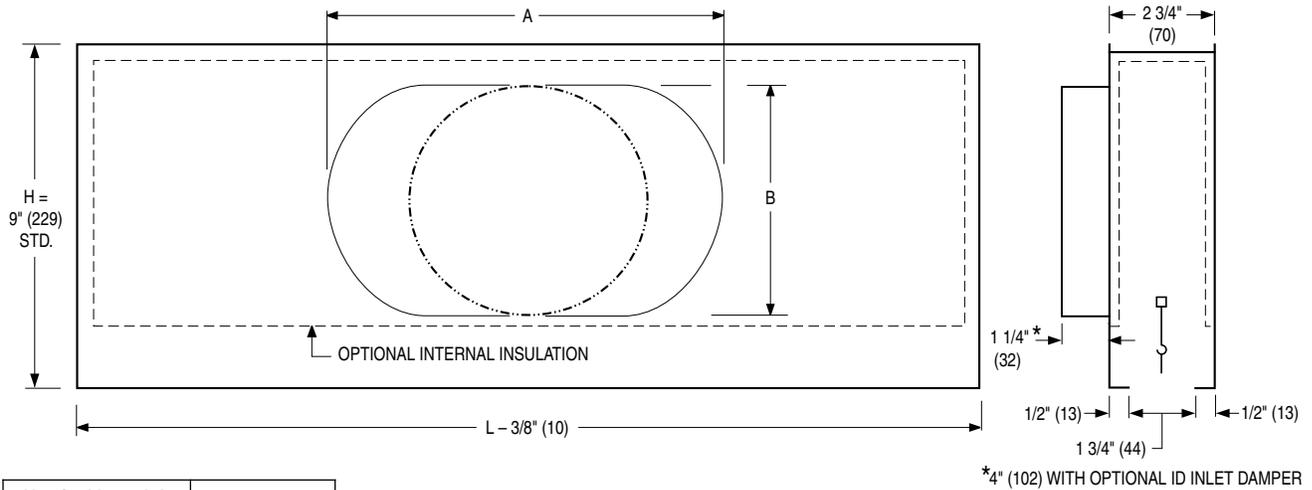




BS SERIES PLENUM SLOT DIFFUSERS
 SUPPLY • PREMIUM PERFORMANCE
 ADJUSTABLE VERTICAL DISCHARGE
 MODEL: 59BS(I)



| Nominal Length L | | Available Inlet Sizes |
|------------------|----------------|-----------------------------|
| Imperial Modules | Metric Modules | |
| 24 (610) | 600 | 6, 8, 10 (152, 203, 254) |
| 36 (914) | 900 | |
| 48 (1219) | 1200 | |
| 60 (1524) | 1500 | |

| Nominal Inlet Size | Std. Dimension H = 9 | | Opt. Dimension H = 11 | | Opt. Dimension H = 7 | |
|--------------------|----------------------|-------------|-----------------------|-------------|----------------------|---------|
| | A | B | A | B | A | B |
| 6 (152) | — | 5 7/8 (149) | — | 5 7/8 (149) | 7 (178) | 4 (102) |
| 8 (203) | 9 (229) | 5 7/8 (149) | — | 7 7/8 (200) | 10 1/8 (257) | 4 (102) |
| 10 (254) | 12 1/8 (308) | 5 7/8 (149) | 11 (279) | 7 7/8 (200) | 13 1/4 (337) | 4 (102) |

Inlets are round or oval as dimensioned.

DESCRIPTION:

- The 59BS Plenum Slot Ceiling Diffusers have been designed for standard lay-in T-Bar application.
- The 59BS design provides premium performance in perimeter curtain wall applications. An extruded aluminum pattern controller provides an adjustable vertical discharge along the wall or glass in perimeter applications.
- The design is excellent for VAV, heating and cooling applications.
- Standard nominal lengths are 24", 36", 48" and 60" (610, 914, 1219 and 1524) to suit imperial ceiling grids. Metric units are available. Standard H9 plenum height is 9" (229). Standard inlet sizes are 6" (152) round, 8" (203) and 10" (254) flat oval.
- Plenum is corrosion resistant steel.
- Finish: BK Black pattern controllers and exposed edges.

OPTIONS (see submittal 59N_BS-ACC for details):

- EX External Foil Back Insulation
- Internal Insulation. Model 59BSI
 - FGI 1/4" (6) Coated Fiberglass (default)
 - FFI 3/8" (10) Fiber-Free Foam
- ID Inlet Damper
- PF Plaster Frame

- Supplementary T-Bars
 - T1 One (inlet side)
 - T0 One (opposite inlet side)
 - T2 Two (Both sides)
- Mounting Clips
 - M1 One side (2 opposite inlet side)
 - M2 Both sides (4)
- Fineline/Bolt-Slot T-Bar Ceiling Construction (24" [610] and 48" [1219] nominal length only)
 Cross notch not available
 T-Bar Height
 - FNLA 1 3/4" (44)
 - FNLC 1 5/8" (41)
 - FNLD 1 25/32" (45)
- EQT Earthquake Tabs
- EC 3" (76) Extended inlet collar w/bead
- Non-standard Plenum Height
 - H7 7" (178) high
 - H11 11" (279) high
- FS Diamond Flow Sensor w/extended collar bead. Requires H11 option. 6" (152) and 8" (203) round inlet sizes only. (Not available on models with internal insulation).
- SP Special features _____ .

SCHEDULE TYPE:

PROJECT:

ENGINEER:

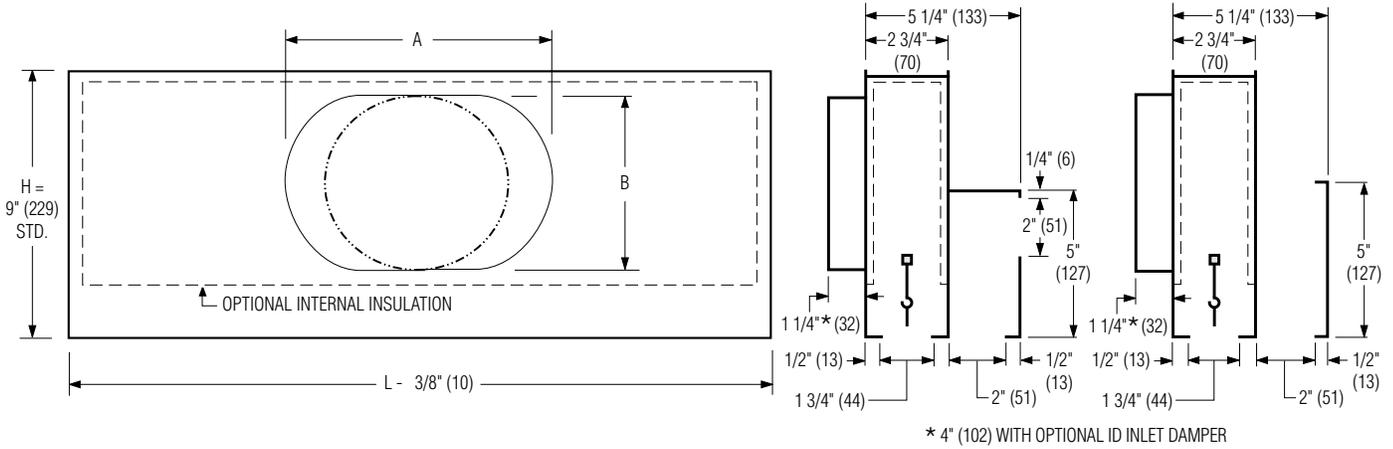
CONTRACTOR:

Dimensions are in inches (mm).

| DATE | B SERIES | SUPERSEDES | DRAWING NO. |
|-------------|----------|-------------|-------------|
| 4 - 28 - 14 | 5900 | 5 - 11 - 09 | 59BS |



BS SERIES PLENUM SLOT DIFFUSERS
SUPPLY/RETURN • PREMIUM PERFORMANCE
ADJUSTABLE VERTICAL DISCHARGE
MODEL: 59BSR(I)



**SR STANDARD SIDE
 INLET RETURN
 ILLUSTRATED**

**TR OPTIONAL TOP
 INLET RETURN
 ILLUSTRATED**

| Nominal Length L | | Available Inlet Sizes |
|------------------|----------------|-----------------------------|
| Imperial Modules | Metric Modules | |
| 24 (610) | 600 | 6, 8, 10 (152, 203, 254) |
| 36 (914) | 900 | |
| 48 (1219) | 1200 | |
| 60 (1524) | 1500 | |

| Nominal Inlet Size | Std. Dimension H = 9 | | Opt. Dimension H = 11 | | Opt. Dimension H = 7 | |
|--------------------|----------------------|-------------|-----------------------|-------------|----------------------|---------|
| | A | B | A | B | A | B |
| 6 (152) | — | 5 7/8 (149) | — | 5 7/8 (149) | 7 (178) | 4 (102) |
| 8 (203) | 9 (229) | 5 7/8 (149) | — | 7 7/8 (200) | 10 1/8 (257) | 4 (102) |
| 10 (254) | 12 1/8 (308) | 5 7/8 (149) | 11 (279) | 7 7/8 (200) | 13 1/4 (337) | 4 (102) |

Inlets are round or oval as dimensioned.

DESCRIPTION:

- The 59BSR Supply/Return Plenum Slot Ceiling Diffusers have been designed for standard lay-in T-Bar application.
- The 59BSR design provides premium performance in perimeter curtain wall applications. An extruded aluminum pattern controller provides an adjustable vertical discharge along the wall or glass in perimeter applications. An integral return air section returns room air into the ceiling plenum, with minimal short-circuiting of supply air. Standard (SR) side inlet return section also acts as a light shield and prevents see through.
- The design is excellent for VAV, heating and cooling applications.
- Standard nominal lengths are 24", 36", 48" and 60" (610, 914, 1219 and 1524) to suit imperial ceiling grids. Metric units are available. Standard H9 plenum height is 9" (229). Standard inlet sizes are 6" (152) round, 8" (203) and 10" (254) flat oval.
- Plenum is corrosion resistant steel.
- Finish: BK Black pattern controllers and exposed edges.

