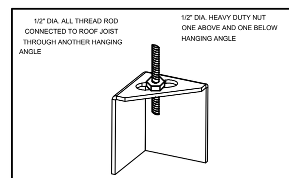


* ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR HANGING ANGLE IS PRE-PUNCHED AT FACTORY

HANGING ANGLE DETAILS

HOOD STYLE / MODEL	450 DEGREES cfm/ft.	600 DEGREES cfm/ft.	700 DEGREES cfm/ft.
CANOPY ND2	150	200	250
WITH END PANELS (15% reduction)	127.5	170	212.5
SLOPED SND-2	228	294	-
ISLAND ND-2WI	269	300	350
NDI	346	422	475

ETL HOOD LISTING DETAIL

EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)

SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED

TOTAL DUCT AREA=144 X CFM / FPM(*)

DUCT LENGTH= TOTAL DUCT AREA / DUCT DEPTH

*CAPTIVE-AIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1500-1800 FPM AND A SUPPLY VELOCITY OF 1000 FPM.

CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

#3054804-001 & #3054804-002 STANDARD 710 Intertek BUILT IN ACCORDANCE WITH NFPA No. 96

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

INSTALLATION

1. ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTORS.
2. ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS.
3. HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS. ALL OTHER HANGER MATERIALS PROVIDED BY INSTALLING CONTRACTORS.
4. ALL CONNECTIONS FROM CAPTIVE-AIRE DUCT PER MECHANICAL CONTRACTORS'S PLANS.
5. COOKING EQUIPMENT TO SHUTOFF IN EVENT OF FIRE.
6. EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
7. ALL LIGHTS FIXTURE SHOWN INSTALLED BY CAPTIVE-AIRE ARE FACTORY PREWIRED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES BY ELECTRICAL CONTRACTORS.
8. LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS.
9. SEISMIC RESTAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
10. INSTALLING CONTRACTORS ASSUME ALL RELATED REPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY, INTEGRATION, AND ADMINISTRATION OF CODE REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.

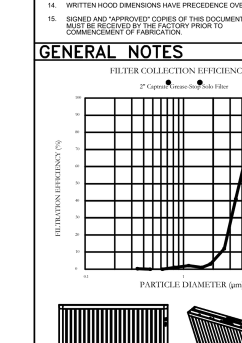
BALANCE

11. KITCHEN HOODS MUST BE BALANCED WITH KITCHEN.
12. KITCHEN SHALL BE NEGATIVE WITH RESPECT TO DINING AREA.
13. RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.

ADDITIONAL

14. WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE.
15. SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED BY THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.

GENERAL NOTES



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

FILTER DETAIL

HOOD INFORMATION – Job#4435420

HOOD NO	TAG	MODEL	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/ft	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1	KH-Left	5424 ND-2	10' 11"	600 Deg	I	Heavy	200	2183			4"	16"	2183	1563	-0.924"	430 SS Where Exposed	LEFT	ALONE
2	KH-Left	5424 ND-2	10' 11"	600 Deg	I	Heavy	200	2183			4"	16"	2183	1563	-0.924"	430 SS Where Exposed	RIGHT	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	KH-Left	Captrate Solo Filter	8	16"	16"	85% See Filter Spec	3	Recessed	NO	Wall Mnt	12"x48"x24"	Ansul R102	3.0/3.0	DCV-1111	1 Light 1 Fan	YES	484 LBS
2	KH-Left	Captrate Solo Filter	8	16"	16"	85% See Filter Spec	3	Recessed	NO							YES	484 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	KH-Left	FIELD WRAPPER 18.00" High Front, Left
		BACKSPLASH 80.00" High X 264.00" Long 430 SS Vertical
		LEFT SIDESPLASH 80.00" High X 54.00" Long 430 SS Vertical
		LEFT END STANDOFF (FINISHED) 1" Wide 54" Long Insulated
		RISER SENSOR INSTALL 3IN DBL
		LEFT WALL AS END PANEL
2	KH-Left	FIELD WRAPPER 18.00" High Front, Right
		RIGHT SIDESPLASH 80.00" High X 54.00" Long 430 SS Vertical
		RIGHT END STANDOFF (FINISHED) 1" Wide 54" Long Insulated
		RISER SENSOR INSTALL 3IN DBL
		RIGHT WALL AS END PANEL

System Design Verification (SDV)

If ordered, CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual. Typically, the SDV will be performed after all inspections are complete.

Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.

During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.

Fire System Information – Job#4435420

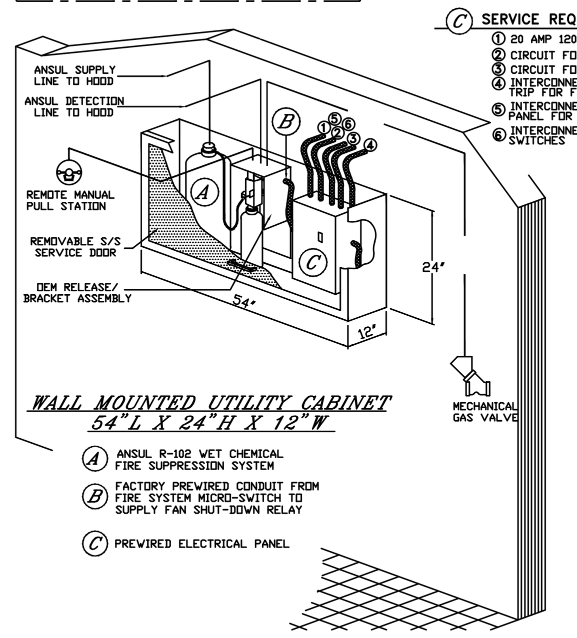
FIRE SYSTEM NO	Tag	TYPE	SIZE	FLOW POINTS	INSTALLATION SYSTEM	LOCATION ON HOOD
1		Ansul R102	3.0/3.0	6	Wall Utility Cabinet Left	N/A

UTILITY CABINET SHOULD BE MOUNTED FLUSH WITH THE FINISHED CEILING

LIGHT AND FAN SWITCHES WILL BE LOCATED PER PLAN AND SPEC

(C) SERVICE REQUIREMENTS FOR CONTROL PANEL

1. 20 AMP 120/1 CIRCUIT FOR HOOD LIGHTS, CONTROLS & FIRE SYSTEM
2. CIRCUIT FOR EXHAUST FANS
3. CIRCUIT FOR SUPPLY FANS
4. INTERCONNECTION FROM PREWIRE CONTROL TO ELECTRICAL SHUNT TRIP FOR FUEL SHUTDOWN UPON ACTIVATION OF FIRE SYSTEM
5. INTERCONNECTION FROM PREWIRE CONTROL TO BUILDING ALARM PANEL FOR ANNUNCATION UPON ACTIVATION OF FIRE SYSTEM
6. INTERCONNECTION FROM PREWIRE CONTROL TO FAN & LIGHT SWITCHES



SPECIFICATIONS

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/ LINKAGE ASSEMBLY.

WALL MOUNTED UTILITY CABINET
54"L X 24"H X 12"W

(A) ANSUL R-102 WET CHEMICAL FIRE SUPPRESSION SYSTEM

(B) FACTORY PREWIRED CONDUIT FROM FIRE SYSTEM MICRO-SWITCH TO SUPPLY FAN SHUT-DOWN RELAY

(C) PREWIRED ELECTRICAL PANEL

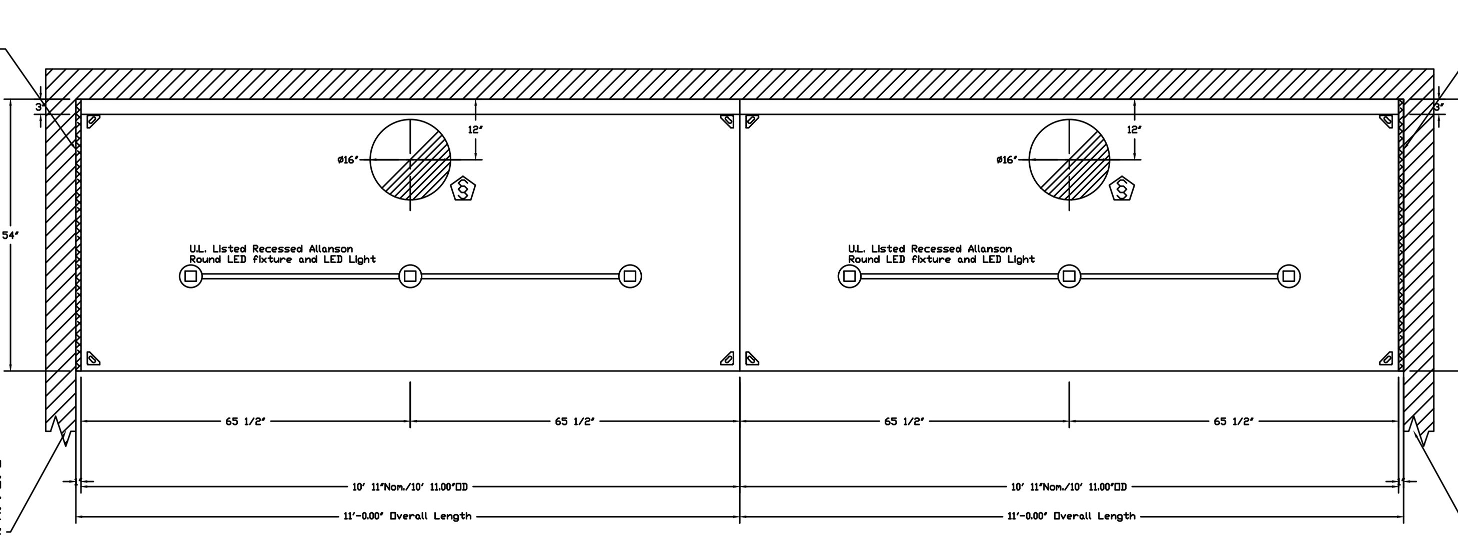
REVISIONS — DESCRIPTION | DATE:

CAPTIVEAIRE www.captiveaire.com
Atlanta Mechanical
1395 S. Marietta Pkwy, Bldg 100, Ste 105, Marietta, GA, 30067 PHONE: (470) 419-4768 EMAIL: stuart.scott@captiveaire.com

Assisted living kitchen hood - Sandy Springs,Ga
ATLANTA, GA, 30303

DATE: 7/14/2020
DWG.#: 4435420
DRAWN BY: stuart.sco
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1

1" LAYER OF INSULATION FACTORY INSTALLED IN 1.00" END STANDOFF MEETS 0" REQUIREMENTS CLEARANCE TO COMBUSTIBLE SURFACES.



INSTALLER MUST CONFIRM HOOD IS INSTALLED SUCH THAT THE SPECIFIED WALL, ACTING AS AN END PANEL, IS MATED TIGHT TO THE CORRECT END OF HOOD TO ACHIEVE A REDUCED MINIMUM EXHAUST CFM LISTING. NON-COMPLIANCE WILL NULLIFY THE ETL LISTING, VOID THE MANUFACTURER'S WARRANTY, AND HOLD THE CONTRACTOR LIABLE FOR ANY AND ALL LOSSES, COSTS, AND EXPENSES RELATED TO THE NON-CONFORMANCE OF THE MANUFACTURER'S SPECIFIED INSTRUCTION. THE WALL ACTING AS AN END PANEL MUST EXTEND NO LESS THAN 20" FROM THE INTERSECTING WALL ON WHICH HOOD IS MOUNTED AND MUST EXTEND NO LESS THAN 20" UNDER BOTTOM OF HOOD TO BE ELIGIBLE FOR REDUCED MINIMUM EXHAUST CFM LISTING.

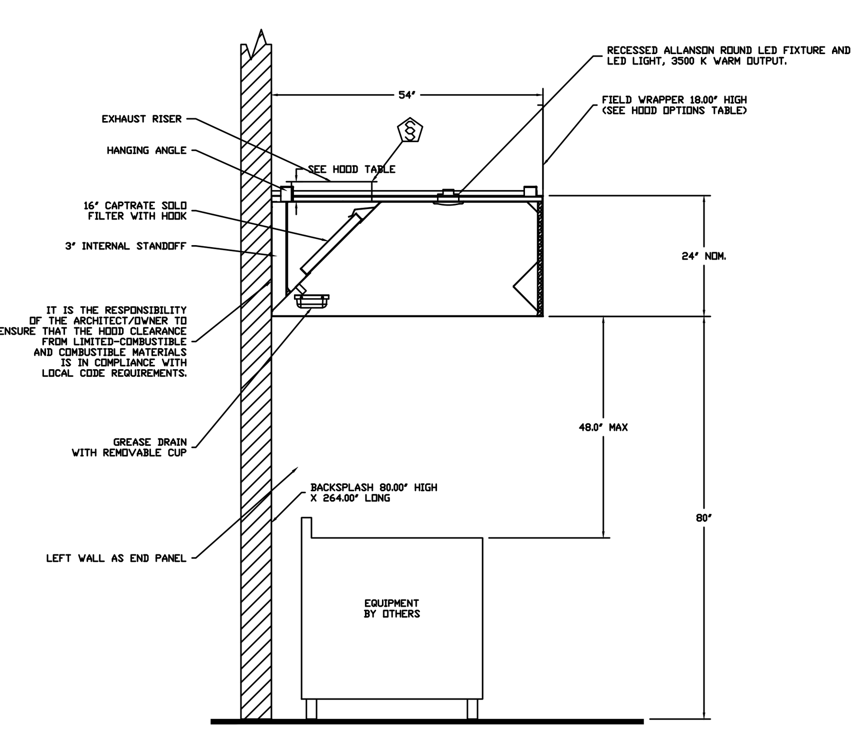
PLAN VIEW – Hood #1 (KH-Left)
10' 11.00" LONG 5424ND-2

