
- FN - Full NEMA 1 type 24V Controls Enclosure
- FN1 - Standard flush mount line voltage enclosure
- 4803 - Electric Coil: 480 volt/3 phase/4-wire
- SCRA - SCR with 4-20 mA Control
- FIR - Electronic fan interlock relay

CF - Cross Flow Sensor



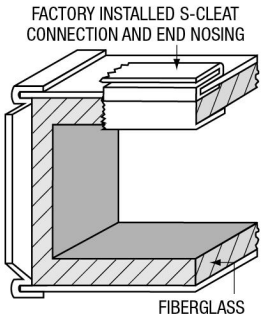
- Multi-point center averaging
- UL 94-VO Fire resistant polycarbonate
- 4" and 5" inlets are annubar

OR/FN1 - Top View Orientation- Controls Location



Right Hand Controls Location

FDD - Dual Density Fiberglass Liner



• 3/4" (19) thick dual density insulation, minimum 1.5 lb./cu.ft (24 kg/m3) density with exposed edges coated to reduce air erosion

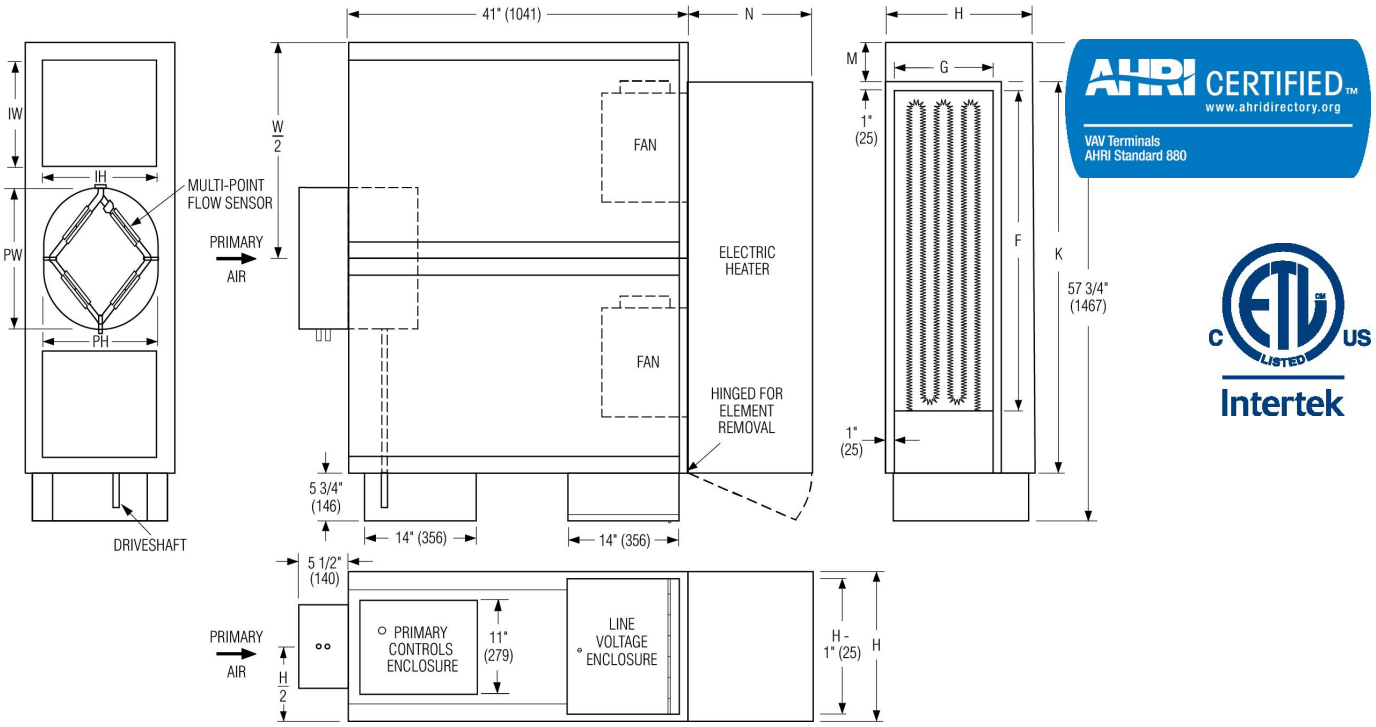
Meets requirements:

• UL 181 & 723
• NFPA 90A & 90B
• ASTM E 84 & C 1071
• CAN/ULC S102-M88

Project: Schneider Elec 4-28 **Date:** 8/27/2025
Engineer: **Version No:**
Contractor:

Dimensions are in inches (mm)

Item: 2; Tags: FPVAV-32-02



Right-hand controls location shown

DIMENSIONAL DATA

Unit Size	Inlet Size	PW x PH	Induced Air Inlet IW x IH	Outlet Duct Size F x G	K	H	M	N
7	14 (356)	13 7/8 (352)	12 x 14 (305 x 356) Qty 2	40 1/4 x 11 3/4 (1022 x 298)	48 (1219)	18 (457)	4 (102)	15 1/4 (387)

277V FLA
9.5

*The ECM is a variable horsepower motor

FEATURES

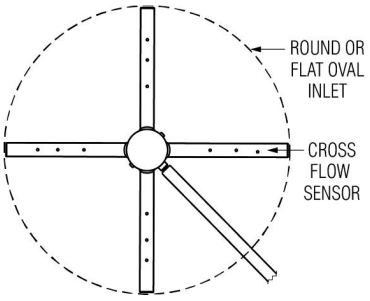
- 18 ga. (1.31) galvanized steel channel frame with 20 ga. (1.00) casing components
- 16 ga. (1.61) galvanized steel inclined opposed blade damper, 45° rotation, CW to close
- CF - Multi-point averaging Cross Flow sensor. Supplied with balancing tees. (4" and 5" supplied with annubar sensor.)
- Full size access panels on three sides
- Discharge opening designed for flanged duct connection

Project:	Schneider Elec 4-28	**Date:**	8/27/2025
Engineer:		**Version No:**	
Contractor:			

Dimensions are in inches (mm)

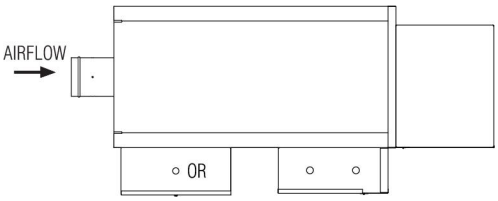
- Ultra-high efficiency ECM fan motor, EPIC fan volume controller
- 24 VAC Control Transformer
- Class A 80/20 Ni/Cr wire
- Externally insulated heater element wrapper
- Automatic reset high limit cut-outs (one per element)
- Magnetic contactor per stage
- Damper Actuator: Not Provided
- EPIC card option fan status (on/off) contact closure not included
- SP - Single point electrical connection
- V6 - Fan Motor Voltage: 277V EPIC ECM/1 phase
- NB - Controls: By Others (Field Mounted)
- MN - EPIC Fan Card: Manual volume control
- OR - Right-hand controls location standard (shown)
- FDD - 3/4" (19) Dual Density Fiberglass Liner
- FN - Full NEMA 1 type 24V Controls Enclosure
- FN1 - Standard flush mount line voltage enclosure
- 4803 - Electric Coil: 480 volt/3 phase/4-wire
- SCRA - SCR with 4-20 mA Control
- FIR - Electronic fan interlock relay

CF - Cross Flow Sensor



- Multi-point center averaging
- UL 94-VO Fire resistant polycarbonate
- 4" and 5" inlets are annubar

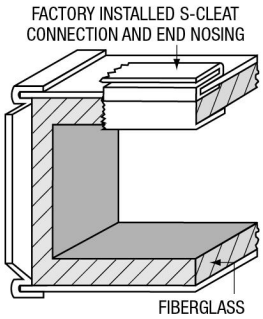
OR/FN1 - Top View Orientation- Controls Location



Right Hand Controls Location

Project:	Schneider Elec 4-28	**Date:**	8/27/2025
Engineer:		**Version No:**	
Contractor:			

