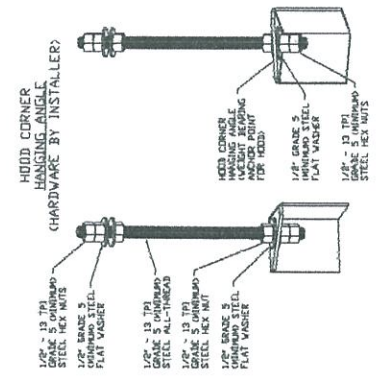
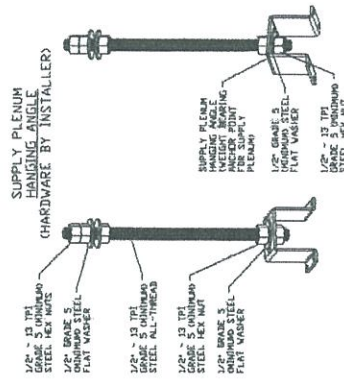


SECTION VIEW - MODEL 5424ND-2-PSP-F
HOOD - #1



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____ Date _____

Your Title _____





CAPTIVEAIRE

JOB Joe's r-3
 LOCATION DURHAM, ME,
 DATE 1/11/2017
 DWG # 2
 JOB # 2885422
 DRAWN BY BFC-21
 SCALE 3/8" = 1'-0"

HOOD INFORMATION - Job#2885422

HOOD NO.	TAG	MODEL	LENGTH	COOKING TEMP.	EXHAUST PLENUM RISERS(S)			TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD COMP. END TO END				
					MAX. COOKING TEMP.	EXH. CFM	WIDTH				LENG. HEIGHT	DIA.	CFM	S.P.
1		5424 ND-2-PSP-F	9' 0.00"	450 Deg.	1800	10'	17'	4'	1800	-0.297'	1530	430 SS 100%	ALDNE	ALDNE

HOOD INFORMATION

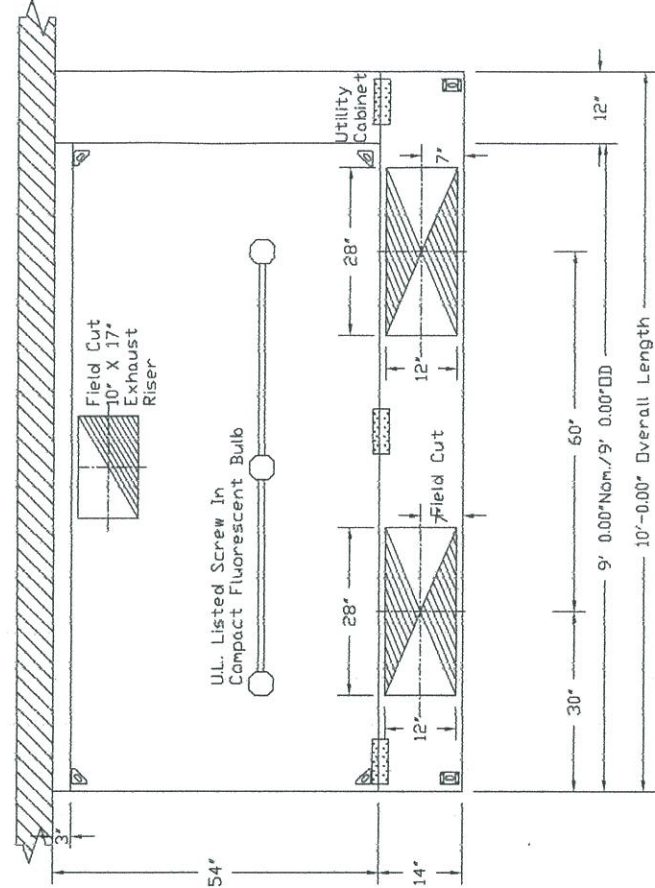
HOOD NO.	TAG	TYPE	FILTERS(S)			EFFICIENCY MICRONS	QTY.	LIGHT(S)			UTILITY CABINET(S)			FIRE SYSTEM PIPING	HOOD WEIGHT LBS
			QTY.	HEIGHT	LENGTH			TYPE	TYPE	SIZE	MODEL #	QUANTITY	TYPE		
1		SS Baffle with Handles	6	20"	16'	30%	3	Screw In Compact	ND	Right	12"x54"x24"	SC-2101028	1 Light 1 Fan	ND	645