OPTIONS (see submittal 59N_BS-ACC for details):

- EX External Foil Back Insulation
- Internal Insulation. Model 59BSRI
 - FGI 1/4" (6) Coated Fiberglass (default)
 - FFI 3/8" (10) Fiber-Free Foam
- ID Inlet Damper
- PF Plaster Frame

- Supplementary T-Bars
 - T1 One (inlet side)
 - T0 One (opposite inlet side)
 - T2 Two (Both sides)
- Mounting Clips
 - M1 One side (2 opposite inlet side)
 - M2 Both sides (4)
- Fineline/Bolt-Slot T-Bar Ceiling Construction (24" [610] and 48" [1219] nominal length only) Cross notch not available
 - T-Bar Height
 - FNLA 1 3/4" (44)
 - FNLC 1 5/8" (41)
 - FNLD 1 25/32" (45)
- EQT Earthquake Tabs
- EC 3" (76) Extended inlet collar w/bead
- TR Top inlet return section
- Non-standard Plenum Height
 - H7 7" (178) high
 - H11 11" (279) high
- FS Diamond Flow Sensor w/extended collar bead. Requires H11 option. 6" (152) and 8" (203) round inlet sizes only. (Not available on models with internal insulation).
- SP Special features _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

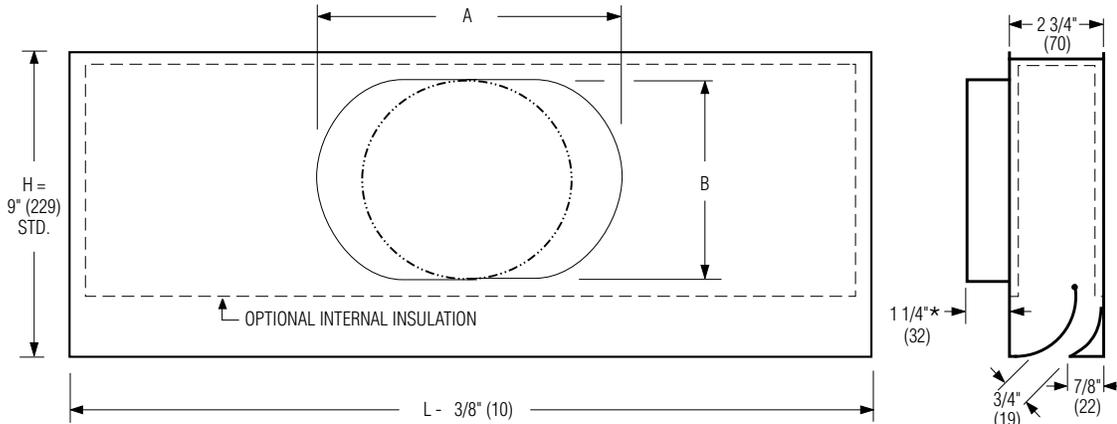
CONTRACTOR:

Dimensions are in inches (mm).

| DATE | B SERIES | SUPERSEDES | DRAWING NO. |
|-------------|----------|-------------|-------------|
| 4 - 28 - 14 | 5900 | 5 - 11 - 09 | 59BSR |



N SERIES PLENUM SLOT DIFFUSER
SUPPLY • PREMIUM PERFORMANCE
HORIZONTAL DISCHARGE
MODEL: 59N(I)



* 4" (102) WITH OPTIONAL ID INLET DAMPER

| Nominal Length L | | Available Inlet Sizes |
|------------------|----------------|-----------------------------|
| Imperial Modules | Metric Modules | |
| 24 (610) | 600 | 6, 8, 10 (152, 203, 254) |
| 36 (914) | 900 | |
| 48 (1219) | 1200 | |
| 60 (1524) | 1500 | |

| Nominal Inlet Size | Std. Dimension H = 9 | | Opt. Dimension H = 11 | | Opt. Dimension H = 7 | |
|--------------------|----------------------|-------------|-----------------------|-------------|----------------------|---------|
| | A | B | A | B | A | B |
| 6 (152) | — | 5 7/8 (149) | — | 5 7/8 (149) | 7 (178) | 4 (102) |
| 8 (203) | 9 (229) | 5 7/8 (149) | — | 7 7/8 (200) | 10 1/8 (257) | 4 (102) |
| 10 (254) | 12 1/8 (308) | 5 7/8 (149) | 11 (279) | 7 7/8 (200) | 13 1/4 (337) | 4 (102) |

Inlets are round or oval as dimensioned.

DESCRIPTION:

- The 59N Plenum Slot Ceiling Diffusers have been designed for standard lay-in T-Bar application.
- The 59N design provides premium performance. An aerodynamic extruded aluminum pattern controller provides a fixed horizontal discharge and produces a tight blanket of air into the room, maximizing coanda effect and induction of room air.
- The design is excellent for VAV, heating and cooling applications.
- Standard nominal lengths are 24", 36", 48" and 60" (610, 914, 1219 and 1524) to suit imperial ceiling grids. Metric units are available. Standard H9 plenum height is 9" (229). Standard inlet sizes are 6" (152) round, 8" (203) and 10" (254) flat oval.
- Plenum is corrosion resistant steel.
- Finish: BK Black pattern controllers and exposed edges.

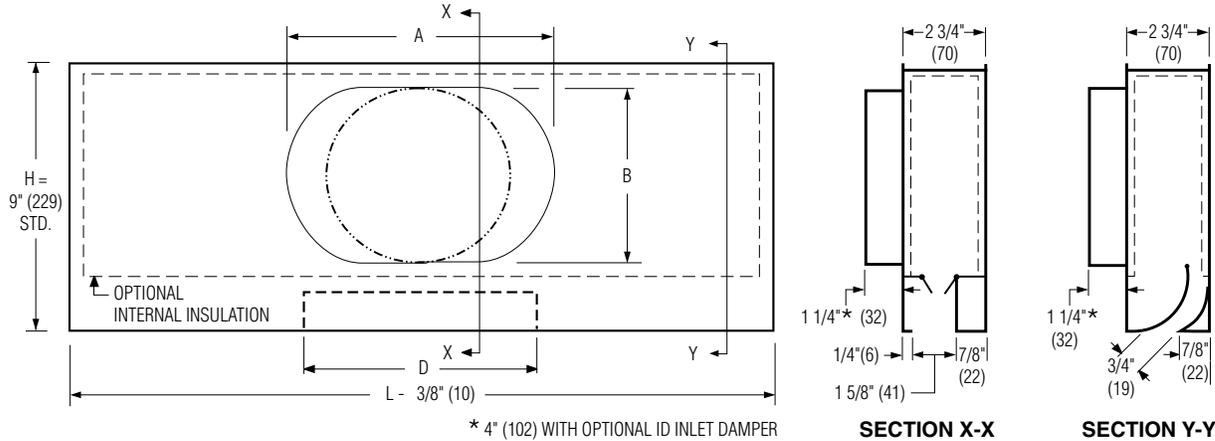
OPTIONS (see submittal 59N_BS-ACC for details):

- EX External Foil Back Insulation
- Internal Insulation. Model 59NI
 - FGI 1/4" (6) Coated Fiberglass (default)
 - FFI 3/8" (10) Fiber-Free Foam
- ID Inlet Damper
- PF Plaster Frame
- Supplementary T-Bars
 - T1 One (inlet side)
 - T0 One (opposite inlet side)
 - T2 Two (Both sides)
- Mounting Clips
 - M1 One side (2 opposite inlet side)
 - M2 Both sides (4)
- Fineline/Bolt-Slot T-Bar Ceiling Construction (24" [610] and 48" [1219] nominal length only)
 Cross notch not available
 T-Bar Height
 - FNLA 1 3/4" (44)
 - FNLC 1 5/8" (41)
 - FNLD 1 25/32" (45)
- EQT Earthquake Tabs
- EC 3" (76) Extended inlet collar w/bead
- Non-standard Plenum Height
 - H7 7" (178) high
 - H11 11" (279) high
- FS Diamond Flow Sensor w/extended collar bead. Requires H11 option. 6" (152) and 8" (203) round inlet sizes only. (Not available on models with internal insulation).
- SP Special features _____.

| | | | | | |
|-----------------------|-------------|--------------------------------|-------------------|--------------------|--|
| SCHEDULE TYPE: | | Dimensions are in inches (mm). | | | |
| PROJECT: | | | | | |
| ENGINEER: | DATE | B SERIES | SUPERSEDES | DRAWING NO. | |
| CONTRACTOR: | 4 - 28 - 14 | 5900 | 5 - 11 - 09 | 59N | |



N SERIES PLENUM SLOT DIFFUSER
SUPPLY • PREMIUM PERFORMANCE
HORIZONTAL / VERTICAL DISCHARGE
MODEL: 59ND (I)



| Nominal Length L | | Available Down-Blow Slot Dim. D | Available Inlet Sizes |
|------------------|----------------|---------------------------------|--------------------------|
| Imperial Modules | Metric Modules | | |
| 24 (610) | 600 | 8, 12 (203, 305) | 6, 8, 10 (152, 203, 254) |
| 36 (914) | 900 | 12, 15 (305, 381) | |
| 48 (1219) | 1200 | 12, 15, 18 (305, 381, 457) | |
| 60 (1524) | 1500 | 15, 18, 21 (381, 457, 533) | |

| Nominal Inlet Size | Std. Dimension H = 9 | | Opt. Dimension H = 11 | | Opt. Dimension H = 7 | |
|--------------------|----------------------|-------------|-----------------------|-------------|----------------------|---------|
| | A | B | A | B | A | B |
| 6 (152) | — | 5 7/8 (149) | — | 5 7/8 (149) | 7 (178) | 4 (102) |
| 8 (203) | 9 (229) | 5 7/8 (149) | — | 7 7/8 (200) | 10 1/8 (257) | 4 (102) |
| 10 (254) | 12 1/8 (308) | 5 7/8 (149) | 11 (279) | 7 7/8 (200) | 13 1/4 (337) | 4 (102) |

Inlets are round or oval as dimensioned.

