

### Receiving Inspection

After unpacking the terminal unit, check it for shipping damage. If any shipping damage is found, report it immediately to the delivering carrier. Store units in a clean, dry location.

**Caution: Do not use the inlet collar, damper shaft, airflow sensor, electrical conduit, or tubing as a handle to lift or move assembly. Damage to the air terminal unit or controls may result.**

### Supporting the Assembly

Suspend the unit from the building structure in a horizontal plane. Be careful not to obstruct all the access panels with support channels or straps. When requested, unit is supplied with field mounted hanger brackets for use with hanger rod up to 3/8" (9.5) dia. Hanger brackets or straps should be screwed to the top corner posts, unit casing sides or alternatively onto the inlet and outlet ends of the unit if the top corner posts are not accessible. Fan powered VAV terminal units are too heavy to suspend with the ductwork. They must be independently supported.

Nailor recommends attaching straps or screws into the 16 gauge frame of the 35S and 35P Series units for mounting when possible as shown in the figures below.

### Duct Connections

Slip each inlet duct over the inlet collar of the terminal. Fasten and seal the connection by the method prescribed in the job specification. The diameter of the inlet duct in inches must be equal

to the nominal size of the terminal inlet. The inlet collar of the terminal is 1/8" (3) smaller than the nominal duct size to allow it to fit inside the duct. **Important: Do not insert ductwork inside the inlet collar of the assembly.** For optimum performance, 2 to 3 equivalent diameters of straight duct should be installed prior to the inlet of the unit. All ducts should be installed in accordance with SMACNA guidelines. Rectangular discharge opening is designed for a flanged duct connection. A clear area around the opening has been left for screw penetration. Fasten and seal all connections by method prescribed in the job specification.

### Minimum Access

Make appropriate accommodations for access panel removal. Nailor 35S and 35P fan powered VAV terminal units have access panels on the top, bottom and sides. Nailor 35N units have only bottom panels. Model 37S has top and bottom panels. Model 38S has only top panels (or bottom panel if the 38S 1 is oriented for ceiling use). For low voltage control enclosure access, a minimum of 18" (457) is recommended. Specific control enclosure location is indicated on product submittals. Low voltage control enclosures have removable covers that are attached with sheet metal screws. High voltage controls enclosures have access panels that are equipped with hinges. For clearances for full opening of hinged access doors, refer to project specifications, submittal sheets and NEC.

**Important: These recommendations do not preclude NEC or local codes that may be in effect, which are the responsibility of the installing contractor.**

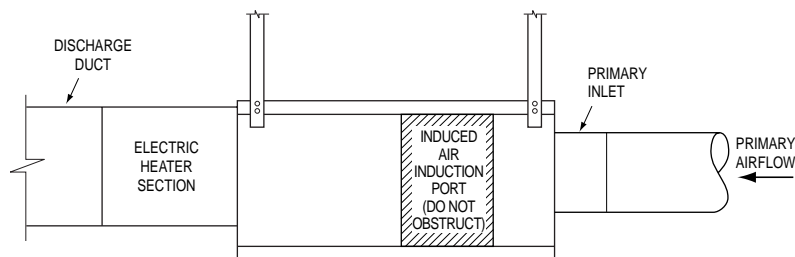


Figure 1: Fan Powered Terminal Unit Support Using Hanger Straps (Model 35SE illustrated).

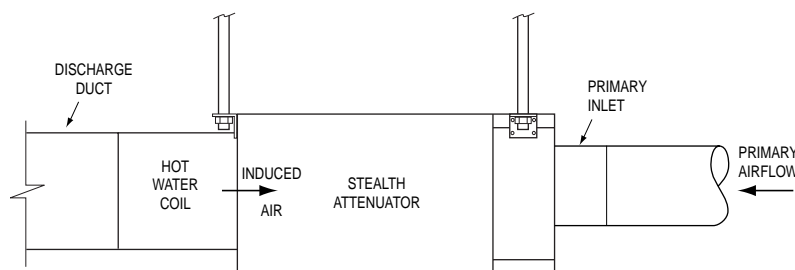


Figure 2: Fan Powered Terminal Unit Support Using Hanger Brackets and Rods (Model 35SWST illustrated).