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		LEFT VERTICAL END PANEL 27" Top Width, 21" Bottom Width, 80" High Insulated 430 SS
1		RIGHT VERTICAL END PANEL 27" Top Width, 21" Bottom Width, 80" High Insulated 430 SS

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	RISERS(S)				
						TYPE	WIDTH	LENG. DIA.	CFM	S.P.
1		Front	120"	14"	6'	MUA	12"	28"	765	0.189"
						MUA	12"	28"	765	0.189"



PLAN VIEW - Hood #1
9' 0.00" LONG 5424ND-2-PSP-F

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted
 Approved with NO Exception Taken
 Revise and Resubmit

SIGNATURE _____ Date _____
Your Title _____

ALL WORK ACCORDING TO THE CAPTIVE AIR SPECIFICATIONS

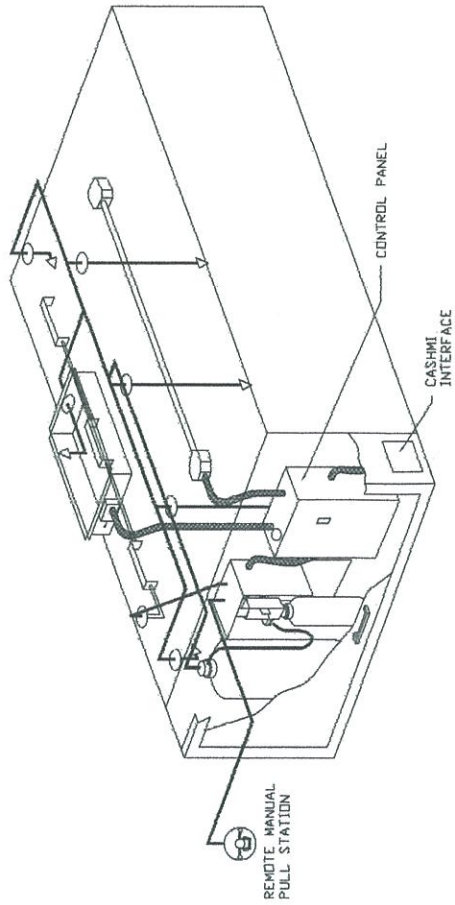
JOB #	2885422
LOCATION	DURHAM, ME.
DATE	1/11/2017
DWG #	1
REV.	SCALE 3/8" = 1'-0"

PATENT NUMBERS

AC-PSP (United States) - US Patent 7963830 B2
 AC-PSP Wall (Canada) - CA Patent 2820509
 AC-PSP Island (Canada) - CA Patent 2520330

ELECTRICAL PACKAGES - Job#2885422

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	?	H.P.	VOLT	FLA
1		SC-2101028	Utility Cabinet Right Hood # 1	Utility Cabinet Right Hood # 1	1 Light 1 Fan	Smart Controls Basic w/ Relay Drv/DFP with Supply	Exhaust	1	2,000	208	13.0



TYPICAL CONTROL CENTER INSTALLATION

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted
 Approved with NO Exception Taken
 Revise and Resubmit
 SIGNATURE _____ Date _____
 Your Title _____





CAPTIVEAIRE

JOB Joe's r3	
LOCATION DURHAM, ME.	
DATE 1/11/2017	JOB # 2885422
DWG # 3	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

Duct Wrap Fire Protection System for Commercial Kitchen Grease and Ventilation Air Ducts