DESCRIPTION:

- The 59ND Plenum Slot Ceiling Diffusers have been designed for standard lay-in T-Bar application.
- The 59ND design provides two air patterns and premium performance in perimeter curtain wall application. An aerodynamic extruded aluminum pattern controller provides a fixed horizontal discharge and produces a tight blanket of air into the room, maximizing coanda effect and induction of room air. A central down-blow section which incorporates two pattern controllers (shipped in wide open position), provides an adjustable vertical discharge along the wall or glass in perimeter applications.
- The design is excellent for VAV, heating and cooling applications.
- Standard nominal lengths are 24", 36", 48" and 60" (610, 914, 1219 and 1524) to suit imperial ceiling grids. Metric units are available. Standard H9 plenum height is 9" (229). Standard inlet sizes are 6" (152) round, 8" (203) and 10" (254) flat oval.
- Plenum is corrosion resistant steel.
- Finish: BK Black pattern controllers and exposed edges.

OPTIONS (see submittal 59N_BS-ACC for details):

- EX External Foil Back Insulation
- Internal Insulation. Model 59NDI
 - FGI 1/4" (6) Coated Fiberglass (default)
 - FFI 3/8" (10) Fiber-Free Foam
- ID Inlet Damper

- PF Plaster Frame
- Supplementary T-Bars
 - T1 One (inlet side)
 - T0 One (opposite inlet side)
 - T2 Two (Both sides)
- Mounting Clips
 - M1 One side (2 opposite inlet side)
 - M2 Both sides (4)
- Fineline/Bolt-Slot T-Bar Ceiling Construction (24" [610] and 48" [1219] nominal length only) Cross notch not available
 - T-Bar Height
 - FNLA 1 3/4" (44)
 - FNLC 1 5/8" (41)
 - FNLD 1 25/32" (45)
- EQT Earthquake Tabs
- EC 3" (76) Extended inlet collar w/bead
- Non-standard Plenum Height
 - H7 7" (178) high
 - H11 11" (279) high
- FS Diamond Flow Sensor w/extended collar bead. Requires H11 option. 6" (152) and 8" (203) round inlet sizes only. (Not available on models with internal insulation).
- SP Special features _____ .

SCHEDULE TYPE:

PROJECT:

ENGINEER:

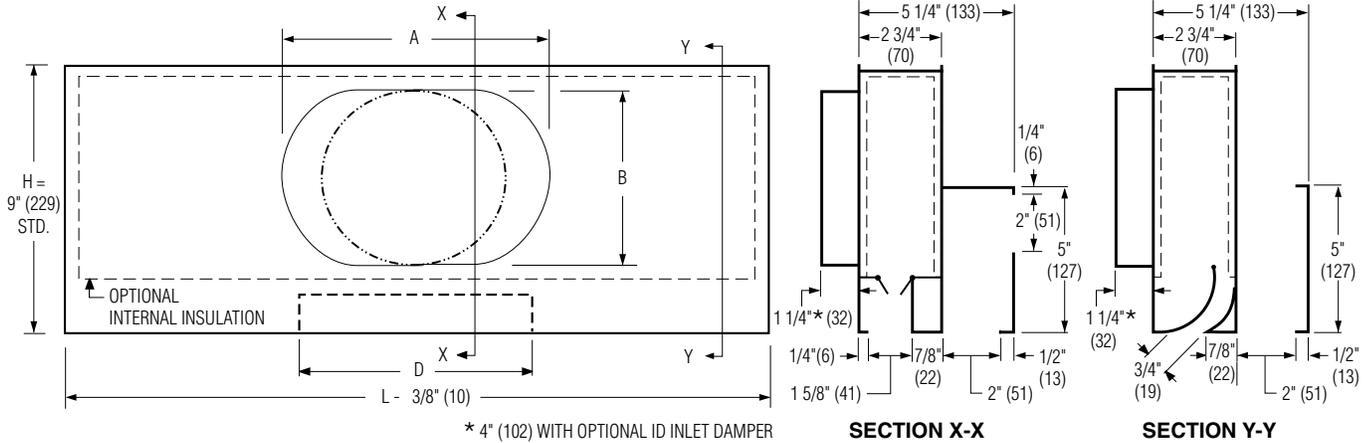
CONTRACTOR:

Dimensions are in inches (mm).

| DATE | B SERIES | SUPERSEDES | DRAWING NO. |
|-------------|----------|-------------|-------------|
| 4 - 28 - 14 | 5900 | 5 - 11 - 09 | 59ND |



N SERIES PLENUM SLOT DIFFUSER
SUPPLY / RETURN • PREMIUM PERFORMANCE
HORIZONTAL / VERTICAL DISCHARGE
MODEL: 59NDR (I)



| Nominal Length L | | Available Down-Blow Slot Dim. D | Available Inlet Sizes |
|------------------|----------------|---------------------------------|-----------------------------|
| Imperial Modules | Metric Modules | | |
| 24 (610) | 600 | 8, 12 (203, 305) | 6, 8, 10 (152, 203, 254) |
| 36 (914) | 900 | 12, 15 (305, 381) | |
| 48 (1219) | 1200 | 12, 15, 18 (305, 381, 457) | |
| 60 (1524) | 1500 | 15, 18, 21 (381, 457, 533) | |

| Nominal Inlet Size | Std. Dimension H = 9 | | Opt. Dimension H = 11 | | Opt. Dimension H = 7 | |
|--------------------|----------------------|-------------|-----------------------|-------------|----------------------|---------|
| | A | B | A | B | A | B |
| 6 (152) | — | 5 7/8 (149) | — | 5 7/8 (149) | 7 (178) | 4 (102) |
| 8 (203) | 9 (229) | 5 7/8 (149) | — | 7 7/8 (200) | 10 1/8 (257) | 4 (102) |
| 10 (254) | 12 1/8 (308) | 5 7/8 (149) | 11 (279) | 7 7/8 (200) | 13 1/4 (337) | 4 (102) |

Inlets are round or oval as dimensioned.

DESCRIPTION:

- The 59NDR Supply/Return Plenum Slot Ceiling Diffusers have been designed for standard lay-in T-Bar application.
- The 59NDR design provides two air patterns and premium performance in perimeter curtain wall application. An aerodynamic extruded aluminum pattern controller provides a fixed horizontal discharge and produces a tight blanket of air into the room, maximizing coanda effect and induction of room air. A central down-blow section which incorporates two pattern controllers (shipped in wide open position), provides an adjustable vertical discharge along the wall or glass in perimeter applications.
An integral return air section returns room air into the ceiling plenum, with minimal short-circuiting of supply air. Standard (SR) side inlet return section also acts as a light shield and prevents see through.
- The design is excellent for VAV, heating and cooling applications.
- Standard nominal lengths are 24", 36", 48" and 60" to suit imperial ceiling grids. Metric units are available. Standard H9 plenum height is 9" (229). Standard inlet sizes are 6" round, 8" and 10" flat oval.
- Plenum is corrosion resistant steel.
- Finish: BK Black pattern controllers and exposed edges.

OPTIONS (see submittal 59N_BS-ACC for details):

- EX External Foil Back Insulation
- a. Internal Insulation. Model 59NDR1
b. FGI 1/4" (6) Coated Fiberglass (default)
 FFI 3/8" (10) Fiber-Free Foam

- ID Inlet Damper
- PF Plaster Frame
- Supplementary T-Bars
 T1 One (inlet side)
 T0 One (opposite inlet side)
 T2 Two (Both sides)
- Mounting Clips
 M1 One side (2 opposite inlet side)
 M2 Both sides (4)
- Fineline/Bolt-Slot T-Bar Ceiling Construction (24" [610] and 48" [1219] nominal length only)
Cross notch not available
T-Bar Height
 FNLA 1 3/4" (44)
 FNLC 1 5/8" (41)
 FNLD 1 25/32" (45)
- EQT Earthquake Tabs
- EC 3" (76) Extended inlet collar w/bead
- TR Top inlet return section
- Non-standard Plenum Height
 H7 7" (178) high
 H11 11" (279) high
- FS Diamond Flow Sensor w/extended collar bead. Requires H11 option. 6" (152) and 8" (203) round inlet sizes only. (Not available on models with internal insulation).
- SP Special features _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

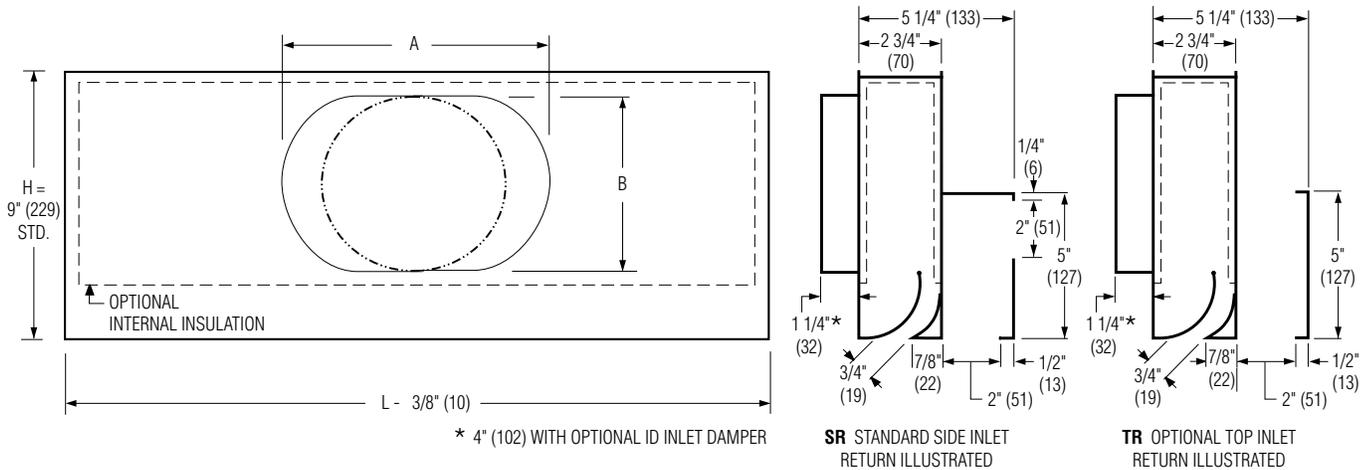
CONTRACTOR:

Dimensions are in inches (mm).

| DATE | B SERIES | SUPERSEDES | DRAWING NO. |
|-------------|----------|-------------|-------------|
| 4 - 28 - 14 | 5900 | 5 - 11 - 09 | 59NDR |



N SERIES PLENUM SLOT DIFFUSER
SUPPLY / RETURN • PREMIUM PERFORMANCE
HORIZONTAL DISCHARGE
MODEL: 59NR(I)



| Nominal Length L | | Available Inlet Sizes |
|------------------|----------------|-----------------------------|
| Imperial Modules | Metric Modules | |
| 24 (610) | 600 | 6, 8, 10 (152, 203, 254) |
| 36 (914) | 900 | |
| 48 (1219) | 1200 | |
| 60 (1524) | 1500 | |

| Nominal Inlet Size | Std. Dimension H = 9 | | Opt. Dimension H = 11 | | Opt. Dimension H = 7 | |
|--------------------|----------------------|-------------|-----------------------|-------------|----------------------|---------|
| | A | B | A | B | A | B |
| 6 (152) | — | 5 7/8 (149) | — | 5 7/8 (149) | 7 (178) | 4 (102) |
| 8 (203) | 9 (229) | 5 7/8 (149) | — | 7 7/8 (200) | 10 1/8 (257) | 4 (102) |
| 10 (254) | 12 1/8 (308) | 5 7/8 (149) | 11 (279) | 7 7/8 (200) | 13 1/4 (337) | 4 (102) |

Inlets are round or oval as dimensioned.