PLAN VIEW – Hood #2 (KH-Left)
10' 11.00" LONG 5424ND-2

1" LAYER OF INSULATION FACTORY INSTALLED IN 1.00" END STANDOFF MEETS 0" REQUIREMENTS CLEARANCE TO COMBUSTIBLE SURFACES.

INSTALLER MUST CONFIRM HOOD IS INSTALLED SUCH THAT THE SPECIFIED WALL, ACTING AS AN END PANEL, IS MATED TIGHT TO THE CORRECT END OF HOOD TO ACHIEVE A REDUCED MINIMUM EXHAUST CFM LISTING. NON-COMPLIANCE WILL NULLIFY THE ETL LISTING, VOID THE MANUFACTURER'S WARRANTY, AND HOLD THE CONTRACTOR LIABLE FOR ANY AND ALL LOSSES, COSTS, AND EXPENSES RELATED TO THE NON-CONFORMANCE OF THE MANUFACTURER'S SPECIFIED INSTRUCTION. THE WALL ACTING AS AN END PANEL MUST EXTEND NO LESS THAN 20" FROM THE INTERSECTING WALL ON WHICH HOOD IS MOUNTED AND MUST EXTEND NO LESS THAN 20" UNDER BOTTOM OF HOOD TO BE ELIGIBLE FOR REDUCED MINIMUM EXHAUST CFM LISTING.

NOTE
IT IS RECOMMENDED NOT TO INSTALL HIGH VELOCITY DIFFUSERS OR HVAC RETURNS WITHIN TEN (10) FEET OF THE HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.



SECTION VIEW – MODEL 5424ND-2
HOOD – #1 (KH-Left)

ELECTRICIAN NOTES :

All Hood/Fan/EMS/UDS/PCU electrical connections and interconnections to be provided and installed by Electrician. Electrician to provide, install, and land wiring between hood lights, hood temp sensors, remote Ansul system microswitches, and any other component requiring an electrical connection to the Captive-Aire electrical package. Failure by the Electrician to make ALL required electrical connections and interconnections will result in the electrical controls not working properly. Any loss or failed test as a result of electrical controls not working properly is the responsibility of the Electrician.
Light bulbs for kitchen hoods to be provided and installed by electrician.

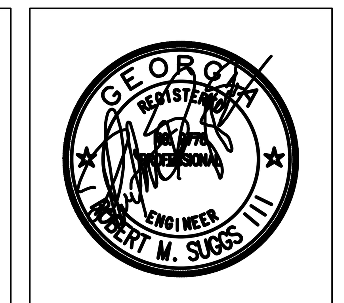
REVISIONS — DESCRIPTION | DATE:

CAPTIVEAIRE www.captiveaire.com
Atlanta Mechanical
1395 S. Marietta Pkwy, Bldg 100, Ste 105, Marietta, GA, 30067 PHONE: (470) 419-4768 EMAIL: stuart.scott@captiveaire.com

Assisted living kitchen hood - Sandy Springs,Ga
ATLANTA, GA, 30303

DATE: 7/14/2020
DWG.#: 4435420
DRAWN BY: stuart.sco
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 2

RELEASED FOR CONSTRUCTION



RM3 Engineering
RM3 ENGINEERING

2302 Brockett Road
Tucker, Georgia
30084
-
770 934 0944
770 934 0945

KITCHEN HOOD SPECIFICATIONS

ASSITED LIVING FACILITY
ROSWELL
ROSELL RD
SANDY SPRINGS, GEORGIA

NO.	REVISIONS

DATE: 10/4/2021

PROJECT No. 3E20-044

SHEET NO.

M8