FDD - Dual Density Fiberglass Liner

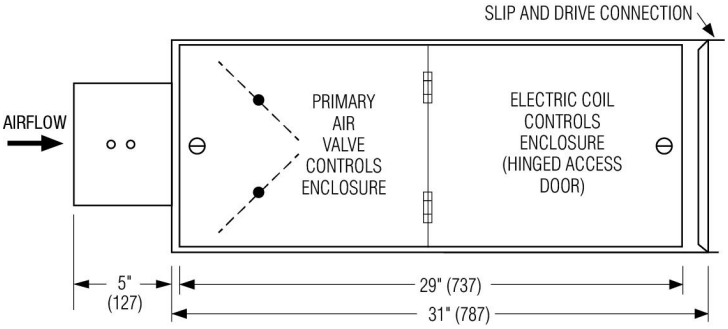


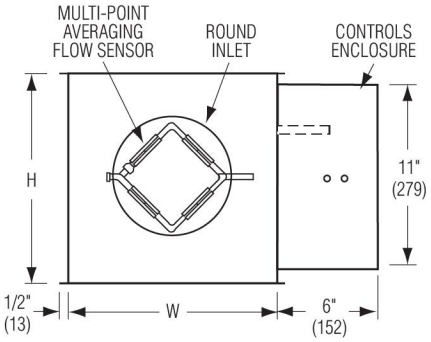
• 3/4" (19) thick dual density insulation, minimum 1.5 lb./cu.ft (24 kg/m3) density with exposed edges coated to reduce air erosion

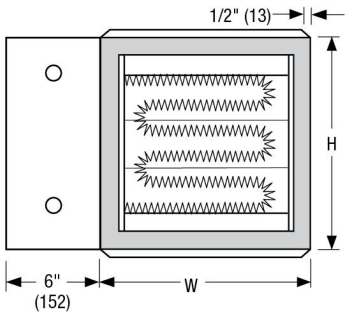
Meets requirements:

• UL 181 & 723
• NFPA 90A & 90B
• ASTM E 84 & C 1071
• CAN/ULC S102-M88

Items: 16, 17, 18, 19, 20, 22, 25, 26, 28, 30, 35, 39, 41, 45; Tags: VB-32-01; VB-32-02; VB-32-03; VB-32-04; VB-32-05; VB-32-07; VB-33-02; VB-33-03; VB-33-05; VB-33-07; VB-34-.04; VB-34-.08; VB-35-01; VB-35-05







Right-hand controls location shown
*Controls Enclosure optional with field mounted controls

DIMENSIONAL DATA

Unit Size	Min - Max Airflow Range cfm (l/s)	Width (W)	Height (H)	Inlet Size
8	125 – 1100 (59 – 519)	12 (305)	12 1⁄2 (318)	7 7⁄8 (200) Round
10	215 – 1840 (101 – 868)	14 (356)	12 1⁄2 (318)	9 7⁄8 (251) Round

FEATURES

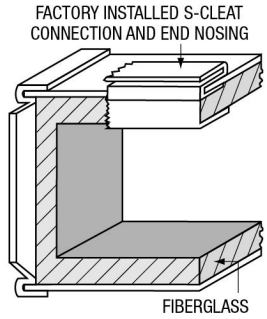
• 16 ga. (1.61) corrosion-resistant steel inclined opposed blade damper with extruded PVC seals. 45° rotation, CW to close. Tight close-off. Damper leakage is less than 2% of the terminal rated airflow at 3" w.g. (750 Pa)
• 1/2" (13) dia. plated steel drive shaft. An indicator mark on the end of the shaft shows damper position
• Multi-point averaging sensor. Supplied with balancing tees
• Electric Coil is mounted in an integral attenuator section
• Class A 80/20 Ni/Cr wire
• High performance ceramic insulators

Project:	Schneider Elec 4-28	**Date:**	8/27/2025
Engineer:		**Version No:**	
Contractor:			

Dimensions are in inches (mm)

• 24Vac Class II control transformer
• Hinged door control enclosure
• Positive pressure air proving switch
• Primary auto-reset high limit thermal cut-out (one per coil in control circuit)
• Secondary manual reset high limit thermal cut-outs (one per element)
• Magnetic contactor per stage
• Damper Actuator: Not Provided
• NB - Controls: By Others (Field Mounted)
• OR - 22 ga. (0.86) zinc coated steel casing, mechanically sealed, low leakage construction, right hand (determined when looking in the direction of airflow)
• QD2 - Transformer: 480/24V
• FDD - 3/4" (19) Dual Density Fiberglass Liner
• FN - Full NEMA 1 type 24V Controls Enclosure
• 4803 - Electric Coil: 480 volt/3 phase/3-wire
• SCRA - SCR with 4-20 mA Control
• BA - Toggle disconnect switch

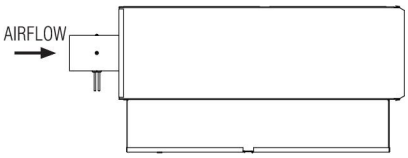
FDD - Dual Density Fiberglass Liner



• 3/4" (19) thick dual density insulation, minimum 1.5 lb./cu.ft (24 kg/m3) density with exposed edges coated to reduce air erosion

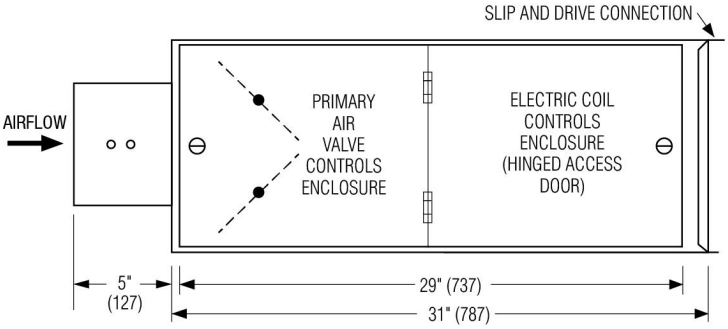
Meets requirements:
• UL 181 & 723
• NFPA 90A & 90B
• ASTM E 84 & C 1071
• CAN/ULC S102-M88

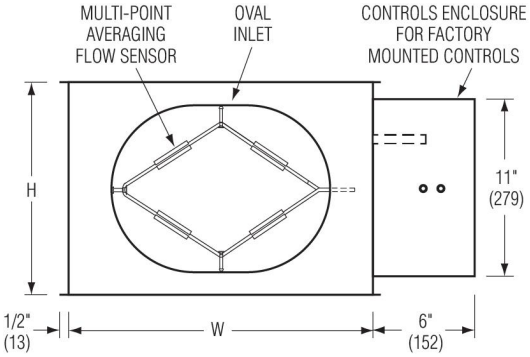
OR - Top View Orientation- Controls Location

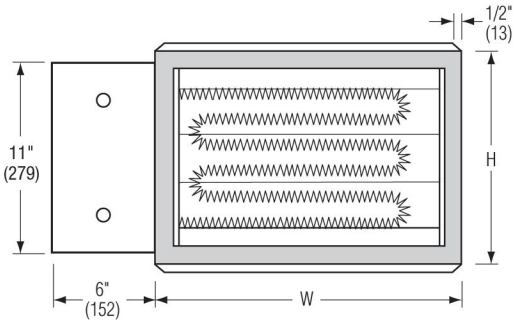


Right Hand Controls Location

Items: 21, 24, 27, 29, 33, 36, 40, 43, 44; Tags: VB-32-06; VB-33-01; VB-33-04; VB-33-06; VB-34-.02; VB-34-.05; VB-34-.09; VB-35-03; VB-35-04







DIMENSIONAL DATA

Unit Size	Min - Max Airflow Range cfm (l/s)	Width (W)	Height (H)	Inlet Size
12	290 – 2500 (137 – 1180)	18 (457)	12 1⁄2 (318)	12 15⁄16 x 9 13⁄16 (329 x 249) Oval
14	360 – 3125 (170 – 1475)	24 (610)	12 1⁄2 (318)	16 1⁄16 x 9 13⁄16 (408 x 249) Oval