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## Field Wiring

All field wiring must comply with NEC and local codes. Disconnect switches are optional. Also, electrical, control, and piping diagrams can be found on labels affixed to the exterior/interior of the control enclosure box. Unless specifically requested by customer, all units are wired for a single point connection to the fan and electric heater (if present). All electric heaters will be staged per specification. Motors rated for 277 or 120VAC on units with 480 or 208VAC ratings respectively are always connected between the neutral and L1 terminals. The installing electrician should rotate the incoming electric service by phase to help balance the building electric load.

Fuse size designates the size of the internal fuse if it is supplied. Maximum Overcurrent Protection (MOP) designates the largest breaker or fuse in the electrical service panel that can be used to protect the unit.

### ELECTRICAL SUGGESTIONS AND REQUIREMENTS:

1. Provide a safety disconnect per NEC 424-19, 20, 21
2. Disconnect the power supply before wiring or servicing unit. If a disconnect switch is present, it should be in the OFF position while making power connections or repairs.
3. All units with electric heat should have copper wires sized for 125% of Nameplate Amperage.
4. Follow wiring diagrams and instructions mounted on the unit. 480V/3 phase heaters, for example, require a neutral wire in addition to the full sized ground wire. NEC 424-15 and 250 also require that all units be grounded.

## Control Start-up and Operation

Your local Nailor Representative can provide detailed information about start-up and operating procedures for Nailor's digital, analog, and pneumatic controls. For specific information on controls provided by other manufacturers contact the control manufacturer's local or national office. This applies whether the controls were factory or field installed.

**Note: Digital controllers may use specific communication addresses based on Building Management Systems, Architecture and original engineering drawings. Installing the terminal in a location other than that noted on the label may result in excessive start-up labor.**

## Primary Air Damper and Fan Adjustment

**Before starting the fan motor, make sure duct system is free of foreign objects, and filters are installed where required.**

- (1) Start motor and let it run-in at least 15 minutes. During run-in, check ductwork connections for leaks and repair if necessary.
- (2) All Nailor fan powered VAV terminal units incorporating PSC motors use a solid state SCR speed controller to adjust motor speed and consequently air volume. Speed controllers have built-in maximum and minimum stops as detailed on the fan performance pages in the Nailor VAV Terminal Unit catalog. Turning the manual fan speed control counterclockwise will increase the fan speed; clockwise will decrease speed. The fan speed control is located on the side of the motor controls enclosure.
- (3) For series units, set the unit to full cooling. Adjust and set primary maximum cfm by measuring the airflow with a manometer attached between the gauge ports in the pneumatic tube leading to the high and low sides of the inlet air pick-up. A chart is attached to the side of the unit showing airflow vs. pressure for different inlet sizes. Adjust and set remote balancing dampers, if present. Do not worry about airflow at this time; just proportion the outlets with the dampers. Be sure to leave the dampers in the most possible open

position. This will generate the minimum noise level. Adjust the fan speed control until the required CFM is obtained (by measuring the air quantity at the room outlets or by zeroing the induction air if primary and fan match). Fan should be adjusted with primary air at maximum set point to ensure that no supply air is discharged at the induction port. Recheck the fan and primary airflows when the damper is reset to the minimum set point.

(4) For parallel units, turn the fan off, and set the primary air in the same manner as described for series units. Proportion the diffusers as above. Reset the primary airflow to the design fan turn-on point. Measure the airflow again to verify proper airflow. Turn the fan on. Allow the primary air damper to come under control after the fan is started, and then adjust the fan until the prescribed airflow is achieved by measuring the air quantity at the room outlets. Be sure to allow the primary air damper to stabilize after each fan adjustment and prior to measuring the airflow. Turn the fan off and verify the minimum airflow point on the damper.

(5) For units equipped with ECM motors, set the primary air dampers as described in (3). Set the fan as described on the ECM MOTORS IOM, page 1. Proportion the dampers after the fan is set. Remember to adjust the dampers so that they are in the most open condition after proportioning. This will generate the minimum noise.

## Maintenance Procedures

### Fan and Motor

Nailor fan powered terminal units are equipped with permanently lubricated motors. Inspect fan and motor assembly for dust and dirt as often as dictated by operating environment. Clean assembly if necessary.

#### If fan motor does not run, do the following:

- a. Check for free rotation of blower wheel. Make sure no foreign objects are in fan. Look for signs of freight or job site damage.
- b. Check power supply. Disconnects should be in the "ON" position. Optional fusing should also be inspected. Check transformer for proper output.
- c. Check for proper control signals and PE switch setting (if provided) and relay function.

