

SHOP DRAWING TRANSMITTAL

To: Daniel Cusimano Architect Inc.
185 Bridgeland Ave.
Suite 107
Toronto, ON M6A 1Y7

Att: Stacey Melville

Project: **Shopper's Drug Mart #1021**
485 Grand Avenue West
Chatham, Ontario

From: Kyle McCallum
Date: April 16, 2025
File: 7437.pt

We have reviewed the attached contractor's equipment shop drawings for general conformity with the design documents and are forwarding them to you for your use in association with the above noted project.

The documents are sent by: Courier • Hand • Pick-up • Facsimile • **E-mail**

| <u>Qty</u> | <u>Shop Drawings</u> | <u>Notes</u> |
|------------|----------------------|--|
| 1 | Grilles & Diffusers | Reviewed: Supply diffuser tagged S-1's neck shall be 6" dia. instead of 8" dia. per mechanical drawings. REVISED. Two supply diffusers tagged S-2 and one return grille tagged R-3 shall be provided with hard ceiling frame for drywall ceiling application. |
| 1 | Exhaust Fans | Reviewed: No comment. |

**ENSURE COPIES OF FINAL SHOP DWGS ARE
INSERTED INTO MAINTENANCE MANUALS.**



54 Audia Court, Unit 2
Concord, ON L4K 3N5
(905)-738-1400

PROJECT NAME

SDM 4712 - 485 Grand Avenue West,
Chatham - Care Clinic 25-004

PROJECT ADDRESS

485 GRAND AVENUE WEST
CHATHAM, ONTARIO

DATE SUBMITTED

TO

FROM

COMPANY

COMPANY

EMAIL

EMAIL

ADDRESS

2800 JOHN ST #23 MARKHAM, ON L3R 0E2

ADDRESS

54 Audia Court, Unit 2
Concord, ON L4K 3N5

Title

HVAC shops R1

Description

| SDM 1021 | |
|-----------------|-------|
| Tag# | Count |
| Beauty Boutique | |
| S-1 | 2 |
| S-2 | 9 |
| R-1 | 2 |
| R-2 | 3 |
| R-3 | 1 |
| E-2 | 2 |
| E-1 | 2 |
| EF-4,5 | 2 |
| Care clinic | |
| S-1 | 3 |
| R-1 | 3 |

| INTEGRATED ENGINEERING | | |
|---|----------|----------|
| REVIEW OF THIS DRAWING IS FOR GENERAL CONFORMITY WITH THE DESIGN ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIREMENTS OF THE INSTALLATION. | | |
| PROJ No. | 7437 | REVIEWED |
| DATE | 25.04.16 | REVISED |
| BY | KJM | RESUBMIT |

SEE NOTES & COMMENTS
ON TRANSMITTAL



5 Sandhill Court, Unit C
Brampton, ON L6T 5J5
tel (905) 790-8667
fax (905) 790-3710
www.airex.ca

SHOP DRAWING PACKAGE COVER

Date: APRIL 16 2025

Project Name: SDM #1021

Project Address: 485 GRAND AVE W CHATHAM
SIMCOE, ONTARIO

Contractor: CONSULT MECHANICAL

Engineer: INTEGRATED ENGINEERING

Attention: INZAMAN KHAN

Enclosed are the submittal drawings for the above referenced project.
Please return one approved or corrected copy of each drawing.

Number of copies: 1

| |
|---|
| NOTE - CONTRACTOR TO CONFIRM ALL QUANTITIES |
|---|

Airex Contact: Ed Morson

ed.morson@airex.ca

- Notes:
- ☐ For records only.
 - ☐ Orders released to the factory upon receipt of approved shop drawings.
 - ☒ Orders released to the factory upon receipt of approved shop drawings & authorization from the contractor to proceed.
 - ☐ Orders released for fabrication at the request of the contractor.