FEATURES

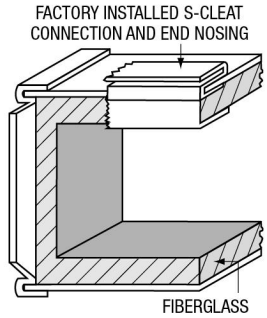
• 16 ga. (1.61) corrosion-resistant steel inclined opposed blade damper with extruded PVC seals. 45° rotation, CW to close. Tight close-off. Damper leakage is less than 2% of the terminal rated airflow at 3" w.g. (750 Pa)
• 1/2" (13) dia. plated steel drive shaft. An indicator mark on the end of the shaft shows damper position
• Multi-point averaging sensor. Supplied with balancing tees
• Electric Coil is mounted in an integral attenuator section
• Class A 80/20 Ni/Cr wire
• High performance ceramic insulators
• 24Vac Class II control transformer
• Hinged door control enclosure
• Positive pressure air proving switch
• Primary auto-reset high limit thermal cut-out (one per coil in control circuit)

Project:	Schneider Elec 4-28	**Date:**	8/27/2025
Engineer:		**Version No:**	
Contractor:			

Dimensions are in inches (mm)

• Secondary manual reset high limit thermal cut-outs (one per element)
• Magnetic contactor per stage
• Damper Actuator: Not Provided
• NB - Controls: By Others (Field Mounted)
• OR - 22 ga. (0.86) zinc coated steel casing, mechanically sealed, low leakage construction, right hand (determined when looking in the direction of airflow)
• QD2 - Transformer: 480/24V
• FDD - 3/4" (19) Dual Density Fiberglass Liner
• FN - Full NEMA 1 type 24V Controls Enclosure
• 4803 - Electric Coil: 480 volt/3 phase/3-wire
• SCRA - SCR with 4-20 mA Control
• BA - Toggle disconnect switch

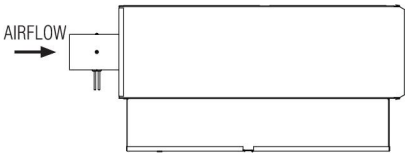
FDD - Dual Density Fiberglass Liner



• 3/4" (19) thick dual density insulation, minimum 1.5 lb./cu.ft (24 kg/m3) density with exposed edges coated to reduce air erosion

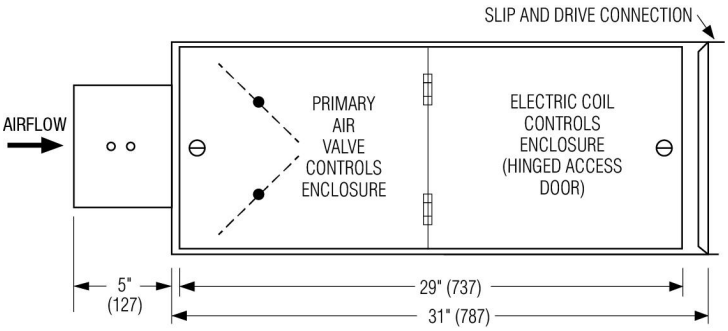
Meets requirements:
• UL 181 & 723
• NFPA 90A & 90B
• ASTM E 84 & C 1071
• CAN/ULC S102-M88

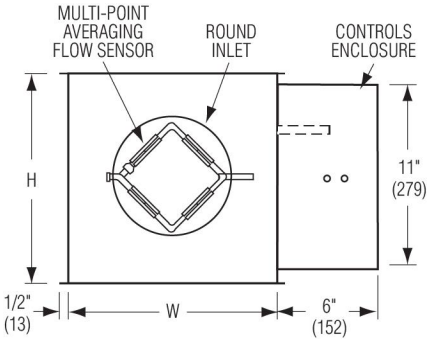
OR - Top View Orientation- Controls Location

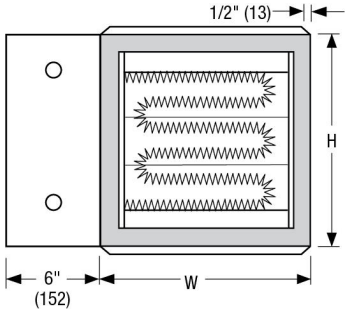


Right Hand Controls Location

Items: 31, 32, 34, 37, 38, 42; Tags: VB-33-08; VB-34-.01; VB-34-.03; VB-34-.06; VB-34-.07; VB-35-02







Right-hand controls location shown
*Controls Enclosure optional with field mounted controls

DIMENSIONAL DATA

Unit Size	Min - Max Airflow Range cfm (l/s)	Width (W)	Height (H)	Inlet Size
6	65 – 550 (31 – 260)	10 (254)	10 (254)	5 7⁄8 (149) Round

FEATURES

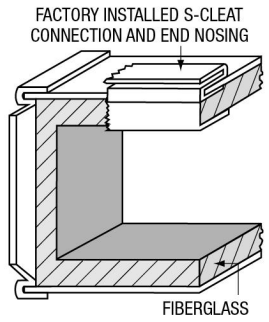
• 16 ga. (1.61) corrosion-resistant steel inclined single blade damper with extruded PVC seals. 45° rotation, CW to close. Tight close-off. Damper leakage is less than 2% of the terminal rated airflow at 3" w.g. (750 Pa)
• 1/2" (13) dia. plated steel drive shaft. An indicator mark on the end of the shaft shows damper position
• Multi-point averaging sensor. Supplied with balancing tees
• Electric Coil is mounted in an integral attenuator section
• Class A 80/20 Ni/Cr wire
• High performance ceramic insulators
• 24Vac Class II control transformer
• Hinged door control enclosure
• Positive pressure air proving switch

Project:	Schneider Elec 4-28	**Date:**	8/27/2025
Engineer:		**Version No:**	
Contractor:			

Dimensions are in inches (mm)

• Primary auto-reset high limit thermal cut-out (one per coil in control circuit)
• Secondary manual reset high limit thermal cut-outs (one per element)
• Magnetic contactor per stage
• Damper Actuator: Not Provided
• NB - Controls: By Others (Field Mounted)
• OR - 22 ga. (0.86) zinc coated steel casing, mechanically sealed, low leakage construction, right hand (determined when looking in the direction of airflow)
• QD2 - Transformer: 480/24V
• FDD - 3/4" (19) Dual Density Fiberglass Liner
• FN - Full NEMA 1 type 24V Controls Enclosure
• 4803 - Electric Coil: 480 volt/3 phase/3-wire
• SCRA - SCR with 4-20 mA Control
• BA - Toggle disconnect switch

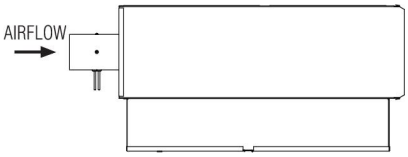
FDD - Dual Density Fiberglass Liner



• 3/4" (19) thick dual density insulation, minimum 1.5 lb./cu.ft (24 kg/m3) density with exposed edges coated to reduce air erosion

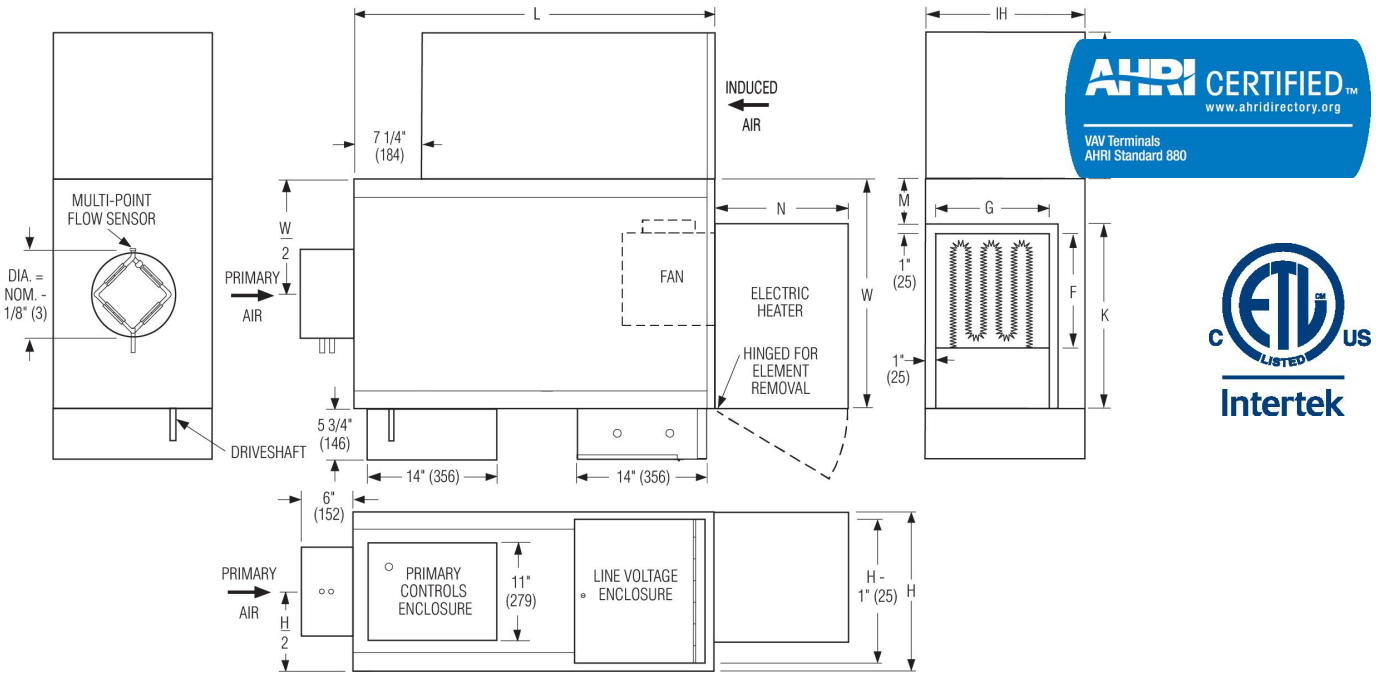
Meets requirements:
• UL 181 & 723
• NFPA 90A & 90B
• ASTM E 84 & C 1071
• CAN/ULC S102-M88