#### Fan motor runs but emits excessive noise:

- a. Maximum airflow may be too high, or discharge static pressure may be incorrect.
- b. Blower may have clearance problems. Make sure all components are securely attached.
- c. Verify integrity of ductwork. Leaks or loose connections could cause noise. Check for rattling diffusers or rattling or incorrectly adjusted balancing dampers.

#### Fan motor runs, but airflow too low:

- a. May be due to ductwork restrictions, dirty air filters, or clogged water coils.
- b. Readjust fan speed control.
- c. Discharge static pressure may be incorrect. Check balancing dampers.

**If repair or replacement is required:**

Disconnect all power before servicing. Motor and fan should be removed as an assembly. Remove the four hex nuts from the mounting lugs holding the fan assembly to the discharge panel, and remove the assembly through any convenient access panel. Do not allow assembly to hang from wiring. If removing motor from blower, first loosen the set screw holding the blower wheel to the motor shaft. Remove the three screws holding the motor to the fan housing, and slide motor and fan housing apart.

To put the assembly back together, reverse the procedure. Be sure to align the blower set screw with the flat section of motor shaft.

**Note: Over-tightening motor mounting screws may crush isolation bushing, causing excessive fan noise.**


**Primary Air Damper Replacement**

Nailor's primary air valve assembly is not repairable. The entire assembly should be replaced if it is damaged.

**Labels**

Each fan-powered unit is shipped with a nameplate label affixed to the control casing. Principle nameplate data on the label typically include Order-Serial number, Model number, Unit size, Motor horsepower, Amperage, MOP, Heater (if present) data, Supply Voltage, and Airflows. Also provided are calibration, airflow, as well as other labels as necessary. We suggest that you read all labels before beginning installation. If you have any questions, please contact your local Nailor Representative. Their phone numbers can be found on our website at [www.nailor.com](http://www.nailor.com).

**Nameplate Label**



**DATE (DATE) :** 15-Apr-2002  
**MODEL (MODÈLE) :** D35SE  
**UNIT SIZE-INLET SIZE (DIAMETRE D'ENTRÉE) :** 3-8  
**CONTROL VOLTAGE (VOLTAGE DE CONTRÔLE) :** 24  
**CONTROL SEQUENCE (SEQUENCE DE CONTRÔLE) :** DF  
**VOLT AMP (VOLT-AMPÈRE) :** 50  
**HOT WATER COIL ROWS (NOMBRE DE RANGÉES SERPENTIN EAUCAUDE) :** N/A

**FAN POWERED TERMINAL UNIT**

**SERIAL NO. (NO. DE SÉRIE) :** 155258-10  
**TAG NO. (NO. DÉTIQUETTE) :** 42  
**VOLTAGE (VOLTAGE) :** 480  
**PHASE (PHASE) :** 3  
**STAGES (ÉTAPES) :** 2  
**HZ. (HZ) :** 50/60  
**MOTOR HP (MOTEUR HP) :** 1/4  
**MOTOR VOLTAGE (VOLTAGE DU MOTEUR) :** 227  
**MOTOR AMP (AMPERAGE DU MOTEUR) :** 1.8

**(UNITE TERMINALE @ VENTILATEUR INTEGRÉ)**

	KW/HP			AMPS (AMPÈRES)			AMPACITY (AMPACITÉE)			MAX. OVERCURRENT PROTECTION (RESISTANCE DES FUSIBLE MAX.)		MOTOR FUSE SIZE (MOTEUR FUSIBLE)
	TOTAL (TOTALE)	EACH CIR. (CHAQUE CIRCUIT)	EACH STG. (CHAQUE ÉTAPE)	TOTAL (TOTALE)	EACH CIR. (CHAQUE CIRCUIT)	EACH STG. (CHAQUE ÉTAPE)	TOTAL (TOTALE)	EACH CIR. (CHAQUE CIRCUIT)	EACH STG. (CHAQUE ÉTAPE)	TOTAL (TOTALE)	EACH CIR. (CHAQUE CIRCUIT)	
HEATER (CHAUFFAGE)	6.0	6.0	3.0	7.2	7.2	3.6	9.0	9.0	4.5	15	15	10
MOTOR (MOTEUR)	1/4			1.8			2.3					3.0
TOTAL (TOTALE)				9.0			11.3					

EACH ELEMENT RATED @ 2.0 KW @ 277 VAC.      AWG. MIN WIRE SIZE (MIN DIAMETRE DE FIL) : 14  
 (CHAQUE ELEMENT CLASSIFIER A)                      MIN. HEATING CFM (MIN. PCM) : 420

USE WIRE SUITABLE FOR AT LEAST 75 °C  
 L1 IS COLOR CODED BLACK, L2 IS BLUE, L3 IS RED  
 CONTROL WIRES CODED AS MARKED  
 USE COPPER CONDUCTORS ONLY.