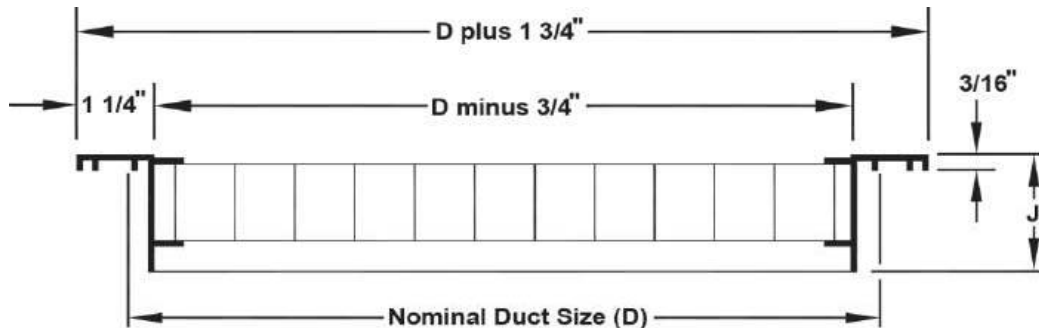
50F

Eggcrate return, aluminum border and aluminum grid.

Main Product

50F-1

50F



Surface mount with 1/2 x 1/2 x 1/2 Aluminum Grid

| Duct Width | Duct Height | Grille OA Width | Grille OA Height | J |
|------------|-------------|-----------------|------------------|--------|
| 22 | 10 | 23.75 | 11.75 | 1 1/4" |
| 22 | 22 | 23.75 | 23.75 | 1 1/4" |
| 22 | 6 | 23.75 | 7.75 | 1 1/4" |
| 24 | 12 | 25.75 | 13.75 | 1 1/4" |

General Description

50F-1

- Insect and debris screens are not available when damper are fitted.
- #8 x 1 1/4" lg. Phillips flat head sheet metal screws painted white.
- All dimensions are $\pm 1/16"$
- Material: Aluminum

Option Schedule

50F-1

| ID | Quantity | Tag | WIDTH IN INCHES | HEIGHT IN INCHES |
|----|----------|-----------|-----------------|------------------|
| 1 | 2 | E1 T-BAR | 22 | 10 |
| 2 | 2 | E2 T-BAR | 22 | 22 |
| 3 | 5 | R1 T- BAR | 22 | 6 |
| 4 | 3 | R2 T-BAR | 22 | 10 |

MODULE SIZE NONE

BORDER 1 - SURFACE MOUNT

FINISH 26 - WHITE

FASTENING N - NO SCREW HOLES

DAMPER MODEL 0 - NONE

EGGCRATE CORE CORE A (BORDER 1 OR 3)

ACCESSORY 2 NONE

ACCESSORY 3 NONE

| ID | Quantity | Tag | WIDTH IN INCHES | HEIGHT IN INCHES |
|----|----------|---------|-----------------|------------------|
| 5 | 3 | R3 - SM | 24 | 12 |

Project SDM - 1021
Architect
Engineer
Contractor
Designation



Date 04/16/2025
Office Airex Inc.
Preparer MOHAMMED
Version 2014.0.566

Option Schedule (continued)

50F-1

MODULE SIZE NONE

BORDER 1 - SURFACE MOUNT

FINISH 26 - WHITE

FASTENING A - SCREW HOLES

DAMPER MODEL 0 - NONE

EGGCRATE CORE CORE A (BORDER 1 OR 3)

ACCESSORY 2 NONE

ACCESSORY 3 NONE

Project SDM - 1021
Architect
Engineer
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Date 04/16/2025
Office Airex Inc.
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Version 2014.0.566