DESCRIPTION:

- The 59NR Supply/Return Plenum Slot Ceiling Diffusers have been designed for standard lay-in T-Bar application.
- The 59NR design provides premium performance. An aerodynamic extruded aluminum pattern controller provides a fixed horizontal discharge and produces a tight blanket of air into the room, maximizing coanda effect and induction of room air.
An integral return air section returns room air into the ceiling plenum, with minimal short-circuiting of supply air. Standard (SR) side inlet return section also acts as a light shield and prevents see through.
- The design is excellent for VAV, heating and cooling applications.
- Standard nominal lengths are 24", 36", 48" and 60" to suit imperial ceiling grids. Metric units are available. Standard H9 plenum height is 9" (229). Standard inlet sizes are 6" round, 8" and 10" flat oval.
- Plenum is corrosion resistant steel.
- Finish: BK Black pattern controllers and exposed edges.

OPTIONS (see submittal 59N_BS-ACC for details):

- EX External Foil Back Insulation
- Internal Insulation. Model 59NRI
 - FGI 1/4" (6) Coated Fiberglass (default)
 - FFI 3/8" (10) Fiber-Free Foam
- ID Inlet Damper

- PF Plaster Frame
- Supplementary T-Bars
 - T1 One (inlet side)
 - T0 One (opposite inlet side)
 - T2 Two (Both sides)
- Mounting Clips
 - M1 One side (2 opposite inlet side)
 - M2 Both sides (4)
- Fineline/Bolt-Slot T-Bar Ceiling Construction (24" [610] and 48" [1219] nominal length only)
Cross notch not available
T-Bar Height
 - FNLA 1 3/4" (44)
 - FNLC 1 5/8" (41)
 - FNLD 1 25/32" (45)
- EQT Earthquake Tabs
- EC 3" (76) Extended inlet collar w/bead
- TR Top inlet return section
- Non-standard Plenum Height
 - H7 7" (178) high
 - H11 11" (279) high
- FS Diamond Flow Sensor w/extended collar bead. Requires H11 option. 6" (152) and 8" (203) round inlet sizes only. (Not available on models with internal insulation).
- SP Special features _____.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

| DATE | B SERIES | SUPERSEDES | DRAWING NO. |
|-------------|----------|-------------|-------------|
| 4 - 28 - 14 | 5900 | 5 - 11 - 09 | 59NR |

PF Slot Diffuser Plaster Frame

Slot diffuser mounting frames allow plenum slot diffusers to be installed in drywall or plaster ceilings. Installation of the frame in the ceiling is by others.

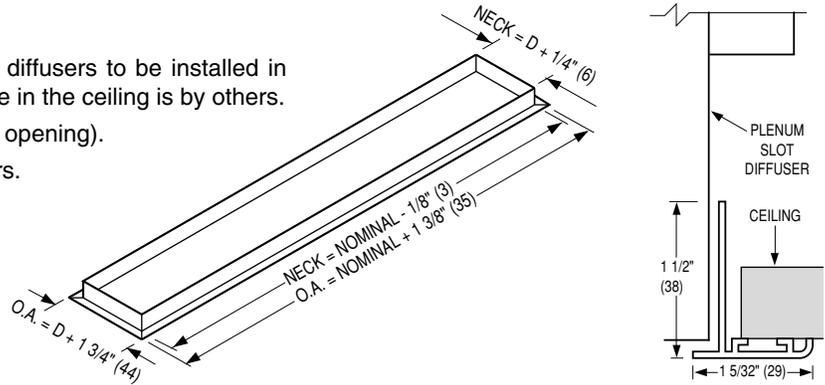
(Note: Diffuser will not fit through a plaster frame opening).

Material: Extruded aluminum with mitered corners.

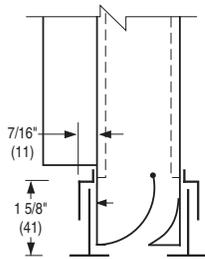
Recommended Ceiling Opening dimensions:

Width = Diffuser Width (D) + 1/2" (13)

Length = Nominal Diffuser Length + 1/4" (6)

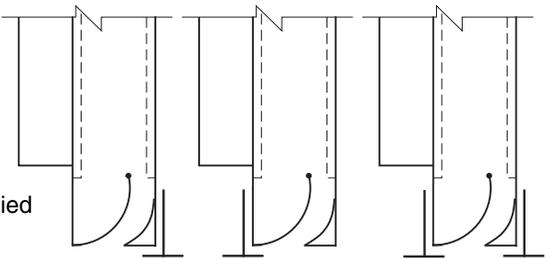

 Mounting Clips

- M1** One Side
(2 opposite inlet side)
- M2** Both sides
(4)


 Supplementary T-Bars

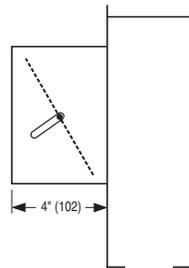
- T1** One on inlet side
- T0** One opposite inlet side
- T2** Two on both sides

Note: Center T-Bars are supplied by Nailor as standard.

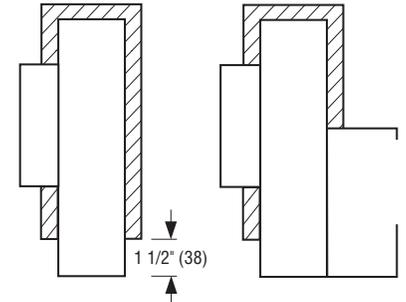

 ID Inlet Damper

(Supply models only)

The single blade damper is an economical factory installed option that permits air balancing of the device at the plenum inlet. Ceiling access is required.

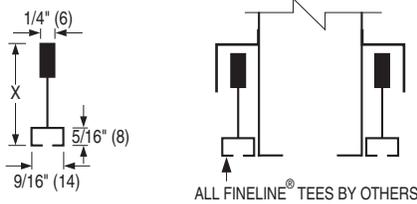

 External Foil Back Insulation

EX 1/2" (13) thick
 1/2" (13) thick fiberglass blanket with a reinforced aluminum foil scrim-craft (FSK) facing, providing a vapor barrier.


 Fineline/Bolt-Slot T-Bar Ceiling Construction

(24" [610] and 48" [1219] Nominal length only)
 Plenum length = Nominal - 5/8" (16)

- FNLA** **FNLC** **FNLD**

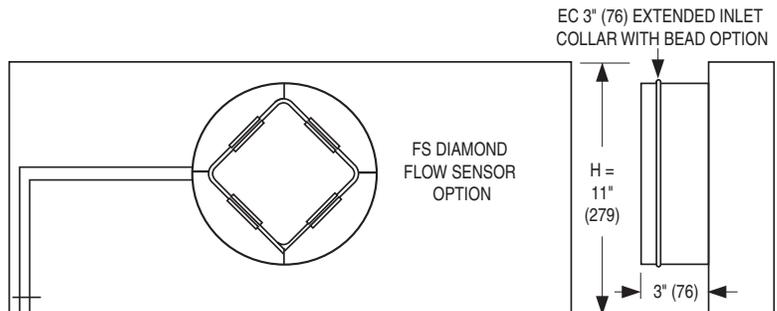


| T-Bar Type (Manufacturer) | X |
|--|---------------|
| FNLA Armstrong Silhouette | 1 3/4" (44) |
| FNLC Chicago Metallic Ultraline | 1 5/8" (41) |
| FNLD Donn Fineline | 1 25/32" (45) |

Fineline® is a registered trademark of USG Interiors Inc.

 EC Extended Inlet Collar with Bead
 FS Diamond Flow Sensor with Extended Inlet Collar and Bead

Optional multi-point Diamond Flow sensor provides accurate field balancing. Gauge taps are conveniently located flush in the slot face eliminating the need for ceiling access. Includes 3" (76) extended inlet collar. 6" (152) and 8" (203) round inlet sizes only. Units with FS option are 11" (279) high.


SCHEDULE TYPE:
PROJECT:
ENGINEER:
CONTRACTOR:

Dimensions are in inches (mm).

DATE
B SERIES
SUPERSEDES
DRAWING NO.