OR - Top View Orientation- Controls Location



Right Hand Controls Location

Item: 46; Tags: FPVAV-32-03



Right-hand controls location shown

DIMENSIONAL DATA

Unit Size	Inlet Size	W	H	L	Inducted Air Inlet IW x IH	Outlet Duct Size F x G	K	M
2	8 (203)	18 (457)	14 (356)	36 (914)	9 x 14 (229 x 356)	10 1/4 x 10 1/2 (260 x 267)	15 1/2 (394)	2 1/2 (64)

N	277V FLA
12 1/2 (318)	2.6

*The ECM is a variable horsepower motor

FEATURES

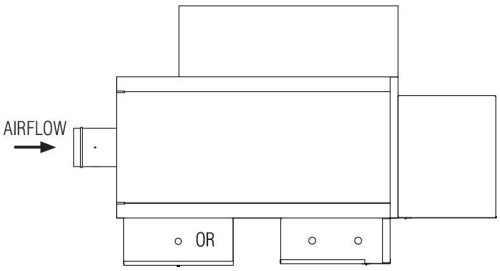
- 18 ga. (1.31) galvanized steel channel frame with 20 ga. (1.00) casing components
- 16 ga. (1.61) galvanized steel inclined opposed blade damper, 45° rotation, CW to close
- DF - Multi-point averaging Diamond Flow sensor. Supplied with balancing tees. (4" and 5" inlet are annubar.)
- Stealth™' tuned inlet attenuator
- Access panels on all four sides
- Discharge opening designed for flanged duct connection
- Ultra-high efficiency ECM fan motor, EPIC fan volume controller

Project:	Schneider Elec 4-28	**Date:**	8/27/2025
Engineer:		**Version No:**	
Contractor:			

Dimensions are in inches (mm)

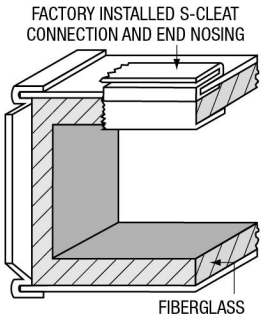
- 24 VAC Control Transformer
- Class A 80/20 Ni/Cr wire
- Externally insulated heater element wrapper
- Automatic reset high limit cut-outs (one per element)
- Magnetic contactor per stage
- EPIC card option fan status (on/off) contact closure not included
- SP - Single point electrical connection
- V6 - Fan Motor Voltage: 277V EPIC ECM/1 phase
- NB - Controls: By Others (Field Mounted)
- MN - EPIC Fan Card: Manual volume control
- MA - Damper Actuator: By Controls Manufacturer
- OR - Right-hand controls location standard (shown)
- FDD - 3/4" (19) Dual Density Fiberglass Liner
- FN - Full NEMA 1 type 24V Controls Enclosure
- FV - Access Panel: 1/4-turn fasteners
- FN1 - Standard flush mount line voltage enclosure
- 4803 - Electric Coil: 480 volt/3 phase/4-wire
- SCRA - SCR with 4-20 mA Control
- FIR - Electronic fan interlock relay

OR/FN1 - Top View Orientation- Controls Location



Right Hand Controls Location

FDD - Dual Density Fiberglass Liner



- 3/4" (19) thick dual density insulation, minimum 1.5 lb./cu.ft (24 kg/m3) density with exposed edges coated to reduce air erosion

Meets requirements:

- UL 181 & 723
- NFPA 90A & 90B
- ASTM E 84 & C 1071
- CAN/ULC S102-M88

Nailor® Industries Inc.

FAN POWERED TERMINAL UNIT WITH EPIC ECM MOTOR

SERIES FLOW • CONSTANT OR VARIABLE VOLUME

MODELS: 35S, 35SW AND 35SE • UNIT SIZES 1 – 6

DESCRIPTION:

- 18 ga. (1.31) galvanized steel channel frame with 20 ga. (1.00) casing components.
- 16 ga. (1.61) galvanized steel inclined opposed blade damper. 45° rotation. CW to close.
- Ultra-high efficiency ECM fan motor. EPIC fan volume controller.
- Multi-point averaging Diamond Flow sensor. Supplied with balancing tees.
- Full size access panels on three sides.
- 3/4" (19) dual density insulation, exposed edges coated to prevent air erosion. Meets requirements of NFPA 90A and UL 181.
- Single point electrical and /or pneumatic main air connection.
- Discharge opening for flanged duct connection.
- Full primary air valve low voltage NEMA 1 type 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 hanging elevation will therefore change.

OPTIONS:

Digital Controls:

- ❑ Factory mounted (supplied by others)
- ❑ Field mounted (supplied by others)
- ❑ Nailor EZvav. See separate submittal.

Liner:

- ❑ Steri-liner
- ❑ Steri-liner + Perforated metal
- ❑ Fiber-free
- ❑ Perforated metal
- ❑ Solid metal
- ❑ 1" (25) fiberglass
- ❑ Low temperature construction

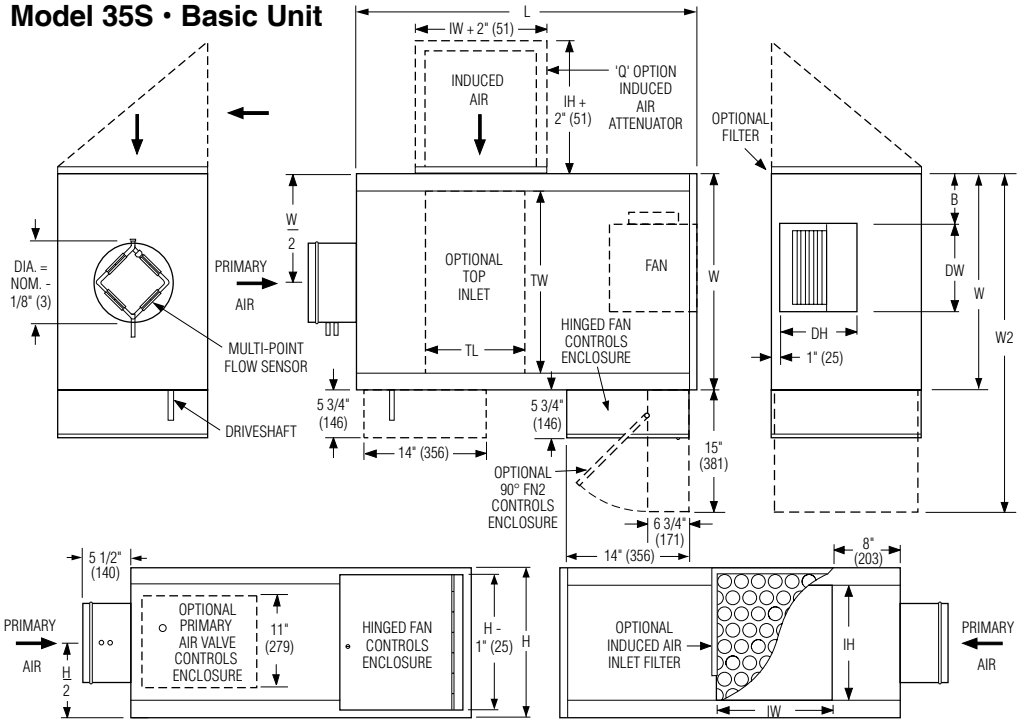
Other:

- ❑ Left-hand controls location
- ❑ Toggle disconnect switch
- ❑ Fan unit fusing
- ❑ 24/24V Isolation transformer
- ❑ Cross Flow Sensor
- ❑ 'Q' Option – Induced Air Inlet Attenuator
- ❑ Top entry induced air inlet
- ❑ 1" (25) Throwaway filter
- ❑ 2" (51) MERV 8 filter
- ❑ Hanger brackets.
- ❑ 1/4-turn fasteners (access panel)
- ❑ FN2 90° Line Voltage Enclosure
- ❑ FN3 Remote Line Voltage Controls Enclosure (See submittal FN3)
- ❑ Dust tight enclosure seal
- ❑ Remote user disconnect

Seismic Certification:

- ❑ Seismic Source International (Standard)
- ❑ HCAI (formerly OSHPD, California)
- ❑ Special Features: _____ .

Model 35S • Basic Unit



Dimensional Data

Unit Size	Inlet Size	W	W2	H	L	B	Induced Air Inlet		Outlet Discharge DW x DH	Filter Size	
							Side (std.) IW x IH	Top (opt.) TL x TW		Side Inlet (std.)	Top Inlet (opt.)
1	5, 6, 8** (127, 152, 203)	20 (508)	35 (889)	14 (356)	36 (914)	6 (152)	8 x 10 (203 x 254)	10 x 14 (254 x 356)	8 1/8 x 4 1/4 (206 x 108)	10 x 12 (254 x 305)	14 x 16 (356 x 406)
2	6, 8 (152, 203)	18 (457)	33 (838)	14 (356)	36 (914)	3 1/2 (89)	8 x 10 (203 x 254)	10 x 14 (254 x 356)	9 1/4 x 10 1/2 (235 x 267)	10 x 12 (254 x 305)	14 x 16 (356 x 406)
3	6, 8, 10, 12 (152, 203, 254, 305)	18 (457)	33 (838)	18 (457)	36 (914)	3 1/2 (89)	12 x 14 (305 x 356)	14 x 14 (356 x 356)	9 1/4 x 10 1/2 (235 x 267)	14 x 16 (356 x 406)	16 x 16 (406 x 406)
4	8, 10, 12, 14 (203, 254, 305, 356)	26 (660)	41 (1041)	18 (457)	41 (1041)	6 (152)	14 x 14 (356 x 356)	12 x 22 (305 x 559)	12 x 10 1/2 (305 x 267)	16 x 16 (406 x 406)	16 x 25 (406 x 635)
5	10, 12, 14 (254, 305, 356)	26 (660)	41 (1041)	18 (457)	41 (1041)	5 (127)	14 x 14 (356 x 356)	12 x 22 (305 x 559)	13 1/4 x 11 1/2 (337 x 292)	16 x 16 (406 x 406)	16 x 25 (406 x 635)
6	12, 14, 16 (305, 356, 406)	30 (762)	45 (1143)	19 (483)	44 (1118)	6 (152)	16 x 15 (406 x 381)	14 x 26 (356 x 660)	13 1/4 x 11 1/2 (337 x 292)	17 x 18 (432 x 457)	18 x 28 (457 x 711)

**ECM Only.

Electrical Data

Unit Size	EPIC ECM Motor FLA				
	Motor HP	120V	208V	240V	277V
1	*	2.1	1.4	1.3	1.2
2	*	4.0	2.7	2.6	2.6
3	*	5.0	3.4	3.3	3.3
4	*	6.9	4.6	4.5	4.2
5	*	9.0	6.1	5.8	5.6
6	*	11.9	7.3	7.3	7.2

* The ECM is a variable horsepower motor. Refer to Selectworks schedule for actual power consumption. FLA = Full load amperage. All motors are single phase/60 Hz.

Page 1 of 2. For heat options; see page 2.

Dimensions are in inches (mm).

SCHEDULE TYPE:				
PROJECT: Schneider Elec 4-28				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**1 - 7 - 25**	**3500**	**2 - 6 - 23**	**35S-1**

Nailor® Industries Inc.

FAN POWERED TERMINAL UNIT WITH EPIC ECM MOTOR • HEAT ACCESSORIES

SERIES FLOW • CONSTANT OR VARIABLE VOLUME

MODELS: 35S, 35SW AND 35SE • UNIT SIZES 1 – 6

❑ Hot Water Coil Section Model 35SW

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:
  Size 1 – 3: 1 Row 1/2" (13), 2 and 3 Row 7/8" (22); O.D. male solder.
  Size 4 – 6: 1, 2, and 3 Row 7/8" (22); O.D. male solder.
- Top and bottom access panels for inspection and coil cleaning.
- Flanged outlet duct connection.

Coil Rows:

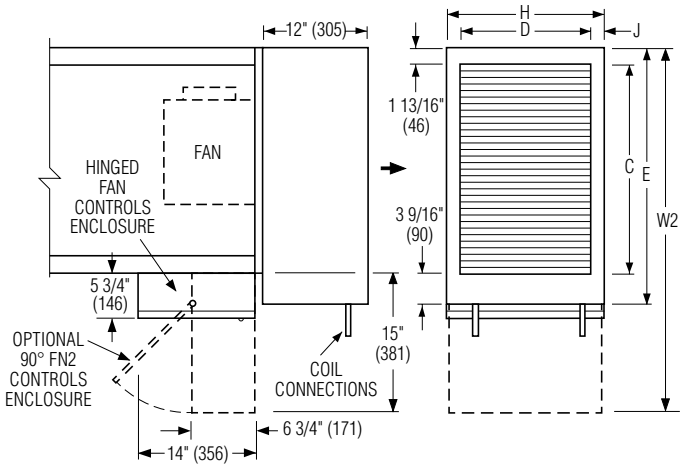
❑ 1-Row ❑ 2-Row ❑ 3-Row

Coil Hand Connections:

(Looking in direction of airflow).

❑ Right hand (illustrated). Standard.

❑ Left hand. Optional.

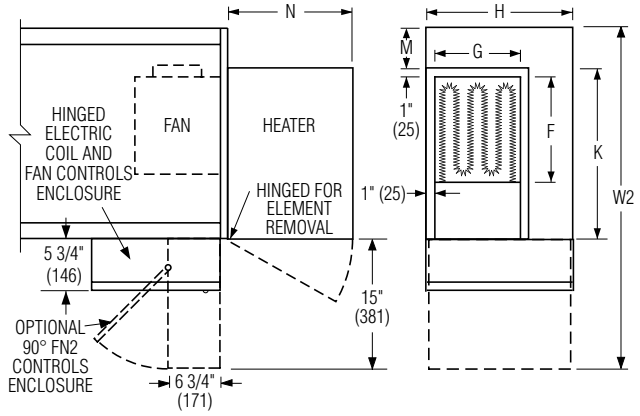


Unit Size	Outlet Duct Size C x D	W2	E	H	J
1	16 x 12 1/8 (406 x 308)	35 (889)	21 3/8 (543)	14 (356)	1 (25)
2	16 x 12 1/8 (406 x 308)	33 (838)	21 3/8 (543)	14 (356)	1 (25)
3	16 x 14 7/8 (406 x 378)	33 (838)	21 3/8 (543)	18 (457)	1 1/2 (38)
4, 5	24 x 14 7/8 (610 x 378)	41 (1041)	29 3/8 (746)	18 (457)	1 1/2 (38)
6	28 x 17 1/8 (711 x 435)	45 (1143)	33 3/8 (848)	19 (483)	1 (25)

❑ Electric Coil Section Model 35SE

Standard Features:

- Unique hinged heater design permits 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).
- Single point electrical connection (except 600V).
- Positive pressure airflow switch.
- Flanged outlet duct connection.
- Class A 80/20 Ni/Cr wire.
- Terminal unit with coil is ETL Listed as an assembly.
- Controls mounted as standard on RH side as shown. Terminals ordered with LH controls (optional) are inverted and discharge duct hanging elevation will therefore change.