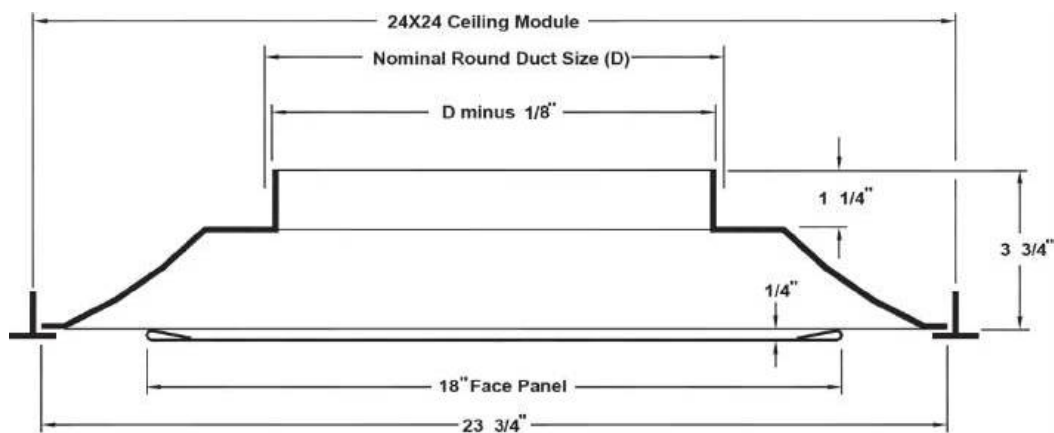
OMNI

Architectural Ceiling Diffusers
Square Cone • Plaque Face
Round Neck • Steel

Main Product

OMNI-1

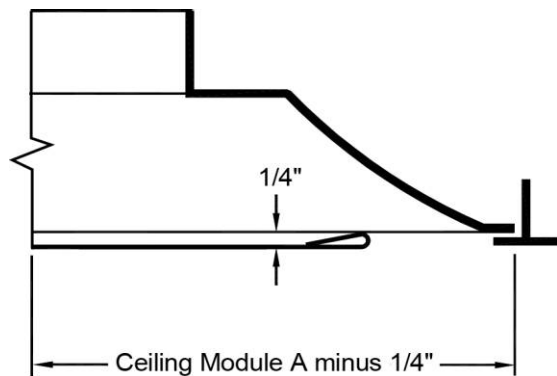
OMNI



Border Type 3 (Lay-In) Full Face

| Nominal Duct Size (D) | Neck Size |
|-----------------------|-------------|
| 8" Dia. | 7 7/8" Dia. |

Lay-in:



General Description

OMNI-1

- The TITUS OMNI diffuser is designed to satisfy architectural as well as engineering criteria. Its strong, clean, unobtrusive lines harmonize with the ceiling system, without sacrificing performance.
- The curvature of the OMNI backpan works with the formed edges of the face panel to deliver a 360 tight horizontal air pattern, without excessive noise or pressure drop.
- The OMNI diffuser is an excellent choice for variable volume systems. The air pattern remains tight and horizontal for effective room air distribution, even when the air volume varies over a wide range.
- The edges of the face panel are formed to a radius for solid, crisp appearance. The formed edges also stiffen the face panel and assure a straight and level surface.
- The panel can be removed from backpan for easy access to an optional damper.

Option Schedule

OMNI-1

| ID | Quantity | Tag | DIM 1 NECK SIZE |
|----|----------|----------|------------------------|
| 1 | 5 | S1 T-BAR | 8" DIAMETER |

6" dia.

