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CIVIL ENGINEER
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CONSTRUCTION MANAGER
GAMMONG
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3988 N Michigan Rd
Indianapolis, IN 46208
PH 317 462-1001



PROJECT NUMBER: 202414
DRAWN: JPR CHECKED: STAFF
CONSTRUCTION SET 01/16/2025

REVISIONS
DESCRIPTION DATE
10 CHANGE BULLETIN NO. 6 10/09/2025

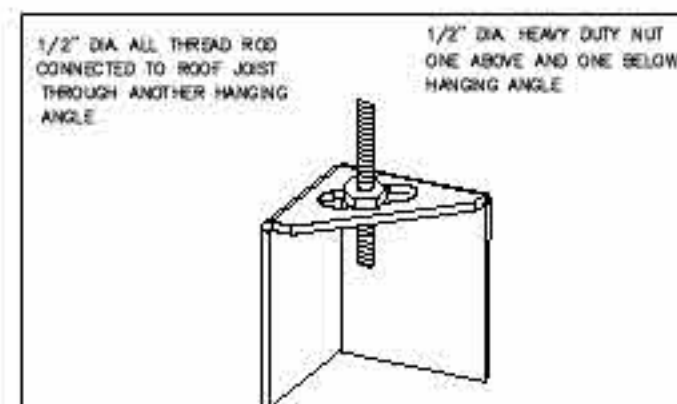


WASHINGTON
TOWNSHIP FIRE
DEPARTMENT
STATION 145

7040 GOVERNORS ROW
AVON, IN 46123

HOOD DETAILS

H-101



*HOOD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR. HANGING ANGLE IS PRE-FABRICATED AT FACTORY.

HANGING ANGLE DETAILS

HOOD STYLE / MODEL	450 DEGREES cfm/ft.	600 DEGREES cfm/ft.	700 DEGREES cfm/ft.
CANOPY NOZ	150	200	250
WITH END TUNNELS (1.5% reduction)	127.5	170	212.5
SLOPED SND-2	228	294	-
ISLAND AD-2W	269	300	350
NOI	346	422	475

ETL HOOD LISTING DETAIL

EXHAUST CFM=LENGTH OF HOOD X CFM/UNIT. (LQAS)
SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED
FLAT WASHERS
TOTAL DUCT AREA=144 X
DUCT LENGTH= TOTAL DUCT AREA
DUCT DEPTH

*CAPTIVE-AIRE VENTILATOR NET SIZE ARE CALCULATED USING AN EXHAUST VELOCITY OF 1000-1080 FPM AND A SUPPLY VELOCITY OF 1000 FPM

CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:



Listed under ETL File number: 3054804-001/002

BUILDING CODES

CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS:

MATERIAL	CLEARANCE REDUCTION SYSTEM
NON-COMBUSTIBLE	NONE REQUIRED
LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF
COMBUSTIBLE	1" INSULATED STANDOFF

CLEARANCE TO COMBUSTIBLES

INSULATION

- ALL ELECTRICAL, TIE-OUT CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTORS.
- ALL PLUMBING TIE-OUT CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS.
- HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS. ALL OTHER HANGING MATERIALS PROVIDED BY INSTALLING CONTRACTORS.
- ALL CONNECTIONS FROM CAPTIVE-AIRE DUCT FOR MECHANICAL CONTRACTORS' PLANS.
- COOKING EQUIPMENT TO SHUT-OFF IN EVENT OF FIRE.
- EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
- ALL LIGHTS, FIXTURES, SHOWN INSTALLED BY CAPTIVE-AIRE AND FACTORY PROVIDED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES BY ELECTRICAL CONTRACTORS.
- LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS.
- SEISMIC RESISTANCE ARE RESPONSIBILITY OF INSTALLING CONTRACTORS.
- INSTALLING CONTRACTORS ASSUME ALL RELATED RESPONSIBILITY FOR VERIFICATION OF DIMENSIONS, DATA CORRECTNESS, AND ADMINISTRATION OF CODE REQUIREMENTS IN STRICT ADHERENCE TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.