Product Data



UL CLASSIFIED
PARTS AND BLANKETS
FOR USE IN FIRE RESISTIVE DUCT ASSEMBLIES
SEE UL FIRE RESISTANCE DIRECTORY
2002

LISTED



DUCT INSULATION
2002

LISTED



FIRESTOP SYSTEMS
SEE FIRESTOP DIRECTORY

LISTED



FIRESTOP SYSTEMS
SEE FIRESTOP DIRECTORY

1. Product Description

3M™ Fire Barrier Duct Wrap 615+ is a fire resistant wrap consisting of an inorganic fiber blanket encapsulated with a scrim-reinforced foil. The product is 1-1/2 in. thick, 6pcf density.¹ It is used to fire rate commercial kitchen grease ducts as well as ventilation ducts, and is a proven alternative to 1 or 2 hour fire resistant rated shaft enclosures. With its excellent insulating capabilities, low weight and thin profile, it is an ideal choice for a duct enclosure system. This non-asbestos wrap installs easily because of its high flexibility and strength.

Features

- Two-layer wrap for grease ducts rated as a shaft alternative per ASTM E 2336
- Zero clearance to combustible throughout the entire enclosure system for congested spaces
- One-layer wrap for fire-resistive ventilation ducts per ISO 6944
- High flexibility for installation ease
- Foil encapsulated for blanket protection, less dust, and high wrap strength
- Widest range of penetration seal systems

2. Applications

Two-layer applications of 3M™ Fire Barrier Duct Wrap 615+ meet the criteria of ASTM E 2336 'Standard Test Methods for Fire Resistive Grease Duct Enclosure Systems'.

3M™ Fire Barrier Duct Wrap 615+ as single-layer fire resistant wrap application has passed the ISO 6944 'Fire Resistance Tests - Ventilation Ducts'.

3M™ Fire Barrier Duct Wrap 615+ is an ideal fire resistive enclosure for commercial kitchen grease ducts and ventilation air ducts. It is a proven performance alternative to a 1 or 2 hour fire resistant rated enclosure and provides zero clearance to combustible construction throughout the entire enclosure system. 3M™ Fire Barrier Water Tight Sealant 1000 NS, 3M™ Fire Barrier Water Tight Sealant 1000 SL or 3M™ Fire Barrier Water Tight Sealant 2000+ Silicone Sealants in combination with 3M™ Fire Barrier Duct Wrap 615+ to firestop the duct when the duct penetrates fire rated floors and walls.

3. Availability

Unit	Size	Quantity	Weight
Roll	24 in. x 25 ft. (60.9 mm x 635 cm)	1	45 lb (20.4)
Roll	48 in. x 25 ft. (121 cm x 635 cm)	1	90 lb (40.8)

4. Typical Physical Properties

Blanket Color	Weight
White	0.9 lbs./ft. ² (4.36 kg/m ²)

¹ In accordance with the tolerances in ASTM C 892 Standard Specification for High-Temperature Fiber Blanket Thermal Insulation.

Wall Insulation

General Product Information:

ROXUL products are mineral wool fibre insulations made from basalt rock and steel slag. This combination results in a non-combustible product with a melting point of approximately 2150°F (1177°C), which gives it excellent fire resistance properties. ROXUL mineral wool is a water repellent yet vapour permeable material. It absorbs water only when water is pressed or forced into the material and once the pressure is relieved, the water will evaporate without any loss of integrity to the material's shape or insulating properties.

All ROXUL products are certified to carry the Environmental Choice logo.



Description & Common Applications:

The RHT 80 product is a non-combustible, rigid mineral wool insulation board that is water repellent and delivers exceptional life cycle performance and value in a diversity of thermal, acoustic and fire protection applications. RHT 80's excellent moisture resistance, non-combustibility and dimensional stability make it the ideal choice for curtain wall applications. The product can be specified with confidence in a variety of building envelope designs, parking garages, acoustic and OEM applications.

