# Solid Rock United Methodist Church - 2297 North Carolina 24

### **GENERAL NOTES:**

INSTALLATION PER IFC-2018, NFPA 96, 17A, AND UL 300 STANDARDS AND PER MANUFACTURERS' INSTRUCTIONS/RECOMMENDATIONS DESIGN BASED ON SECTION IV OF BUCKEYE INSTALLATION MANUAL

ALL PIPE AND FITTINGS ARE 3/8" SCHEDULE 40 BLACK IRON & CHROME PIPING CONFIGURATIONS & LIMITATIONS ARE TOO LENGTHY TO LIST PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS SEE CHAPTER 4 - DISTRIBUTION PIPING REQUIREMENTS

ACTUATION & EXPELLENT HOSES, PIPING OR TUBING SHALL BE INSTALLED IN ACCORDANCE WITH CHAPTER 5: "INSTALLING THE ACTUATION & EXPELLANT GAS LINES"

DETECTION LINE LIMITATIONS SHALL BE INSTALLED IN ACCORDANCE WITH BUCKEYE'S TECHNICAL MANUAL CHAPTER 4 - SYSTEM DESIGN SCISSOR STYLE DETECTORS SHALL BE USED WITHOUT OFF-SET CONDUIT. MAXIMUM # OF DETECTORS IS 15. MAXIMUM NUMBER OF CORNER PULLEYS IS 20 WITH A MAXIMUM OF 150' OF 1/2" FMT FUSIBLE LINK INSTALLATION SHALL CONFORM TO MANUFACTURER'S INSTRUCTIONS APPLIANCES WITH A CONTINUOUS COOKING SURFACE UP TO 48" X 48" SHALL BE PROTECTED WITH A SINGLE DETECTOR APPLIANCES EXCEEDING 48" X 48" SHALL BE PROTECTED BY MULTIPLE DETECTORS

REMOTE MANUAL PULL STATION(S) SHALL BE INSTALLED ON A PATH OF EGRESS OR EXIT AND IN ACCORDANCE WITH BUCKEYE TECHNICAL MANUAL CHAPTER 4 - SYSTEM DESIGN MAXIMUM NUMBER OF 20 CORNER PULLEYS, 150 FEET OF 1/2" EMT AND (1) TEE PULLEY

MECHANICAL GAS VALVE CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH CODE REQUIREMENTS & CHAPTER 4 - SYSTEM DESIGN OF THE Buckeye MANUAL A MAXIMUM OF 20 CORNER PULLEYS, 150 FEET OF 1/2" EMT AND (1) TEE PULLEY

ELECTRIC GAS VALVES SHALL BE CONNECTED USING A RESET RELAY RESET RELAY & ELECTRICAL PORTION OF VALVE INSTALLATION SHALL BE BY A QUALIFIED ELECTRICIAN CONFORMANCE WITH NFPA #70 IS THE RESPONSIBILTY OF THE INSTALLING CONTRACTOR NOT AAFP

CONNECTION TO FIRE ALARM CONTROL PANEL TO BE MADE BY OTHERS WHEN APPLICABLE ELECTRICAL DISCONNECTS TO BE PERFORMED BY QUALIFIED ELECTRICIAN, WHEN APPLICABLE GAS VALVE TO BE INSTALLED BY A QUALIFIED PLUMBER WHEN APPLICABLE CONFORMANCE TO APPLICABLE NFPA CODES FOR ALARM, ELECTRICAL & PLUMBING WORK IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR & IS NOT THE RESPONSIBILITY OF AAFP

CONDITION AND ACCEPTABILITY OF THE EXHAUST HOOD & DUCT IS THE RESPONSIBILITY OF THE OWNER/OPERATOR

APPLIANCES SHOWN ON PLANS ARE REPRESENTATIONAL ONLY - ACTUAL APPLIANCES MAY APPEAR DIFFERENT THAN SHOWN ON PLANS

#### **GENERAL SEQUENCE OF OPERATION - NOT PROJECT SPECIFIC**

UPON ACTIVATION OF A FUSIBLE LINK OR REMOTE MANUAL PULL STATION A BUCKEYE WET CHEMICAL FIRE SYSTEM MAY RESULT IN THE FOLLOWING SEQUENCE OF OPERATION:

WET CHEMICAL SHALL DISCHARGE ONTO PROTECTED APPLIANCES &INTO DUCT & PLENUM AREAS OF HOOD SIMULTANEOUSLY, IF CONNECTED, A FIRE ALARM SYSTEM SHALL BE ACTIVATED OR A HORN/STROBE SHALL ACTIVATE (PRECISE OPERATIONS OF FIRE ALARM SYSTEM / CONTROL PANEL ARE NOT THE RESPONSIBILTY OF THE SUPPRESSION SYSTEM CONTRACTOR AND ARE NOT LISTED ON THESE PLANS)