BALANCE

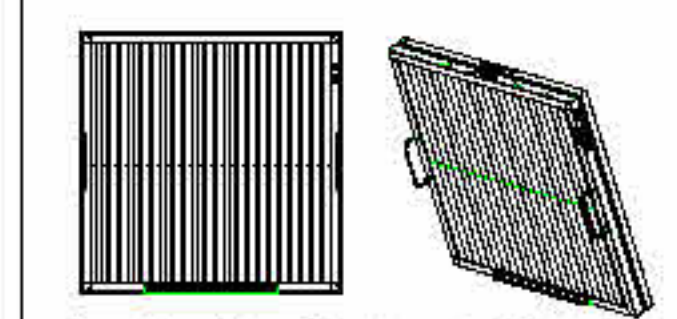
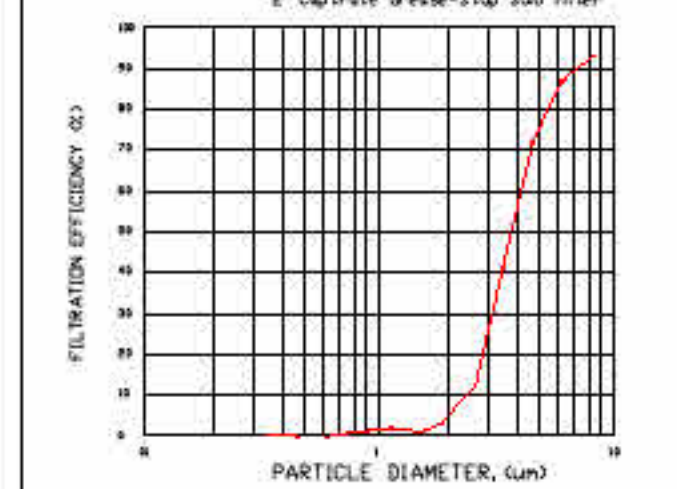
- KITCHEN HOODS MUST BE BALANCED WITH KITCHEN.
- KITCHEN SHALL BE NEGATIVE WITH RESPECT TO OUTDOOR.
- RESTAURANT SHALL BE POSITIVE WITH RESPECT TO OUTDOOR PRESSURE.

ADDITIONAL

- WHEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE.
- SIGNED AND DATED/NOTED COPIES OF THIS DOCUMENT MUST BE SUBMITTED TO FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.

GENERAL NOTES

FILTER COLLECTION EFFICIENCY



CaptiveAire Captrate Solo Filter
ETL Listed Grease Extracting Filter
Made From 430 Stainless Steel

FILTER DETAIL

FOR QUESTIONS, CALL THE
Indiana Mechanical
REGION 38
PHONE: (317) 215 - 0671
EMAIL: reg38@captiveaire.com

HOOD INFORMATION - JOB#8239576

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	EXHAUST PLENUM RISER(S) LENGTH	EXHAUST PLENUM RISER(S) HEIGHT	EXHAUST PLENUM RISER(S) DIA	EXHAUST PLENUM RISER(S) CFM	EXHAUST PLENUM RISER(S) VEL	EXHAUST PLENUM RISER(S) SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	HOOD CONFIG ROW
1	KH-1	5424 ND-2-PSP-F	CAPTIVEAIRE	5' 10"	600 DEG	I	HEAVY	175	1021			4"	10"	1021	1872	-0.756"	850	430 SS	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)					LIGHT(S)			LOCATION	SIZE	UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD			FIRE SYSTEM		ELECTRICAL	SWITCHES		
												TYPE	SIZE	MODEL #	QUANTITY		
1	KH-1	CAPTARE SOLO FILTER	4	16"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND	NO							YES	450 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	KH-1	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT. LEFT END STANDOFF (FINISHED) 1" WIDE 54" LONG INSULATED. RIGHT END STANDOFF (FINISHED) 1" WIDE 54" LONG INSULATED. RISER SENSOR INSTALL 6IN PLEN RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS. 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	WIDTH	LENGTH	DIA	CFM	SP
1	KH-1	Front	72"	14"	6"	MUA	10"	20"		425	0.122"
						MUA	10"	20"		425	0.122"