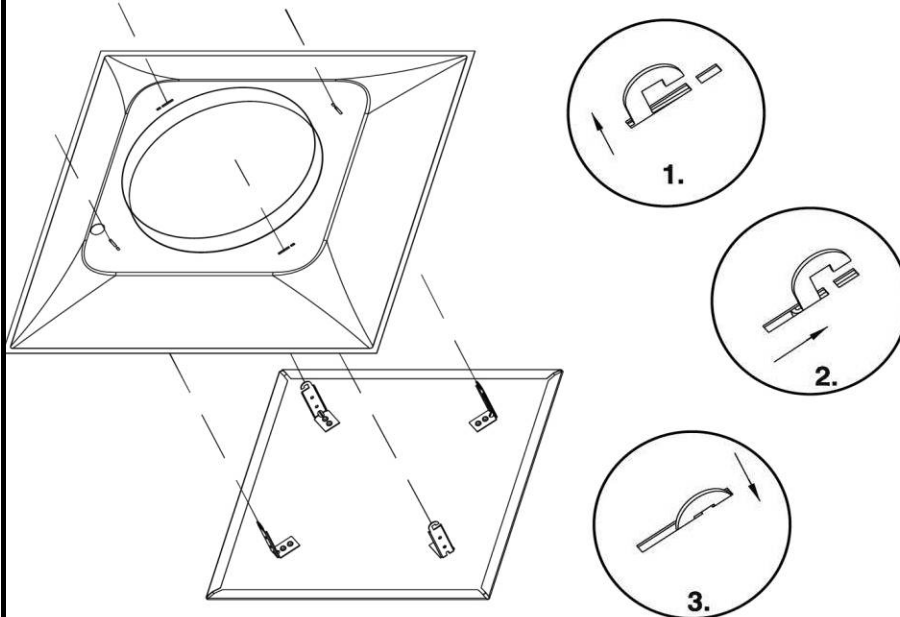
MODULE SIZE 24X24
BORDER 3 - LAY-IN
FINISH 26 - WHITE
DAMPER MODEL 0 - NONE

ACCESSORY 1 NONE
ACCESSORY 2 NONE
ACCESSORY 3 NONE

Accessories

OMNI-1

Installing and Removing Face Panel



Installing Face Panel

1. Insert the hook brackets into the slots in the backpan.
2. Rotate the face panel clockwise until...
3. the hooks positively engage in the secondary slots in the backpan.

Removing Face Panel

1. Lift the faceplate towards the backpan to disengage the hook brackets from the backpan slots
2. Rotate the faceplate counter-clockwise
3. Lower the faceplate away from the backpan.

Adjusting Optional Damper

1. Remove face panel as above.
2. Use flat blade screwdriver to turn operator shaft at center of damper.
3. Replace face panel.

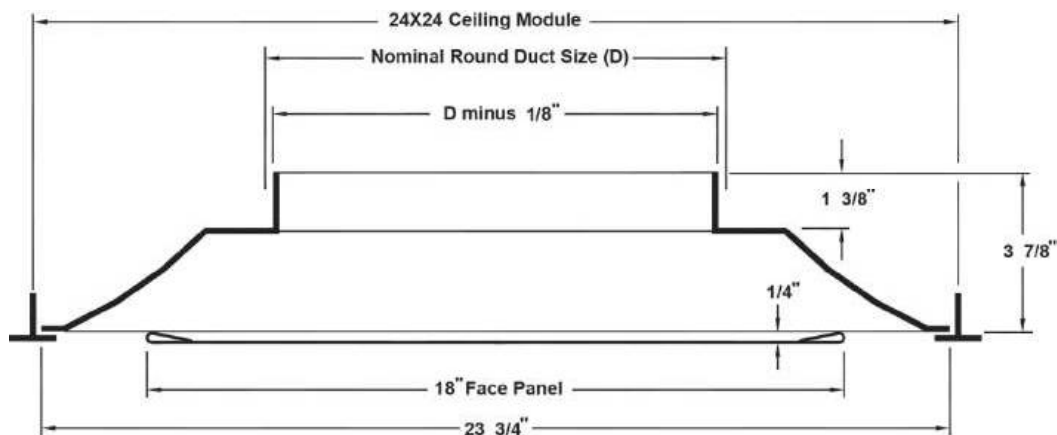
OMNI

Architectural Ceiling Diffusers
 Square Cone • Plaque Face
 Round Neck • Steel

Main Product

OMNI-1 (2)