Voltage:

Single phase, 60 Hz.

❑ 208V ❑ 240V ❑ 277V

Three phase, 60 Hz.

❑ 208V ❑ 480V (4 wire wye).

❑ 600V (dual point connection). ❑ _____ .

Options:

- ❑ Toggle disconnect switch (includes fan).
- ❑ SCR control.
- ❑ Door interlock disconnect switch.
- ❑ Quiet type contactors.
- ❑ Mercury contactors.
- ❑ Power circuit fusing.
- ❑ Dust tight construction.
- ❑ Manual reset secondary thermal cut out.

Unit Size	Outlet Duct Size F x G	W2	K	H	M	N
1	10 1/4 x 10 1/2 (260 x 267)	35 (889)	16 (406)	14 (356)	4 (102)	12 1/2 (318)
2	10 1/4 x 10 1/2 (260 x 267)	33 (838)	15 1/2 (394)	14 (356)	2 1/2 (64)	12 1/2 (318)
3	10 1/4 x 10 1/2 (260 x 267)	33 (838)	15 1/2 (394)	18 (457)	2 1/2 (64)	15 1/4 (387)
4	13 x 10 1/2 (330 x 267)	41 (1041)	21 (533)	18 (457)	5 (127)	15 1/4 (387)
5	14 1/4 x 11 3/4 (362 x 298)	41 (1041)	22 (559)	18 (457)	4 (102)	15 1/4 (387)
6	14 1/4 x 11 3/4 (362 x 298)	45 (1143)	25 (635)	19 (483)	5 (127)	15 1/4 (387)

SCHEDULE TYPE:

PROJECT: Schneider Elec 4-28

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
1 - 7 - 25	3500	2 - 6 - 23	35S-1

FAN POWERED TERMINAL UNIT WITH EPIC ECM MOTOR

SERIES FLOW • CONSTANT OR VARIABLE VOLUME

MODELS: 35S, 35SW AND 35SE • UNIT SIZE 7

DESCRIPTION:

- 18 ga. (1.31) galvanized steel channel frame with 20 ga. (1.00) casing components.
- 16 ga. (1.61) galvanized steel inclined opposed blade damper. 45° rotation. CW to close.
- Ultra-high efficiency ECM fan motor. EPIC fan volume controller.
- Multi-point averaging Diamond Flow sensor. Supplied with balancing tees.
- Full size access panels on three sides.
- 3/4" (19) dual density insulation, exposed edges coated to prevent air erosion. Meets requirements of NFPA 90A and UL 181.
- Single point electrical and /or pneumatic main air connection.
- Discharge opening for flanged duct connection.
- Full primary air valve low voltage NEMA 1 type 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 hanging elevation will therefore change.

OPTIONS:

Digital Controls:

- ❑ Factory mounted (supplied by others)
- ❑ Field mounted (supplied by others)
- ❑ Nailor EZvav. See separate submittal.

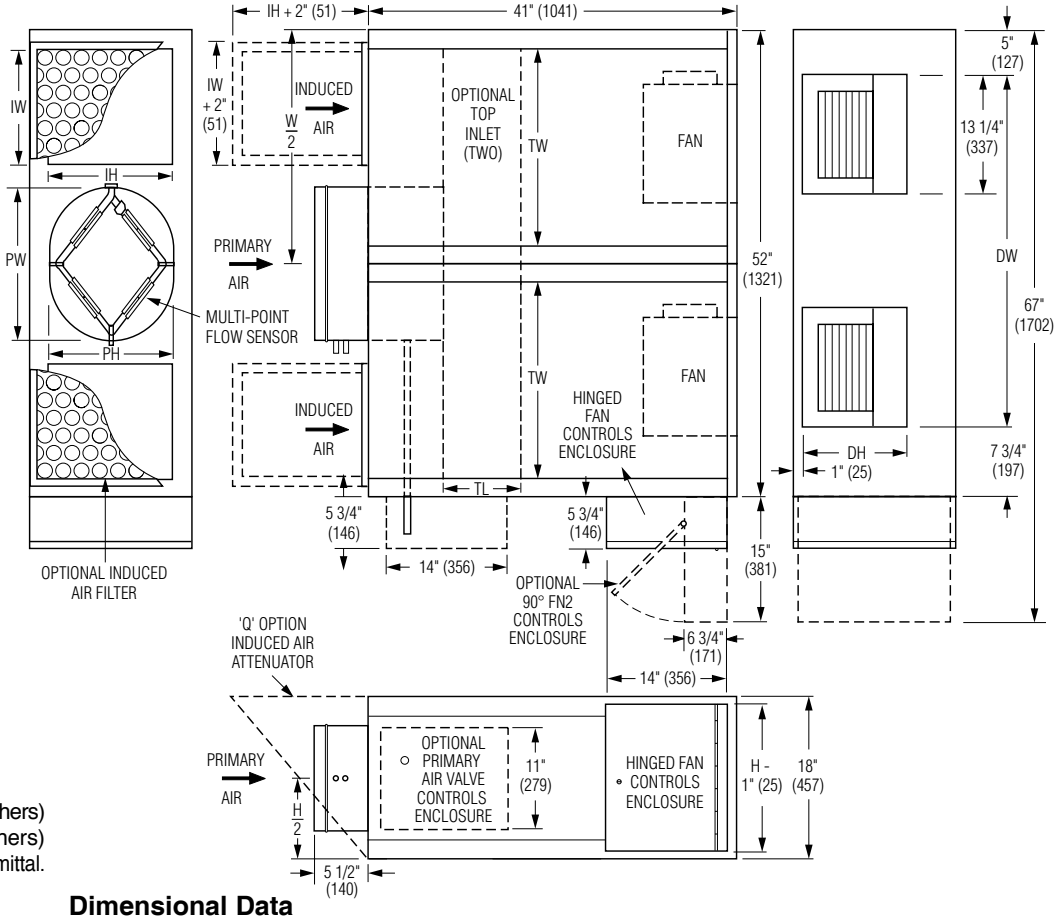
Liner:

- ❑ Steri-liner
- ❑ Steri-liner + Perforated metal
- ❑ Fiber-free
- ❑ Perforated metal
- ❑ Solid metal
- ❑ 1" (25) fiberglass
- ❑ Low temperature construction

Other:

- ❑ Left-hand controls location
- ❑ Toggle disconnect switch
- ❑ Fan unit fusing
- ❑ 24/24V Isolation transformer
- ❑ Cross Flow Sensor
- ❑ 'Q' Option – Induced Air Inlet Attenuator
- ❑ Top entry induced air inlet
- ❑ 1" (25) Throwaway filter
- ❑ 2" (51) MERV 8 filter
- ❑ Hanger brackets.
- ❑ 1/4-turn fasteners (access panel)
- ❑ FN2 90° Line Voltage Enclosure
- ❑ FN3 Remote Line Voltage Controls Enclosure (See submittal FN3)
- ❑ Dust tight enclosure seal
- ❑ Remote user disconnect

Model 35S • Basic Unit



Dimensional Data

Unit Size	Inlet		Induced Air Inlet		Outlet	Filter Size	
	Size	PW x PH	Side (std.) IW x IH	Top (opt.) TL x TW	Discharge DW x DH	Side Inlet (std.)	Top Inlet (opt.)
7	14 (356) Rd. 16 (406) Rd. 18 (457) Oval	13 7/8 (352) 15 7/8 (403) 20 3/16 x 13 7/8 (513 x 352)	12 x 14 (305 x 356) Qty. of 2	8 1/2 x 22 (216 x 559) Qty. of 2	39 1/4 x 11 1/2 (997 x 292)	14 x 16 (356 x 406) Qty. of 2	16 x 25 (406 x 635) Qty. of 2

Electrical Data

Unit Size	EPIC ECM Motor FLA				
	Motor HP	120V	208V	240V	277V
7	*	15.9	10.5	9.9	10.0

* The ECM is a variable horsepower motor. Refer to Selectworks schedule for actual power consumption.
FLA = Full load amperage. All motors are single phase/60 Hz.