SIMULTANEOUSLY, ALL GAS APPLIANCES LOCATED UNDER THE HOOD SHALL SHUTDOWN VIA MECHANICAL OR ELECTRICAL GAS VALVE

SIMULTANEOUSLY, ALL ELECTRICAL EQUIPMENT, PROTECTED OR UNPROTECTED, UNDER THE HOOD SHALL SHUTDOWN

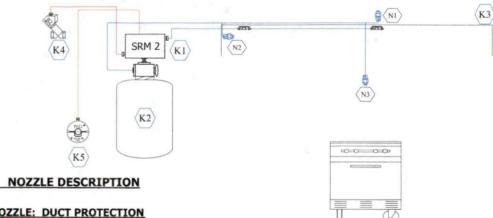
SIMULTANEOUSLY, HOOD LIGHTS, AS PERMITTED BY CODE MAY REMAIN ON OR MAY SHUTDOWN

SIMULTANEOULSY, INTERNAL MAKE-UP AIR SHALL SHUTDOWN

SIMULTANEOULSY, EXTERNAL MAKE-UP AIR MAY REMAIN ON OR MAY SHUTDOWN

SIMULTANEOUSLY, EXHAUST FAN MAY OR MAY NOT CONTINUE TO OPERATE

(IF THE EXHAUST FAN IS OFF AT THE TIME OF DISCHARGE, THE FAN MAY OR MAY NOT TURN ON)



# N-2W NOZZLE: DUCT PROTECTION

NOZZLE ID: N-2W FLOW POINTS: 2 MAXIMUM PERIMETER: 100" MAXIMUM DIAMETER: 16"

LOCATION: CENTERED W/IN PERIMETER HEIGHT: 2" TO 8" ABOVE DUCT COLLAR

## N-1HP NOZZLE: PLENUM PROTECTION

NOZZLE ID: N-1HP FLOW POINTS: 1 LOCATION: 2 TO 4 IN. FROM FILTER FACE & CENTERED BETWEEN FILTER HEIGHT NOZZLE AIM: HORIZONTAL DOWN LENGTH POSITIONED: 0 TO 6 IN, FROM END OF HOOD

TO THE TIP OF THE NOZZLE.

## N-2LP NOZZLE: RANGE

NOZZLE ID: N-2LP

LOCATION: CENTER OF HAZARD OR 11 3/8" MAX FROM NOZZLE TO CENTER OF ANY BURNER GRATE

HEIGHT: 30" TO 40"

MAX, COVERAGE: 36" X 24"

# APPLIANCE DESCRIPTION



SIX BURNER RANGE

# I.D. DESCRIPTION

NEW SRM2 CONTROL HEAD CONTAINS (1) CARTRIDGE,

(1) SET OF MICROSWITCHES

CYLINDER #1 - BFR-10 TANK 10 FLOW POINTS AVAIL, 5 USED

HOOD #1: NEW TYPE I EXHAUST HOOD: 8"-0" X 78" K3 W/ A SINGLE BANK OF BAFFLED FILTERS CONTAINS (1) EXHAUST DUCTS: 16" ROUND

K4 NEW MECHANICAL GAS VALVE LOCATED ABOVE THE CEILING

NEW REMOTE MANUAL PULL STATION LOCATED 48" A.F.F. ON PATH OF EGRESS OR EXIT



NI

N3

# FOR QUESTIONS, CALL THE Sales & Service REGION 23

PHONE: (919) 573-1522 EMAIL: Info@ventilationdirect.com

HOO	D INF	ORMATION	- JOB#4931432																		
наар	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING	TYPE	APPLIANCE	DESIGN	TOTAL				UST P	LENUM S)			TOTAL	НООО	END TO	CONFIG	
NO	Ind	MUDEL	MANOTACTORER	PINIOT HOTOKEK	CENGTH	TEMP	1112	DUTY	CFM/FT	EXH CFM	WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	CFM	CONSTRUCTION	END	ROW
1		5424 VX-2-PSP-F	VENTILATION DIRECT	8' 0"	600 DEG	I	HEAVY	275	2200			4"	16'	2200	1576	-0.524*	1760	430 SS WHERE EXPOSED	ALONE	ALONE	

HOOD	INF	ORMATION		FILTER	/2\		_	LIGHT(S)					UTILITY CABINET(S)			_	
НООО	TAG	200.000	1			EFFICIENCY @ 7			WIRE				RE SYSTEM	ELECTRICAL	SWITCHES	FIRE	HOOD
NO	TAG	TYPE	QTY	HEIGHT	LENGTH	MICRONS	QTY	TYPE	GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	PIPING	WEIGHT
1		SS BAFFLE WITH HANDLES	5	16"	16"	30%	3	L55 SERIES E26	NO						Well-was beginning	ND	425 LBS

HOOD	OP1	IONS									
HODD	TAG						OPTION				
,		BACKS	PLASH	80.00"	HIGH	X	96.00*	LONG	430	22	VERTICAL.
1	San Callery	RISER	SENSOR	INSTALL	. 3IN	DBL.					