4 - 28 - 14

59N

5 - 11 - 09

59N_BS-ACC

PERFORMANCE DATA:

MODELS: 59BS(I) and 59BSR(I) • VERTICAL PATTERN

24" (610) Long

| | | | | | | | | | |
|-----------------------|-----------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| 6" Round Inlet | Airflow, CFM | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 |
| | Total Pressure | .018 | .033 | .051 | .073 | .100 | .130 | .165 | .204 |
| | Static Pressure | .012 | .022 | .035 | .050 | .068 | .088 | .112 | .138 |
| | Noise Criteria | – | – | – | – | – | 20 | 25 | 29 |
| | Vertical Throw | 5 | 6 | 7 | 8 | 9 | 9 | 10 | 11 |

36" (914) Long

| | | | | | | | | | |
|-----------------------|-----------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 8" Round Inlet | Airflow, CFM | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
| | Total Pressure | .016 | .028 | .043 | .062 | .085 | .111 | .140 | .173 |
| | Static Pressure | .011 | .020 | .032 | .046 | .062 | .081 | .103 | .127 |
| | Noise Criteria | – | – | – | – | – | 20 | 23 | 27 |
| | Vertical Throw | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |

48" (1219) Long

| | | | | | | | | | |
|----------------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .024 | .042 | .066 | .094 | .129 | .168 | .212 | .262 |
| | Static Pressure | .016 | .029 | .045 | .065 | .088 | .115 | .146 | .180 |
| | Noise Criteria | – | – | – | – | 20 | 24 | 26 | 31 |
| | Vertical Throw | 7 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |

60" (1524) Long

| | | | | | | | | | |
|----------------------|-----------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| | Total Pressure | .029 | .051 | .080 | .115 | .157 | .205 | .259 | .320 |
| | Static Pressure | .017 | .031 | .048 | .069 | .094 | .123 | .156 | .192 |
| | Noise Criteria | – | – | – | – | 22 | 27 | 32 | 37 |
| | Vertical Throw | 8 | 10 | 11 | 12 | 13 | 14 | 15 | 17 |

Return Section

| | | | | | | | | | |
|-----------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| R Models | Airflow, CFM/Ft. | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| | Negative Static Pressure | -.010 | -.018 | -.027 | -.038 | -.050 | -.063 | -.079 | -.098 |

Performance Notes:

- Vertical throws are given at 50 fpm terminal velocities for a free jet under isothermal conditions.
- Throw correction factors for different ΔT 's.
 20°F cooling x 1.40
 10°F heating x 0.85
 15°F heating x 0.72
 20°F heating x 0.60
- All pressures are in inches w.g..
- Tested with pattern controller set fully open for vertical discharge. Straight flexible duct connection.
- Noise Criteria [NC] values based on a room absorption of 10 dB, re 10⁻¹² watts. Dash (–) in space denotes an Noise Criteria level less than 15.
- Data derived from independent tests conducted in accordance with ANSI/ASHRAE Standard 70-2023.

PERFORMANCE DATA

MODELS 59N(I) AND 59NR(I) • HORIZONTAL PATTERN • 9" (229) HIGH PLENUM (STD.)

24" (610) Long

| | | | | | | | | | |
|-----------------------|------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| 6" Round Inlet | Airflow, CFM | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 |
| | Total Pressure | .039 | .070 | .110 | .158 | .215 | .281 | .355 | .439 |
| | Static Pressure | .033 | .059 | .093 | .134 | .182 | .238 | .303 | .372 |
| | Noise Criteria | – | 16 | 22 | 27 | 31 | 34 | 36 | 39 |
| | Horizontal Throw | 3-5-13 | 5-9-15 | 6-11-17 | 8-12-19 | 10-15-20 | 11-14-21 | 12-16-23 | 13-17-24 |
| 8" Oval Inlet | Airflow, CFM | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 |
| | Total Pressure | .023 | .041 | .064 | .092 | .125 | .163 | .207 | .255 |
| | Static Pressure | .021 | .038 | .059 | .084 | .115 | .150 | .190 | .234 |
| | Noise Criteria | – | – | 17 | 23 | 26 | 29 | 31 | 34 |
| | Horizontal Throw | 3-5-13 | 5-9-15 | 6-11-17 | 8-12-19 | 10-15-20 | 11-14-21 | 13-16-23 | 13-17-24 |

36" (914) Long

| | | | | | | | | | |
|-----------------------|------------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 6" Round Inlet | Airflow, CFM | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
| | Total Pressure | .057 | .101 | .157 | .227 | .309 | .403 | .511 | .630 |
| | Static Pressure | .044 | .078 | .121 | .174 | .237 | .310 | .393 | .484 |
| | Noise Criteria | – | 20 | 26 | 29 | 32 | 35 | 39 | 43 |
| | Horizontal Throw | 4-8-16 | 7-11-18 | 8-13-21 | 11-16-23 | 12-17-25 | 13-18-26 | 15-19-27 | 16-20-29 |
| 8" Oval Inlet | Airflow, CFM | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
| | Total Pressure | .035 | .062 | .096 | .139 | .189 | .247 | .312 | .386 |
| | Static Pressure | .030 | .053 | .082 | .118 | .161 | .211 | .267 | .329 |
| | Noise Criteria | – | – | 22 | 25 | 28 | 32 | 35 | 39 |
| | Horizontal Throw | 4-8-16 | 7-11-18 | 8-13-21 | 11-16-23 | 12-17-25 | 13-18-26 | 15-19-27 | 16-20-29 |

48" (1219) Long

| | | | | | | | | | |
|-----------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .039 | .069 | .107 | .155 | .211 | .275 | .348 | .430 |
| | Static Pressure | .030 | .053 | .083 | .119 | .162 | .211 | .268 | .330 |
| | Noise Criteria | – | – | 20 | 24 | 29 | 33 | 36 | 40 |
| | Horizontal Throw | 5-9-18 | 8-13-22 | 10-15-24 | 13-18-26 | 16-20-28 | 17-21-30 | 18-22-32 | 20-24-33 |
| 10" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .028 | .050 | .079 | .113 | .154 | .201 | .255 | .315 |
| | Static Pressure | .024 | .042 | .066 | .095 | .130 | .169 | .214 | .264 |
| | Noise Criteria | – | – | 18 | 22 | 27 | 30 | 33 | 37 |
| | Horizontal Throw | 5-9-18 | 8-13-22 | 10-15-24 | 13-18-26 | 16-20-28 | 17-21-30 | 18-22-32 | 20-24-33 |

60" (1524) Long

| | | | | | | | | | |
|-----------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| | Total Pressure | .048 | .085 | .133 | .191 | .260 | .340 | .430 | .532 |
| | Static Pressure | .034 | .060 | .094 | .135 | .184 | .241 | .305 | .376 |
| | Noise Criteria | – | 17 | 23 | 27 | 32 | 36 | 39 | 43 |
| | Horizontal Throw | 8-12-20 | 10-15-24 | 13-19-26 | 14-20-29 | 18-22-31 | 19-23-33 | 20-25-35 | 22-27-36 |
| 10" Oval Inlet | Airflow, CFM | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| | Total Pressure | .034 | .061 | .095 | .137 | .187 | .244 | .309 | .381 |
| | Static Pressure | .027 | .048 | .075 | .108 | .148 | .193 | .244 | .301 |
| | Noise Criteria | – | 15 | 20 | 24 | 29 | 32 | 35 | 39 |
| | Horizontal Throw | 8-12-20 | 10-15-24 | 13-19-26 | 14-20-29 | 18-22-31 | 19-23-33 | 20-25-35 | 22-27-36 |

Return Section

| | | | | | | | | | |
|-----------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| R Models | Airflow, CFM/ft. | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| | Negative Static Pressure | -.010 | -.018 | -.027 | -.038 | -.050 | -.063 | -.079 | -.098 |

Performance Data Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. All pressures are in inches w.g..
3. Tested with one-way fixed horizontal discharge in the direction of the inlet and center down-blow deflector full open. Straight flexible duct connection.
4. Noise Criteria [NC] values based on a room absorption of 10 dB, re 10⁻¹² watts. Dash (–) in space denotes an Noise Criteria level less than 15.
5. Data derived from independent tests conducted in accordance with ANSI/ASHRAE Standard 70-2023.

PERFORMANCE DATA NOTES:

Model Series 5700

Performance Data Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. All pressures are in inches w.g..
3. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.
4. Noise Criteria [NC] values are based on a room absorption of 10 dB, re 10⁻¹² watts. Dash (–) in space denotes an Noise Criteria level less than 15.
5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2023.

Models 59ND(I),59NDR(I)

Performance Data Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total and Static Pressure are in inches w.g.
3. Noise Criteria (values) based on 10 dB room absorption, re 10⁻¹² watts.
4. Dash (—) in space indicates an NC level of less than 15.
5. Tested with one-way fixed horizontal discharge in the direction of the inlet and center down-blow deflector full open. Straight flexible duct connection.
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70–2023.

PERFORMANCE DATA:

MODELS 59ND(I) & 59NDR(I) • HORIZONTAL/VERTICAL PATTERN • 9" (229) HIGH PLENUM (STD.)

24" (610) Long with 8" (203) Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| 6" Round Inlet | Airflow, CFM | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 |
| | Total Pressure | .035 | .059 | .089 | .122 | .162 | .205 | .253 | .307 |
| | Static Pressure | .029 | .048 | .071 | .097 | .127 | .160 | .196 | .236 |
| | Noise Criteria | – | – | 16 | 21 | 26 | 31 | 34 | 37 |
| | Horizontal Throw | 4-8-7 | 7-11-20 | 9-15-23 | 12-17-25 | 14-20-28 | 16-21-29 | 18-23-31 | 19-23-32 |
| | Vertical Throw | 1-3-7 | 2-4-9 | 3-6-10 | 4-7-12 | 5-8-13 | 6-9-14 | 7-10-14 | 8-11-15 |
| 8" Oval Inlet | Airflow, CFM | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 |
| | Total Pressure | .024 | .041 | .061 | .085 | .111 | .142 | .175 | .213 |
| | Static Pressure | .022 | .037 | .055 | .076 | .099 | .126 | .155 | .188 |
| | Noise Criteria | – | – | – | 18 | 21 | 25 | 28 | 31 |
| | Horizontal Throw | 4-8-7 | 7-11-20 | 9-15-23 | 12-17-25 | 14-20-28 | 16-21-29 | 18-23-31 | 19-23-32 |
| | Vertical Throw | 1-3-7 | 2-4-9 | 3-6-10 | 4-7-12 | 5-8-13 | 6-9-14 | 7-10-14 | 8-11-15 |

