



## SINGLE DUCT TERMINAL UNIT

### 3000 SERIES

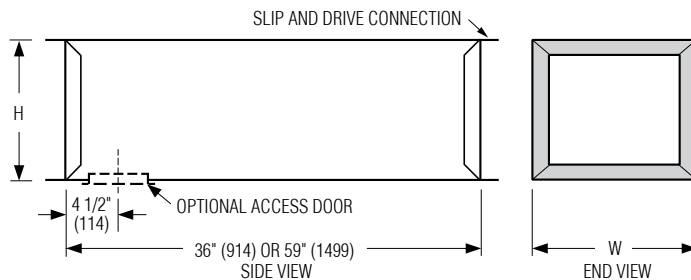
ACCESSORY • DISCHARGE SOUND ATTENUATOR

MODELS: AT303 AND AT305

## Accessories:

Accessories ordered as separate standalone models.

### AT Discharge Sound Attenuator (loose)



- 22 ga. (0.86) galvanized steel construction.
- Slip and drive connection.
- 3/4" (19) dual density fiberglass insulation, exposed edges coated to prevent erosion as standard.
- Field installed.

### Dimensional Data

Unit Size	W	H
4, 5, 6	10 (254)	10 (254)
7, 8	12 (305)	12 1/2 (318)
9, 10	14 (356)	12 1/2 (318)
12	18 (457)	12 1/2 (318)
14	24 (610)	12 1/2 (318)
16	28 (711)	12 1/2 (318)
24 x 16	38 (965)	18 (457)

### Options:

- ☐ **FG** 13/16" (21) Steri-Liner
- ☐ **FG1** 1" (25) Steri-Liner
- ☐ **FGJ** 13/16" (21) Steri-Liner and Perforated Metal Liner
- ☐ **FG2** 3/4" (19) Fiber Free Liner
- ☐ **FG3** 1" (25) Fiber Free Liner
- ☐ **FJ** 3/4" (19) Perforated Metal Liner with Fiberglass
- ☐ **FL** 3/4" (19) Solid Metal Liner with Fiberglass
- ☐ **FT1** 1" (25) Dual Density Fiberglass Liner
- ☐ **FT3** 2" (51) Dual Density Fiberglass Liner
- ☐ Access Door
  - Sizes 4 to 12 : 8" x 5" (203 x 127) Flat Oval;
  - Sizes 14 to 24 x 16: 12" x 6" (305 x 152) Flat Oval.
- ☐ Special Features: \_\_\_\_\_

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm)

DATE

B SERIES

SUPERSEDES

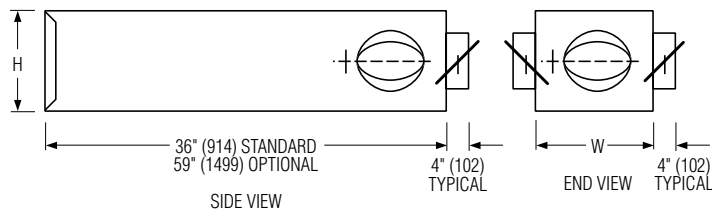
DRAWING NO.