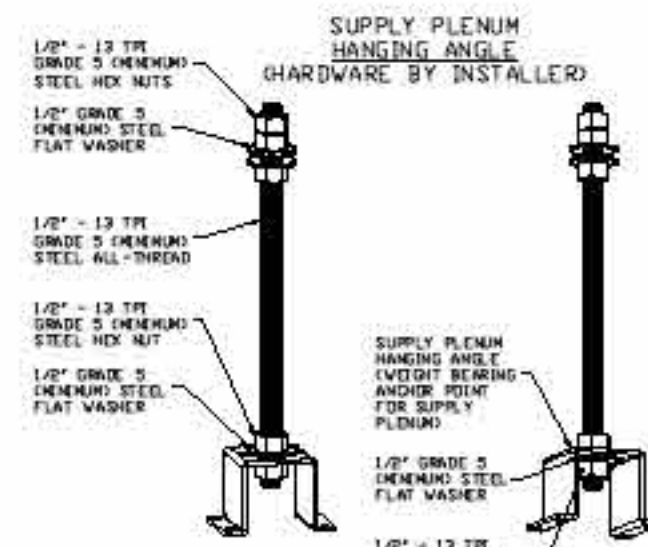
WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	TYPE	UTILITY CABINET(S) TYPE	UTILITY CABINET(S) SIZE	UTILITY CABINET(S) MODEL #	UTILITY CABINET(S) QUANTITY	UTILITY CABINET(S) WEIGHT
1	WALL MNT	12"x42"x24"	TANK FS		4.0	SC-F10011MA	1 LIGHT 1 FAN	240.00 LBS

CLEARANCE TO COMBUSTIBLES

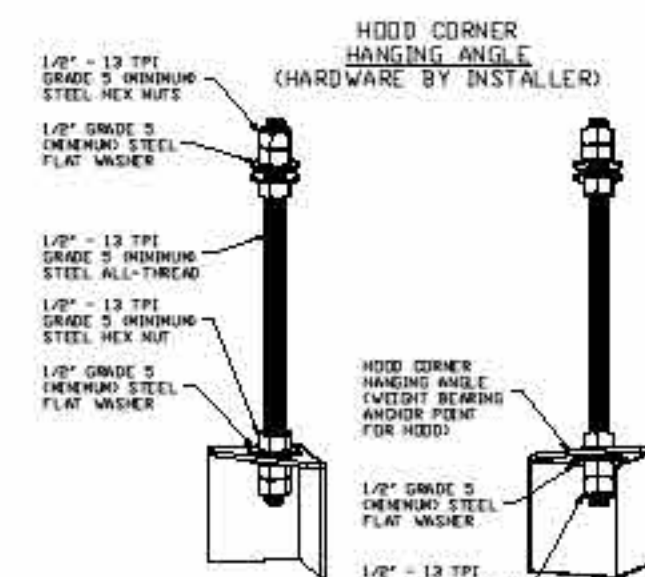
HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	0"
	RIGHT	0"

* 18" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.



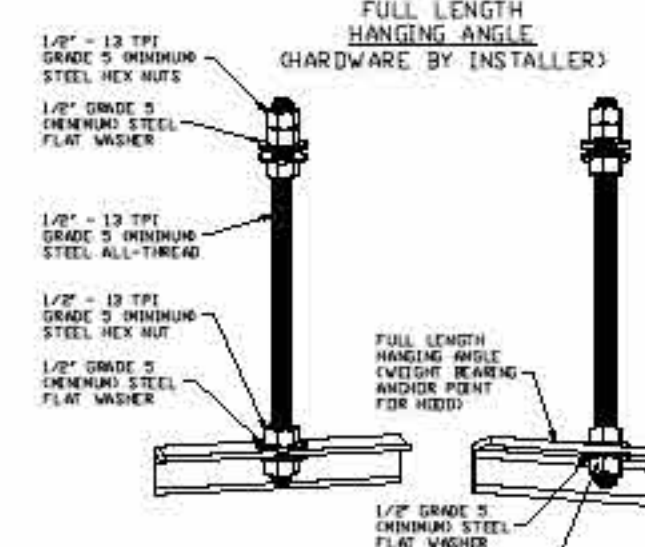
ASSEMBLY INSTRUCTIONS

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. 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.



