HOOD INFORMATION – Job#2916304

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM							HOOD CONSTRUCTION	HOOD CONFIG.	
					TOTAL EXH. CFM	RISER(S)							END TO END	ROW
						WIDTH	LENG.	HEIGHT	DIA.	CFM	S.P.			
1	FRONT	5424 ND-2	12' 0.00"	600 Deg.	2700	10"	12"	4"		1350	-0.599"	430 SS Where Exposed	ALONE	FRONT
						10"	12"	4"		1350	-0.599"			
2	BACK	5424 ND-2	12' 0.00"	600 Deg.	2700	10"	12"	4"		1350	-0.599"	430 SS Where Exposed	ALONE	BACK
						10"	12"	4"		1350	-0.599"			

PATENT NUMBERS

Exhaust Hoods ND-2/BD-2/SND-2 (Canada) - CA Patent 2520435 C

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 05/26/17

HOOD INFORMATION

HOOD NO.	TAG	FILTER(S)					LIGHT(S)			UTILITY CABINET(S)						FIRE SYSTEM PIPING	HOOD HANGING WGHT
												FIRE SYSTEM		ELECTRICAL	SWITCHES		
		TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 9 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY		
1	FRONT	Captrate Solo Filter	9	20"	16"	93% See Filter Spec.	4	Screw In Compact	NO							NO	482 LBS
2	BACK	Captrate Solo Filter	9	20"	16"	93% See Filter Spec.	4	Screw In Compact	NO							NO	482 LBS

SPECIFICATION: CAPTRATE• GREASE-STOP• SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 90% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05.

CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)
ULC-S649

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 FULL LENGTH 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 _____
Your Title _____ Date _____

CAPTIVEAIRE

JOB Duck Fat 2 r2	
LOCATION Lewiston, ME,	
DATE 2/8/2017	JOB # 2916304
DWG # 1	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

NOTE: Additional hanging angles provided for hoods 12' and longer.

PLAN VIEW – Hood #2 (BACK)
12' 0.00" LONG 5424ND–2

PLAN VIEW – Hood #1 (FRONT)
12' 0.00" LONG 5424ND–2

NOTE: Additional hanging angles provided for hoods 12' and longer.

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CAPTIVEAIRE

JOB Duck Fat 2 r2	
LOCATION Lewiston, ME,	
DATE 2/8/2017	JOB # 2916304
DWG # 2	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

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IT IS THE RESPONSIBILITY
OF THE ARCHITECT/OWNER TO
ENSURE THAT THE HOOD CLEARANCE
FROM LIMITED-COMBUSTIBLE
AND COMBUSTIBLE MATERIALS
IS IN COMPLIANCE WITH
LOCAL CODE REQUIREMENTS.

SECTION VIEW – MODEL 5424ND-2
HOODS – #1 (FRONT), #2 (BACK)

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CAPTIVEAIRE

JOB Duck Fat 2 r2	
LOCATION Lewiston, ME,	
DATE 2/8/2017	JOB # 2916304
DWG # 3	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

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EXHAUST FAN INFORMATION – Job#2916304

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	ø	VOLT	FLA	WEIGHT (LBS.)	SONES
1		NCA16FA	2700	1.000	1042	1.500	0.8670	1	230	6.8	208	12
2		NCA16FA	2700	1.000	1042	1.500	0.8670	1	230	6.8	208	12

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1		1 - Grease Box
		1 - Full Crating For Exhaust Fans
		1 - 3 Year Extended Motor Warranty
		1 - Extra Set of Belts
		1 - Fan Base Ceramic Seal - For Grease Ducts
		1 - Hinge Kit - Ships Loose for Curb Supplied by Others
2		1 - Grease Box
		1 - Full Crating For Exhaust Fans
		1 - 3 Year Extended Motor Warranty
		1 - Extra Set of Belts
		1 - Fan Base Ceramic Seal - For Grease Ducts
		1 - Hinge Kit - Ships Loose for Curb Supplied by Others

FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES						
2		YES						

FAN SOUND INFORMATION

FAN UNIT NO.	MOTOR	RPM	LWA	SONES	DBA	DISTANCE FT	OCTAVE 1	OCTAVE 2	OCTAVE 3	OCTAVE 4	OCTAVE 5	OCTAVE 6	OCTAVE 7	OCTAVE 8
1	Exhaust	1042	74.2	12	62.7	5	73.2	80.9	78.3	69.1	65.9	63.8	57.9	51.9
2	Exhaust	1042	74.2	12	62.7	5	73.2	80.9	78.3	69.1	65.9	63.8	57.9	51.9

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BUILT IN ACCORDANCE WITH NFPA No. 96

CAPTIVEAIRE

JOB Duck Fat 2 r2	
LOCATION Lewiston, ME,	
DATE 2/8/2017	JOB # 2916304
DWG # 4	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

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Date: 05/26/17

FANS #1, #2 - NCA16FA EXHAUST FAN

FEATURES:

- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX
FULL CRATING FOR EXHAUST FANS
3 YEAR EXTENDED MOTOR WARRANTY
EXTRA SET OF BELTS
FAN BASE CERAMIC SEAL - FOR GREASE DUCTS
HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS

CUSTOMER APPROVAL TO MANUFACTURE:

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Revise and Resubmit ☐
SIGNATURE _____
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BUILT IN ACCORDANCE WITH NFPA No. 96

CAPTIVEAIRE

JOB Duck Fat 2 r2	
LOCATION Lewiston, ME,	
DATE 2/8/2017	JOB # 2916304
DWG # 5	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

FANS #1 #2 - EXHAUST PERFORMANCE CURVES.

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2700 CFM, 1 SP @ 1042 RPM and 0.867 BHP at 243 feet and 70 deg F

* Please note that these curves were adjusted for job specific temperature and altitude.

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JOB Duck Fat 2 r2	
LOCATION Lewiston, ME,	
DATE 2/8/2017	JOB # 2916304
DWG # 6	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

Exhaust Fan Wiring	JOB 2916304 - Duck Fat 2 r2	
DRAWING NUMBER EXH2916304-1	SHIP DATE 2/8/2017	MODEL NCA16FA

Installed Options

Component Identification

Label	Description	Location
MT-01	Fan Motor	[2]
SW-01	Main disconnect switch	[2]

MOTOR INFO

EXHAUST 1.5HP-230V-1P-6.8FLA

ELECTRICAL INFORMATION

MOTOR/CTRL MCA: 8.5A
MOTOR/CTRL MOP: 15A

NOTES

- - - - DENOTES FIELD WIRING
——— DENOTES INTERNAL WIRING

WIRE CO

BK - BLACK
BL - BLUE
BR - BROWN
OR - ORANGE
RD - RED
WH - WHITE

Date:

Reviewed for Code Compliance
Approved with Conditions
Approved with Conditions

05/26/17

CITY OF PORTLAND, MAINE

Exhaust Fan Wiring	JOB 2916304 - Duck Fat 2 r2	
DRAWING NUMBER EXH2916304-2	SHIP DATE 2/8/2017	MODEL NCA16FA

Installed Options

Component Identification

Label	Description	Location
MT-01	Fan Motor	[2]
SW-01	Main disconnect switch	[2]

MOTOR INFO

EXHAUST 1.5HP-230V-1P-6.8FLA

ELECTRICAL INFORMATION

MOTOR/CTRL MCA: 8.5A
MOTOR/CTRL MOP: 15A

NOTES

- - - - DENOTES FIELD WIRING
——— DENOTES INTERNAL WIRING

WIRE CO

BK - BLACK
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OR - ORANGE
RD - RED
WH - WHITE

Date:

Reviewed for Code Compliance
Reviewed as Noted
Approved with Conditions

05/26/17

CITY OF PORTLAND, MAINE RESURGAM