UTILISER UN FIL METALLIQUE QUI CONVIENT AU MOIN 75 °C  
 L1 EST COLORÉ NOIRE, L2 EST BLEU, L3 EST ROUGE,  
 LES FILS DE CONTRÔLE SON IDENTIFIÉE COMME MARQUE.  
 UTILISÉ DES CONDUCTEURS DE CUIVRE SEULEMENT.

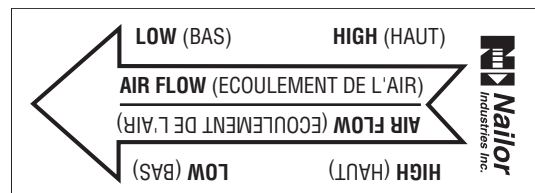
USE CLASS K, RK1, A2D OR A6D FUSE OR HACR BREAKERS.                      UTILISÉ DES FUSIBLES CLASS K, RK1, A2D, OU A6D OU HACR DISJONCTEURS.

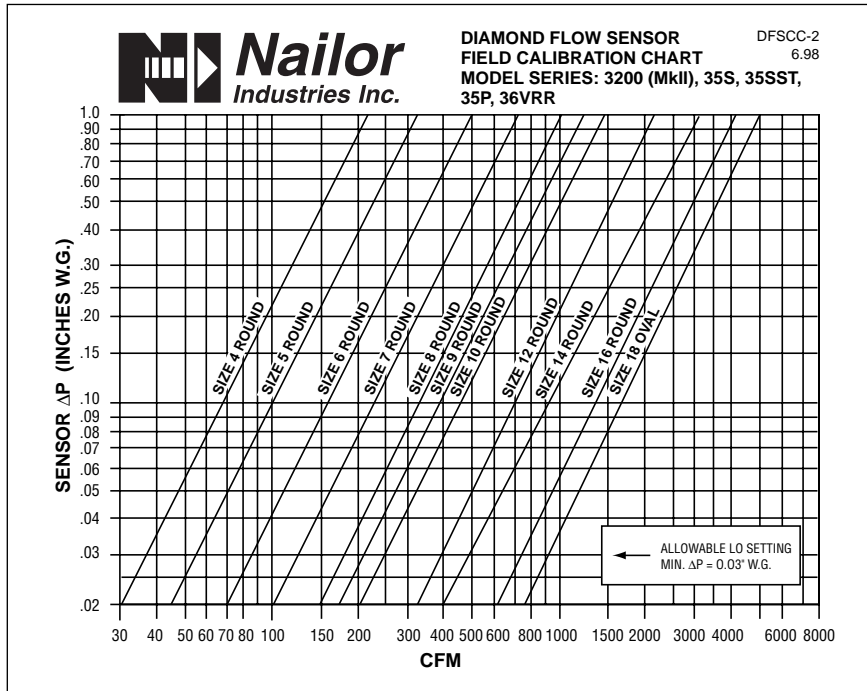
PRIMARY CFM (MAX/MIN) : 890/360  
 FAN CFM : 890<None>