Seismic Certification:

- ❑ Seismic Source International (Standard)
- ❑ HCAI (formerly OSHPD, California)
- ❑ Special Features: _____ .

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**4 - 25 - 23**	**3500**	**2 - 6 - 23**	**35S-2**

Page 1 of 2.
For heat options; see page 2.
Dimensions are in inches (mm).

Nailor® Industries Inc.

FAN POWERED TERMINAL UNIT WITH EPIC ECM MOTOR • HEAT ACCESSORIES

SERIES FLOW • CONSTANT OR VARIABLE VOLUME

MODELS: 35SW AND 35SE • UNIT SIZE 7

❑ Hot Water Coil Section Model 35SW

Standard Features:

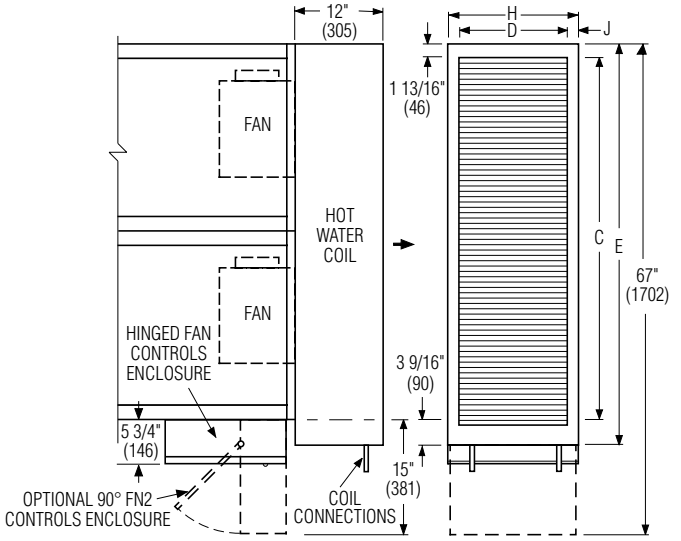
- Coil section installed on unit discharge.
- Coil and header are installed in insulated casing for increased thermal efficiency.
- 1/2" (13) copper tubes.
- Aluminum ripple fins.
- Sweat connections: 1 and 2 row, 7/8" (22) O. D. male solder. 3 row 1 3/8" (35) O.D. male solder.
- Top and bottom access panels for inspection and coil cleaning.
- Flanged outlet duct connection.

Coil Rows:

❑ 1-Row ❑ 2-Row ❑ 3-Row

Coil Hand Connections:

(Looking in direction of airflow).
❑ Right hand (illustrated). Standard.
❑ Left hand. Optional.



Unit Size	Outlet Duct Size C x D	E	H	J
7	50 x 14 7/8 (1270 x 378)	55 3/8 (1407)	18 (457)	1 9/16 (40)

❑ Electric Coil Section Model 35SE

Standard Features:

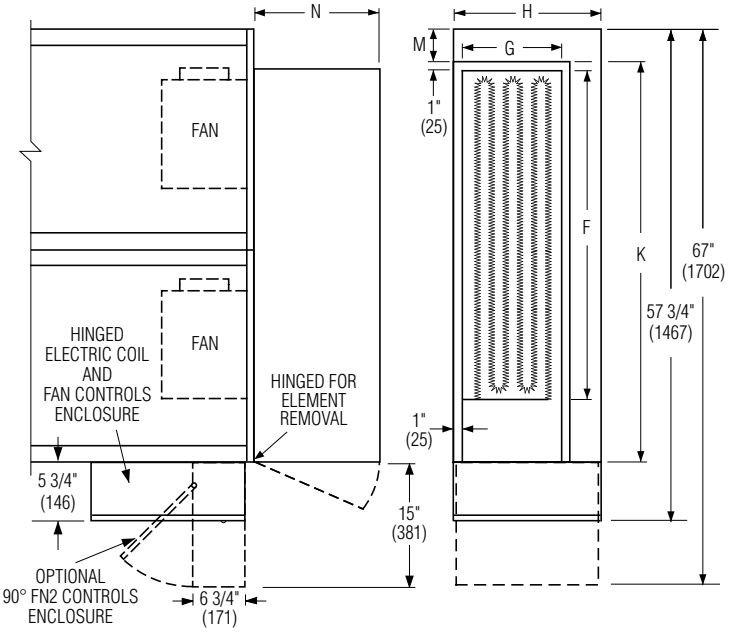
- Unique hinged heater design permits easy access, removal and replacement of heater element without disturbing ductwork.
- Coil installed on unit discharge.
- Insulated coil element wrapper.
- Automatic reset high limit cut-outs (one per element).
- Single point electrical connection (except 600V).
- Positive pressure airflow switch.
- Flanged outlet duct connection.
- Class A 80/20 Ni/Cr wire.
- Terminal unit with coil is ETL Listed as an assembly.
- Controls mounted as standard on RH side as shown. Terminals ordered with LH controls (optional) are inverted and discharge duct hanging elevation will therefore change.

Voltage:

Single phase, 60 Hz.
❑ 208V ❑ 240V ❑ 277V
Three phase, 60 Hz.
❑ 208V ❑ 480V (4 wire wye).
❑ 600V (dual point connection). ❑ _____ .

Options:

❑ Toggle disconnect switch (includes fan).
❑ SCR control.
❑ Door interlock disconnect switch.
❑ Mercury contactors.
❑ Power circuit fusing.
❑ Dust tight construction.
❑ Manual reset secondary thermal cut out.



Unit Size	Outlet Duct Size F x G	K	H	M	N
7	40 1/4 x 11 3/4 (1022 x 298)	48 (1219)	18 (457)	4 (102)	15 1/4 (387)

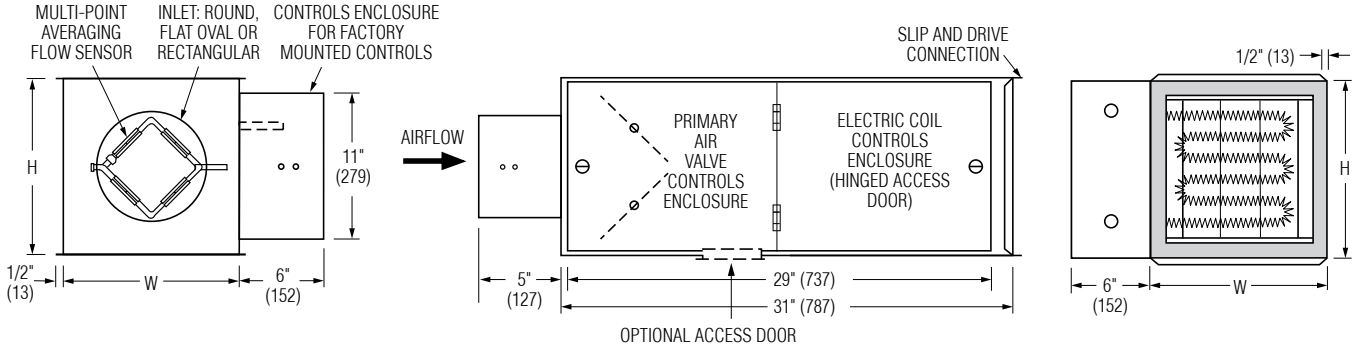
SCHEDULE TYPE:	Page 2 of 2. Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**4 - 25 - 23**	**3500**	**2 - 6 - 23**	**35S-2**

Nailor® Industries Inc.

SINGLE DUCT TERMINAL UNIT WITH ELECTRIC REHEAT

DIGITAL CONTROLS • PRESSURE INDEPENDENT

MODEL: D30RE



Dimensional Data

Unit Size	Min.– Max. Airflow Range* cfm (l/s)	W	H	Inlet Size
4	25 – 225 (12 – 106)	10 (254)	10 (254)	3 7/8 (98) Round
5	45 – 400 (21 – 189)	10 (254)	10 (254)	4 7/8 (124) Round
6	65 – 550 (31 – 260)	10 (254)	10 (254)	5 7/8 (149) Round
7	95 – 800 (45 – 378)	12 (305)	12 1/2 (318)	6 7/8 (175) Round
8	125 – 1100 (59 – 519)	12 (305)	12 1/2 (318)	7 7/8 (200) Round
9	165 – 1400 (78 – 661)	14 (356)	12 1/2 (318)	8 7/8 (225) Round
10	215 – 1840 (101 – 868)	14 (356)	12 1/2 (318)	9 7/8 (251) Round
12	290 – 2500 (137 – 1180)	18 (457)	12 1/2 (318)	12 15/16 x 9 13/16 (329 x 249) Oval
14	360 – 3125 (170 – 1475)	24 (610)	12 1/2 (318)	16 1/16 x 9 13/16 (408 x 249) Oval
16	430 – 3725 (203 – 1758)	28 (711)	12 1/2 (318)	19 3/16 x 9 13/16 (487 x 249) Oval
24 x 16	960 – 8330 (453 – 3931)	38 (965)	18 (457)	23 7/8 x 15 7/8 (606 x 403) Rect.