Compliance and Performance

ASTM C 612 CAN/CGSB 51.10-02 IA Approval	Mineral Fiber Block and Board Thermal Insulation Mineral Fibre Board Thermal Insulation New York City Approval	Type IV, Complies Type 1, Class 4 332-97-M
Fire Performance ASTM E 136 CAN4 S114 UL 723 (ASTM E 84) CANULC S102	Behaviour of Materials at 750°C (1382°F) Test for Non-Combustibility Surface Burning Characteristics Surface Burning Characteristics	Non-Combustible Non-Combustible Flame Spread = 0 Smoke Developed = 0 Flame Spread = 0 Smoke Developed = 0
Maximum Service Temperature ASTM C 411	Hot Surface Performance	No Reaction @ 1200°F (650°C)
Dimensional Stability ASTM C 356	Linear Shrinkage	1.24% @ 1200°F (650°C)
Moisture Resistance ASTM C 1104	Moisture Sorption	0.04%
Corrosion Resistance ASTM C 665 ASTM C 795 ASTM C 871	Corrosiveness to Steel For use with Austenitic Stainless Steel Chemical Analysis	Passed No Reaction Passed
Thermal Resistance ASTM C 518 (C 177)	R-value @ 75°F (24°C) k-value @ 75°F (24°C)	4.2/inch 0.24 Btu.in/ft ² .hr.°F

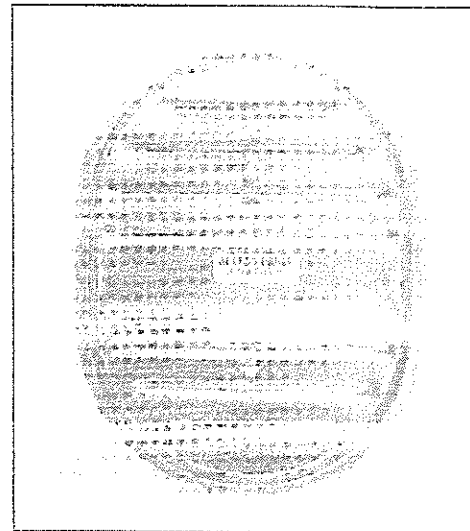
Supersedes: 11 January 1999
Revised: 29 April 1999

Access Doors— High Temp

Access Doors For Round and Flat Duct Work

Specifications

- Tested to 20" w.g., with no leakage noted.
- Available in 10x6 and 16x12.
- Metal Thickness: 10x06 16 ga. Black iron
- 16x12 16 ga. Black iron
- Ceramic fiber rope (1,000° max) or ceramic fiber gasket (2,300°, Meets NFPA 96) ensures an air tight seal
- Zinc coated wing nuts are easily turned by hand
- Self adhesive template is provided for easy installation.
- Zinc coated conical springs installed between the inner and outer door.

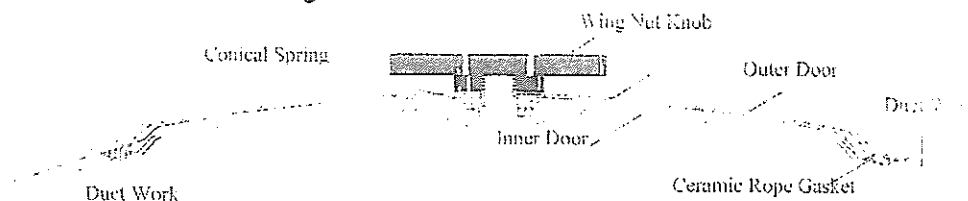


Packaging

- Access Doors are sold as single units.

Profile

- Available sizes: 10x06 Flat
16x12 Flat
10x06x 6" through 30"
16x12x 18" through 60"



Installation Instructions

1. Adhere self adhesive template to ductwork.
2. Using a pair of sheet metal snips, cut out the template.
3. Unscrew knobs of door and insert into the opening
4. Tighten knobs.

C. L. WARD
& FAMILY, INC.



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