PRIMARY L/S (MAX/MIN) : 420/170  
 FAN L/S : 420

**Airflow Direction (affixed to inlet collar)**



### Sample Diamond Flow Sensor Calibration Label



### Application charts for ECM motors

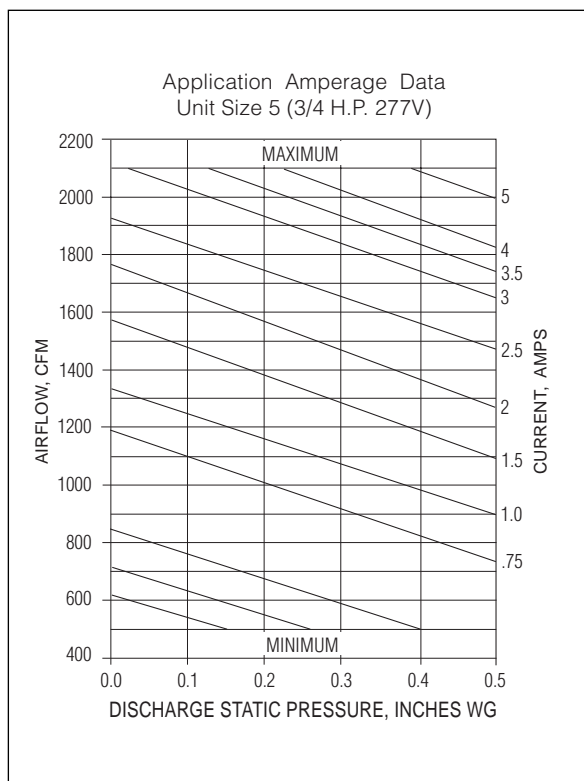
#### A. Sample VDC vs. CFM Chart

**Nailor Industries Inc.**  
**ECM MOTOR FAN CALIBRATION TABLE**  
 CFM vs VDC (Imperial Units)  
 MODEL SERIES: 35S, 35SST UNIT SIZE 3 - 1/2 H.P. 277 VAC. Version F, 10.29.01  
 FAN POWERED TERMINAL UNIT ECMCT-1

CFM	PWM VDC INPUT	0-10 VDC	CFM	PWM VDC INPUT	0-10 VDC	CFM	PWM VDC INPUT	0-10 VDC	CFM	PWM VDC INPUT	0-10 VDC
0	0	0	480	3.50	2.45	816	7.00	4.90	1114	10.50	7.36
136	0.10	0.06	491	3.60	2.52	824	7.10	4.97	1123	10.60	7.43
144	0.20	0.13	501	3.70	2.59	833	7.20	5.04	1131	10.70	7.50
152	0.30	0.20	512	3.80	2.66	841	7.30	5.11	1140	10.80	7.57
161	0.40	0.27	522	3.90	2.73	850	7.40	5.18	1149	10.90	7.64
170	0.50	0.34	533	4.00	2.80	859	7.50	5.25	1158	11.00	7.71
179	0.60	0.41	543	4.10	2.87	867	7.60	5.32	1166	11.10	7.78
188	0.70	0.48	553	4.20	2.94	876	7.70	5.39	1175	11.20	7.85
197	0.80	0.55	563	4.30	3.01	884	7.80	5.46	1184	11.30	7.92
207	0.90	0.62	573	4.40	3.08	893	7.90	5.53	1193	11.40	7.99
216	1.00	0.69	584	4.50	3.15	901	8.00	5.60	1201	11.50	8.06
226	1.10	0.76	594	4.60	3.22	909	8.10	5.67	1210	11.60	8.13
236	1.20	0.83	603	4.70	3.29	918	8.20	5.74	1219	11.70	8.20
246	1.30	0.90	613	4.80	3.36	926	8.30	5.81	1228	11.80	8.27
256	1.40	0.97	623	4.90	3.43	935	8.40	5.89	1236	11.90	8.34
267	1.50	1.04	633	5.00	3.50	943	8.50	5.96	1245	12.00	8.41
277	1.60	1.11	643	5.10	3.57	952	8.60	6.03	1254	12.10	8.48
288	1.70	1.18	652	5.20	3.64	960	8.70	6.10	1262	12.20	8.55
298	1.80	1.25	662	5.30	3.71	968	8.80	6.17	1271	12.30	8.62
309	1.90	1.32	671	5.40	3.78	977	8.90	6.24	1279	12.40	8.69
319	2.00	1.39	681	5.50	3.85	985	9.00	6.31	1288	12.50	8.76
330	2.10	1.46	690	5.60	3.92	994	9.10	6.38	1296	12.60	8.83
341	2.20	1.53	699	5.70	3.99	1002	9.20	6.45	1305	12.70	8.90
352	2.30	1.60	709	5.80	4.06	1011	9.30	6.52	1313	12.80	8.97
362	2.40	1.67	718	5.90	4.13	1019	9.40	6.59	1321	12.90	9.04
373	2.50	1.75	727	6.00	4.20	1028	9.50	6.66	1329	13.00	9.11
384	2.60	1.82	736	6.10	4.27	1036	9.60	6.73	1337	13.10	9.18
395	2.70	1.89	745	6.20	4.34	1045	9.70	6.80	1345	13.20	9.25
406	2.80	1.96	754	6.30	4.41	1053	9.80	6.87	1353	13.30	9.32
416	2.90	2.03	763	6.40	4.48	1062	9.90	6.94	1361	13.40	9.39
427	3.00	2.10	772	6.50	4.55	1071	10.00	7.01	1368	13.50	9.46
438	3.10	2.17	781	6.60	4.62	1079	10.10	7.08	1376	13.60	9.53
448	3.20	2.24	789	6.70	4.69	1088	10.20	7.15			
459	3.30	2.31	798	6.80	4.76	1097	10.30	7.22			
470	3.40	2.38	807	6.90	4.83	1105	10.40	7.29			

