

TOWN OF SALISBURY, CONNECTICUT
HISTORIC DISTRICT COMMISSION

APPLICATION FOR CERTIFICATE OF APPROPRIATENESS


Appl. No. 2023-001 Name of property 9 Sharon Road, Lanesville, CT 06039
CU. Issued _____ CU. No. _____ Property No. _____
Date 1-31-2023

Application is hereby made for the issuance of a Certificate of Appropriateness under an "Ordinance Establishing Historic Districts within the Town of Salisbury", duly adopted on February 9, 1970 and enacted pursuant to the enabling authority contained in Sections 7-147(a) through 7-147(k) of the General Statutes of Connecticut, for the proposed work described below and as shown on the photographs, plans, or drawings (where applicable or appropriate), accompanying this application:

Address of proposed work 9 Sharon Road, Lanesville, CT 06039
Owner 9 Sharon Road, LLC Owner's address 233 Princeton St. #36, Brooklyn, NY 11201
Applicant, if not owner _____
Agent or contractor _____
Address _____

Proposed work is in connection with: ___ a dwelling; ___ an accessory building;
 a commercial building; ___ an industrial building; ___ other (specify)

Nature and description of proposed work (attach extra sheets as necessary);
Please see attached letter and exhibits.

Signature of Applicant  Teepoo Riaz

Action taken:

Planning and Zoning Commission _____ Date _____

Building Inspector _____ Date _____

Historic District Commission Carol Mason, Chair Date 2/7/2023

COA WAIVED

9 Sharon Road, LLC
Teepoo Riaz, Managing Member
PO Box 283
Lakeville, CT 06039
(917) 202-3837 / triaz1@gmail.com

Via email: HistoricSalisburyCT@gmail.com

January 31, 2023

Ms. Carol Mason, Chair
Salisbury Historic District Commission
PO Box 429
Salisbury, CT 06068
(866) 245-1267

RE: 9 & 9A Sharon Road, Lakeville

Dear Ms. Mason,

I am the managing member of 9 Sharon Road, LLC, the entity which owns the property located at 9 & 9A Sharon Road, Lakeville, CT (the "Property"). Please find attached an Application for Certificate of Appropriateness for the Property. This application focuses on the following items:

9 Sharon Road - Restaurant:

- Exhibit 1 - Pizza oven exhaust (1)
- Exhibit 2 – Air conditioning condensers (3)
- Exhibit 3 – Walk in refrigerator condenser (1)
- Exhibit 4 - Upblast kitchen exhaust (2)
- Exhibit 5 – Makeup air fan (1)

The oven and kitchen are required by code to exhaust sufficiently to remove smoke, odor, and grease. When we purchased the property, a makeup air and upblast kitchen exhaust were installed. We are replacing one upblast fan that has been removed and doubling the exhaust. For sufficient storage of fresh product, a walk-in refrigerator is being installed, such a unit requires an exterior condenser. The current HVAC system is under-powered. The addition of mini split air-conditioning units to the main dining area will ensure customer comfort and sufficient air movement.

9 Sharon Road – Apartment:

- Exhibit 6 - Kitchen exhaust vent (1)
- Exhibit 7 – Bathroom and Dryer (2)

The new apartment is required to vent the bathroom in addition we are providing a full-size washer dryer which exhausts to the exterior. The new kitchen is designed with a vented hood as the building has a single fire alarm system and we would like to ensure that we provide sufficient exhaust to minimize any potential for false alarms due to excessive smoke. The hood will also help minimize odors and grease in the unit.

9A Sharon Road

Exhibit 8 – Exterior security lighting (2)

A condition of the Special Permit application approved by the Salisbury Planning and Zoning Commission was to provide “[i]mproved lighting for parking and pedestrians on Factory Village Lane”. We are proposing the installation of 2 security lights set to a timed interval to allow for better illumination along Factory Village Lane.

Along with information about the equipment, we have provided mocked up photos of the Property showing the equipment. Detailed specifications have also been provided for your review.

I look forward to the meeting on February 7, 2023. In the interim, please do not hesitate to reach out. We appreciate the consideration.

Regards,

/S/

Teepoo Riaz

Attachments

Exhibit 1 and 2

Mocked up photo
Pizza oven Exhaust
Minisplit condensing units

Circled in white = new



Exhibits 4, 5, 6, & 7
Restaurant & Apartment Exhaust

- Exhibit 4 - Upblast kitchen exhaust (2)
- Exhibit 5 - Makeup air fan (1)
- Exhibit 6 - Kitchen exhaust vent (1)
- Exhibit 7 - Bathroom and Dryer (2)

Circled in white = new



Exhibit 1

Pizza Oven Exhaust – 48” x 8” diameter



Exhibit 2
Restaurant Mini-Split AC Condensing Units (3)



Exhibit 3
Walk-in Refrigerator Condenser

Circled in white = new





Exhibit 4
Restaurant Upblast Fan (2)



Exhibit 5
Make-up Air Fan



Exhibit 6
Apartment Kitchen Exhaust



Exhibit 7
Apartment Dryer & Bathroom Exhaust (2)