PERF	ORAT	ED SU	PPLY .	PLEN	JM(S)						
HOOD				STH WIDTH HEIGHT TYPE WIDTH LE		RISER(S)					
NO	TAG	POS	LENGTH		HEIGHT	TYPE	WIDTH	LENG	DIA	CFM	SP
						MUA	12"	24"		586	0.155*
1		Front	96*	18"	6'	MUA	12"	24"		586	0.155*
_						MUA	12"	24"		586	0.155*





JOB8' Hood		
LOCATION Spring La	ke, NC,	
DATE 6/10/2021	JOB #	4931432
DWG # 1	DRAWN E	BY .
REV	SCALE 3	/8" = 1'-0"

GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO VENTILATION DIRECT MODEL "VDW"
ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "VDW"
IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING
CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "VDW"
DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER
THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER.
PER MANUFACTURES LISTING MODEL "VDW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE
SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12".
DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE
ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO VENTILATION DIRECT MODEL "VDW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

VENTILATION DIRECT RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

# **HVAC DISTRIBUTION NOTE**

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD, PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY	CEIL	ING I	HEIG	HΤ

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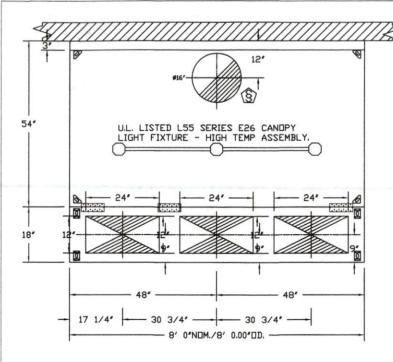
HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

APPE	ROVED AS NOTED	
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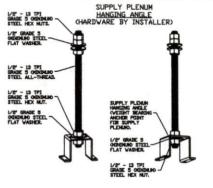


AC-PSP (UNITED STATES) - US PATENT 7963830 B2. AC-PSP WALL (CANADA) - CA PATENT 2820509. AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

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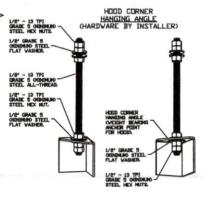


# PLAN VIEW - HOOD #1 8' 0.00" LONG 5424VX-2-PSP-F



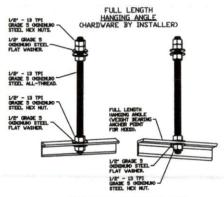
## ASSEMBLY INSTRUCTIONS

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.



## ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDVICH HANGING GRADE 5 (MINIMUM) ALL-THREAD, SANDVICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 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.



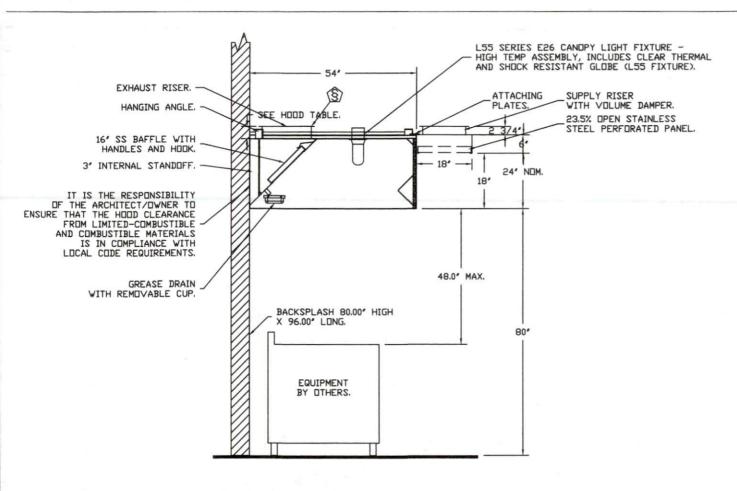
### ASSEMBLY INSTRUCTIONS

(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.



Ventilation Direct

1	JOB8' Hood		
1	LOCATION Spring Lake,	NC,	
•	DATE 6/10/2021	JOB #	4931432
•	DWG # 3	DRAWN E	ay .
1	PFV	SCALE 3	/8' = 1'-0"



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





T	JOB8' Hood		
	LOCATION Spring Lake	, NC,	V KE 425
1	DATE 6/10/2021	JOB #	4931432
	DWG # 4	DRAWN I	BY
1	REV.	SCALE 3	3/8' = 1'-0'

	UST	FAN	INFORMATION - JOB#49	31432												
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	VEIGHT (LBS)	SONES
1		1	VXD85	VENTILATION DIRECT	2200	0.750	1413	ODP	0.750	0.5030	1	115	9.8	696 FPM	98	15.2

1760 0.500 915 TEAD-ECM 1.000 0.5750 1

	FAN	INFO	RMATION - JOB#493143	2											
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOVER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA

FAN			
UNIT ND	TAG	QTY	DESCRIPTION
		1	GREASE BOX.
		1	2 YEAR PARTS WARRANTY.
2		1	ECM WIRING PACKAGE-SUPPLY - PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CWROTATION.
COEN		1	2 YEAR PARTS WARRANTY.