THIS UNIT HAS BEEN FACTORY SET AT \_\_\_\_\_ CFM.  
 RE-CALIBRATION IS NOT REQUIRED UNLESS THE ZONE DESIGN AIRFLOW REQUIREMENT HAS CHANGED. FOR CALIBRATION INSTRUCTIONS, REFER TO BULLETIN WVECMT. CAUTION IF CALIBRATING IN SHADED AREA. AT LOW VOLUMES, VARIATIONS IN FLOW FROM COOLING TO HEATING MAY BE GREATER THAN 5%. AT HIGH VOLUMES, NOISE MAY BE EXCESSIVE.  
 SUBJECT TO CHANGE WITHOUT NOTICE

#### B. Sample Application AMP/CFM Chart



## Replacement Parts

### Induced Air Filters

Model	Unit Size	Filter Size	Part No.
35S Standard & 'Q' Option	2	10x12	VH1-998
	3	14x16	VH1-196
	4, 5	16x16	VH1-199
	6	17x18	VH1-1529
	7 (2)	14x16	VH1-196
35S Top Inlet	2	14x16	VH1-196
	3	16x16	VH1-199
	4, 5	16x25	VH1-979
	6	18x28	VH1-200
	7 (2)	16x25	VH1-979
35SST 'Stealth'	2	10x14	VH1-974
	3	12x18	VH1-977
	4	14x16	VH1-196
	5	14x18	VH1-975
	6	18x19	VH1-197
	7 (2)	14x14	VH1-928
	35N Standard & 'Q' Option	2	13x26
3		17x27	VH1-1283
5		17x33	VH1-1284
6		19x35	VH1-1285
35P Standard	2	12x18	VH1-977
	3, 4, 5	16x25	VH1-979
	6, 7	18x28	VH1-200
35P 'Q' Option	3, 4, 5	14x20	VH1-194
	6, 7	18x28	VH1-200
37S Standard	1	8x10	VH1-997
	2, 3	10x18	VH1-203
	4 (2)	10x14	VH1-974
37SST 'Stealth'	1	9x11	VH1-201
	2, 3	11x12	VH1-202
	4 (2)	10x14	VH1-974
38S Standard	1	7x10	VH1-1077
	3	10x18	VH1-203
	5	14x16	VH1-196

### Disconnect Switches

Toggle, 1P, 25A, 600V		VH1-212
Toggle, 3P, 30A, 600V	VH1-211	
Toggle, 3P, 60A, 600V	VH1-213	

### Transformers

208/240/24V, 50VA	VH1-685
277/24V, 50VA	VH1-674
277/24V, 40VA	VH1-675
480/24V, 50VA	VH1-686
120/208/240/480V, 75VA	VH1-689

### Capacitors

Capacitors	Part No.
1/10 HP, 4MFD, 370V	H1-875
1/6 HP, 4MFD, 370V	H1-875
1/4 HP, 5MFD, 370V	H1-878
1/3 HP, 10MFD, 370V	H1-876
1/2 HP, 10MFD, 370V	H1-876
3/4 HP, 20MFD, 370V	H1-877

### Diamond Flow Sensor

Inlet Size		
4"	3/16" O.D. tube	V1104
5"	3/16" O.D. tube	V1105
6"	3/16" O.D. tube	V1106
7"	3/16" O.D. tube	V1107
8"	3/16" O.D. tube	V1108
9"	3/16" O.D. tube	V1109
10"	3/16" O.D. tube	V1110
12"	3/16" O.D. tube	V1112
14"	3/16" O.D. tube	V1114
16"	3/16" O.D. tube	V1116
18"	3/16" O.D. tube	V1118

### Fan Relays

1 Pole, 24V	H1-666
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### Airflow Switch

AFS	H1-235
AFS Probe, 4"	H1-242
AFS Probe, 8"	H1-245

### P.E. Switch

Switch, P-E	H1-539
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### SCR Fan Speed Controller (PSC Motors)

120V, 10A	H1-0035
120V, 15A	H1-985
208V, 10A	H1-982
277V, 5A	H1-935
277V, 10A	H1-0035A

## Replacement Parts

PSC Induction Motors	Unit Size	HP	Part No.	Part No.	Part No.	Part No.
			120V	208V/240V	277V	Blower Assembly
35S, 35SST	2	1/10	VH1-880	VH1-894	VH1-887	VH1-902
	3	1/4	VH1-882	VH1-896	VH1-889	VH1-900
	4	1/3	VH1-883	VH1-897	VH1-890	VH1-901
	5	1/2	VH1-884	VH1-898	VH1-891	VH1-903
	6	3/4	VH1-885	VH1-899	VH1-892	VH1-904
	7	1/2	VH1-884 (2)	VH1-898 (2)	VH1-891 (2)	VH1-903 (2)
	35P, 35N	2 (35P)	1/6	VH1-881	VH1-895	VH1-895
2 (35N)		1/10	VH1-880	VH1-894	VH1-887	VH1-902
3		1/4	VH1-882	VH1-896	VH1-889	VH1-900
4		1/3	VH1-883	VH1-897	VH1-890	VH1-901
5		1/2	VH1-884	VH1-898	VH1-891	VH1-903
6		3/4	VH1-885	VH1-899	VH1-892	VH1-904
7		3/4	VH1-885	VH1-899	VH1-892	VH1-904
37S, 37SST	2	1/6	VH1-881	VH1-895	VH1-888	VH1-906
	3	1/4	VH1-882	VH1-896	VH1-889	VH1-906
	4	1/4	VH1-882 (2)	VH1-896 (2)	VH1-889 (2)	VH1-906 (2)
38S	1	1/10	VH1-880	VH1-894	VH1-887	VH1-907, VH1-907A
	3	1/4	VH1-882	VH1-896	VH1-888	VH1-906
ECM Motors	Unit Size	HP	120V	240V	277V	
35S, 35SST	3	1/2	VH1-0046A	VH1-0046A	VH1-0046	VH1-900
	5	3/4	VH1-0045A	VH1-0045A	VH1-0045	VH1-903
	7	3/4	VH1-0045A (2)	VH1-0045A (2)	VH1-0045 (2)	VH1-903 (2)
37S, 37SST	1	1/3	VH1-0046B	VH1-0046B	VH1-0045B	VH1-905
	3	1/3	VH1-0046B	VH1-0046B	VH1-0045B	VH1-906
	4	1/3	VH1-0045A (2)	VH1-0045A (2)	VH1-0045B (2)	VH1-906 (2)
38S	1	1/3	VH1-0046B	VH1-0046B	VH1-0045B	VH1-907, VH1-907A
	3	1/3	VH1-0046B	VH1-0046B	VH1-0045B	VH1-906
Fan Motor Fuses			Primary Damper Valve			
250V, 15A			VH1-320	Model Series 35S, 35SST and 35P		
250V, 20A			VH1-321	Inlet size		
600V, 15A			VH1-329	6"	VH1-1106	
600V, 3A			VH1-0011	8"	VH1-1107	
600V, 5A			VH1-965	10"	VH1-1108	
600V, 8A			VH1-967	12"	VH1-1109	
				14"	VH1-1110	
				16"	VH1-1111	
				18"	VH1-1112	
Pneumatic FR Tubing (1/4" O.D.)				Model Series 35N		
Black			VB3-066	Inlet size		
Blue stripe			VB3-068	6"	VH1-1113	
Red stripe			VB3-067	8"	VH1-1114	
Tee For Sensor Tap				10"	VH1-1115	
Barbed, 1/8"			VB3-058	12"	VH1-1116	
Cap For Sensor Tap				14"	VH1-1117	
Rubber, for 1/8" Tee			VB3-059	16"	VH1-1118	
				Model Series 37S		
				Inlet Size		
				4", 5", 6"	VH1-1119	
				8"	VH1-1120	
				10"	VH1-1121	
				14" x 10"	VH1-1122	



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