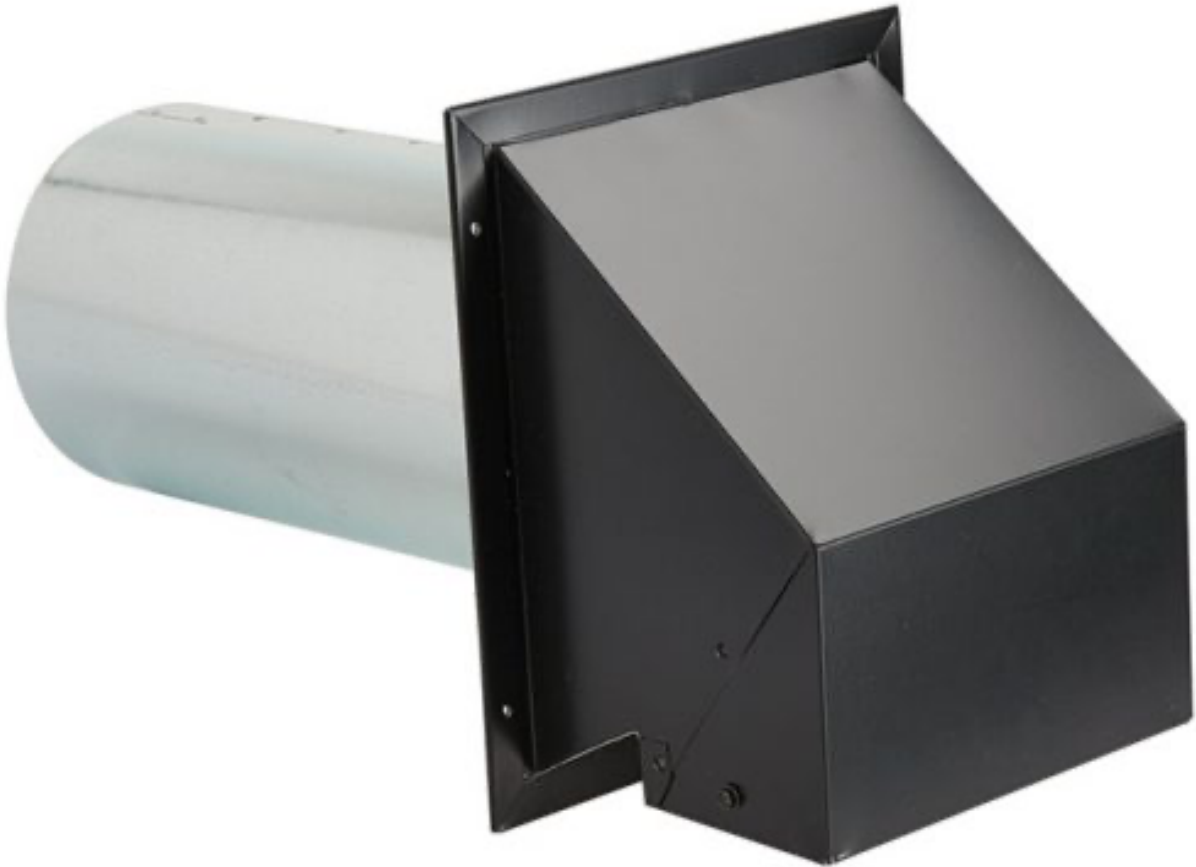


Exhibit 8
Improved Factory Brook Lane Proposed Lighting Location



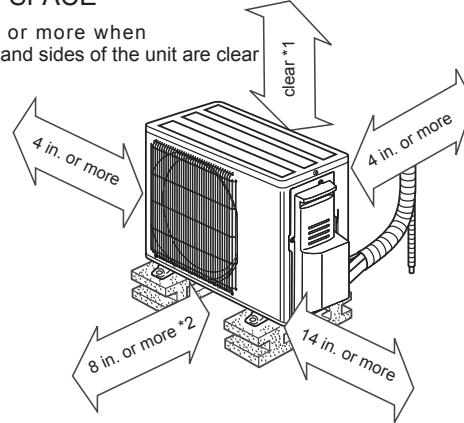


MUZ-GL09NA MUZ-GL09NAH MUY-GL09NA
 MUZ-GL12NA MUZ-GL12NAH MUY-GL12NA
 MUZ-GL15NA MUZ-GL15NAH MUY-GL15NA

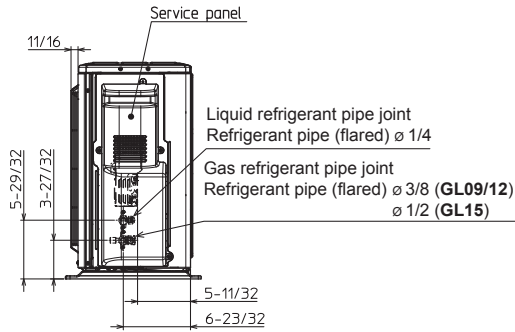
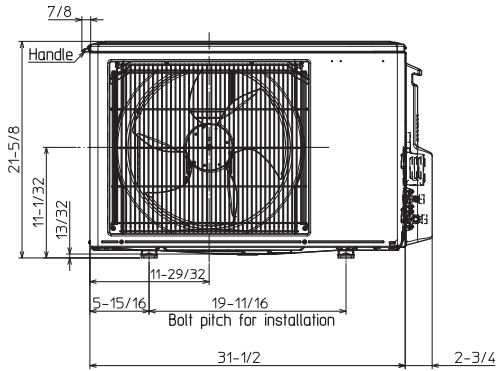
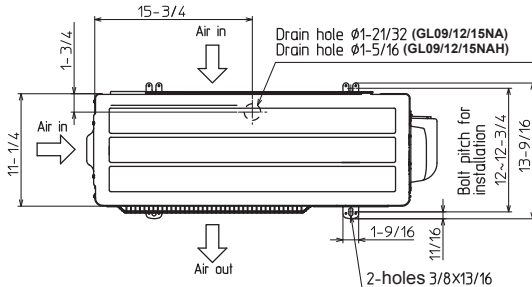
Unit: inch

REQUIRED SPACE

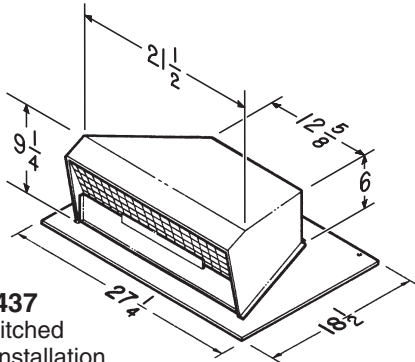
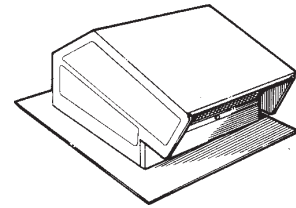
*1 4 in. or more when front and sides of the unit are clear



*2 When any 2 sides of left, right and rear of the unit are clear

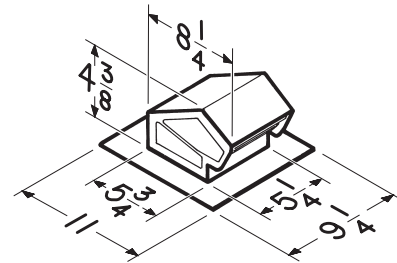


ROOF CAPS



Model 437

- For pitched roof installation
- High-capacity design - up to 1200 CFM
- 24 GA. CRCQ steel, black powder coat paint finish
- Built-in spring-loaded backdraft damper and bird screen
- For 8-in. to 10-in. round duct

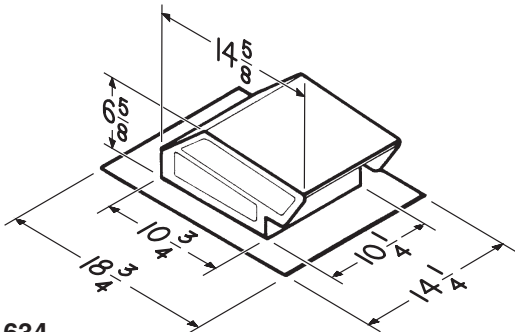


Model 636

- For pitched roof installation
- 25 GA. CRCQ steel, black powder coat paint finish
- Built-in backdraft damper and bird screen
- For 3" or 4" round duct

Model 636AL

- Same as Model 636 .025 - in Aluminum
- Natural finish



Model 634

- For pitched roof installation
- 24 GA. CRCQ steel, black powder coat paint finish
- Built-in backdraft damper and bird screen
- For 3 1/4" x 10" or up to 8" round duct

Model 634M

- Same as Model 634 except with 6" round duct collar

Model 644

- Same as Model 634 except .025 aluminum
- Natural finish

Model 443 Flexible Roof Ducting Kit

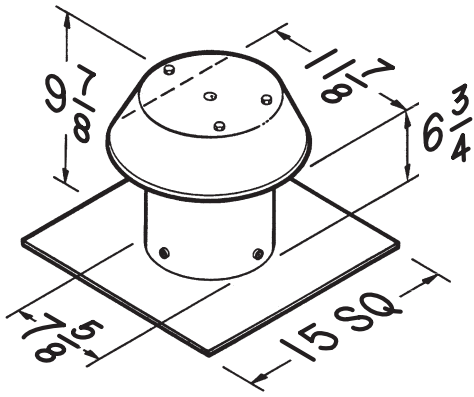
- Includes 8 ft. of 4", flexible, vinyl ducting, 4" diameter metal duct connector, 2 duct clamps, 4" to 3" reducer and Model 636 Roof Cap

Model RVK1A Flexible Roof Ducting Kit

- Includes 8 ft. of 4", flexible, 2-ply metallic laminate ducting, 4" diameter metal duct connector, 2 duct clamps, 4" to 3" reducer and Model 636 Roof Cap
- Duct conforms to UL181 Class 1 air connector requirements
- Not recommended for dryer venting