7 - 11 - 25

3000

1 - 9 - 25

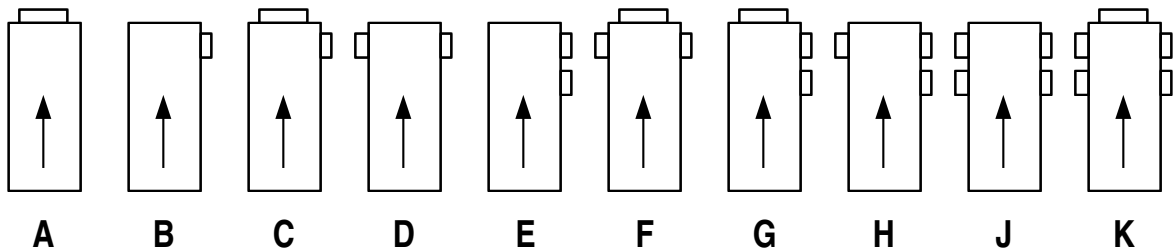
30AT

**Multi-Outlet Attenuator**


- ☐ **MOA303** 3' (916) Long
- ☐ **MOA305** 5' (1524) Long

**Available Combinations**

Unit Size	W	H	No. of Outlets	Outlet Size
4, 5, 6	10 (254)	10 (254)	1, 2, or 3	6 (152)
7, 8	12 (305)	12 1/2 (318)	2, 3, 4 or 5	6, 8 (152, 203)
9, 10	14 (356)	12 1/2 (318)	3, 4 or 5	8 (203)
	14 (356)	12 1/2 (318)	2, 3 or 4	10 (254)
12	18 (457)	12 1/2 (318)	4 or 5	8 (203)
	18 (457)	12 1/2 (318)	3, 4 or 5	10 (254)
14	28 (711)	12 1/2 (318)	4 or 5	10 (254)
16	28 (711)	12 1/2 (318)	4 or 5	10 (254)

**Standard Outlet Arrangements**

**Features:**

- 22 ga. (0.86) corrosion-resistant steel, mechanically sealed, low leakage construction.
- All are supplied with slip and drive cleat duct connection.
- Shipped loose for field attachment.
- 3/4" (19) dual density insulation standard. Exposed edges are coated to prevent erosion. Meets requirements of NFPA 90A and UL 181 Standards.
- Only one outlet size to be specified per M.O.A.. No mixing of outlet sizes on the same unit.
- Number and size of outlets on M.O.A. not to exceed the limits listed in table, both maximum quantity of outlets and maximum size of outlet.
- All round outlets c/w manual dampers with hand locking quadrant.
- Denotes inlet air flow direction. →
- For special outlet sizes and arrangements, consult your Nailor representative.

**Options:**

- ☐ Steri-liner.
- ☐ Fiber-free liner.
- ☐ 1" (25) liner.
- ☐ Special Features: \_\_\_\_\_

**SCHEDULE TYPE:**
**PROJECT:**
**ENGINEER:**
**CONTRACTOR:**

Dimensions are in inches (mm)

**DATE**
**B SERIES**
**SUPERSEDES**
**DRAWING NO.**
**3 - 30 -17**
**3000**
**1 - 20 -14**
**30MOA**



## SINGLE DUCT TERMINAL UNIT

### 3100 SERIES

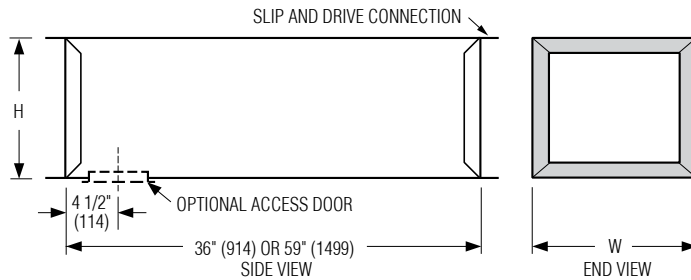
ACCESSORY • DISCHARGE SOUND ATTENUATOR

MODELS: AT313 AND AT315

### Accessories:

Accessories ordered as separate standalone models.

#### AT Discharge Sound Attenuator (loose)



- 22 ga. (0.86) galvanized steel construction.
- Slip and drive connection.
- 3/4" (19) dual density fiberglass insulation, exposed edges coated to prevent erosion as standard.
- Field installed.