36" (914) Long with 12" (305) Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 6" Round Inlet | Airflow, CFM | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
| | Total Pressure | .057 | .095 | .143 | .198 | .262 | .333 | .413 | .501 |
| | Static Pressure | .043 | .070 | .103 | .141 | .184 | .231 | .284 | .342 |
| | Noise Criteria | 18 | 22 | 27 | 31 | 35 | 38 | 42 | 45 |
| | Horizontal Throw | 2-5-13 | 4-8-17 | 6-11-20 | 8-14-23 | 10-16-25 | 12-18-27 | 14-20-28 | 15-21-29 |
| | Vertical Throw | 2-5-12 | 4-7-15 | 6-10-18 | 8-12-21 | 9-14-23 | 10-16-25 | 12-17-27 | 13-19-28 |
| 8" Oval Inlet | Airflow, CFM | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
| | Total Pressure | .032 | .054 | .082 | .115 | .155 | .198 | .248 | .302 |
| | Static Pressure | .027 | .045 | .068 | .095 | .127 | .162 | .202 | .246 |
| | Noise Criteria | – | – | 18 | 23 | 27 | 30 | 34 | 37 |
| | Horizontal Throw | 2-5-13 | 4-8-17 | 6-11-20 | 8-14-23 | 10-16-25 | 12-18-27 | 14-20-28 | 15-21-29 |
| | Vertical Throw | 2-5-12 | 4-7-15 | 6-10-18 | 8-12-21 | 9-14-23 | 10-16-25 | 12-17-27 | 13-19-28 |

48" (1219) Long with 12" (305) Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .044 | .077 | .118 | .167 | .224 | .290 | .364 | .446 |
| | Static Pressure | .035 | .061 | .093 | .131 | .175 | .226 | .283 | .346 |
| | Noise Criteria | – | 19 | 24 | 28 | 32 | 36 | 39 | 42 |
| | Horizontal Throw | 4-8-16 | 6-11-20 | 9-14-23 | 11-17-26 | 13-19-29 | 15-21-31 | 16-23-32 | 18-24-34 |
| | Vertical Throw | 3-6-14 | 5-8-17 | 7-11-21 | 8-13-24 | 10-16-26 | 12-18-29 | 13-20-30 | 15-22-32 |
| 10" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .041 | .069 | .106 | .148 | .198 | .255 | .318 | .389 |
| | Static Pressure | .036 | .061 | .093 | .130 | .173 | .222 | .277 | .338 |
| | Noise Criteria | – | – | 16 | 22 | 26 | 30 | 34 | 37 |
| | Horizontal Throw | 4-8-16 | 6-11-20 | 9-14-23 | 11-17-26 | 13-19-29 | 15-21-31 | 16-23-32 | 18-24-34 |
| | Vertical Throw | 3-6-14 | 5-8-17 | 7-11-21 | 8-13-24 | 10-16-26 | 12-18-29 | 13-20-30 | 15-22-32 |

60" (1524) Long with 15" (381) Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| | Total Pressure | .050 | .088 | .135 | .192 | .260 | .337 | .424 | .521 |
| | Static Pressure | .036 | .063 | .096 | .136 | .184 | .237 | .298 | .365 |
| | Noise Criteria | – | 20 | 26 | 31 | 36 | 40 | 43 | 46 |
| | Horizontal Throw | 4-6-13 | 5-8-17 | 7-11-21 | 8-13-24 | 10-15-26 | 11-17-28 | 13-19-30 | 14-21-31 |
| | Vertical Throw | 5-8-17 | 7-12-21 | 10-15-25 | 12-18-28 | 14-20-30 | 16-22-32 | 18-24-34 | 20-25-35 |
| 10" Oval Inlet | Airflow, CFM | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| | Total Pressure | .052 | .087 | .129 | .179 | .235 | .299 | .369 | .447 |
| | Static Pressure | .045 | .074 | .109 | .150 | .196 | .248 | .305 | .368 |
| | Noise Criteria | – | 18 | 23 | 27 | 31 | 35 | 39 | 42 |
| | Horizontal Throw | 4-6-13 | 5-8-17 | 7-11-21 | 8-13-24 | 10-15-26 | 11-17-28 | 13-19-30 | 14-21-31 |
| | Vertical Throw | 5-8-17 | 7-12-21 | 10-15-25 | 12-18-28 | 14-20-30 | 16-22-32 | 18-24-34 | 20-25-35 |

Return Section

| | | | | | | | | | |
|-----------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| R Models | Airflow, CFM/ft. | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| | Negative Static Pressure | -.010 | -.018 | -.027 | -.038 | -.050 | -.063 | -.079 | -.098 |

See page C73 for performance data notes.

PLENUM SLOT AND LIGHT TROFFER DIFFUSERS

PERFORMANCE DATA:

MODELS 59ND(I) & 59NDR(I) • HORIZONTAL/VERTICAL PATTERN • 9" (229) HIGH PLENUM (STD.)

36" (914) Long with 15" (381) Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 6" Round Inlet | Airflow, CFM | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
| | Total Pressure | .050 | .086 | .132 | .184 | .247 | .317 | .396 | .483 |
| | Static Pressure | .036 | .061 | .092 | .127 | .169 | .215 | .267 | .324 |
| | Noise Criteria | 15 | 21 | 26 | 30 | 35 | 38 | 42 | 44 |
| | Horizontal Throw | 2-5-13 | 4-8-17 | 6-10-21 | 7-13-24 | 9-15-27 | 11-17-29 | 13-19-31 | 14-21-33 |
| | Vertical Throw | 2-5-13 | 4-8-16 | 6-10-18 | 8-13-20 | 10-15-22 | 12-17-23 | 14-19-23 | 16-21-23 |
| 8" Oval Inlet | Airflow, CFM | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
| | Total Pressure | .030 | .051 | .079 | .111 | .150 | .193 | .243 | .296 |
| | Static Pressure | .025 | .042 | .065 | .091 | .122 | .157 | .197 | .240 |
| | Noise Criteria | – | 15 | 20 | 24 | 28 | 32 | 35 | 37 |
| | Horizontal Throw | 2-5-13 | 4-8-17 | 6-10-21 | 7-13-24 | 9-15-27 | 11-17-29 | 13-19-31 | 14-21-33 |
| | Vertical Throw | 2-5-13 | 4-8-16 | 6-10-18 | 8-13-20 | 10-15-22 | 12-17-23 | 14-19-23 | 16-21-23 |

48" (1219) Long with 15" (381) Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .039 | .068 | .104 | .148 | .199 | .258 | .323 | .396 |
| | Static Pressure | .030 | .052 | .079 | .112 | .150 | .194 | .242 | .296 |
| | Noise Criteria | – | 15 | 21 | 26 | 30 | 34 | 37 | 40 |
| | Horizontal Throw | 3-6-12 | 5-8-15 | 6-9-19 | 8-11-21 | 9-13-24 | 10-15-26 | 11-17-28 | 13-19-29 |
| | Vertical Throw | 3-6-15 | 5-9-18 | 7-12-22 | 9-15-25 | 11-17-27 | 13-19-30 | 14-21-31 | 16-23-32 |
| 10" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .037 | .063 | .095 | .133 | .179 | .230 | .286 | .350 |
| | Static Pressure | .032 | .055 | .082 | .115 | .154 | .197 | .245 | .299 |
| | Noise Criteria | – | – | 19 | 23 | 27 | 31 | 34 | 38 |
| | Horizontal Throw | 3-6-12 | 5-8-15 | 6-9-19 | 8-11-21 | 9-13-24 | 10-15-26 | 11-17-28 | 13-19-29 |
| | Vertical Throw | 3-6-15 | 5-9-18 | 7-12-22 | 9-15-25 | 11-17-27 | 13-19-30 | 14-21-31 | 16-23-32 |

48" (1219) Long with 18" (457) Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .038 | .066 | .102 | .145 | .194 | .251 | .315 | .387 |
| | Static Pressure | .029 | .050 | .077 | .109 | .145 | .187 | .234 | .287 |
| | Noise Criteria | – | 16 | 21 | 26 | 30 | 34 | 37 | 40 |
| | Horizontal Throw | 4-6-11 | 5-7-15 | 6-9-19 | 7-11-22 | 9-13-25 | 10-15-27 | 11-17-29 | 12-19-31 |
| | Vertical Throw | 2-5-14 | 5-8-18 | 7-11-21 | 8-14-24 | 10-16-26 | 12-18-28 | 14-20-30 | 15-22-31 |
| 10" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .039 | .065 | .099 | .138 | .184 | .236 | .293 | .357 |
| | Static Pressure | .034 | .057 | .086 | .120 | .159 | .203 | .252 | .306 |
| | Noise Criteria | – | 15 | 20 | 24 | 28 | 32 | 35 | 38 |
| | Horizontal Throw | 4-6-11 | 5-7-15 | 6-9-19 | 7-11-22 | 9-13-25 | 10-15-27 | 11-17-29 | 12-19-31 |
| | Vertical Throw | 2-5-14 | 5-8-18 | 7-11-21 | 8-14-24 | 10-16-26 | 12-18-28 | 14-20-30 | 15-22-31 |

60" (1524) Long with 18" (457) Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| | Total Pressure | .051 | .090 | .139 | .198 | .268 | .348 | .438 | .539 |
| | Static Pressure | .037 | .065 | .100 | .142 | .192 | .248 | .312 | .383 |
| | Noise Criteria | 15 | 21 | 26 | 31 | 36 | 40 | 43 | 46 |
| | Horizontal Throw | 5-8-16 | 7-11-20 | 9-14-23 | 11-16-26 | 13-19-28 | 15-20-30 | 16-22-32 | 18-23-33 |
| | Vertical Throw | 3-6-12 | 5-8-16 | 6-10-20 | 8-12-23 | 9-14-26 | 11-16-28 | 12-18-30 | 13-20-32 |
| 10" Oval Inlet | Airflow, CFM | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| | Total Pressure | .043 | .076 | .115 | .163 | .218 | .281 | .351 | .430 |
| | Static Pressure | .036 | .063 | .095 | .134 | .179 | .230 | .287 | .351 |
| | Noise Criteria | – | 15 | 21 | 27 | 32 | 36 | 39 | 42 |
| | Horizontal Throw | 5-8-16 | 7-11-20 | 9-14-23 | 11-16-26 | 13-19-28 | 15-20-30 | 16-22-32 | 18-23-33 |
| | Vertical Throw | 3-6-12 | 5-8-16 | 6-10-20 | 8-12-23 | 9-14-26 | 11-16-28 | 12-18-30 | 13-20-32 |

Return Section

| | | | | | | | | | |
|-----------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| R Models | Airflow, CFM/ft. | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| | Negative Static Pressure | -.010 | -.018 | -.027 | -.038 | -.050 | -.063 | -.079 | -.098 |

See page C73 for performance data notes.

