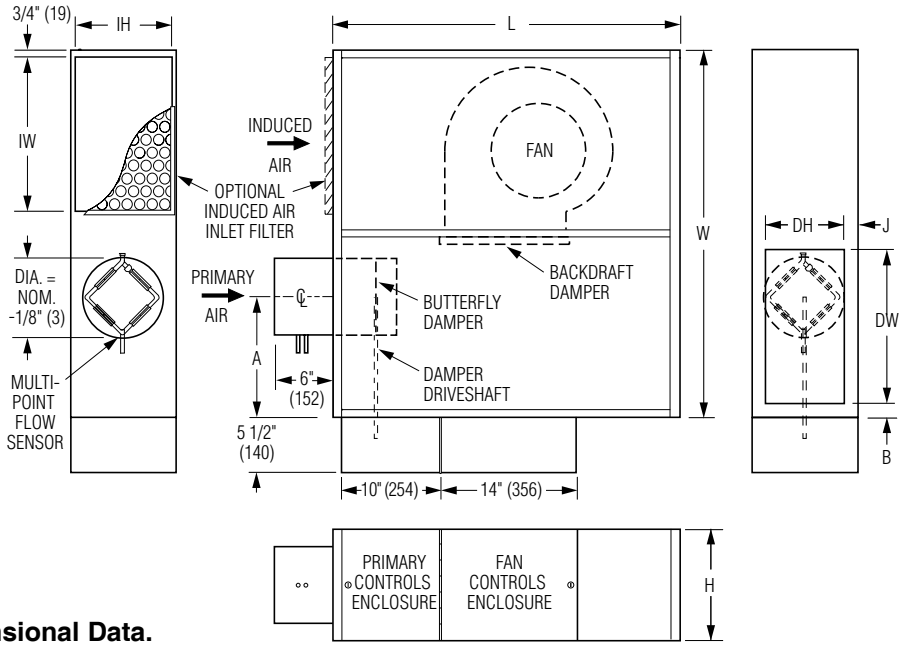
Nailor® Industries Inc.

LOW PROFILE FAN POWERED TERMINAL UNIT WITH ECM MOTOR

PARALLEL FLOW • VARIABLE VOLUME

MODELS: 37N, 37NW AND 37NE • UNIT SIZES 2, 3 & 4

Right Hand Unit, top view illustrated.



SSI Listed

C ETL US LISTED Intertek

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

Dimensional Data.

Unit Size	Inlet Size	W	L	H	A	Induced Air Inlet IWx IH	Outlet Discharge DW x DH	B	J	Filter (Optional) Size
2	6 (152), 8 (203) 10 (254)	32 (813)	36 (914)	11 (279)	7 7/8 (200) 6 1/2 (165)	12 x 10 (305 x 254)	10 x 8 (254 x 203)	1 1/2 (38)	1 1/2 (38)	14 x 11 (356 x 279)
3	8 (203), 10 (254) 14 x 8 (356 x 203)	38 (965)	36 (914)	11 (279)	12 (305) 8 1/8 (206)	16 x 10 (406 x 254)	16 x 8 (406 x 203)	1 1/2 (38)	1 1/2 (38)	18 x 11 (457 x 279)
4	14 x 8 (356 x 203) 14 x 10 (356 x 254)	43 (1092)	36 (914)	12 1/2 (318)	13 (330)	19 x 10 (483 x 254)	19 x 11 (483 x 279)	1 (25)	3/4 (19)	21 x 11 (533 x 279)

DESCRIPTION:

• Only 11" (279) to 12 1/2" (318) high.

• 20 ga. (1.0) galvanized steel construction.

• 2 x 20 ga. (1.0) round or rectangular damper with a polyurethane peripheral gasket. 90° rotation, CW to close. Tight shut-off. Damper leakage is less than 2% of the terminal rated airflow at 3" w.g. (750 pa.) as tested in accordance with ANSI / ASHRAE Standard 130.

• Multi-point averaging Diamond Flow sensor.

• Access panels top and bottom.

• 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 of NFPA 90A and UL 181.

• Single point electrical and/or pneumatic main air connection.

• Discharge opening for flanged duct connection.

• Gasketed backdraft damper mounted on fan discharge.

• 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 (Right Hand unit). Terminals ordered with LH controls (optional) are built as mirror image (Left Hand unit). Inlets and discharge are opposite of drawing.

Options:

- ❑ Filter frame and 1" (25) disposable filter.
- ❑ Induced air attenuator.
- ❑ Toggle disconnect switch.
- ❑ Steri-liner.
- ❑ Fiber-free liner.
- ❑ Solid metal liner.
- ❑ Perforated metal liner.
- ❑ Fan unit fusing.
- ❑ Hanger brackets.
- ❑ Left-hand controls location.
- ❑ Dust tight enclosure seal.

Electrical Data

Unit Size	Motor H.P.	ECM MOTOR FLA† 120V	208V	240V	277V
2	*	2.1	1.5	1.5	1.4
3	*	4.2	2.5	2.6	2.6
4	*	5.1	3.7	3.7	3.8

***** The ECM is a variable horsepower motor. Refer to Selectworks Schedule.

FLA = Full load amperage

† EON motor series

Seismic Certification:

- ❑ Seismic Source International (Standard)
- ❑ Special Features: _____ .

For heat options; see page 2.

Dimensions are in inches (mm).

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	11 - 20 - 26	3700	6 - 7 - 22	37N-2

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❑ Hot Water Coil Section Model 37NW

Standard Features:

- 1/2" (13) copper tubes.
- Aluminum ripple fins.
- Sweat connections: 1/2" (13) O. D. male solder. Two row 7/8" (22) O.D. male solder.