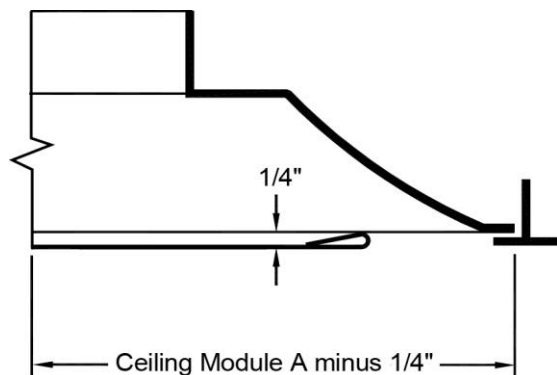
OMNI



Border Type 3 (Lay-In) Full Face

| Nominal Duct Size (D) | Neck Size |
|-----------------------|-------------|
| 10" Dia. | 9 7/8" Dia. |

Lay-in:



Project SDM - 1021
Architect
Engineer
Contractor
Designation



Date 04/16/2025
Office Airex Inc.
Preparer MOHAMMED
Version 2014.0.566

General Description

OMNI-1 (2)

- The TITUS OMNI diffuser is designed to satisfy architectural as well as engineering criteria. Its strong, clean, unobtrusive lines harmonize with the ceiling system, without sacrificing performance.
- The curvature of the OMNI backpan works with the formed edges of the face panel to deliver a 360 tight horizontal air pattern, without excessive noise or pressure drop.
- The OMNI diffuser is an excellent choice for variable volume systems. The air pattern remains tight and horizontal for effective room air distribution, even when the air volume varies over a wide range.
- The edges of the face panel are formed to a radius for solid, crisp appearance. The formed edges also stiffen the face panel and assure a straight and level surface.
- The panel can be removed from backpan for easy access to an optional damper.

Option Schedule

OMNI-1 (2)

| ID | Quantity | Tag | DIM 1 NECK SIZE |
|----|----------|----------|-----------------|
| 2 | 7 | S2 T-BAR | 10" DIAMETER |

MODULE SIZE 24X24
BORDER 3 - LAY-IN
FINISH 26 - WHITE
DAMPER MODEL 0 - NONE

ACCESSORY 1 NONE
ACCESSORY 2 NONE
ACCESSORY 3 NONE

| ID | Quantity | Tag | DIM 1 NECK SIZE |
|----|----------|----------|-----------------|
| 3 | 2 | S-2 - SM | 10" DIAMETER |

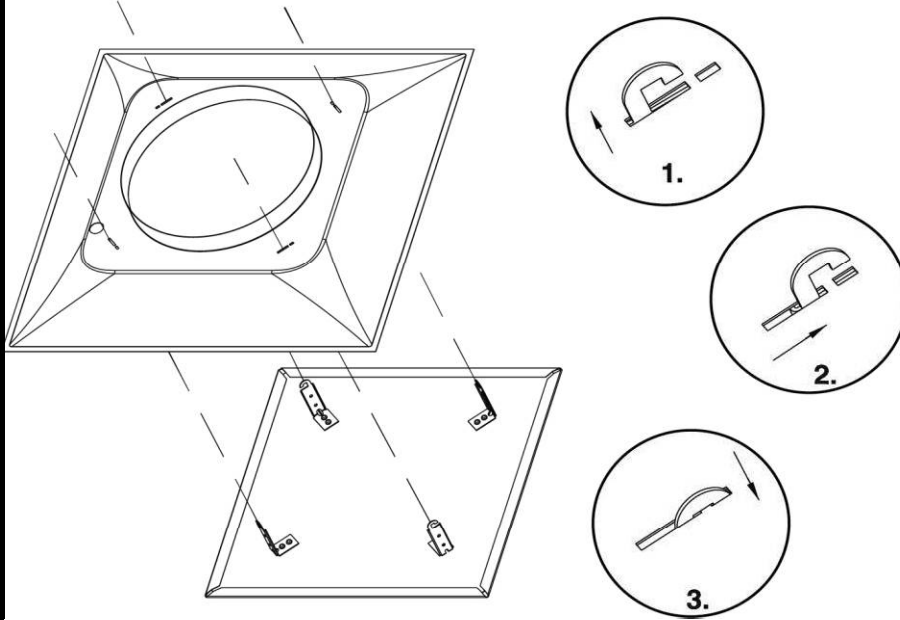
MODULE SIZE 24X24
BORDER 3 - LAY-IN
FINISH 26 - WHITE
DAMPER MODEL AG-75 - DUCT MOUNTED ROUND OBD