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.



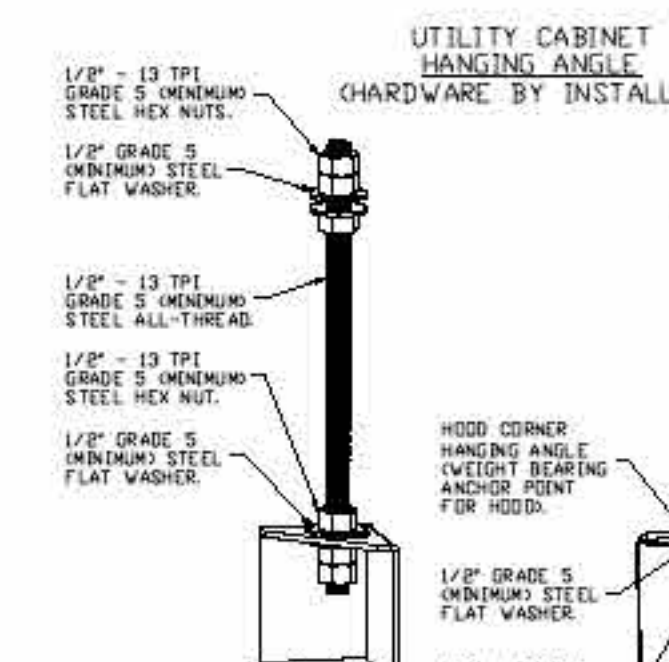
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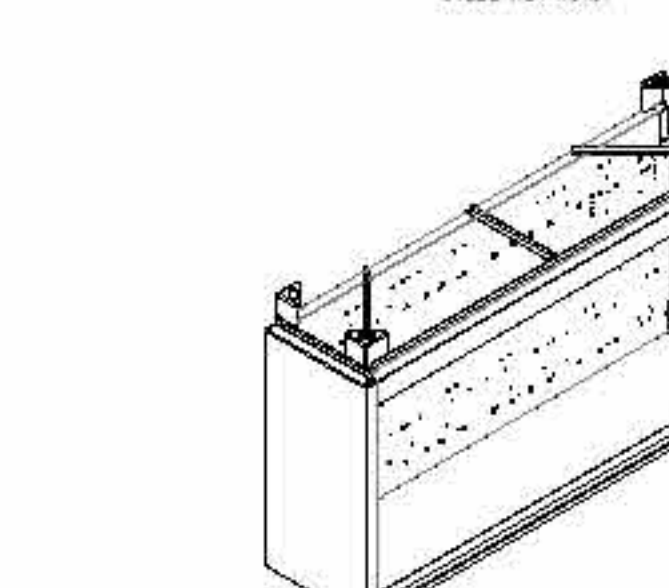
WALL-MOUNT UTILITY CABINET ASSEMBLY INSTRUCTIONS

CABINET TO BE HUNG BY OTHERS. SEE UTILITY CABINET SCHEDULE FOR CABINET SIZE.

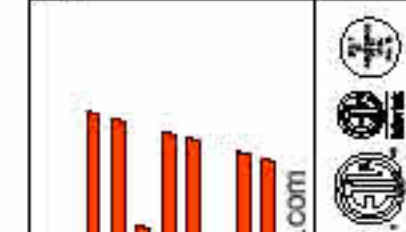
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ASSEMBLY INSTRUCTIONS



REVISIONS	DESCRIPTION	DATE
1		
2		
3		
4		



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INDIANA MECHANICAL
CaptiveAire

RI Washington Township Fire Station 145 - Avon IN
AVON, IN, 46123

DATE: 9/18/2025

DWG.#:
8239576

DRAWN BY: brett payn

SCALE:
3/4" = 1'-0"

MASTER DRAWING

SHEET NO.
1