Coil Rows:

❑ 1-Row ❑ 2-Row

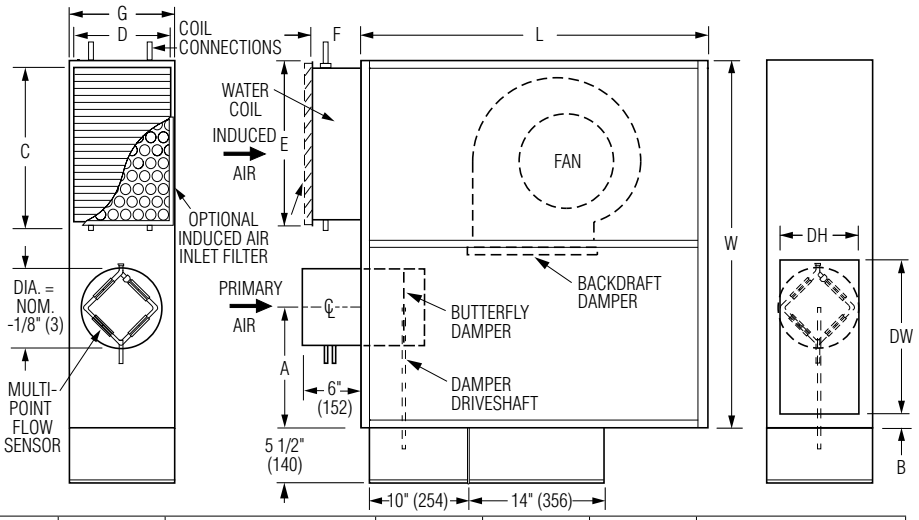
Coil Hand Connections:

(Looking in direction of airflow).

❑ Left hand (illustrated). Standard.

❑ Right hand (terminals are inverted. Built as mirror image) Optional.

Connections must be selected opposite hand to controls enclosure location.

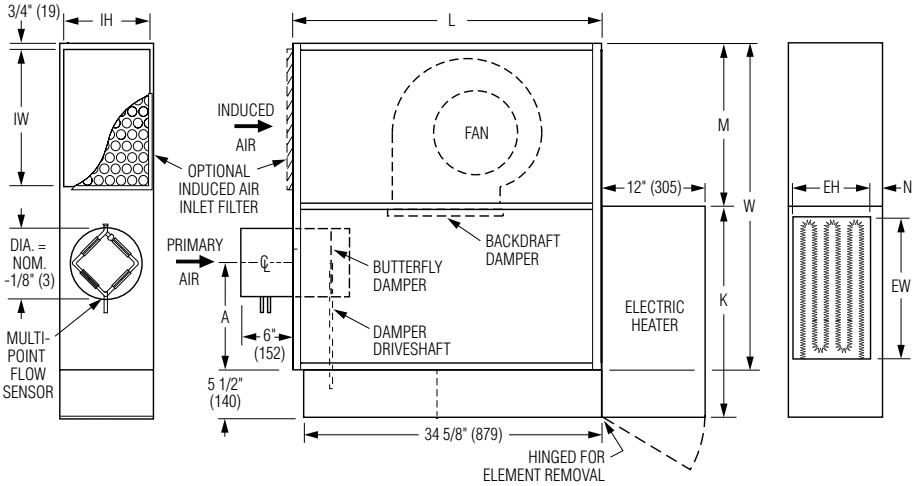


Unit Size	W	L	H	B	C x D	E	F	G	DW x DH
2	32 (813)	36 (914)	11 (279)	1 1/2 (38)	12 x 10 (305 x 254)	13 (330)	5 (127)	11 (279)	10 x 8 (254 x 203)
3	38 (965)	36 (914)	11 (279)	1 1/2 (38)	16 x 10 (406 x 254)	17 (432)	5 (127)	11 (279)	16 x 8 (406 x 203)
4	43 (1092)	36 (914)	12 1/2 (318)	1 (25)	21 x 10 (533 x 254)	22 (559)	5 (127)	11 (279)	19 x 11 (483 x 279)

❑ Electric Coil Section Model 37NE

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.
- Magnetic contactors.
- Automatic reset high limit cut-outs (one per element).
- Single point electrical connection (except 600V).
- Fan interlock relay.
- Flanged outlet duct connection.
- Class A 80/20 Ni/Cr wire.
- Controls mounted as standard on RH side as shown. Terminals ordered with LH controls (optional) are built as mirror image.



Voltage:

Single phase, 60 Hz.

❑ 120V ❑ 208V ❑ 240V ❑ 277V

Three phase, 60 Hz.

❑ 208V ❑ 480V (4 wire wye)

❑ 600V (Dual point connection)

❑ _____ .

Options:

- ❑ Airflow safety switch
- ❑ SCR Control
- ❑ SCR control with discharge temperature control
- ❑ Toggle disconnect switch (includes fan)
- ❑ Door interlock disconnect switch.
- ❑ Main line fusing.
- ❑ Dust tight construction.
- ❑ Manual reset secondary thermal cut out.

Unit Size	W	L	H	IW x IH	K	M	N	EW x EH
2	32 (813)	36 (914)	11 (279)	12 x 10 (305 x 254)	18 1/2 (470)	19 (483)	1 1/2 (38)	10 1/2 x 9 (267 x 229)
3	38 (965)	36 (914)	11 (279)	16 x 10 (406 x 254)	24 1/2 (622)	19 (483)	1 1/2 (38)	16 1/2 x 9 (419 x 229)
4	43 (1092)	36 (914)	12 1/2 (318)	19 x 10 (483 x 254)	27 (686)	22 (559)	3/4 (19)	19 x 10 1/2 (483 x 267)

SCHEDULE TYPE:	Page 2 of 2. Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**11 - 20 - 26**	**3700**	**6 - 7 - 22**	**37N-2**

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