FAN	745		EXHAUST		SUPF	PLY	
UNIT	TAG	GREASE CUP	GRAVITY DAMPER	SIDE DISCHARGE		MOTORIZED DAMPER	WALL
1		YES					

NO	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	36 LBS	CURB	23.000'W X 23.000'L X 20.000'H ALDING LENGTH, RIGHT VENTED HINGED.
5	# 2	29 LBS	CURB	21.000°W X 21.000°L X 20.000°H ALDNG LENGTH, RIGHT.
3		29 LBS	EXHAUST ADAPTER	FROM 31.000'SQ TO 26.500'SQ X 9.000'H.



WEIGHT (LBS)

197

SONES

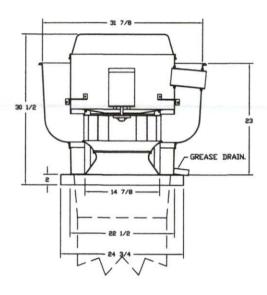
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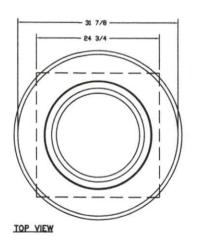
MOCP

25A

115 11.6 15.6A

## FAN #1 VXD85 - EXHAUST FAN





#### FEATURES:

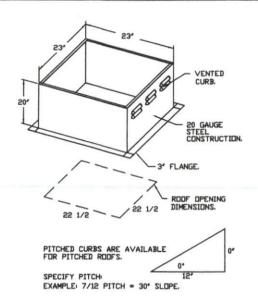
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT HODEL.
- UL705 AND UL762 AND ULC-\$645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL DVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST ECHALIST FAM MUST OPERATE CONTINUOUSLY VHILE EXHAUSTING AIR AT 300F (149°C) UNTIL ALL FAN PARTS HAVE REACHED UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND VITHOUT ANY DETERIORATING EFFECTS TO THE FAN VHICH VOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST DPERATE CONTINUOUSLY
WHILE EXHAUSTING BURNING GREASE VAPORS
AT 600°F CBLOCO FOR A PERIOD OF
15 HINUTES VITHOUT THE FAN BECOHING
DAMAGED TO ANY EXTENT THAT COULD CAUSE
AN UNSAFE CONDITION.

## **DPTIONS**

GREASE BOX. 2 YEAR PARTS WARRANTY.



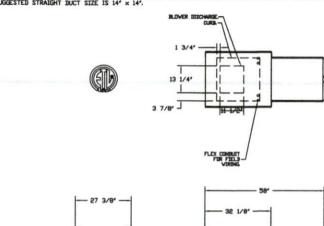


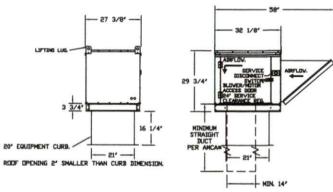


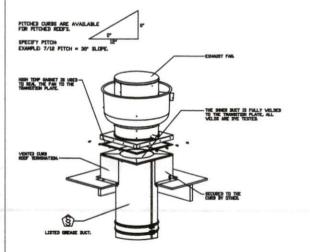


FAN #8 VAI-GIOD - SUPPLY FAN
1. DIRECT DRIVE UNTEMPERED SUPPLY UNIT WITH 10' BLOVER IN SIZE #1 HOUSING WITH SPEED CONTROL, DISCONNECT SWITCH.
2. DIMTAK HOUD WITH EZ FILTERS-LDV CFM.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. ECM WIRING PACKAGE FOR SUPPLY MOTORS WITH PVM SIGNAL FROM ECPMG3 PREVIRE.
5. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY CBURNER/BLOVER SECTION).

WHOTE SUPPLY DUCT MUST BE INSTALLED TO MEET SMACHA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS DUTLINED IN ANCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTVORK, ELBOYS MUST BE RABIUS THROAT, RADIUS BACK VITH TURING VAMES, FLEXIBLE DUCTVORK AND SQUARE THROAT/SQUARE BACK ELBOYS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTVORK VILL CAUSE SYSTEM EFFECT SYSTEM EFFECT VILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOY. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTVORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT, SUGGESTED STRAIGHT DUCT SIZE IS 14" × 14".







GREASE DUCT & CHIMNEY SPECIFICATIONS: PROVIDE GREASE DUCT EQUAL TO VENTILATION DIRECT MODEL "VDW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL 'VDW' IS LISTED TO UL-1978 AND IS INSTALLED USING 'V' CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "VDW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE. PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER, PER MANUFACTURES LISTING MODEL "VDW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16' PER 12', HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16' PER 12'.

DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS. IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 DR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO VENTILATION DIRECT MODEL 'VDW- 2R, 2R TYPE HT, 3R, OR 3Z' ROUND 20 GAUGE

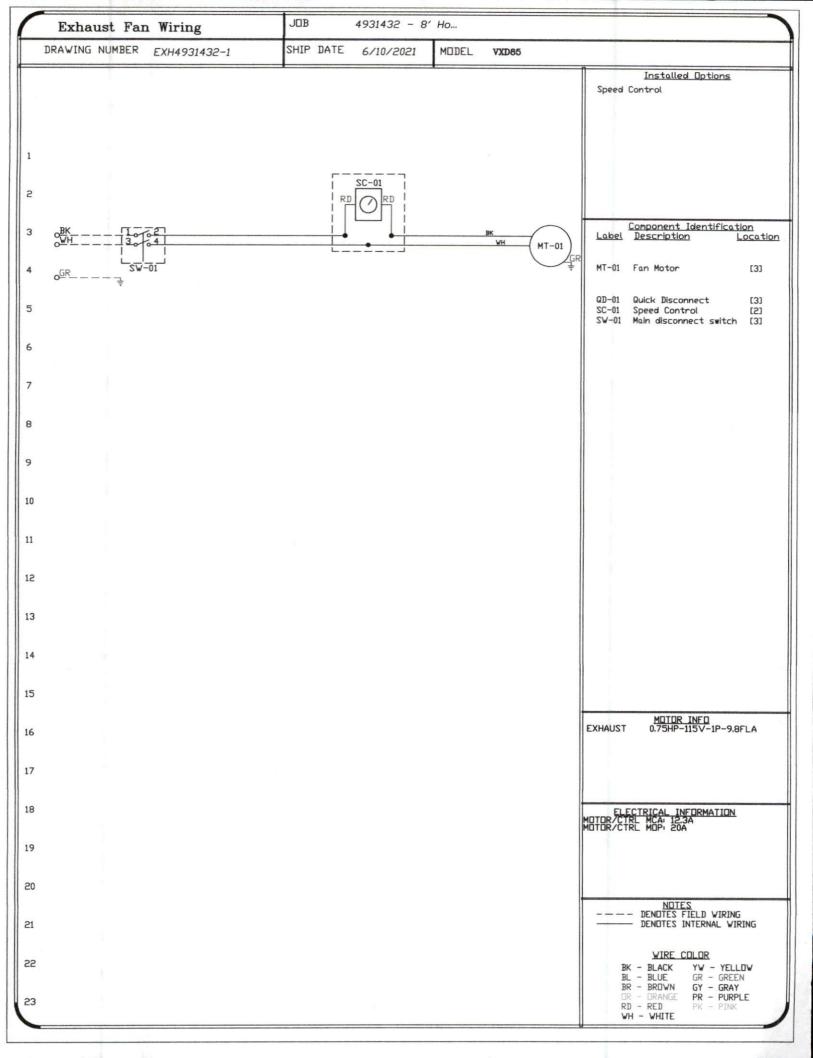
430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS DUTER SHELL.

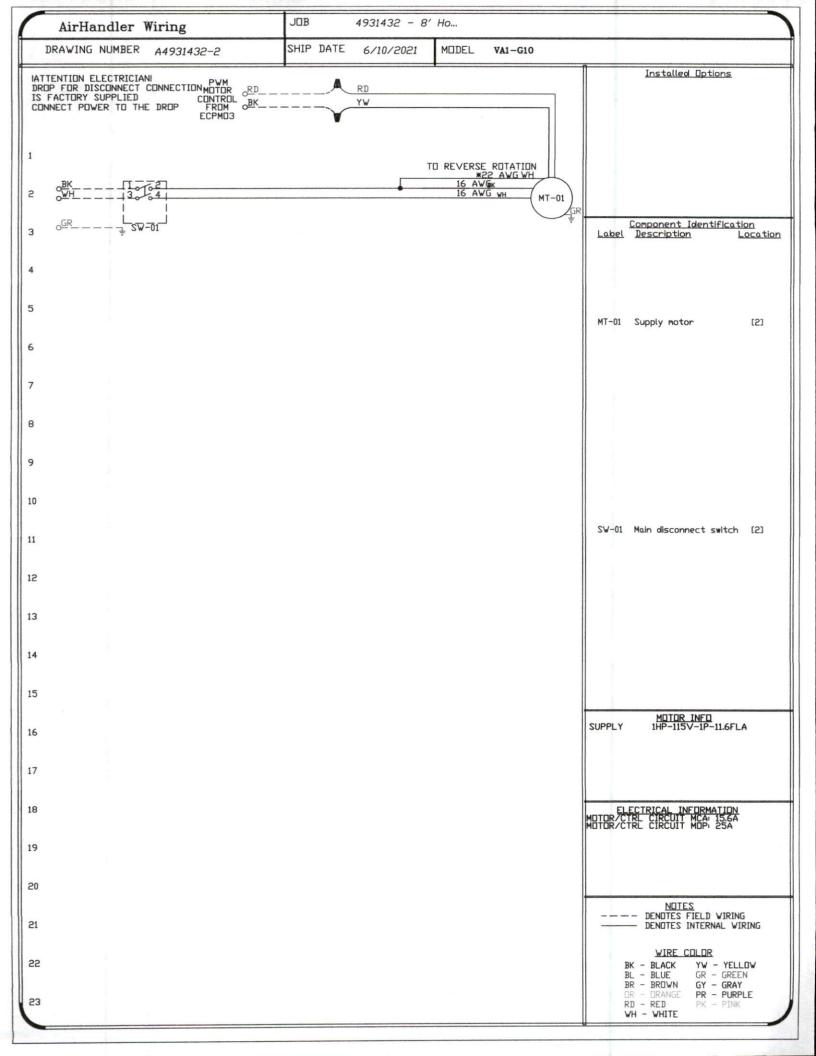
CUSTOMER APPROVAL T	O MANUFACTURE:
APPROVED AS NOTED	
APPROVED WITH NO EXCEPTION TAKEN	
REVISE AND RESUBNIT	
SIGNATURE	
YOUR TITLE DATE	