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AHRI CERTIFIED™ www.ahridirectory.org VAV Terminals AHRI Standard 880

SSI Listed

***** Min & Max airflow limits are based on .02" w.g. (5 Pa) & 1.5" w.g. (373 Pa), respectively, differential pressure signal from Diamond Flow Sensor.

Standard Features:

• 22 ga. (0.86) zinc coated steel casing, mechanically sealed, low leakage construction.

• 16 ga. (1.63) corrosion-resistant steel inclined opposed blade damper with extruded PVC seals (single blade on size 4, 5, 6). 45° rotation, CW to close. Tight close-off. Damper leakage is less than 2% of the terminal rated airflow at 3" w.g. (750 Pa).

• 1/2" (13) dia. plated steel drive shaft. An indicator mark on the end of the shaft shows damper position.

• Multi-point averaging Diamond Flow Sensor. Aluminum construction. Supplied with balancing tees.

• Rectangular discharge with slip and drive cleat duct connection.

• Full NEMA 1 type low voltage controls enclosure for factory mounted controls.

• 3/4" (19), dual density insulation, exposed edges coated to prevent air erosion. Meets the requirements of NFPA 90A and UL 181.

• Electric Coil is mounted in an integral plenum section.

• 24 VAC Control transformer.

• Right-hand controls location is standard (shown) when looking in direction of airflow. Optional left hand controls mounting is available.

Digital Controls:

❑ Factory mounted (supplied by others)
❑ Field mounted (supplied by others)
❑ Nailor EZvav

See separate submittal.

Options and Accessories:

❑ Steri-liner.
❑ Fiber-free liner.
❑ Steri-liner + Perforated metal liner.
❑ Perforated metal liner.
❑ Solid metal liner.
❑ Fiberglass liner.
❑ 1" (25) liner.
❑ Low temperature construction.
❑ Round/Oval discharge collar.
❑ FMI Removable insert type Flow Sensor.
❑ 20 ga. (1.00) construction.
❑ Dust tight enclosure seal.
❑ Bottom access door.
❑ 24 VAC Control transformer.
❑ Hanger brackets.
❑ Ultra low leakage casing.
❑ Controls enclosure for field mounted controls.

Seismic Certification:

❑ Seismic Source International (Standard)
❑ HCAI (formerly OSHPD, California)
❑ Special Features: _____ .

Electric Coil Features, Options and Accessories: See page 2 of 2.

SCHEDULE TYPE:				
PROJECT: Schneider Elec 4-28				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 27 - 24**	**3000**	**11 - 3 - 23**	**D30RE-1**

Dimensions are in inches (mm).

SINGLE DUCT TERMINAL UNIT WITH ELECTRIC REHEAT

DIGITAL CONTROLS • PRESSURE INDEPENDENT

MODEL: D30RE

Nailor manufactures its own electric heating coils. They have been specifically designed and tested for use with variable air volume single duct terminal units.

All terminals with electric heat have been tested and ETL listed as an assembly, eliminating the need to mount coils a minimum of 36" (914) downstream or having to ship a bulky length of ductwork when coils are to be supplied mounted on the terminal.

Nailor electric coils are factory mounted as an integral part of the terminal unit in an insulated extended plenum section. Total length of the casing including heater terminal is only 31" (787), providing a compact, easy to handle unit. Freight costs are therefore also reduced. The unique inclined opposed blade damper design provides improved and more even airflow over the coil elements compared with round butterfly damper designs, which helps to minimize air stratification, avoid nuisance tripping of the thermal cut-outs and maximize heat pick-up.

Electric Coil Limitations

Unit Size	Heating Range* cfm (l/s)	Maximum kW									
		Single Phase						Three Phase			
		120V	208V	220V	240V	277V	347/480V	208V	380V	480V	600V
4	25 – 225 (12 – 106)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
5	45 – 400 (21 – 189)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
6	65 – 550 (31 – 260)	5.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
7	95 – 800 (45 – 378)	5.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
8	125 – 1100 (59 – 519)	5.5	9.5	10.5	11.0	13.0	13.0	13.0	13.0	13.0	13.0
9	165 – 1400 (78 – 661)	5.5	9.5	10.5	11.0	13.0	16.0	16.0	16.0	16.0	16.0
10	215 – 1840 (101 – 868)	5.5	9.5	10.5	11.0	13.0	16.5	17.0	21.0	21.0	21.0
12	290 – 2500 (137 – 1180)	5.5	9.5	10.5	11.0	13.0	16.5	17.0	24.5	30.0	30.0
14	360 – 3125 (170 – 1475)	5.5	9.5	10.5	11.0	13.0	16.5	17.0	24.5	31.0	38.5
16	430 – 3725 (203 – 1758)	5.5	9.5	10.5	11.0	13.0	16.5	17.0	24.5	31.0	38.5
24 x 16	960 – 8330 (453 – 3931)	5.5	9.5	10.5	11.0	13.0	16.5	17.0	24.5	31.0	38.5

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Intertek

Tested and approved to the following standards:

ANSI/UL 1996, 1st. ed.

CSA C22.2 No. 155-M1986.

* Minimum airflow must be the greater of the air volume listed or 70 cfm per kilowatt (33 L/s/kW).

Selection Guidelines:

The table above provides a general guideline as to the voltages and maximum kilowatts available for each terminal unit size. Up to three stages of heat are available. A minimum of 0.5 kW/stage is required.

For optimum diffuser performance and maximum thermal comfort, ASHRAE recommends that discharge temperatures do not exceed 15°F (8°C) above room set point, as stratification and short circuiting may occur. ASHRAE Standard 62.1 limits discharge temperatures to 90°F (32°C) or increasing the ventilation rate when heating from the ceiling. Never select kW to exceed a discharge temperatures of 120°F (49°C).

$$\Delta T \text{ (Air Temp. Rise, °F)} = \frac{kW \times 3160}{cfm}$$

The coils ranges listed are restricted to a maximum of 48 amps and do not require circuit fusing to meet NEC code requirements. A minimum of .1" w.g. (25 Pa) of downstream static pressure is required to ensure proper operation of the heater. To avoid possible nuisance tripping of the thermal cutouts due to insufficient airflow, a minimum airflow of 70 cfm (33 l/s) per kilowatt must be maintained. Check that desired minimum airflow is within recommended operating range.

Standard Features:

- Primary auto-reset high limit thermal cut-out (one per coil in control circuit).
- Secondary manual reset high limit thermal cut-outs (one per element).
- Positive pressure air proving switch.
- Class A 80/20 Ni/Cr wire.
- Magnetic contactor per stage.
- Line terminal block.
- High performance ceramic insulators.
- ETL Listed as an assembly.
- Hinged door control enclosure.
- Slip and drive discharge connection.

Voltage:

Single phase, 50 Hz, 60 Hz.

❑ 120V ❑ 208V ❑ 240V

❑ 277V ❑ 347V ❑ 480V

❑ 220V (50 Hz)

Three phase, 50 Hz, 60 Hz.

❑ 208V ❑ 480V ❑ 600V

❑ 380V (50 Hz)

❑ _____ .

Coil Options and Accessories:

❑ SCR control.

❑ SCR w/discharge temp. control.

❑ Toggle type disconnect switch.

❑ Door interlock disconnect switch.

❑ Mercury contactors.

❑ Quiet type contactors.

❑ Power circuit fusing.

❑ Dust tight construction.

❑ Special Features:

_____ .

SCHEDULE TYPE:				
PROJECT:	Schneider Elec 4-28			
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 27 - 24**	**3000**	**11 - 3 - 23**	**D30RE-1**

Dimensions are in inches (mm).