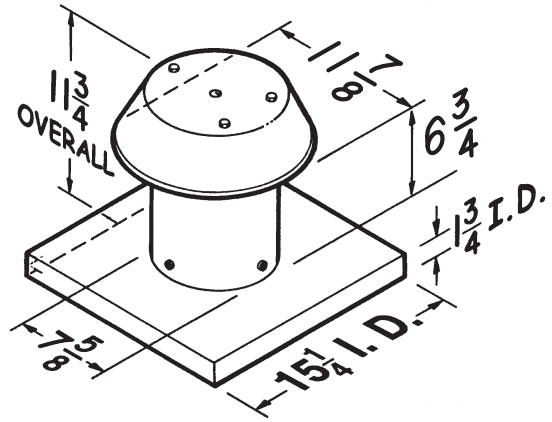
Broan-NuTone LLC Hartford, Wisconsin www.broan-nutone.com 800-558-1711
 Venmar Ventilation ULC Drummondville (Quebec) www.broan.ca 877-896-1119

REFERENCE	QTY.	REMARKS	Project
			Location
			Architect
			Engineer
			Contractor
			Submitted by Date



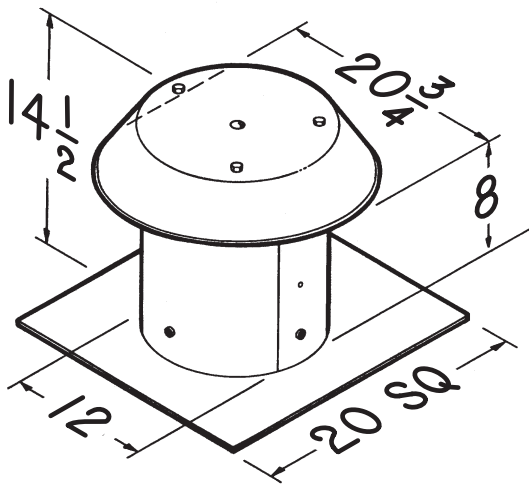
Model 611

- For flat roof installation
- .025 Aluminum - natural finish
- Built-in bird screen
- For up to 8" round duct



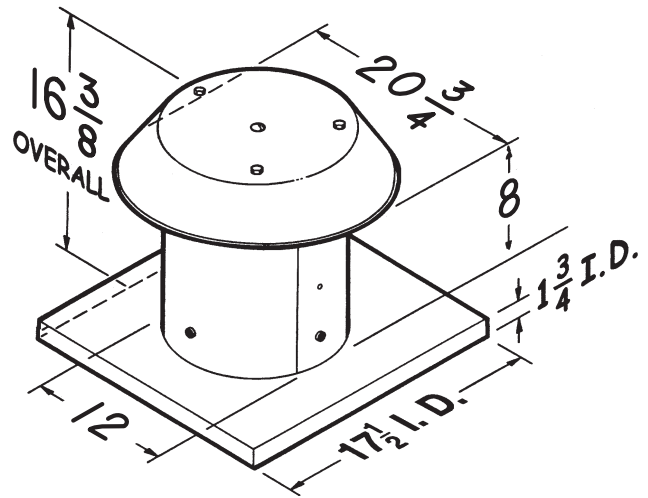
Model 611CM

- For curb mount installation
- Other features same as Model 611



Model 612

- For flat roof installation
- .025 Aluminum - natural finish
- Built-in bird screen
- For up to 12" round duct



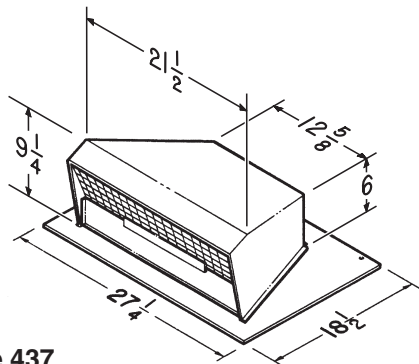
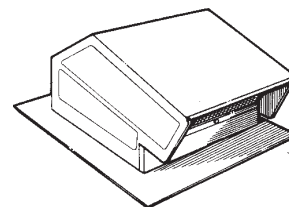
Model 612CM

- For curb mount installation
- Other features same as Model 612

BROAN® NuTone®

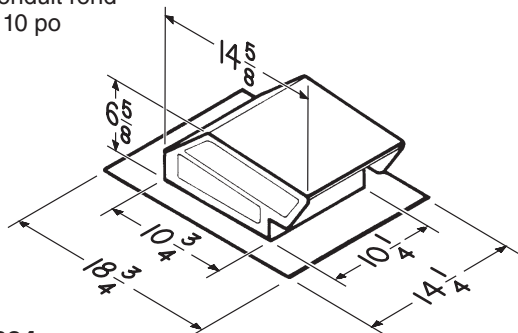
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CAPUCHONS DE TOIT



Modèle 437

- Pour l'installation de toits inclinés
- Conception haute capacité - jusqu'à 1200 CFM
- Acier laminé à froid calibre 24 de qualité commerciale, fini noir revêtement en poudre
- Clapet antirefoulement à ressort et grillage aviaire intégrés
- Pour conduit rond 8 po à 10 po



Modèle 634

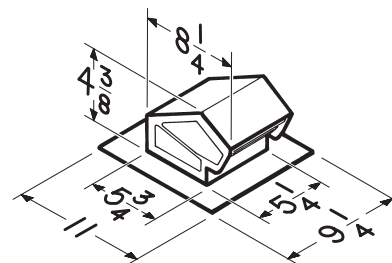
- Pour l'installation de toits inclinés
- Acier laminé à froid calibre 24 de qualité commerciale, fini noir revêtement en poudre
- Clapet antirefoulement à ressort et grillage aviaire intégrés
- Pour conduit de 3 1/4 po x 10 po ou conduit rond de 8 po maximum

Modèle 634M

- Identique au modèle 634, mais muni d'un collier de conduit rond de 6 po

Modèle 644

- Identique au modèle 634, mais en aluminium 0,025
- Fini naturel



Modèle 636

- Pour l'installation de toits inclinés
- Acier laminé à froid calibre 25 de qualité commerciale, fini noir revêtement en poudre
- Clapet antirefoulement à ressort et grillage aviaire intégrés
- Pour conduit rond de 3 po ou 4 po

Modèle 636AL

- Identique au modèle 636 - en aluminium 0,025
- Fini naturel

Modèle 443 - Ensemble de conduit flexible pour toit

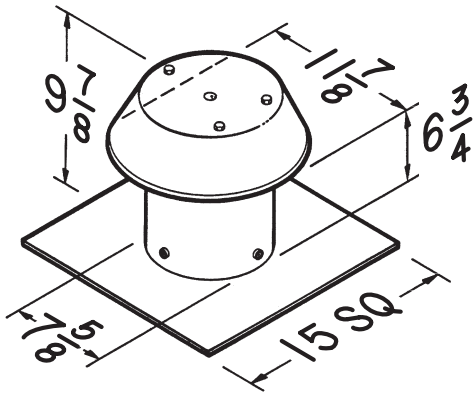
- Comprend 8 pi de conduit en vinyle flexible de 4 po, un raccord de conduit métallique de 4 po de diamètre, 2 colliers de conduit, un réducteur de 4 po à 3 po et un capuchon de toit modèle 636.

Modèle RVK1A - Ensemble de conduit flexible pour toit

- Comprend 8 pi de conduit métallique flexible laminé 2 plis de 4 po, un raccord de conduit métallique de 4 po de diamètre, 2 colliers de conduit, un réducteur de 4 po à 3 po et un capuchon de toit modèle 636.
- Le conduit est conforme aux exigences de la norme UL181 applicables à un raccord d'air de Classe 1.
- Déconseillé pour évacuer l'air des sécheuses.