Ventilation Direct

JOB8' Hood			
LOCATION Spring Lake	, NC,		
DATE 6/10/2021	JOB # 4931432		
DWG # 7	DRAWN BY		
REV.	SCALE 1/4" = 1'-0		





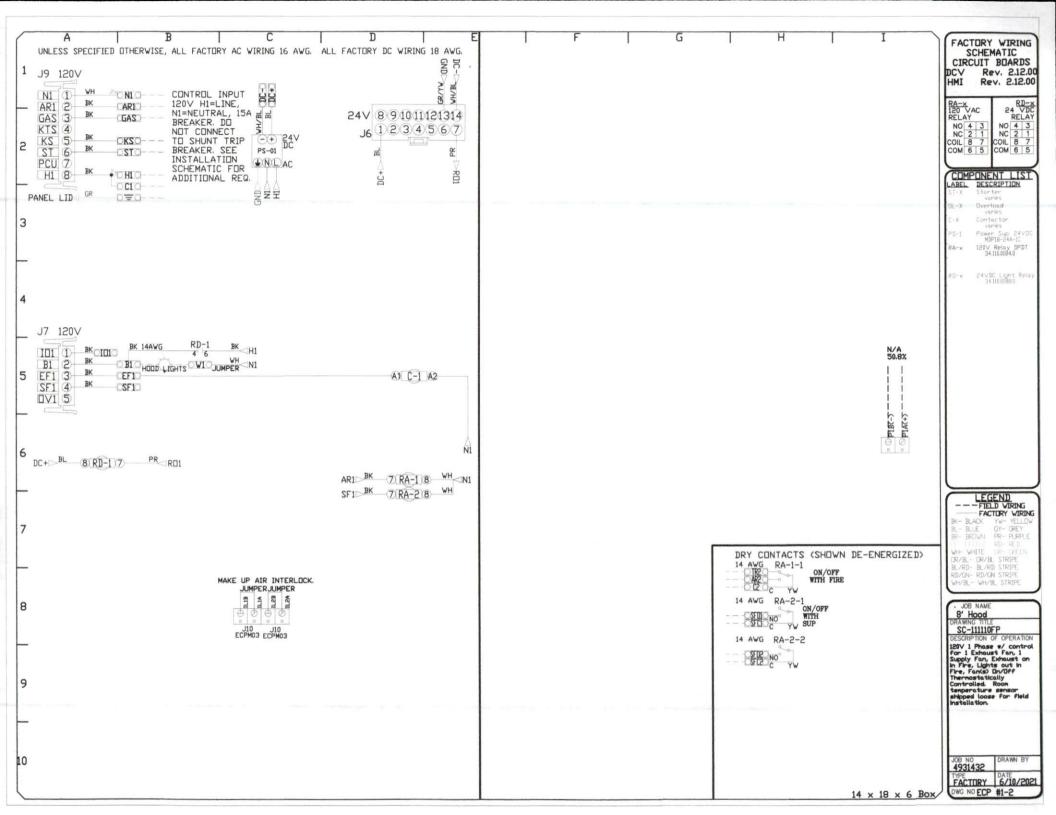
ELE	TAG	PACKAGE #	- JOB#4931432	SWITCH	HES	OPTION	FAN	FANS CONTROLLED				
1	ING	PHONHUE W	CUCHTUN	LOCATION	QUANTITY	ur riun	TYPE	ф	HP	VOLT	FLA	
		00 WW0FD	WALL MOUNT IN SS BOX	05 - SS WALL	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL	EXHAUST	1	0.750	115	9.8	
1		SC-111110FP		MOUNT BOX	1 FAN	SHAKI CUNTRULS THERMUSTATIC CUNTRUL	SUPPLY	1	1.000	115	11.6	





ļ	70B 8 H000					
	LOCATION Spring Lak	e, NC,				
	DATE 6/10/2021	JOB # 4931432				
•	DWG # 10	DRAWN BY				
1	REV.	SCALE 3/8' = 1'-0'				

