Reviewed for Code Compliance
Inspection Division
Department of Public Services

Date: 01/24/17

HOOD INFORMATION – Job#2870108

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM DIMENSIONS TOTAL EXH. CFM	WIDTH	LENG.	HEIGHT	DIA	CFM	S.P.	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	HOOD CONFIG RGV
1		5430 ND-2-PSP-F	12' 0.00"	650 Deg.	4020	19"	38"	4"		4020	-1.185"	3417	430 SS Where Exposed	ALONE	ALONE

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

HOOD INFORMATION

HOOD NO.	TAG	FILTER(S) TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 9 MICRONS	QTY.	LIGHT(S) TYPE	VAPOR GUARD	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE PIPING	HOOD WGHT. WGHT
1		Captrate Solo Filter	9	20"	16"	93% See Filter Spec.	4	Screw In Compact	NO	Right	12"x54"x30"			SC-211111FP	1 Light 1 Fan	NO	867 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		BACKSPLASH 80.00" High X 156.00" Long 430 SS Vertical
		RIGHT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS
		STRUCTURAL FRONT PANEL
		LEFT 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	TYPE	DISPERSION WIDTH	LENG.	DIA	CFM	S.P.
1		Front	156"	20"	6"	MUA	12"	24"		683	0.206"
						MUA	12"	24"		683	0.206"
						MUA	12"	24"		683	0.206"
						MUA	12"	24"		683	0.206"
						MUA	12"	24"		683	0.206"

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER

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

CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA 96
UL STANDARD 82
NSF STANDARD #2086
INT. MECH. CODE (IMC)
ULC-S649

CUSTOMER APPROVAL TO MANUFACTURE:
Approved as Noted ☐
Approved with NO Exception Taken ☐
Revise and Resubmit ☐
SIGNATURE _____
Your Title _____ Date _____

CAPTIVEAIRE

JOB Washington Ave Restaurant r2	
LOCATION BIDDEFORD, ME.	
DATE 12/21/2016	JOB # 2870108
DWG # 1	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

HOOD SYSTEM INFORMATION

MINIMUM 3FT SERVICE CLEARANCE REQUIRED IN THIS END OF THE HOOD FOR ACCESS INTO UTILITY CABINET COMPONENTS

PLAN VIEW – Hood #1
12' 0.00" LONG 5430ND-2-PSP-F
NOTE: Additional hanging angles provided for hoods 12' and longer.

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CAPTIVEAIRE

JOB Washington Ave Restaurant r2	
LOCATION BIDDEFORD, ME.	
DATE 12/21/2016	JOB # 2870108
DWG # 2	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

HOOD PLAN VIEW

EXHAUST FAN INFORMATION – Job#2870108

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	#	VOLT	FLA	WEIGHT (LBS.)	SONES
1		NCAD24WFA	4020	1.750	1031	3.000	1.9629	1	230	17.0	299	20

MUA FAN INFORMATION – Job#2870108

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	#	VOLT	FLA	WEIGHT (LBS.)	SONES
2		A2-G12	G12	A2	3417	0.400	696	1.500	0.9590	1	230	6.8	385	17.1

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1		1 - Grease Box
		1 - 3 Year Extended Motor Warranty
		1 - Extra Set of Belts
2		1 - Fan Base Ceramic Seal - For Grease Ducts
		1 - Full Crating For Untempered Fans
		1 - Gravity Backdraft Damper For Size 2 Housing
		1 - Extra Set of Belts
		1 - 3 Year Extended Motor Warranty

FAN ACCESSORIES

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

CURB ASSEMBLIES

NO.	FOR FAN	WEIGHT	ITEM	SIZE
1	# 1	48 LBS	Curb	31.500"W x 31.500"L x 24.000"H Vented Hinged
2	# 2	50 LBS	Curb	31.000"W x 31.000"L x 24.000"H

FAN SOUND INFORMATION

FAN UNIT NO.	MOTOR	RPM	L/V.A	SONES	DBA	DISTANCE FT	OCTAVE 1	OCTAVE 2	OCTAVE 3	OCTAVE 4	OCTAVE 5	OCTAVE 6	OCTAVE 7	OCTAVE 8
1	Exhaust	1031	83	20	71.5	5	76.4	89.6	87	79.1	74	71.5	66.4	62.4
2	Supply	696	79.4	17.1	67.9	5	85.4	82.8	77.9	75.2	73.6	72	68.3	65.3

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Revise and Resubmit ☐
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CAPTIVEAIRE

JOB Washington Ave Restaurant r2	
LOCATION BIDDEFORD, ME.	
DATE 12/21/2016	JOB # 2870108
DWG # 4	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

FAN SCHEDULES

SECTION VIEW – MODEL 5430ND-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) STEEL 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.

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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 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.

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CAPTIVEAIRE

JOB Washington Ave Restaurant r2	
LOCATION BIDDEFORD, ME.	
DATE 12/21/2016	JOB # 2870108
DWG # 3	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

HOOD ELEVATION

STATE OF MAINE
BRIAN R. HALEY
No. 8879
LICENSED
PROFESSIONAL ENGINEER

FOR CONSTRUCTION

Haley's Metal Shop, Inc.
"Since 1917"
HMS
HALEY'S METAL SHOP, INC.
539 ELM STREET
BIDDEFORD, MAINE 04005
PH: 207-284-8571, FAX: 207-284-9597

DATE: 12/22/16

SCALE: NTS

CONG TU BOT RESTAURANT
PORTLAND, MAINE
DETAILS AND SCHEDULES

HVAC

M-3