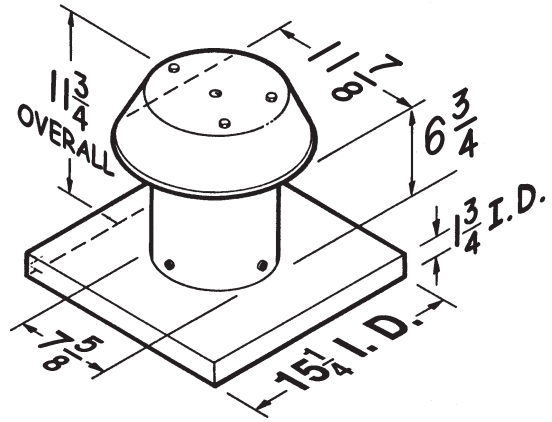
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RÉFÉRENCE	QTÉ	REMARQUES	Projet
			Emplacement
			Architecte
			Ingénieur
			Entrepreneur
			Soumis par Date



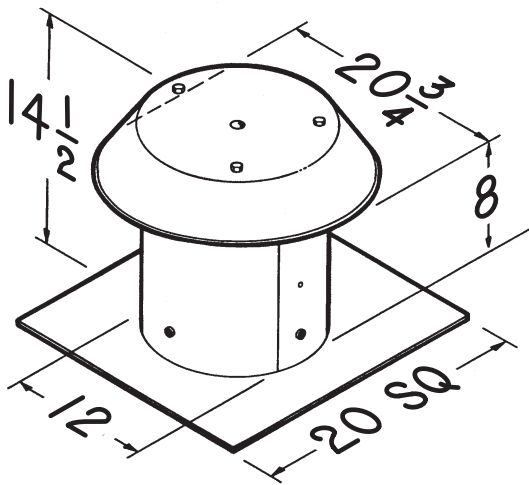
Modèle 611

- Pose sur un toit plat
- Aluminium 0,025 - fini naturel
- Grillage aviaire intégré
- Pour conduit rond jusqu'à 8 po



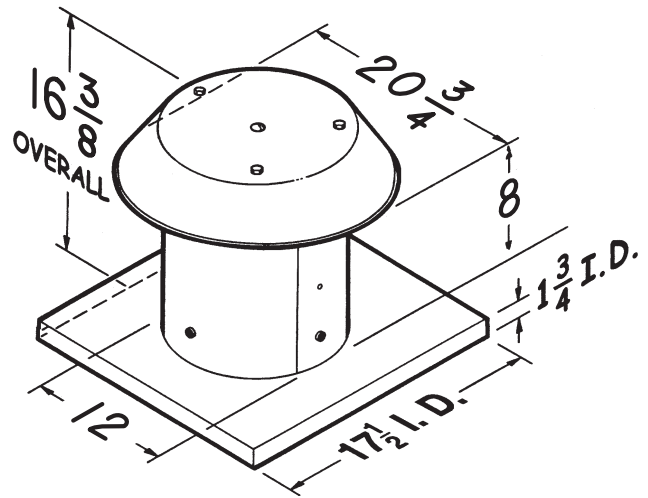
Modèle 611CM

- Pour installation sur un cadre
- Les autres caractéristiques sont identiques à celles du modèle 611



Modèle 612

- Pose sur un toit plat
- Aluminium 0,025 - fini naturel
- Grillage aviaire intégré
- Pour conduit rond jusqu'à 12 po



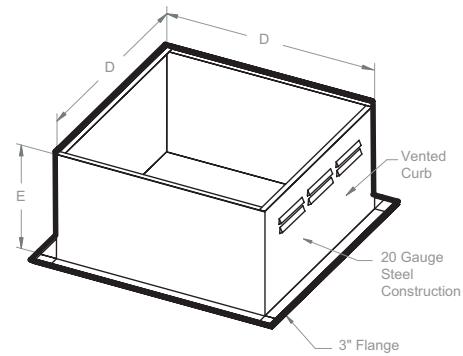
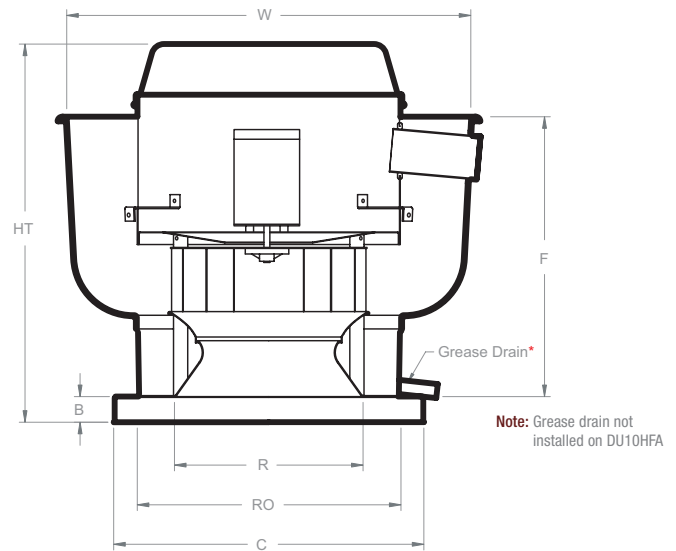
Modèle 612CM

- Pour installation sur un cadre
- Les autres caractéristiques sont identiques à celles du modèle 612

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DU-HFA Direct Drive Centrifugal Upblast Fans



Features & Benefits

- Completely enclosed drive compartment protects motor from airborne contaminants
- Forced fresh air through the motor compartment cools motor and ensures long motor life
- Variable speed control on single phase units only
- Variable Frequency Drive required for three phase units
- Non-overloading backward inclined wheels, blades and inlets fabricated from 3003-H14 aluminum
- All sizes can be wall mounted
- Quick release latches allow for easy access to motor compartment
- External disconnect switch
- Fully welded leak proof grease drain

Options

- ECM Motor
- Gravity Damper (UL705 only)
- Motorized Damper (UL705 only)
- Wall Mount Sleeve
- Roof Curb (Vented and Non-vented)
- Grease Collection Box (size 12 and larger)
- Bird Screen (UL705 only)
- Base Hinging Kit or Hinged Sub Base (for NFPA96 compliance)

Certifications



CaptiveAire certifies that Model DU10HFA thru DU85HFA 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 Publication 311, and comply with the requirements of the AMCA Certified Rating Program.



Models DU10HFA thru DU85HFA are ETL Listed under file number 3049729-002 and comply with UL705 (electrical) Standards and CSA Std C22.2, No 113.

Models DU12HFA thru DU85HFA are ETL Listed under file number 3049729-001 and comply with UL762 Standards.

Measurements

MODEL	HT	W	B	C	D	E	F	R	RO	Weight (lbs)
DU10HFA	14 1/2	17 3/4	2	19	17 1/2	12	9 1/2	8 1/8	13	30
DU12HFA	18	22	2	19	17 1/2	12	14 1/2	10 5/8	13	40
DU30HFA	25 1/4	25 1/2	2	21	19 1/2	12	18 1/2	12 1/8	16	50
DU33HFA	25 1/4	25 1/2	2	21	19 1/2	12	18 1/2	12 1/8	16	50
DU50HFA	27 1/4	28 7/8	2	21	19 1/2	12	21 1/2	13 1/4	16	55
DU85HFA	30 1/2	31 7/8	2	24 3/4	23	12	23	14 7/8	20	60
DU180HFA	33 3/4	39 3/8	2	28	26 1/2	12	22 5/8	16 1/2	24	190
DU200HFA	33 3/8	38 7/8	2	28	26 1/2	12	29 1/2	18	24	195
DU240HFA	37 1/2	43 3/8	2	33	31 1/2	12	30 5/8	23 7/8	28	270
DU300HFA	40	52 3/4	2	40	38 1/2	12	33 1/2	24	36	410
DU360HFA	45 9/16	63 7/16	2	44	42 1/2	12	43 7/16	25 1/4	40	470

BHP (Brake Horsepower): The actual power developed by a motor as measured by the force applied to a shaft or flywheel.