JOB	NO 10	-04.400	MODEL NUMBER SC-111110F	P	DRAWN BY	SCHEMATIC TYPE INSTALL	DESCRIPTION OF OPERATION		t in Fine, Fonds) Dn/Des
	49	31432	JOB NAME 8' Hood		DATE 6/10/2021	DWG NO ECP #1-1	Thermostatically Controlled Room temperature	sensor shipped loose for field installatk	m.
1									
BREA		PANEL TO PRIMARY Responsibility: Elec R SIZE SHOWN IS THE N	PRIMARY CONTROL PANEL  Hot Neutral Ground	SUPPLY FAN INTERLOCK CO	IST HAVE ITS DWN NDUIT. WIRE TO PR NDUIT. WIRD TO PR T REQUIRED FOR ALE MAKE-UP AIR SCI	WETAL OVIDED	SYSTEM DRY CONTACT	CDMMON  NORMALLY DPEN  NORMALLY DPEN  SPARE CONTACTS VILL MAKE C2 TO AR2 VHEN SYSTEM IS ARMED, THEY ARE USED TO DISABLE EQUIPMENT OR PROVIDE SIGNALS. (NOT FOR BUILDING FIRE ALARM VHICH MUST BE VIRED DIRECTLY TO THE ANSUL ALARM INITIATING SWITCH LOCATED IN ANSUL AUTOMAN)	BMS SWITCH
6		TO GFCI OR SHUNT TRI BREAKER. 1ST HOOD LIGHT BREAKER SHARE CONTROL POWER, SWITCH #1		CONTROL PANI	EL TO ACCES		CONTROL PANEL HI OTO IUI OFENAL SVITCH	SIGNAL SWITCH THROUGH BMS WILL ACTIVATE ZONE1 FANS AND LIGHTS	
_ MCA	AKER 1PH 115 V 12.2 A Pi 20 A	EXH-1	Hot L1 Neutral FN1 Ground GND	CONTROL PANEL  CONTROL PANEL  TO  FIRE SYSTEM ARI  VIRE	CL TO COMMON (1).	MICROSVI	NENT TCH 1 NO 8PF		
BREA	KER PANEL	BREAKER PANEL TE Responsibility: Elec		C1 T	ARI TO NORMALLY C D ARI SHOULD HAVE TINUITY WHEN ARMED.	MS-1 4: 1:C 2: MS-2 4:	NC SPE		
2 MCA	AKER 1PH 115V 14.5A Pi 25A	SUP-2	NEUTRAL POWER TO Ground ECM FANS	14	SWITCHES FACTORY V 5 CONNECTION	WIRED HOOD LIG	нте і		
5	PRIMARY PA	CONTROL PANEL TO Responsibility: Elec		CONTROL PANEL B1 W1 HDDD LIGHTS GND WIRE	E TO J-BOX ON TOP	BLACK WHITE GREEN			
6 Loc	d Wiring C-1 E DIRECT STARTER	T1 C LEG 2 / NEUTRAL	FAN: 01 EXH-1	KITCHEN TEMP SENS SENSOR SOUR	TO CONTROL BOARD. FOR IN ROOM AWAY FF PICES. DO NOT INSTALL THE CEILING GRID, SE	ROM HEAT SENSOR			
	PWM ED SIGNAL	FEED STP THROUGH II COOLING TUBE. ALLOW ENDUGH SLACK ON ST PROPER HINGING. (CXX NOTE: PWM SIGNAL IS	FOR NIDEC MOTOR BK TO GR HAUST DNLY) TELCO MOTOR	DUCT SENSOR SENS	TO CONTROL BOARD. OR MOUNTED IN EXHA	SUST DUCT RISE	D 1 R 1		
0 c	ONTROL NEL TO	SENSITIVE. SHIPLIFOR PATED PAIR PIB PAGES - 1 TO THE PAIR PIB PAGES - 1 TO THE PAIR	SUP-2 ECM-01 FAN: 02	CONTROL PANEL STO- SIGNAL FOR NI O- EXTERNAL ST	MAY DR MAY NOT BUIRED BASED ON SPECIFICATION  HOT TO SH  NEUTRAL FROM SH  TERMINAL IS ENERGIFIER CONDITION.	SHUNT COIL SHUNT COIL STILL ST	~		
3				EXTERNAL KS	HOT_TO_CONTAC EUTRAL_TO_CONTAC TERMINAL IS DE-EN FIRE CONDITION.	TOR_COIL			