ACCESSORY 1 NONE
ACCESSORY 2 NONE
ACCESSORY 3 NONE

Accessories

OMNI-1 (2)

Installing and Removing Face Panel



Installing Face Panel

1. Insert the hook brackets into the slots in the backpan.
2. Rotate the face panel clockwise until...
3. the hooks positively engage in the secondary slots in the backpan.

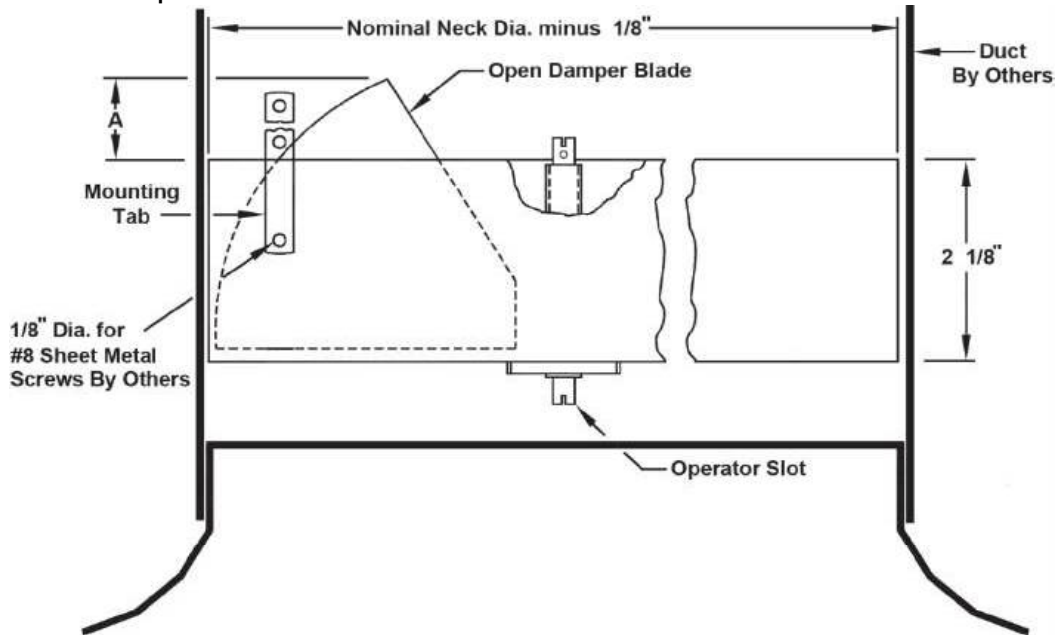
Removing Face Panel

1. Lift the faceplate towards the backpan to disengage the hook brackets from the backpan slots
2. Rotate the faceplate counter-clockwise
3. Lower the faceplate away from the backpan.

Adjusting Optional Damper

1. Remove face panel as above.
2. Use flat blade screwdriver to turn operator shaft at center of damper.
3. Replace face panel.

AG-75 Opposed Blade Damper size 14-20



Standard Finish: Mill

- The Opposed Blade Damper mounts inside of a round duct neck.
- Gang operated blades(4) distribute air evenly through the diffuser or duct. Not recommended for flexible duct applications
- Adjustable at screwdriver operator slot.
- Shipped loose for field installation.
- Material: Galvanized steel.

Project SDM - 1021
 Architect
 Engineer
 Contractor
 Designation



Date 04/16/2025
 Office Airex Inc.
 Preparer MOHAMMED
 Version 2014.0.566

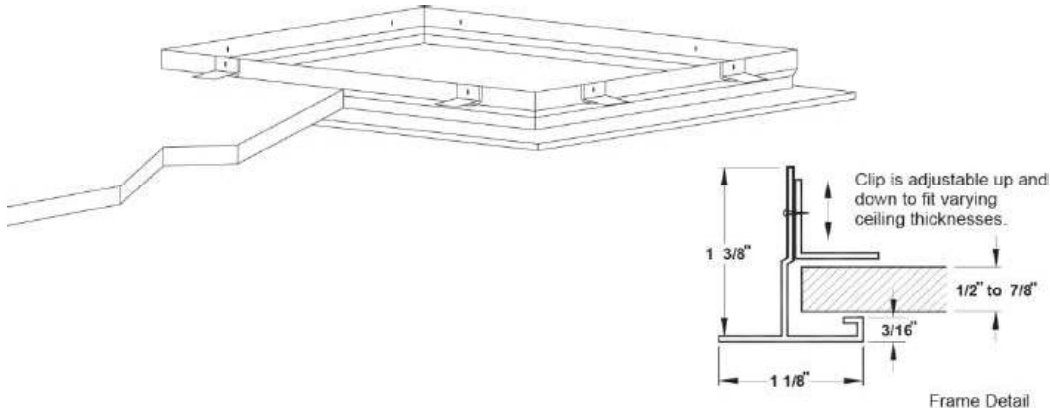
TRM

Aluminum Rapid Mount Frame/Plaster-Frame.

Main Product

TRM-1

TRM



| MODULE SIZE | Opening Cutout |
|-------------|-------------------|
| 24X24 | 24 1/2" x 24 1/2" |

General Description

TRM-1

- Model TRM TITUS Rapid Mount Frame allows T-bar, lay-in type diffusers (border Type 3) to be installed in surface mounting applications (border Type 1).
- TRM frame is installed in opening and secured in place using security clips. Screws are mounted flush in frame mounting holes.
- Rapid Mount Frame can be mounted in plaster or sheet rock ceiling.
- The TRM can be used to access ceiling plenum. Diffuser with flex connection can be lifted out of frame to access ceiling space.
- Material is aluminum with steel fasteners.

Option Schedule

TRM-1

| ID | Quantity | Tag | MODULE SIZE |
|----|----------|---------|-------------|
| 1 | 2 | S2 - SM | 24X24 |

FINISH 26 - WHITE



Model: VEBK08K4A1CA20SPC1 Spun Aluminum Downblast Centrifugal Belt Drive Powered Ventilator

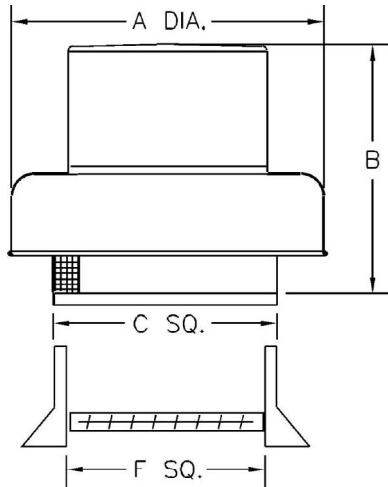
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Air Performance

| | |
|-----------------|-----------|
| 70 Deg F @ 0 ft | |
| CFM | 600 |
| S.P. | 0.375 "wg |
| bHP | 0.11 |
| RPM | 1,464 |

Motor Details

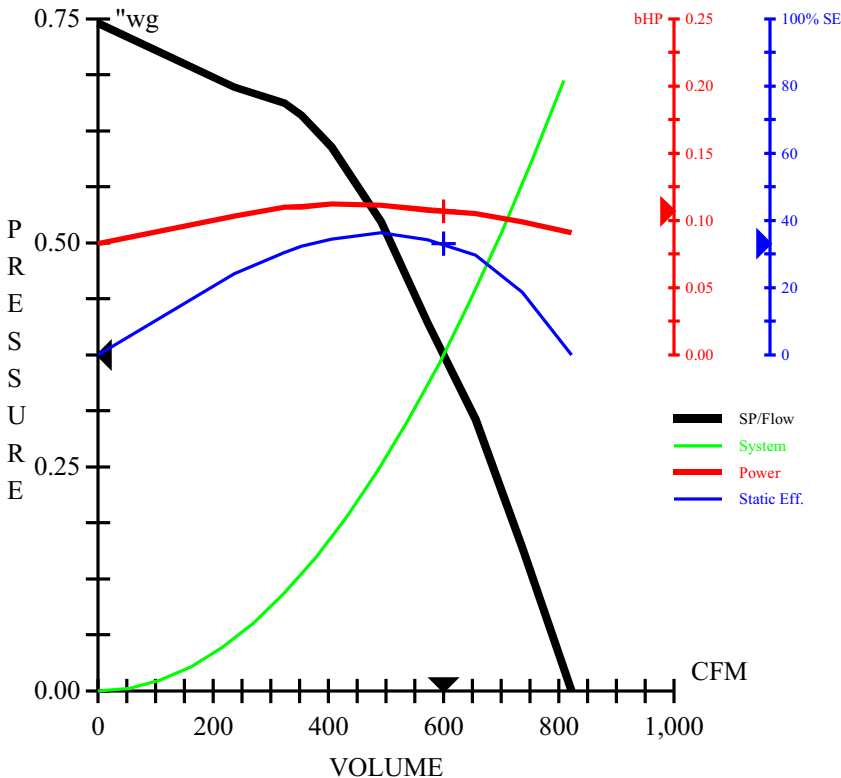
| | |
|------|----------|
| H.P. | 1/6 |
| TYPE | ODP |
| ELEC | 115v/1ph |



Sound Data

| Octave Band | | | | | | | | LwA | Sones |
|-------------|----|----|----|----|----|----|----|-----|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 65 | 6.7 |
| 66 | 69 | 57 | 61 | 59 | 57 | 55 | 51 | | |

(dB re 10⁻¹² watts)



Performance certified is for installation type A - free inlet, free outlet. Speed (RPM) is nominal. Performance is based on actual speed of test.

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts calculated per AMCA Standard 301. Values shown are for inlet LWi sound power levels for installation Type A free inlet, free outlet. Ratings do not include the effects of duct end correction. The sound ratings shown are loudness values in fan sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A, free inlet hemispherical sone levels.

EF4,5

SDM 1021 485 GRAND AVE W
CHATHAM

Qty: 2

Dimensions

| | |
|---------|----------|
| A | 25 3/4 " |
| B STD | 23 1/4 " |
| B EXT | 28 " |
| C | 15 1/2 " |
| F | 11 " |
| Curb OD | 14 " |
| Weight | 30 lbs |

Standard Features

| |
|--|
| Spun and shaped aluminum housing |
| Integral motor overload protection on all standard single phase motors |
| Disconnect switch on motors except explosion proof |
| Adjustable pitch V-belt drives |
| Two belts furnished on 5 HP and above |
| Ventilated motor compartment with motor out of airstream |
| Non-overloading, backwardly inclined wheel |
| Isolated, suspended motor wheel-drive assemble |
| Spark resistant construction through size 24 |
| Polished CRS fan shaft with rust inhibitive coating |
| Pillow Block Bearing L50 = 200,000 hrs |

Options

| |
|------------------------|
| cULus Listed |
| Aluminum |
| Mill finish |
| Standard construction |
| Galvanized bird screen |
| Standard curb cap |
| Standard disconnect |

C/W MOTORIZED BACK DRAFT
DAMPER 10" X 10" SIZE
120VOLT

ROOF CURB 18" HIGH



The Carnes Company certifies that the Models VEDK and VEBK shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.