		0.00"	0.125"	0.25"	0.375"	0.50"	0.625"	0.75"	0.875"	1.00"	1.125"	1.25"	1.375"	1.50"	1.75"	2.00"
MODEL	CFM	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP	RPM Sone/BHP
DU10HFA	250	755 1.6 / 0.01	969 2.5 / 0.02	1152 4.1 / 0.03	1309 5.7 / 0.04	1453 7.5 / 0.06	1582 8.8 / 0.08	1689 9.7 / 0.10	1799 10.5 / 0.12							
DU10HFA	300	906 2.6 / 0.01	1091 3.4 / 0.03	1255 5.1 / 0.04	1402 6.8 / 0.06	1531 8.4 / 0.07	1657 9.4 / 0.09	1765 10.3 / 0.11								
DU10HFA	350	1054 3.6 / 0.02	1215 4.7 / 0.04	1362 6.3 / 0.05	1496 8.1 / 0.07	1620 9.1 / 0.09	1741 10.1 / 0.11									
DU10HFA	400	1205 5.3 / 0.04	1351 6.3 / 0.05	1481 7.9 / 0.07	1606 9.0 / 0.08	1724 9.9 / 0.10										
DU10HFA	450	1355 7.1 / 0.05	1485 8.3 / 0.07	1607 9.0 / 0.08	1718 9.9 / 0.10											
DU10HFA	500	1506 9.4 / 0.07	1623 9.6 / 0.09	1730 10.0 / 0.10												
DU10HFA	550	1657 10.7 / 0.09	1763 10.9 / 0.11													
DU12HFA	300	509 0.4 / 0.01	746 1.8 / 0.02	940 3.2 / 0.04	1103 4.5 / 0.06	1245 6.1 / 0.08	1370 7.5 / 0.11	1478 8.9 / 0.14	1587 10.0 / 0.18	1676 10.8 / 0.21						
DU12HFA	400	677 1.5 / 0.01	866 2.8 / 0.03	1028 3.9 / 0.05	1180 5.4 / 0.07	1311 6.8 / 0.10	1434 8.3 / 0.13	1544 9.6 / 0.16	1646 10.5 / 0.20	1739 11.4 / 0.23						
DU12HFA	500	846 2.9 / 0.03	1002 4.0 / 0.04	1142 5.2 / 0.07	1272 6.4 / 0.09	1393 7.8 / 0.12	1511 9.3 / 0.15	1613 10.2 / 0.18	1718 11.2 / 0.22							
DU12HFA	600	1015 4.4 / 0.05	1149 5.7 / 0.07	1268 6.8 / 0.09	1382 8.0 / 0.12	1493 9.3 / 0.15	1596 10.1 / 0.18	1695 11.0 / 0.21	1791 11.9 / 0.25							
DU12HFA	700	1184 6.4 / 0.07	1304 7.7 / 0.10	14008 8.9 / 0.12	1509 10.0 / 0.15	1606 10.6 / 0.18	1699 11.3 / 0.22	1790 12.0 / 0.25								
DU12HFA	800	1351 8.6 / 0.11	1457 10.1 / 0.14	1553 11.0 / 0.16	1643 11.6 / 0.19	1732 12.1 / 0.23										
DU12HFA	900	1520 11.1 / 0.15	1616 11.9 / 0.19	1705 12.7 / 0.22	1786 13.2 / 0.25											
DU12HFA	1000	1689 12.8 / 0.21	1776 13.7 / 0.25													
DU30HFA	750	945 4.9 / 0.04		1133 6.8 / 0.07		1307 8.9 / 0.12		1462 11.1 / 0.16		1609 13.3 / 0.21						
DU30HFA	850	1071 6.1 / 0.05		1239 8.1 / 0.09		1396 10.1 / 0.14		1543 12.3 / 0.19								
DU30HFA	950	1195 7.5 / 0.08		1348 9.5 / 0.12		1491 11.5 / 0.17										
DU30HFA	1050	1321 9.1 / 0.10		1460 11.0 / 0.15		1593 13.0 / 0.20										
DU30HFA	1150	1447 10.8 / 0.13		1575 12.8 / 0.18												
DU30HFA	1250	1572 12.7 / 0.17														
DU33HFA	400	491 0.8 / 0.01	688 2.3 / 0.02	835 3.7 / 0.04	957 5.0 / 0.06	1064 6.0 / 0.08	1166 7.1 / 0.11	1258 8.3 / 0.14	1347 9.5 / 0.17	1434 10.7 / 0.20	1515 11.9 / 0.24	1594 13.2 / 0.28	1667 14.4 / 0.32			
DU33HFA	500	611 1.7 / 0.02	779 3.1 / 0.03	917 4.6 / 0.05	1031 5.7 / 0.07	1131 6.8 / 0.10	1222 7.8 / 0.12	1309 8.9 / 0.15	1393 10.1 / 0.18	1471 11.3 / 0.22	1548 12.4 / 0.25	1618 13.6 / 0.29	1689 14.8 / 0.33			
DU33HFA	600	734 2.7 / 0.03	873 4.1 / 0.05	1000 5.4 / 0.07	1113 6.6 / 0.09	1207 7.7 / 0.12	1296 8.8 / 0.15	1376 9.9 / 0.18	1453 11.0 / 0.21	1527 12.1 / 0.24	1596 13.2 / 0.28	1667 14.4 / 0.32				
DU33HFA	700	857 3.9 / 0.04	974 5.2 / 0.06	1094 6.3 / 0.09	1199 7.5 / 0.12	1292 8.7 / 0.15	1375 9.8 / 0.18	1452 11.0 / 0.21	1525 12.1 / 0.24	1595 13.2 / 0.28	1663 14.3 / 0.31					
DU33HFA	800	979 5.2 / 0.06	1080 6.2 / 0.09	1189 7.4 / 0.11	1288 8.7 / 0.15	1377 9.9 / 0.18	1457 11.1 / 0.21	1533 12.2 / 0.25	1603 13.3 / 0.28	1670 14.5 / 0.32						
DU33HFA	900	1102 6.4 / 0.09	1189 7.4 / 0.11	1286 8.6 / 0.14	1380 9.9 / 0.18	1466 11.2 / 0.21	1544 12.4 / 0.25	1619 13.6 / 0.29	1685 14.7 / 0.33							
DU33HFA	1000	1224 7.9 / 0.13	1300 8.8 / 0.15	1387 10.0 / 0.18	1475 11.3 / 0.22	1558 12.6 / 0.26	1634 13.8 / 0.30									
DU33HFA	1100	1346 9.4 / 0.17	1416 10.4 / 0.19	1493 11.6 / 0.23	1574 12.8 / 0.27	1652 14.2 / 0.31										
DU33HFA	1200	1469 11.2 / 0.22	1531 12.2 / 0.24	1600 13.2 / 0.28	1674 14.5 / 0.32											
DU33HFA	1300	1591 13.1 / 0.27	1648 14.1 / 0.31													
DU50HFA	600	459 1.2 / 0.01		774 4.6 / 0.05		993 7.3 / 0.11		1172 10.0 / 0.18		1322 12.5 / 0.26		1456 15.0 / 0.35		1575 17.4 / 0.44		
DU50HFA	900	687 3.5 / 0.04		933 6.5 / 0.09		1118 9.1 / 0.16		1278 11.8 / 0.24		1422 14.4 / 0.33		1554 17.0 / 0.43				
DU50HFA	1200	915 6.3 / 0.09		1117 9.1 / 0.16		1277 11.7 / 0.24		1418 14.3 / 0.32		1548 16.8 / 0.42						
DU50HFA	1500	1143 9.5 / 0.17		1315 12.4 / 0.26		1455 15.0 / 0.35		1582 17.5 / 0.45								
DU50HFA	1800	1372 13.4 / 0.29		1519 16.3 / 0.40		1645 18.9 / 0.50										
DU50HFA	2100	1601 17.9 / 0.46														
DU85HFA	800	389 1.1 / 0.01		633 1.1 / 0.01		802 6.5 / 0.10		942 8.3 / 0.17		1062 10.0 / 0.24						
DU85HFA	1000	485 2.3 / 0.02		700 5.0 / 0.07		856 7.2 / 0.12		988 9.0 / 0.19		1105 10.8 / 0.27		1211 12.7 / 0.35		1305 14.6 / 0.44		
DU85HFA	1200	582 3.4 / 0.04		773 6.0 / 0.09		917 8.0 / 0.15		1041 9.7 / 0.22		1152 11.6 / 0.30		1254 13.6 / 0.39		1348 15.4 / 0.49	1435 17.4 / 0.59	1517 19.1 / 0.69
DU85HFA	1400	679 4.7 / 0.06		848 7.1 / 0.12		985 8.9 / 0.19		1101 10.7 / 0.27		1206 12.6 / 0.35		1302 14.5 / 0.44		1394 16.5 / 0.54	1478 18.2 / 0.64	1559 20 / 0.75
DU85HFA	1600	776 6.1 / 0.09		928 8.1 / 0.16		1057 10.0 / 0.23		1167 11.9 / 0.32		1267 13.8 / 0.40		1359 15.7 / 0.50		1445 17.6 / 0.60	1527 19.3 / 0.71	
DU85HFA	1800	873 7.4 / 0.13		1010 9.3 / 0.20		1131 11.3 / 0.29		1237 13.2 / 0.38		1331 15.1 / 0.47		1420 17.0 / 0.57		1503 18.8 / 0.67		
DU85HFA	2000	969 8.7 / 0.18		1093 10.5 / 0.26		1208 12.7 / 0.35		1309 14.6 / 0.45		1401 16.6 / 0.55		1485 18.4 / 0.65				