PERFORMANCE DATA

MODELS 59ND(I) & 59NDR(I) • HORIZONTAL/VERTICAL PATTERN • 7" (178) HIGH PLENUM (OPT.)

24" (610) Long with 8" Down-Blow

| | | | | | | | | | |
|----------------------|------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| 6" Oval Inlet | Airflow, CFM | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 |
| | Total Pressure | .050 | .082 | .119 | .162 | .209 | .263 | .321 | .385 |
| | Static Pressure | .043 | .068 | .098 | .131 | .168 | .208 | .252 | .300 |
| | Noise Criteria | – | – | 23 | 26 | 29 | 33 | 37 | 40 |
| | Horizontal Throw | 2-4-11 | 4-7-14 | 5-9-17 | 7-11-20 | 9-13-22 | 10-15-24 | 12-17-26 | 13-18-27 |
| | Vertical Throw | 2-3-11 | 4-6-14 | 5-8-16 | 6-10-18 | 7-12-20 | 8-13-22 | 10-15-23 | 11-16-24 |
| 8" Oval Inlet | Airflow, CFM | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 |
| | Total Pressure | .036 | .059 | .086 | .118 | .154 | .194 | .238 | .287 |
| | Static Pressure | .033 | .053 | .077 | .104 | .135 | .170 | .208 | .249 |
| | Noise Criteria | – | – | 20 | 23 | 26 | 29 | 33 | 36 |
| | Horizontal Throw | 2-4-11 | 4-7-14 | 5-9-17 | 7-11-20 | 9-13-22 | 10-15-24 | 12-17-26 | 13-18-27 |
| | Vertical Throw | 2-3-11 | 4-6-14 | 5-8-16 | 6-10-18 | 7-12-20 | 8-13-22 | 10-15-23 | 11-16-24 |

36" (914) Long with 12" Down-Blow

| | | | | | | | | | |
|----------------------|------------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 6" Oval Inlet | Airflow, CFM | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
| | Total Pressure | .054 | .093 | .141 | .198 | .264 | .340 | .424 | .518 |
| | Static Pressure | .037 | .062 | .093 | .129 | .170 | .217 | .269 | .326 |
| | Noise Criteria | – | 22 | 26 | 30 | 34 | 38 | 41 | 46 |
| | Horizontal Throw | 3-5-11 | 4-7-15 | 6-9-18 | 7-11-21 | 8-13-24 | 10-14-26 | 11-16-28 | 12-17-30 |
| | Vertical Throw | 2-4-11 | 3-6-15 | 5-9-19 | 6-11-14 | 8-9-16 | 9-10-17 | 11-11-19 | 8-11-20 |
| 8" Oval Inlet | Airflow, CFM | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
| | Total Pressure | .048 | .082 | .122 | .170 | .224 | .286 | .355 | .430 |
| | Static Pressure | .041 | .068 | .101 | .139 | .183 | .231 | .286 | .345 |
| | Noise Criteria | – | – | 22 | 26 | 30 | 33 | 37 | 40 |
| | Horizontal Throw | 3-5-11 | 4-7-15 | 6-9-19 | 7-11-21 | 8-13-24 | 10-14-26 | 11-16-28 | 12-17-30 |
| | Vertical Throw | 2-4-11 | 3-6-15 | 5-9-19 | 6-11-14 | 8-9-16 | 9-10-17 | 11-11-19 | 8-11-20 |

48" (1219) Long with 12" Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .063 | .108 | .164 | .232 | .310 | .400 | .501 | .613 |
| | Static Pressure | .049 | .084 | .127 | .177 | .236 | .303 | .379 | .462 |
| | Noise Criteria | – | 20 | 24 | 28 | 32 | 36 | 40 | 43 |
| | Horizontal Throw | 7-11-20 | 9-14-24 | 11-16-27 | 12-19-30 | 14-21-32 | 16-23-34 | 17-25-36 | 19-26-37 |
| | Vertical Throw | 3-5-11 | 5-7-14 | 7-10-17 | 8-12-19 | 10-14-22 | 12-16-23 | 13-18-24 | 15-19-25 |
| 10" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .047 | .083 | .128 | .183 | .248 | .322 | .406 | .500 |
| | Static Pressure | .039 | .069 | .107 | .153 | .207 | .268 | .338 | .416 |
| | Noise Criteria | – | – | 21 | 25 | 29 | 33 | 37 | 41 |
| | Horizontal Throw | 7-11-20 | 9-14-24 | 11-16-27 | 12-19-30 | 14-21-32 | 16-23-34 | 17-25-36 | 19-26-37 |
| | Vertical Throw | 3-5-11 | 5-7-14 | 7-10-17 | 8-12-19 | 10-14-22 | 12-16-23 | 13-18-24 | 15-19-25 |

60" (1524) Long with 15" Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| | Total Pressure | .078 | .136 | .207 | .292 | .392 | .506 | .635 | .778 |
| | Static Pressure | .057 | .098 | .148 | .207 | .277 | .355 | .444 | .542 |
| | Noise Criteria | – | 24 | 29 | 33 | 37 | 41 | 45 | 48 |
| | Horizontal Throw | 4-8-15 | 7-11-19 | 9-14-22 | 11-16-25 | 13-18-27 | 15-20-29 | 16-22-31 | 18-23-32 |
| | Vertical Throw | 3-5-13 | 5-8-16 | 7-11-19 | 9-14-22 | 11-16-25 | 13-18-27 | 15-20-28 | 16-22-29 |
| 10" Oval Inlet | Airflow, CFM | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| | Total Pressure | .071 | .123 | .188 | .267 | .358 | .462 | .579 | .709 |
| | Static Pressure | .059 | .102 | .155 | .219 | .293 | .377 | .472 | .577 |
| | Noise Criteria | – | 21 | 26 | 30 | 34 | 38 | 42 | 45 |
| | Horizontal Throw | 4-8-15 | 7-11-19 | 9-14-22 | 11-16-25 | 13-18-27 | 15-20-29 | 16-22-31 | 18-23-32 |
| | Vertical Throw | 3-5-13 | 5-8-16 | 7-11-19 | 9-14-22 | 11-16-25 | 13-18-27 | 15-20-28 | 16-22-29 |

Return Section

| | | | | | | | | | |
|-----------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| R Models | Airflow, CFM/ft. | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| | Negative Static Pressure | -.010 | -.018 | -.027 | -.038 | -.050 | -.063 | -.079 | -.098 |

See page C73 for performance data notes.

PLENUM SLOT AND LIGHT TROFFER DIFFUSERS

PERFORMANCE DATA

MODELS 59ND(I) & 59NDR(I) • HORIZONTAL/VERTICAL PATTERN • 7" (178) HIGH PLENUM (OPT.)

36" (914) Long with 15" Down-Blow

| | | | | | | | | | |
|----------------------|------------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 6" Oval Inlet | Airflow, CFM | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
| | Total Pressure | .060 | .102 | .153 | .213 | .281 | .359 | .446 | .541 |
| | Static Pressure | .043 | .071 | .105 | .144 | .187 | .236 | .290 | .349 |
| | Noise Criteria | – | – | 23 | 27 | 31 | 35 | 38 | 42 |
| | Horizontal Throw | 2-3-10 | 3-5-14 | 4-7-17 | 5-8-19 | 6-10-22 | 7-12-24 | 9-13-26 | 10-15-28 |
| | Vertical Throw | 1-3-9 | 2-3-10 | 3-4-15 | 4-5-18 | 5-7-20 | 6-8-22 | 6-9-24 | 7-10-25 |
| 8" Oval Inlet | Airflow, CFM | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
| | Total Pressure | .046 | .078 | .116 | .161 | .213 | .271 | .336 | .407 |
| | Static Pressure | .038 | .064 | .095 | .131 | .171 | .217 | .267 | .322 |
| | Noise Criteria | – | – | 22 | 26 | 30 | 33 | 36 | 40 |
| | Horizontal Throw | 2-3-10 | 3-5-14 | 4-7-17 | 5-8-19 | 6-10-22 | 7-12-24 | 9-13-26 | 10-15-28 |
| | Vertical Throw | 1-3-9 | 2-3-10 | 3-4-15 | 4-5-18 | 5-7-20 | 6-8-22 | 6-9-24 | 7-10-25 |

48" (1219) Long with 15" Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .057 | .099 | .150 | .211 | .281 | .362 | .452 | .552 |
| | Static Pressure | .044 | .074 | .112 | .156 | .207 | .265 | .330 | .401 |
| | Noise Criteria | – | – | 23 | 27 | 31 | 34 | 38 | 42 |
| | Horizontal Throw | 7-10-17 | 9-13-21 | 10-15-24 | 12-17-27 | 13-19-29 | 15-21-31 | 16-23-33 | 17-24-34 |
| | Vertical Throw | 2-4-11 | 4-6-14 | 6-9-17 | 7-11-20 | 9-13-22 | 11-15-23 | 12-17-25 | 14-19-25 |
| 10" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .050 | .086 | .131 | .184 | .245 | .315 | .394 | .481 |
| | Static Pressure | .043 | .073 | .110 | .153 | .204 | .262 | .326 | .397 |
| | Noise Criteria | – | – | 22 | 26 | 29 | 33 | 37 | 40 |
| | Horizontal Throw | 7-10-17 | 9-13-21 | 10-15-24 | 12-17-27 | 13-19-29 | 15-21-31 | 16-23-33 | 17-24-34 |
| | Vertical Throw | 2-4-11 | 4-6-14 | 6-9-17 | 7-11-20 | 9-13-22 | 11-15-23 | 12-17-25 | 14-19-25 |