#### Dimensional Data

Unit Size	W	H
4, 5, 6	12 (305)	8 (203)
7, 8	12 (305)	10 (254)
9, 10	14 (356)	12 1/2 (318)
12	16 (406)	15 (381)
14	20 (508)	17 1/2 (445)
16	24 (610)	18 (457)
24 x 16	38 (965)	18 (457)

#### Options:

- ☐ **FG** 13/16" (21) Steri-Liner
- ☐ **FG1** 1" (25) Steri-Liner
- ☐ **FGJ** 13/16" (21) Steri-Liner and Perforated Metal Liner
- ☐ **FG2** 3/4" (19) Fiber Free Liner
- ☐ **FG3** 1" (25) Fiber Free Liner
- ☐ **FJ** 3/4" (19) Perforated Metal Liner with Fiberglass
- ☐ **FL** 3/4" (19) Solid Metal Liner with Fiberglass
- ☐ **FT1** 1" (25) Dual Density Fiberglass Liner
- ☐ **FT3** 2" (51) Dual Density Fiberglass Liner
- ☐ Access Door
  - Sizes 4 to 12 : 8" x 5" (203 x 127) Flat Oval;
  - Sizes 14 to 24 x 16: 12" x 6" (305 x 152) Flat Oval.
- ☐ Special Features: \_\_\_\_\_

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm)

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 11 - 25

3100

NEW

31AT



## TERMINAL UNITS LINER OPTIONS TYPE: FIBERGLASS DUAL DENSITY INSULATION

### DESCRIPTION

Tuf-Skin® dual-density fiberglass insulation is the most widely-used insulation for HVAC equipment applications. The combination of high-density skin and low-density core provides high acoustical values in the high and low frequency ranges normally encountered in HVAC equipment.

**Application.** Tuf-Skin® provides effective thermal and acoustical control in air conditioning and heating equipment.

**Advantage.** The porosity and inherent structure of the flame-attenuated glass fiber blankets are highly effective in reducing thermal transfer.

Tuf-Skin® readily withstands damage from mechanical abrasion during assembly and from air erosion in service.

### INSULATION CHARACTERISTICS

Material:	Dual density fiberglass, surface treated to prevent erosion (Tuf-Skin® II)
Available Thicknesses:	1/2" (13), 3/4" (19), 1" (25) (Consult individual model submittal for thickness used).
Density:	4.0 lb/cu.ft. (64 kg/m <sup>3</sup> ) skin, 1.5 lb/cu.ft. (24 kg/m <sup>3</sup> ) core
Thermal Conductance:	1/2" (13) - 0.52 BTU / hr-ft <sup>2</sup> -°F @ 75°F (2.95 W / m <sup>2</sup> -°C @ 24°C), 3/4" (19) - 0.36 BTU / hr-ft <sup>2</sup> -°F @ 75°F (2.04 W / m <sup>2</sup> -°C @ 24°C), 1" (25) - 0.26 BTU / hr-ft <sup>2</sup> -°F @ 75°F (1.47 W / m <sup>2</sup> -°C @ 24°C)
Thermal Resistance: (Effective R-Value)	1/2" (13) - 1.9 hr-ft <sup>2</sup> -°F / BTU (0.34 m <sup>2</sup> -°C / W), 3/4" (19) - 2.8 hr-ft <sup>2</sup> -°F / BTU (0.49 m <sup>2</sup> -°C / W), 1" (25) - 3.8 hr-ft <sup>2</sup> -°F / BTU (0.68 m <sup>2</sup> -°C / W)
Flame Spread Index:	25
Smoke Developed Index:	50

### MAXIMUM AIR VELOCITY

3,600 FPM (1,097 mpm). Tested at two and one-half times (9,000 fpm) (2,743 mpm) the maximum recommended service velocity. Meets the erosion requirements of UL 181.

### TEMPERATURE LIMIT

250°F (121°C).

### STANDARD AND CODE COMPLIANCE

- ASTM E84, UL 723 and CAN/ULC S102 Flame/Smoke (25/50)
- NFPA 90A and 90B
- ASTM C 1071

Tuf-Skin® is a registered trademark of Johns Manville.

<b>SCHEDULE TYPE:</b>	Dimensions are in inches (mm)			
<b>PROJECT:</b>				
<b>ENGINEER:</b>	<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>
<b>CONTRACTOR:</b>	5 - 12 - 22	VAV.ACC.	3 - 30 - 22	VAV-FDD