4609-1-1 LOAD CALCULATION



COOLING REQUIREMENTS									
Application	General Walk-in Cooler			Location	Indoor				
Internal Temp	35 °F	Internal RH	84%	External Temp	85 °F	External RH	55%		
Wall Load	1,998 BTUH	Infiltration	989 BTUH	Products	614 BTUH	Miscellaneous	1,066 BTUH		
	43%		21%		13%		23%		
WALL, FLOOR AND CEILING LOADS									
Section	Construction	Thickness (in)	K Factor	R Value	Ext Temp (°F)	Dim 1 (ft)	Dim 2 (ft)	Area (ft ²)	Load (BTUH)
Rear	Urethane, Standard panels	4.000	0.14	28.57	85.0	9.00	8.50	77	134
Right End	Urethane, Standard panels	4.000	0.14	28.57	85.0	12.50	8.50	106	186
Front	Urethane, Standard panels	4.000	0.14	28.57	85.0	9.00	8.50	57	100
	Door			15.00	85.0	3.00	6.50	20	65
Left End	Urethane, Standard panels	4.000	0.14	28.57	85.0	12.50	8.50	106	186
Floor	Concrete Slab, Lightweight Aggregate 60Lb/ft3 On Grade	6.000	1.92	3.12		9.00	12.50	113	1,131
Ceiling	Urethane, Standard panels	4.000	0.14	28.57	85.0	9.00	12.50	113	197
VOLUME (ft³)		956	TOTAL WALL, FLOOR AND CEILING LOAD					1,998	
INFILTRATION LOAD : ESTIMATED BY VOLUME AND USAGE									
Box Usage	Internal Temp (°F)	Internal Rh (%)	External Temp (°F)	External Rh (%)	Ventilation (CFM)	Load (BTUH)			
Regular	35	84	85	55		989			
PRODUCT LOADS									
Type			Weight (lb)	Enter Temp (°F)	Final Temp (°F)	Pull Down (hrs)	Load (BTUH)		
General, Mixed Products, Approximation			1,913	45.0	35.0	24	614		
TOTAL PRODUCT WEIGHT (lbs)			1,913	TOTAL PRODUCT LOAD			614		
MISCELLANEOUS LOADS									
Quantity	Description			Power	Units	Run Time (hrs)	Load (BTUH)		
	LIGHTING			1	W/ft ²	24	384		
2	EVAPORATOR MOTORS			100	W	24	682		
TOTAL MISCELLANEOUS LOAD							1,066		
SYSTEM DESIGN SUMMARY									
Design Load (BTUH)	Safety Factor	Safety Load (BTUH)	Run Time (Hours)	Capacity Required (BTUH)	Refrigerant	Line Frequency (Hz)	Design TD (°F)	Line Loss (°F)	Condenser Ambient (°F)
4,667	10%	5,134	16	7,700	R448A	60	10.1	0.5	95
SYSTEM EQUIPMENT SELECTION									
Equipment Type	Quantity	Model Number	Description			Voltage	Rating (BTUH)		
Condensing Unit	1	BEZA008H8-HS2D	EZ-Line Scroll Condensing Units-Air			208-230/1/60	8,452		
Evaporator	1	BLP209MA-S1D	Low Profile Evaporator			115/1/60	8,843		
SYSTEM BALANCE									
Fan Load (BTUH)		Suction Temp (°F)		Evaporator TD (°F)		System Capacity (BTUH)			
		24.8		9.7		8,513			



**NATIONAL REFRIGERATION AND
AIR CONDITIONING CANADA CORP.**
159 ROY BLVD, PO BOX 2020
BRANTFORD, ON
CANADA N3T 5Y6

BEZA008H8-HS2D

**EZ-LINE SCROLL
CONDENSING UNITS-AIR**

PURCHASER :

SUBMITTED BY : **Poppy Hudson**

PROJECT : **Firehouse Restaurant**

DATE : **25 Oct 2022**

ORDER # : **06459.39070.00789-B00**

ITEM # : **1**

QUOTE # : **Q081UPHA-B**

ID # :

PURCHASER'S PO # :

TAGGING :

MODEL FEATURES

- 3/8" Tubing coil construction (reduces refrigerant operating charge)
- Anti-short cycle time delay
- Adjustable pressure fan cycling control on 2 fan models only
- Copper tubing secured with cushion clamps
- Crankcase heater
- Discharge line temperature sensor
- Fan Guard
- Fan motors are inherently protected with internal overloads
- Pre-formed piping
- Receiver with fusible plug and liquid shut off valve
- Suction Service valve
- Adjustable flooded head pressure control (unless otherwise indicated)
- Units are shipped with Helium holding charge
- Weatherproof electrical control box with compressor contactor and fused control circuit
- Welded hermetic Scroll compressor
- Adjustable low pressure control with flex hose / fixed high pressure control
- ECM with SmartSpeed Technology
- High efficiency enhanced copper tube and aluminium fin coil design
- Compatible with Low GWP Refrigerants
- Outdoor weatherproof pre-painted steel cabinet

MODEL OPTIONS (* = Shipped Loose)

OPTION PACKAGES

- Small B (Good@Warm/Moderate)
- Small N (Better@Warm/Moderate)
- Small P (Best@Warm/Moderate)
- 1** Small D (Good@Moderate/Cold)
- Small J (Better@Moderate/Cold)
- Small Q (Best@Moderate/Cold)
- Small K
- Small H
- 115V Control Circuit**
- ADJUSTABLE PRESSURE CONTROLS**
- Johnson Dual with flex hose
- Separate High/Low
- Separate High/Low: MAN Reset on HP
- BALL VALVE**
- *Liquid Line
- Liquid Line
- *Suction Line
- Suction Line
- CAPACITY CONTROL - HOT GAS BYPASS**
- To Inlet of Evaporator
- To Suction Line
- Compressor Circuit Breaker**
- CONDENSING UNIT PRISON PACKAGE**
- Tamper Proof Screws
- Crankcase Pressure Regulator**
- CONTACTORS**
- 30A Contactor
- 40A Contactor
- 60A Contactor