48" (1219) Long with 18" Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .056 | .096 | .146 | .205 | .273 | .350 | .437 | .533 |
| | Static Pressure | .042 | .072 | .108 | .150 | .199 | .254 | .314 | .382 |
| | Noise Criteria | – | 20 | 24 | 27 | 31 | 35 | 38 | 42 |
| | Horizontal Throw | 2-4-11 | 4-6-14 | 5-9-18 | 7-11-21 | 8-13-23 | 10-14-26 | 11-16-28 | 12-18-29 |
| | Vertical Throw | 2-3-7 | 4-4-9 | 3-6-12 | 5-7-14 | 5-9-15 | 7-9-17 | 7-11-19 | 8-12-19 |
| 10" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .052 | .089 | .134 | .188 | .249 | .318 | .396 | .482 |
| | Static Pressure | .045 | .076 | .113 | .157 | .208 | .265 | .328 | .398 |
| | Noise Criteria | – | – | 22 | 25 | 29 | 33 | 36 | 40 |
| | Horizontal Throw | 2-4-11 | 4-6-14 | 5-9-18 | 7-11-21 | 8-13-23 | 10-14-26 | 11-16-28 | 12-18-29 |
| | Vertical Throw | 2-3-7 | 4-4-9 | 3-6-12 | 5-7-14 | 5-9-15 | 7-9-17 | 7-11-19 | 8-12-19 |

60" (1524) Long with 18" Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Oval Inlet | Airflow, CFM | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| | Total Pressure | .072 | .124 | .189 | .267 | .357 | .460 | 0.576 | 0.705 |
| | Static Pressure | .051 | .086 | .130 | .182 | .242 | .309 | 0.385 | 0.469 |
| | Noise Criteria | – | 23 | 28 | 32 | 37 | 40 | 44 | 48 |
| | Horizontal Throw | 7-19-17 | 8-14-21 | 10-15-24 | 14-18-27 | 14-20-29 | 16-22-32 | 18-23-34 | 20-25-35 |
| | Vertical Throw | 3-6-14 | 5-9-17 | 7-12-20 | 9-14-23 | 11-16-25 | 13-18-27 | 14-20-28 | 16-22-29 |
| 10" Oval Inlet | Airflow, CFM | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| | Total Pressure | .064 | .110 | .167 | .234 | .312 | .401 | 0.501 | 0.612 |
| | Static Pressure | .052 | .089 | .134 | .187 | .248 | .317 | 0.395 | 0.480 |
| | Noise Criteria | – | 21 | 25 | 30 | 34 | 38 | 42 | 45 |
| | Horizontal Throw | 7-19-17 | 8-14-21 | 10-15-24 | 14-18-27 | 14-20-29 | 16-22-32 | 18-23-34 | 20-25-35 |
| | Vertical Throw | 3-6-14 | 5-9-17 | 7-12-20 | 9-14-23 | 11-16-25 | 13-18-27 | 14-20-28 | 16-22-29 |

Return Section

| | | | | | | | | | |
|-----------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| R Models | Airflow, CFM/ft. | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| | Negative Static Pressure | -.010 | -.018 | -.027 | -.038 | -.050 | -.063 | -.079 | -.098 |

See page C73 for performance data notes.

PERFORMANCE DATA:

**MODELS 59ND(I) & 59NDR(I) • HORIZONTAL/VERTICAL PATTERN • 11" (279) HIGH PLENUM (OPT.)
24" (610) Long with 8" (203) Down-Blow**

| | | | | | | | | | |
|-----------------------|------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| 6" Round Inlet | Airflow, CFM | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 |
| | Total Pressure | .028 | .050 | .078 | .112 | .152 | .199 | .251 | .310 |
| | Static Pressure | .022 | .039 | .061 | .088 | .120 | .157 | .199 | .245 |
| | Noise Criteria | – | – | 15 | 20 | 25 | 30 | 33 | 36 |
| | Horizontal Throw | 4-8-7 | 7-11-20 | 9-15-23 | 12-17-25 | 14-20-28 | 16-21-29 | 18-23-31 | 19-23-32 |
| | Vertical Throw | 1-3-7 | 2-4-9 | 3-6-10 | 4-7-12 | 5-8-13 | 6-9-14 | 7-10-14 | 8-11-15 |
| 8" Round Inlet | Airflow, CFM | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 |
| | Total Pressure | .019 | .034 | .053 | .076 | .104 | .136 | .172 | .212 |
| | Static Pressure | .017 | .031 | .048 | .069 | .094 | .123 | .155 | .192 |
| | Noise Criteria | – | – | – | 15 | 20 | 25 | 28 | 31 |
| | Horizontal Throw | 4-8-7 | 7-11-20 | 9-15-23 | 12-17-25 | 14-20-28 | 16-21-29 | 18-23-31 | 19-23-32 |
| | Vertical Throw | 1-3-7 | 2-4-9 | 3-6-10 | 4-7-12 | 5-8-13 | 6-9-14 | 7-10-14 | 8-11-15 |

36" (914) Long with 12" (305) Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|-----------|------------|------------|------------|------------|------------|------------|------------|
| 6" Round Inlet | Airflow, CFM | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
| | Total Pressure | .040 | .070 | .110 | .159 | .216 | .282 | .357 | .441 |
| | Static Pressure | .027 | .047 | .074 | .107 | .145 | .190 | .240 | .296 |
| | Noise Criteria | – | 15 | 21 | 26 | 31 | 34 | 38 | 41 |
| | Horizontal Throw | 2-5-13 | 4-8-17 | 6-11-20 | 8-14-23 | 10-16-25 | 12-18-27 | 14-20-28 | 15-21-29 |
| | Vertical Throw | 2-5-12 | 4-7-15 | 6-10-18 | 8-12-21 | 9-14-23 | 10-16-25 | 12-17-27 | 13-19-28 |
| 8" Round Inlet | Airflow, CFM | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
| | Total Pressure | .023 | .040 | .063 | .090 | .123 | .160 | .203 | .250 |
| | Static Pressure | .018 | .033 | .051 | .073 | .100 | .131 | .165 | .204 |
| | Noise Criteria | – | – | 15 | 20 | 25 | 28 | 32 | 35 |
| | Horizontal Throw | 2-5-13 | 4-8-17 | 6-11-20 | 8-14-23 | 10-16-25 | 12-18-27 | 14-20-28 | 15-21-29 |
| | Vertical Throw | 2-5-12 | 4-7-15 | 6-10-18 | 8-12-21 | 9-14-23 | 10-16-25 | 12-17-27 | 13-19-28 |

48" (1219) Long with 12" (305) Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Round Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .037 | .065 | .102 | .147 | .200 | .261 | .331 | .408 |
| | Static Pressure | .029 | .052 | .082 | .118 | .160 | .209 | .264 | .327 |
| | Noise Criteria | – | 16 | 21 | 25 | 29 | 33 | 36 | 39 |
| | Horizontal Throw | 4-8-16 | 6-11-20 | 9-14-23 | 11-17-26 | 13-19-29 | 15-21-31 | 16-23-32 | 18-24-34 |
| | Vertical Throw | 3-6-14 | 5-8-17 | 7-11-21 | 8-13-24 | 10-16-26 | 12-18-29 | 13-20-30 | 15-22-32 |
| 10" Oval Inlet | Airflow, CFM | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 |
| | Total Pressure | .024 | .043 | .067 | .097 | .132 | .172 | .217 | .268 |
| | Static Pressure | .021 | .038 | .059 | .084 | .115 | .150 | .190 | .235 |
| | Noise Criteria | – | – | – | 19 | 23 | 27 | 31 | 34 |
| | Horizontal Throw | 4-8-16 | 6-11-20 | 9-14-23 | 11-17-26 | 13-19-29 | 15-21-31 | 16-23-32 | 18-24-34 |
| | Vertical Throw | 3-6-14 | 5-8-17 | 7-11-21 | 8-13-24 | 10-16-26 | 12-18-29 | 13-20-30 | 15-22-32 |

60" (1524) Long with 15" (381) Down-Blow

| | | | | | | | | | |
|-----------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 8" Round Inlet | Airflow, CFM | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| | Total Pressure | .039 | .069 | .108 | .156 | .213 | .278 | .352 | .434 |
| | Static Pressure | .028 | .049 | .076 | .110 | .150 | .196 | .248 | .306 |
| | Noise Criteria | – | – | 20 | 25 | 30 | 34 | 37 | 40 |
| | Horizontal Throw | 4-6-13 | 5-8-17 | 7-11-21 | 8-13-24 | 10-15-26 | 11-17-28 | 13-19-30 | 14-21-31 |
| | Vertical Throw | 5-8-17 | 7-12-21 | 10-15-25 | 12-18-28 | 14-20-30 | 16-22-32 | 18-24-34 | 20-25-35 |
| 10" Oval Inlet | Airflow, CFM | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| | Total Pressure | .026 | .047 | .073 | .106 | .144 | .188 | .188 | .293 |
| | Static Pressure | .022 | .039 | .060 | .087 | .118 | .154 | .154 | .241 |
| | Noise Criteria | – | – | – | 21 | 26 | 30 | 33 | 36 |
| | Horizontal Throw | 4-6-13 | 5-8-17 | 7-11-21 | 8-13-24 | 10-15-26 | 11-17-28 | 13-19-30 | 14-21-31 |
| | Vertical Throw | 5-8-17 | 7-12-21 | 10-15-25 | 12-18-28 | 14-20-30 | 16-22-32 | 18-24-34 | 20-25-35 |

Return Section

| | | | | | | | | | |
|-----------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| R Models | Airflow, CFM/ft. | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| | Negative Static Pressure | –.010 | –.018 | –.027 | –.038 | –.050 | –.063 | –.079 | –.098 |

See page C73 for performance data notes.

PLENUM SLOT AND LIGHT TROFFER DIFFUSERS

PERFORMANCE DATA NOTES:

Model Series 5700

Performance Data Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. All pressures are in inches w.g..
3. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.
4. Noise Criteria [NC] values are based on a room absorption of 10 dB, re 10⁻¹² watts. Dash (–) in space denotes an Noise Criteria level less than 15.
5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2023.

Models 59ND(I),59NDR(I)

Performance Data Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total and Static Pressure are in inches w.g.
3. Noise Criteria (values) based on 10 dB room absorption, re 10⁻¹² watts.
4. Dash (—) in space indicates an NC level of less than 15.
5. Tested with one-way fixed horizontal discharge in the direction of the inlet and center down-blow deflector full open. Straight flexible duct connection.
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70–2023.