В Α G FACTORY WIRING MOTOR POWER CIRCUITS, SEE INSTALLATION DIAGRAM FOR FIELD WIRING REQUIREMENTS. SCHEMATIC CIRCUIT BUARDS DCV Rev. 2.10.00 HMI Rev. 2.10.00 14 AWG C-1 L1 T1 L2 T2 L3 T3 13 14 MTR:EXH-1 CONT:100-K12D10 FLA:9.8 HP:0.750 1 PH LI BK 115 V FN1 RA-X 120 VAC RELAY NO 4 3 NC 2 1 COIL 8 7 COM 6 5 24 VDC RELAY COMPONENT LIST
LABEL DESCRIPTION
ST-X Starter
varies
C-X Contactor
varies
SM-X VFB
vories LR-X Line/Load Reactor varies LEGEND ---FIELD VIRING FACTORY WIRING BK- BLACK YW- YELLOW BL- BLUE GY- GREY BR- BROWN PR- PURPLE BR- BROWN PR- PURPLE THE LEVEL RID RCD WH- WHITE CR- GREEN DR/BL- DR/BL STRIPE BL/RD BL/RD STRIPE RD/ON- RD/ON STRIPE WH/BL- WH/BL STRIPE JOB NAME

8' Hood
DRAWING TITLE
SC-111110FP
DESCRIPTION OF OPERATION
120V1 Phase w/ control
for 1 Exhaust Fan, 1
Supply Fan, Exhaust on
h Fire, Lights out in
Fire, Lights out in
Fire, Lights out in
Fire the state of the state DRAWN BY 4931432 FACTORY DATE 6/10/2021 DWG NO ECP #1-3 14 x 18 x 6 Box/

# DUCTWORK #1 PARTS - JOB#4931432

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELDCITY	QTY	DESCRIPTION
P1	VDV1647LT	2200				-0.0153	24.89	1575.63	1	SINGLE WALL DUCT 16' DIAMETER, 47' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P2	VDW1647LT	2200				-0.0153	24.89	1575.63	1	SINGLE WALL DUCT 16' DIAMETER, 47' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P3	VDW1629LT	2200				-0.0095	15.68	1575.63	1	SINGLE WALL DUCT 16' DIAMETER, 29' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P4 ASSEMBLED W/P5	VDW1630AJDKIT	2200				-0.0069	20.06	1575.63		SINGLE WALL DUCT ADJUSTABLE, 16' DIAMETER, 29.5' LONG, FLANGE AT ONE END WITH A 16' ADJUSTABLE COLLAR - STAINLESS STEEL.
P5 ASSEMBLED W/P4	VDW2316TP	2200					8.03	1575.63	1	DUCT TO CURB TRANSITION, 23' CURB TO 16' DUCT, 16 GA ALUMINIZED. USED ON BDU15, DU75 & 85.
SYSTEM AT P5						-0.571	0.00			
	V3M-2000PLUS						0.80		2	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	VDV16CLASY						1.18		4	DUCT "V" CLAMP WITH NEW DESIGN 14 GA BRACKETS, 16" DUCT, ASSEMBLY.
TOTAL WEIGHT							99.87			

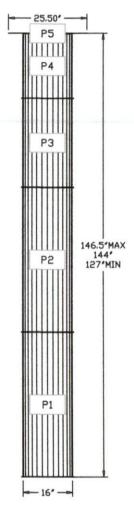
#### SINGLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- DUCTYORK SHALL SLOPE NOT LESS THAN 1/16' PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16' PER LINEAR FOOT.

DUCT DIAMETER	HORIZONTAL SUPPORT (FT)	VERTICAL VALL SUPPORT (FT)	VERTICAL CURB SUPPORT (FT		
5'	10'	10'	24'		
6'	10'	10'	24'		
7*	10'	10'	24'		
8*	10'	10'	24'		
10"	10'	10'	24'		
12"	10'	10'	24'		
14"	10'	10'	24'		
16"	10'	10'	24'		
18*	10'	10'	24'		
50,	10'	10'	24'		
55,	10'	10'	24'		
24"	10'	10'	24'		
26"	10'	10'	24'		
28*	10'	10'	24'		
30*	10'	10'	24'		
32*	10'	10'	24'		
34*	10'	10'	24'		
36*	10'	10'	24'		

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES, CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

DI	JCT	WORK	#1	FRONT	VIEW
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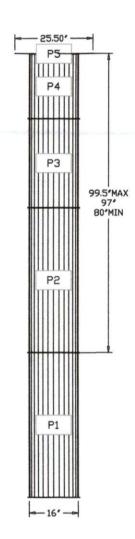




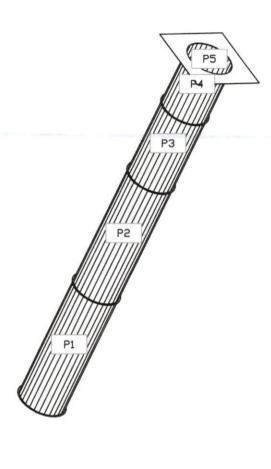


REV.

SCALE 3/8' = 1'-0'









Ventilation Direct

 JOB8' Hood

 LOCATION Spring Lake, NC,

 DATE
 6/10/2021

 JOB #
 4931432

DWG # 15 DRAWN BY

REV. SCALE 3/8' = 1'-0'