DEFROST KIT

- (USE W/KE2 EVAP EFF)**
- Up to 30A per Evap
- 35A to 50A per Evap
- Over 50A per Evap
- Discharge Air Hood**
- Discharge Line Check Valve**
- DISCONNECT SWITCH**
- Fused
- Non-Fused
- EC FAN MOTORS + SPEED CONTROLLER**
- All Motors Variable Speed - 230V Units
- ELECTRONIC PRESSURE CONTROL**
- Low Pressure Control
- High Pressure Control
- Export Crating**
- EXTENDED 4-YEAR COMPRESSOR WARRANTY**
- Copeland
- Extended Leg Kit**
- COIL COATING**
- E-Coat
- FIN MATERIAL**
- Gold Coat Fins
- Copper Fins
- Hail Guard for Condenser**
- 1 Heated and Insulated Receiver**
- HOUSING MATERIAL**
- Stainless Steel
- Insulated Suction Line**

LIQUID LINE FILTER + SIGHT GLASS

- 1** Sealed
- Replaceable
- Liquid Line Lock-Out Relay**
- LIQUID LINE SOLENOID VALVE**
- *Standard 230V Coil
- *Standard 115V Coil
- OIL SEPARATOR**
- With Oil Filter and Solenoid
- One Time Pump Down**
- Oversized Receiver**
- Pump Down Toggle Switch**
- QuickVac Valves**
- Receiver Inlet Ball Valve**
- Single Point Electrical SUCTION ACCUMULATOR**
- With Heat Exchanger
- Without Heat Exchanger
- SUCTION FILTER**
- Sealed Type
- Replaceable Core
- TIME CLOCK**
- Paragon 8145 Style
- *230V Paragon 8145 Style
- *115V Paragon 8145 Style
- Wind Guard**
- Less Flooding Valve(s)**

VOLTAGE		SYSTEM REFRIGERANT			RATING		SUCTION TEMP		AMBIENT TEMP		CAPACITY	
208-230/1/60		R448A			0.8Hp		24.8 °F		95 °F		8513 BTUH	
FANS				COMPRESSOR				CIRCUIT TOTAL				
QTY	POWER	FLA/FAN	TYPE		QTY	RLA	LRA	AMPS	WATTS	MCA†	MOP‡	
1	100W	1	ZB07KAE-PFV		1	6.3	48	7.3		8.9	15	
LIQUID		3/8 in		SOUND		-		REC CAPACITY		5 lb		APPROVALS
SUCTION		5/8 in		WEIGHT		188 lb		REF CHARGE		3 lb		

NOTES:

† MCA.. Minimum Circuit Ampacity, ‡ MOP.. Maximum Overcurrent Protection
MCA & MOP are for the condensing unit ONLY. Single point connections WILL show different on dataplate.
AWEF = 7.6 for R404A/R507/R407A/R448A/R449A. Non-compliant DOE NRCAN model for all other refrigerants



APPROVED BY :

DATE :

Approval of this drawing signifies that the equipment is acceptable under the provision of the job specifications. Any change made hereon by any person whomsoever subject to acceptance by NATIONAL REFRIGERATION at its home office.



**NATIONAL REFRIGERATION AND
AIR CONDITIONING CANADA CORP.**

159 ROY BLVD, PO BOX 2020
BRANTFORD, ON
CANADA N3T 5Y6

BEZA008H8-HS2D

**EZ-LINE SCROLL
CONDENSING UNITS-AIR**

PURCHASER :	SUBMITTED BY : Poppy Hudson
PROJECT : Firehouse Restaurant	DATE : 25 Oct 2022
ORDER # : 06459.39070.00789-B00	ITEM # : 1
QUOTE # : Q081UPHA-B	ID # :
PURCHASER'S PO # :	TAGGING :

SELECTED OPTION DESCRIPTIONS

Heated and Insulated Receiver

Self regulating 8W/ft. heater wrapped in 1/2" Rubatex or equivalent insulation. Heater voltage matched control circuit. Receiver CRN and U-A1 form available upon request.

Liquid Line Filter + Sight Glass - Sealed

Sporlan C Series with ODF solder connections and Sporlan SA moisture indicator factory installed in liquid line.

Option Packages - Small D (Good@Moderate/Cold)

LLFD, HIR

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**NATIONAL REFRIGERATION AND
AIR CONDITIONING CANADA CORP.**

159 ROY BLVD, PO BOX 2020
BRANTFORD, ON
CANADA N3T 5Y6

Order Item No: 1
BEZA008H8-HS2D
EZ-LINE SCROLL
CONDENSING UNITS-AIR

NATIONAL REFRIGERATION will furnish equipment in accordance with this drawing and specifications, and subject to its published warranty. Approval of this drawing signifies that the equipment is acceptable under the provision of the job specifications. Any change made hereon by any person whomsoever subject to acceptance by NATIONAL REFRIGERATION at its home office.

DATE : 25 Oct 2022
PURCHASER :
PROJECT : **Firehouse Restaurant**
SUBMITTED BY : **Poppy Hudson**

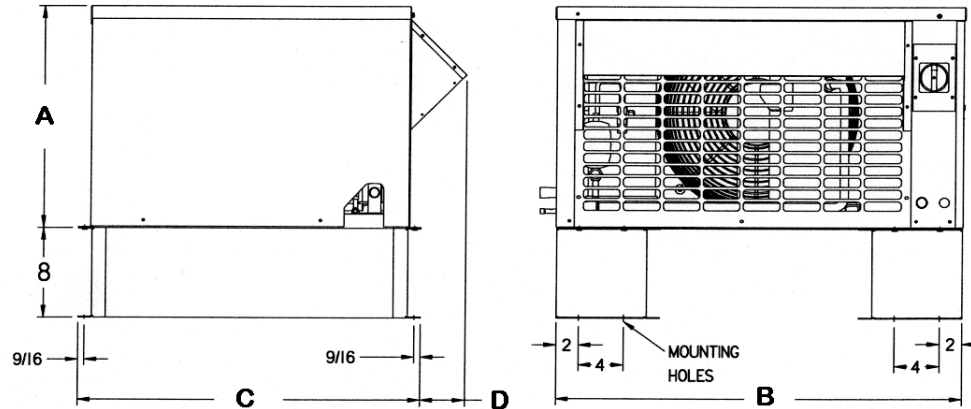
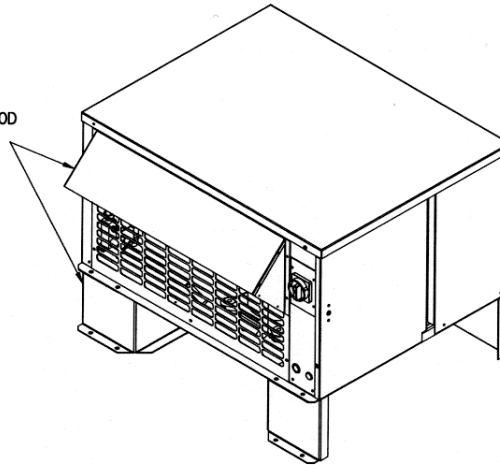
Dimensions shown are for standard unit less options.

DIMENSIONS	
DIMENSION A	19 3/8 in
DIMENSION B	24 7/8 in
DIMENSION C	30 3/8 in
DIMENSION D	4 in
DIMENSION E	
DIMENSION F	
DIMENSION G	0 in
DIMENSION H	

CONNECTIONS	
LIQUID	3/8 in
SUCTION	5/8 in
DRAIN	
WATER	
DISCHARGE	
PAN LOOP	
HOT GAS SIDE PORT	
HOT GAS INLET	
HOT GAS OUTLET	
OTHER	
SHIPPING WEIGHT	188 lb
REFRIGERANT CHARGE	3 lb
RECEIVER CAPACITY	5 lb

APPROVALS			

OPTIONAL AIR
DISCHARGE HOOD
AND LEGS



NOTES:

AWEF = 7.6 for R404A/R507/R407A/R448A/R449A. Non-compliant DOE NRCAN model for all other refrigerants



**NATIONAL REFRIGERATION AND
AIR CONDITIONING CANADA CORP.**
159 ROY BLVD, PO BOX 2020
BRANTFORD, ON
CANADA N3T 5Y6

BLP209MA-S1D

**LOW PROFILE
EVAPORATOR**

PURCHASER :

SUBMITTED BY : **Poppy Hudson**

PROJECT : **Firehouse Restaurant**

DATE : **25 Oct 2022**

ORDER # : **06459.39070.00789-B00**

ITEM # : **2**

QUOTE # : **Q081UPHA-B**

ID # :

PURCHASER'S PO # :

TAGGING :

MODEL FEATURES

- 3/8" Tubing coil construction (reduces refrigerant operating charge)
- Factory installed solenoid valve wire harness
- Heavy gauge textured aluminum cabinet construction resists scratches/corrosion
- Spacious piping end compartment allows for easy assembly

- Hinged drain pan with central universal drain connection (3/4" drain)
- Front access to spacious electrical and header compartments
- Schrader connection on suction header
- Attractive and durable high density polyethylene fan guards
- Ultra efficient Electronically Commutated Motor (ECM)

- ECM with SmartSpeed Technology
- High efficiency enhanced copper tube and aluminium fin coil design
- 6 FPI
- AWEF = 9.0
- Unit Cooler is AWEF/NRCAN compliant with R404A/R507/R448A/R449A/R407A/R407C

MODEL OPTIONS (* = Shipped Loose)

PRE-ASSEMBLED EVAP

- SmartVap+ with EEV + SolvIv
- Sporlan TXV, LLSV, T-stat
- KE2 Evap Efficiency w/Sporlan EEV
- *KE2 Evap Efficiency w/Sporlan EEV
- Aux Sideport Connector**

CABINET FINISH

- Painted White
- Stainless Steel

SENSORS FOR CPC BOARDS

- Coil Temp Sensor
- Return Air Temp Sensor

DEMAND DEFROST ELECTRONIC CONTROLLER

- KE2 Therm Evaporator Efficiency
- *KE2 Therm Evaporator Efficiency

Dual Circuit

ELECTRONIC CONTROLLER

- KE2 Temp+Defrost
- SmartVap+ Control Board and Display

EXPANSION VALVE

- Sporlan TXV
- Sporlan EEV
- EEV for SmartVap+

**Evaporator Disconnect Switch
EVAPORATOR PRISON PACKAGE**

- Tamper Proof Screws

**Export Crating
COIL COATING**

- E-Coat

FIN MATERIAL

- Gold Coat Fins
- Copper Fins

Insulated Drain Pan

KE2 THERM

- *CAT5e Shielded Cable - 50ft w/connectors
- 40' Leads on Sensors + Transducers
- Ethernet Adapter Kit
- *Remote Combo Display
- *Liquid / Suction Heat Exchanger

LIQUID LINE SOLENOID VALVE

- Sporlan
- Dual Voltage Coil 120-230V Field Wired**
- Nitrogen Charged and Sealed**

ROOM THERMOSTATS

- Mechanical
- *Mechanical
- *Johnson A19ABC
- *Johnson A421ABC-02C
- Johnson A421ABC-02

Wire Fan Guards

REMOTE DEFROST PANEL

- *230V Control
- *115V Control

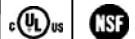
INSTALLATION REQUIREMENTS

- Minimum slope of 1" per foot on all drain lines
- P-trap per evap required outside of box

VOLTAGE		SYSTEM REFRIGERANT			AIR FLOW		EVAP. TEMP		BOX TEMP		CAPACITY
115/1/60		R448A			1500 CFM		25.3 °F		35 °F		8513 BTUH
FANS				HEATERS				CIRCUIT TOTAL			
QTY	POWER	FLA/FAN	TYPE	QTY	AMPS	AMPS	WATTS	MCA†	MOP‡		
2	0.07HP	1				2	120	2.3	15		
DISTRIBUTOR		3/8 in	SOUND	-	REC CAPACITY				APPROVALS		
SUCTION		7/8 in	WEIGHT	70 lb	REF CHARGE		1 lb				

NOTES:

† MCA.. Minimum Circuit Ampacity, ‡ MOP.. Maximum Overcurrent Protection



APPROVED BY :

DATE :

Approval of this drawing signifies that the equipment is acceptable under the provision of the job specifications. Any change made hereon by any person whomsoever subject to acceptance by NATIONAL REFRIGERATION at its home office.



**NATIONAL REFRIGERATION AND
AIR CONDITIONING CANADA CORP.**
159 ROY BLVD, PO BOX 2020
BRANTFORD, ON
CANADA N3T 5Y6

BLP209MA-S1D

**LOW PROFILE
EVAPORATOR**

PURCHASER :	SUBMITTED BY : Poppy Hudson
PROJECT : Firehouse Restaurant	DATE : 25 Oct 2022
ORDER # : 06459.39070.00789-B00	ITEM # : 2
QUOTE # : Q081UPHA-B	ID # :
PURCHASER'S PO # :	TAGGING :

SELECTED OPTION DESCRIPTIONS

Installation Requirements - Minimum slope of 1" per foot on all drain lines

Bally recommends a minimum slope of 1" per foot on all drain lines.

Installation Requirements - P-trap per evap required outside of box

All evaporators must be trapped individually outside of the box to prevent vapor migration back to coil surface.

Liquid Line Solenoid Valve - Sporlan

Sporlan solenoid coil voltage matches evaporator voltage except when evaporator is 460V, then 230V solenoid coil is used. Exceptions must be clearly explained in the Notes of the option.

Pre-assembled Evap - SmartVap+ with EEV + Solvly

Electronic evaporator control complete with EEV, controller, digital display and solenoid valve

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**NATIONAL REFRIGERATION AND
AIR CONDITIONING CANADA CORP.**

159 ROY BLVD, PO BOX 2020
BRANTFORD, ON
CANADA N3T 5Y6

Order Item No: 2
BLP209MA-S1D
**LOW PROFILE
EVAPORATOR**

NATIONAL REFRIGERATION will furnish equipment in accordance with this drawing and specifications, and subject to its published warranty. Approval of this drawing signifies that the equipment is acceptable under the provision of the job specifications. Any change made hereon by any person whomsoever subject to acceptance by NATIONAL REFRIGERATION at its home office.

DATE : 25 Oct 2022
PURCHASER :
PROJECT : **Firehouse Restaurant**
SUBMITTED BY : **Poppy Hudson**

Dimensions shown are for standard unit less options.

DIMENSIONS	
DIMENSION A	46 1/4 in
DIMENSION B	33 1/4 in
DIMENSION C	
DIMENSION D	
DIMENSION E	
DIMENSION F	
DIMENSION G	0 in
DIMENSION H	

CONNECTIONS	
DISTRIBUTOR	3/8 in
SUCTION	7/8 in
DRAIN	3/4 in
WATER	
DISCHARGE	
PAN LOOP	
HOT GAS SIDE PORT	
HOT GAS INLET	
HOT GAS OUTLET	
OTHER	
SHIPPING WEIGHT	70 lb
REFRIGERANT CHARGE	1 lb
RECEIVER CAPACITY	

APPROVALS			

NOTES:

