FOR QUESTIONS, CALL THE Sales & Service REGION 23 PHONE: (919) 573-1522

EMAIL: info@ventilationdirect.com

	HOOD	INFORMATION	- JOB#4931432	?
--	------	-------------	---------------	---

HOOD	TAG	MODEL	LENGTH	MAX COOKING	TYPE		DESIGN	TOTAL			F	RISERC	LENUM S)			TOTAL SUPPLY	наар	HOOD (
ND	IAG	MUDEL	MANUFACTURER	LENGIH	TEMP	TIPE	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	5500			4"	16"	2200	1576	-0.524*	1760	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

			FILTER(S)						LIGHT(S)		UTILITY CABINET(S)							HOOD
HOOD	' TA	رد IT					EFFICIENCY € 7			WIRE			FI	RE SYSTEM	ELECTRICAL	SWITCHES	FIRE	HANGING
NO	"	•	TYPE	QTY	HEIGHT	LENGTH	MICRONS	QTY	TYPE	GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #			WEIGHT
1			SS BAFFLE WITH HANDLES	5	16*	16"	30%	3	L55 SERIES E26	NO							NO	425 LBS

HOOD OPTIONS

HOOD	TAG					OPTION			
_ .		BACKSPLASH	80.00"	HIGH	Х	96.00"	LONG	430 SS	VERTICAL.
1 1		RISER SENSOR	INSTALL	. 3IN	DBL.				

PERFORATED SUPPLY PLENUM(S)

1 15111	OIMI	ED DO.												
ноор					, ,		RISER(S)							
NO HOOD	TAG	POS	LENGTH	WIDTH	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*			



Notes: 1. Equipment and hood must be interlocked so equipment will not operate unless exhaust fan is operational. 2. Hood may not be installed adjacent to wood studs/drywall. Provide metal stud framing covered with drywall at hood and at least 18 inches beyond.





<i>JOB</i> 8′ Hood	
LOCATION Spring Lake	, NC,
<i>DATE</i> 6/10/2021	<i>JOB #</i> 4931432
DWG # 1	DRAWN BY
REV.	SCALE 3/8" = 1'-0"

<u>(§)</u>

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.

___' - ___"

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

APPROVED AS NOTED

APPROVED WITH NO EXCEPTION TAKEN

REVISE AND RESUBMIT

SIGNATURE

YOUR TITLE

DATE



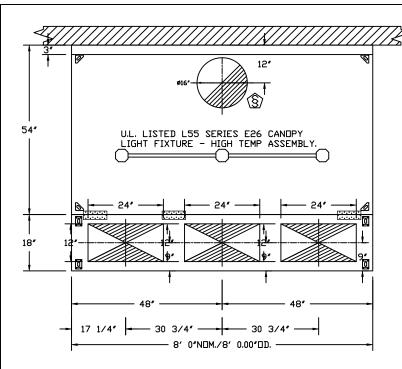


<i>J0B</i> 8' Hood		
LOCATION Spring Lake	, NC,	
<i>DATE</i> 6/10/2021	JOB # 493143	32
DWG # 2	DRAWN BY	
REV.	SCALE 3/8" = 1'	-0 "

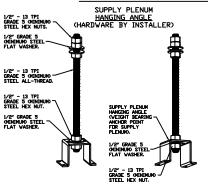
PATENT NUMBERS

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

AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

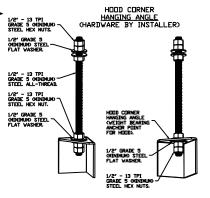


<u>PLAN VIEW - HOOD #1</u> <u>8' 0.00" LONG 5424VX-2-PSP-F</u>



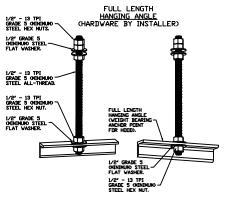
ASSEMBLY INSTRUCTIONS

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 HANGING ANGLE MUST BE SUPPORTED WITH 1/2' - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING 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
DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING
DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

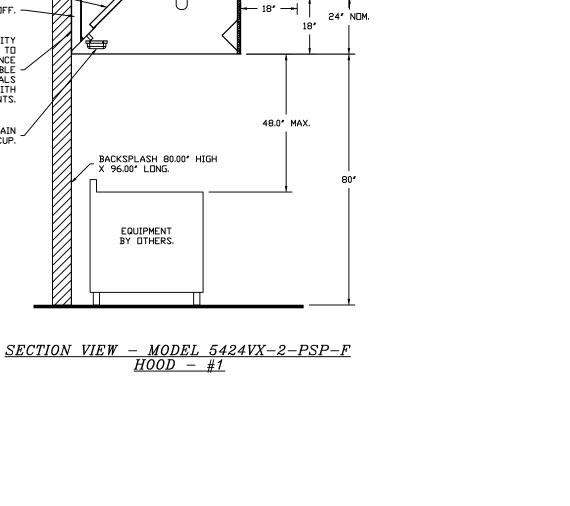


ASSEMBLY INSTRUCTIONS

ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 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.







ACCOMMACE VITH MP No. 96

Ventilation Direct

L55 SERIES E26 CANDPY LIGHT FIXTURE -HIGH TEMP ASSEMBLY, INCLUDES CLEAR THERMAL AND SHOCK RESISTANT GLOBE (L55 FIXTURE).

SUPPLY RISER

WITH VOLUME DAMPER.

23.5% OPEN STAINLESS STEEL PERFORATED PANEL.

J0B 8' Hood

DWG # 4

REV.

DATE 6/10/2021

LOCATION Spring Lake, NC,

JOB #

DRAWN BY

 $SCALE \ 3/8" = 1'-0"$

4931432

ATTACHING

PLATES.

EXHAUST RISER. -

HANGING ANGLE.

GREASE DRAIN _ WITH REMOVABLE CUP.

16" SS BAFFLE WITH HANDLES AND HOOK.

3" INTERNAL STANDOFF.

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.

SEE HOOD TABLE.

EXHA	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	WEIGHT (LBS)
1		1	∨x D 85	VENTILATION DIRECT	2200	0.750	1413	□DP	0.750	0.5030	1	115	9.8	696 FPM	98

MUA FAN INFORMATION - JOB#4931432

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2		1	∨A1-G10	G10D	A1	ı	1760	0.500	915	TEAD-ECM	1.000	0.5750	1	115	11.6	15.6A	25A	197	20

FAN	OPTIC	SNS	
FAN UNIT NO	TAG	QTY	DESCRIPTION
		1	GREASE BOX.
1 '		1	2 YEAR PARTS WARRANTY.
2			ECM WIRING PACKAGE-SUPPLY - PWM SIGNAL FROM ECPMO3 PREWIRE (TELCO MOTOR), CW ROTATION.
		1	2 YEAR PARTS WARRANTY.

FAN ACCESSORIES

FAN UNIT	TAG		EXHAUST	SUPPLY					
ND		GREASE CUP	GRAVITY DAMPER	SIDE DISCHARGE		MOTORIZED DAMPER	WALL MOUNT		
1		YES							

<i>CURB ASSEMBL</i>

	NO	ON FAN	WEIGHT	ITEM	SIZE
	1	# 1	36 LB2	CURB	23.000°W X 23.000°L X 20.000°H ALDNG LENGTH, RIGHT VENTED HINGED.
ſ	2	# 2	29 LBS	CURB	21.000'W X 21.000'L X 20.000'H ALDNG LENGTH, RIGHT.
Γ	3		29 LBS	EXHAUST ADAPTER	FROM 31.000'SQ TO 26.500'SQ X 9.000'H.



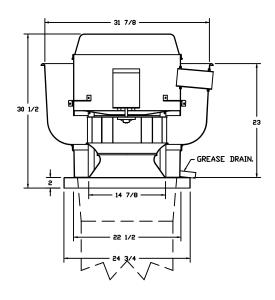


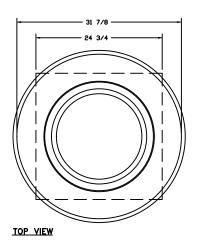
SONES

15.2

<i>J0B</i> 8′ Hood	
LOCATION Spring Lake,	, NC,
<i>DATE</i> 6/10/2021	<i>JOB #</i> 4931432
<i>DWG</i> # 5	DRAWN BY
REV.	SCALE 3/8" = 1'-0"

FAN #1 VXD85 - EXHAUST FAN





FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST EXHAUST FAN MUST OPERATE CONTINUOUSLY

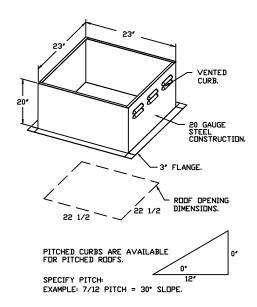
EXHAUST FAN MUST DPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND VITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH VOULD CAUSE UNSAFE DPERATION.

ABNORMAL FLARE-UP TEST

EXHAUST FAN MUST DPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600° C.016°C) FOR A PERIOD DF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

<u>OPTIONS</u>

GREASE BOX. 2 YEAR PARTS WARRANTY.









<i>J0B</i> 8' Hood		
LOCATION Spring Lake,	NC,	
<i>DATE</i> 6/10/2021	JOB #	4931432
<i>DWG #</i> 6	DRAWN	BY
REV.	SCALE	3/8" = 1'-0"

FAN #2 VAI-GIOD - SUPPLY FAN

1. DIRECT DRIVE UNTEMPERED SUPPLY UNIT WITH 10° BLOWER IN SIZE #1 HOUSING WITH SPEED CONTROL, DISCONNECT SWITCH.

2. INTAKE HODD WITH EZ FILTERS-LOW CFM.

3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.

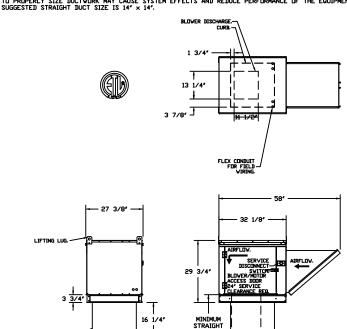
4. ECM WIRING PACKAGE FOR SUPPLY MOTINS WITH PWM SIGNAL FROM ECPMO3 PREWIRE.

5. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).

6. 2 YEAR PARTS WARRANITY.

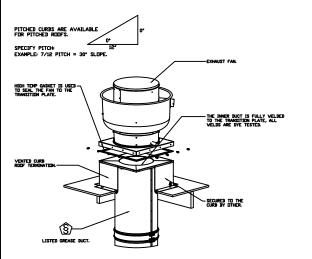
20' EQUIPMENT CURB.

WINDTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DDVNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THRRIAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SOUARE HIRDAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK VILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT VILL PRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.



DUCT

MTN. 144



– 21**′** –

ROOF OPENING 2' SMALLER THAN CURB DIMENSION.



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.

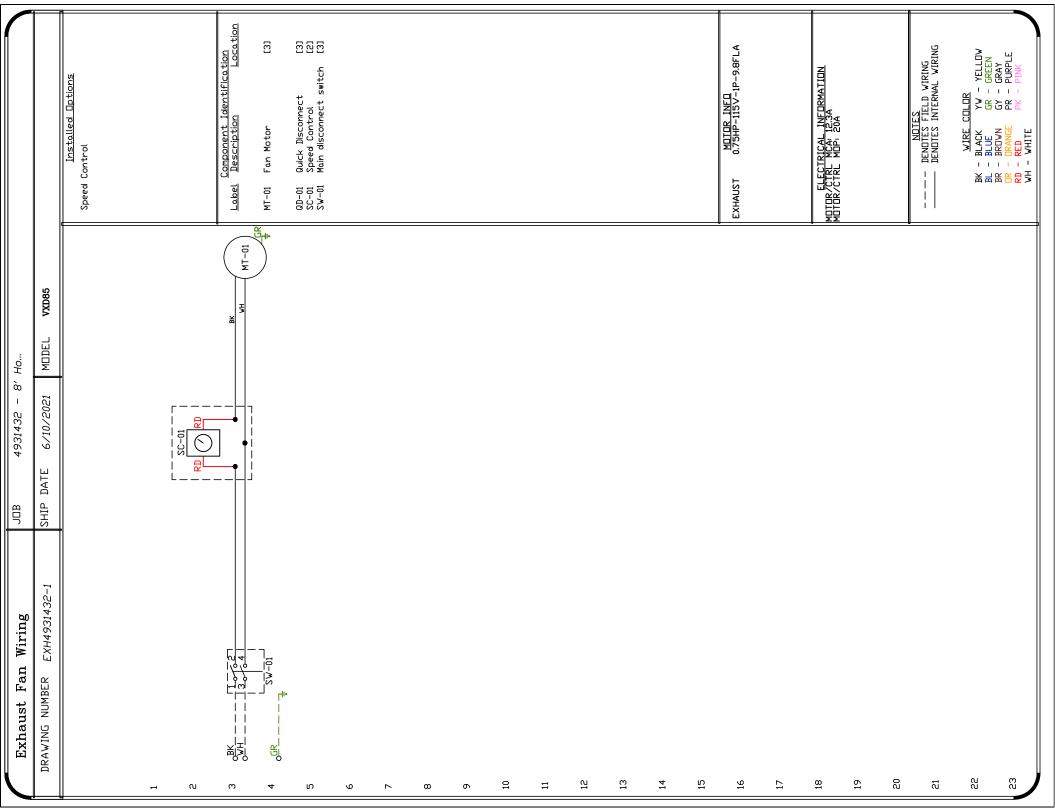
IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 DR UL-103 HT LISTED DOUBLE WALL GREASE DUCT DR DOUBLE WALL CHIMNEY EQUAL TO VENTILATION DIRECT MODEL "VDW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS DUTER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

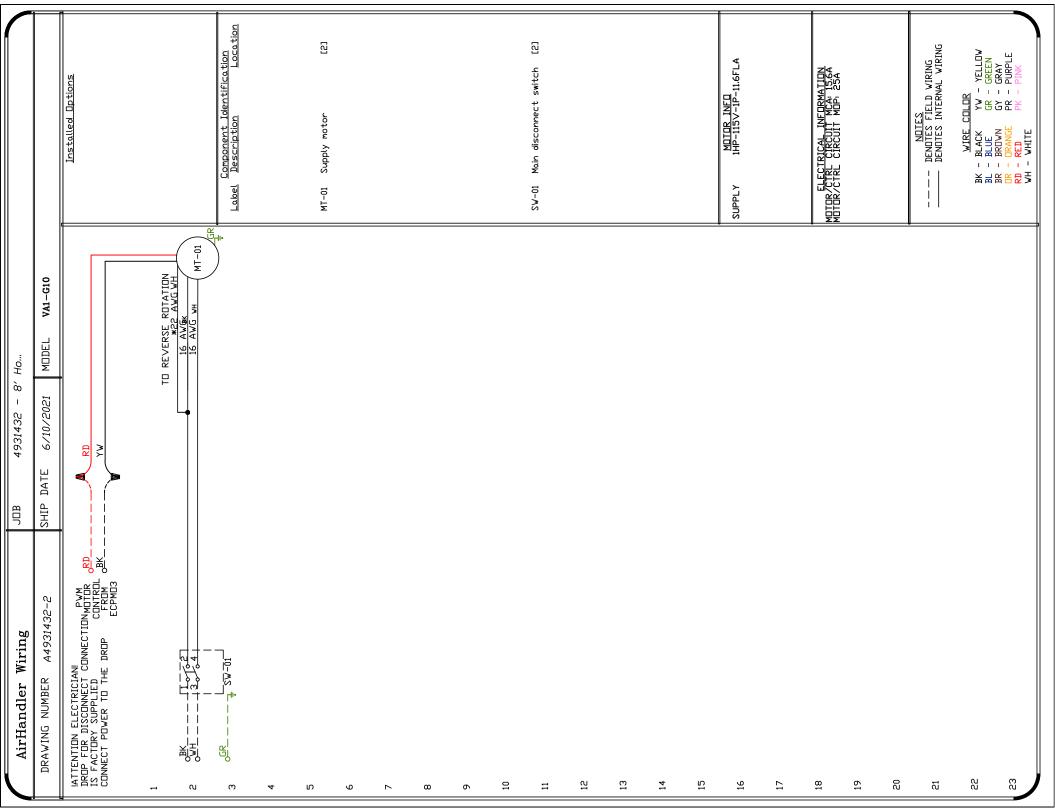
CUSTOMER APPROVAL TO	MANUFACTURE:
APPROVED AS NOTED APPROVED WITH NO EXCEPTION TAKEN REMISE AND RESUBINIT	_ _ _
SIGNATURE	





<i>J0B</i> 8' Hood	
LOCATION Spring Lake,	NC,
<i>DATE</i> 6/10/2021	<i>JOB #</i> 4931432
DWG # 7	DRAWN BY
REV.	SCALE 1/4" = 1'-0"



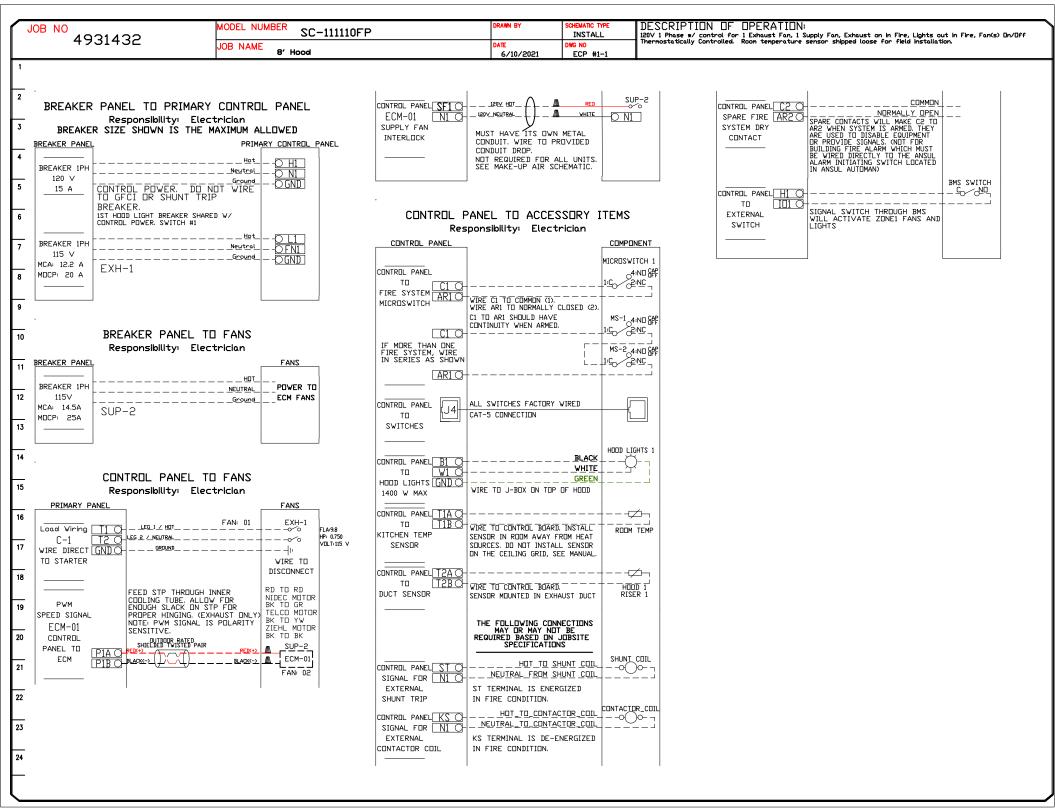


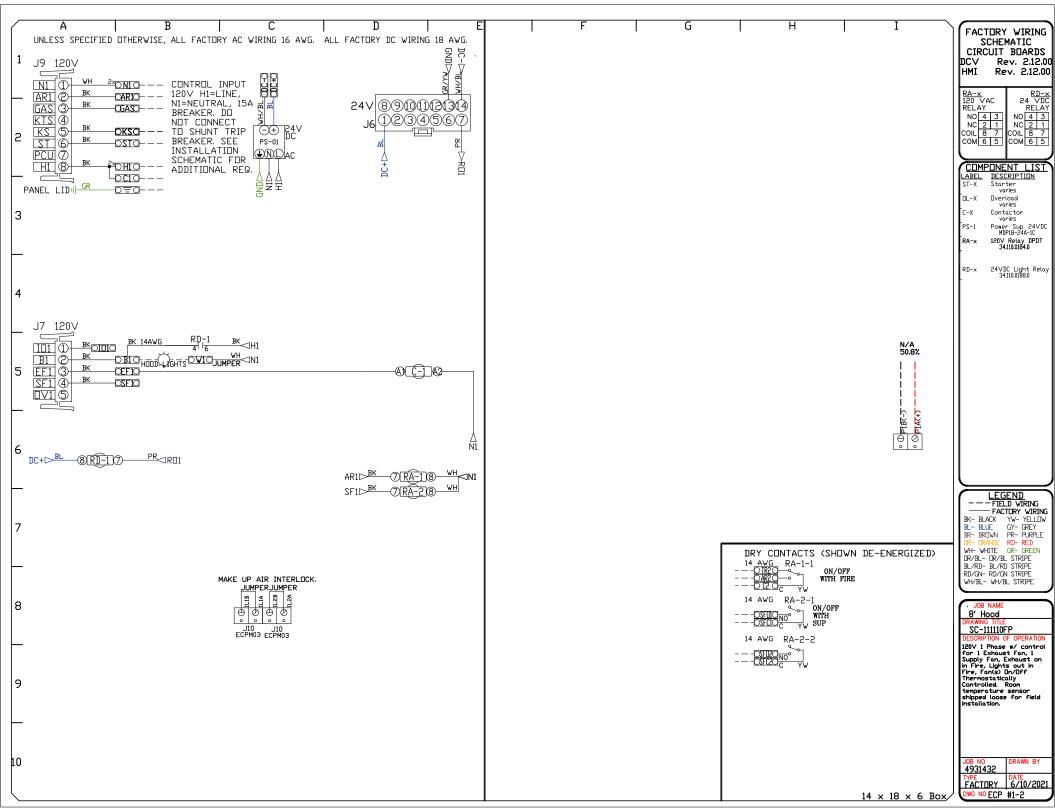
E	LE	CTRICAL	PACKAGE	- JOB#4931432								
,	vo l	TAG	PACKAGE #	LUCATION SWITCHES		OPTION	FANS CONTROLLED					
L				LOCATION	QUANTITY		TYPE	ф	HP	VOLT	FLA	
Γ	, [·	SC-111110FP	WALL MOUNT IN SS BOX	05 - SS WALL	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL	EXHAUST	1	0.750	115	9.8
	*		SC-IIIII0FP	MHEE MITON! IN 22 BITY	MOUNT BOX	1 FAN	SMAKI CUNIKULS INEKMUSIATIC CUNIKUL	SUPPLY	1	1.000	115	11.6

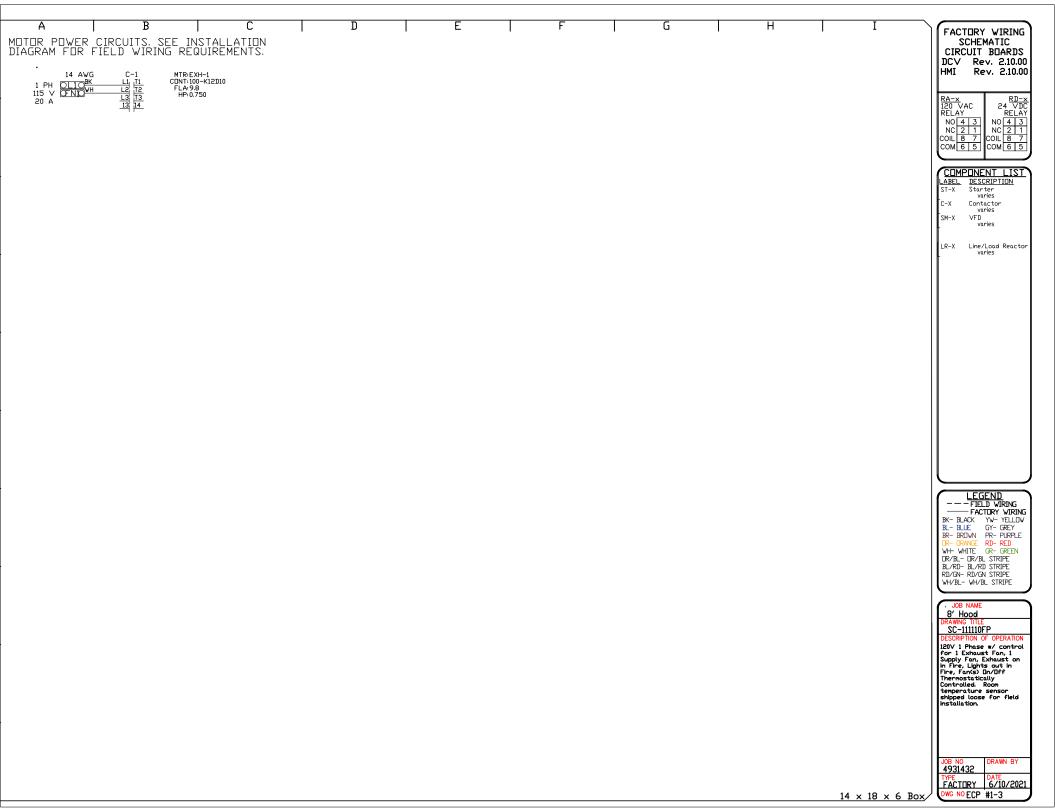




<i>JOB</i> 8' Hood	
LOCATION Spring Lake,	NC,
<i>DATE</i> 6/10/2021	<i>JOB #</i> 4931432
<i>DWG #</i> 10	DRAWN BY
REV.	SCALE 3/8" = 1'-0"







DUCTWORK #1 PARTS - JOB#4931432

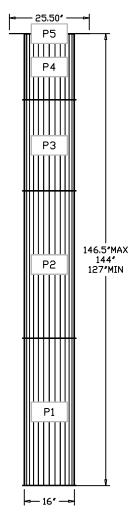
TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	VDW1647LT	2200				-0.0153	24.89	1575.63	1	SINGLE WALL DUCT 16' DIAMETER, 47' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P2	∨DW1647LT	2200				-0.0153	24.89	1575.63	1	SINGLE WALL DUCT 16' DIAMETER, 47' LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P3	∨DW1629LT	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	1	SINGLE WALL DUCT ADJUSTABLE, 16' DIAMETER, 29.5' LONG, FLANGE AT ONE END WITH A 16' ADJUSTABLE COLLAR - STAINLESS STEEL.
P5 ASSEMBLED W/P4	∨DW2316TP	2200					8.03	1575.63		DUCT TO CURB TRANSITION, 23' CURB TO 16' DUCT, 16 GA ALUMINIZED. USED ON BDU15, DU75 & 85.
SYSTEM AT P5						-0.571	0.00			
	∨3M-2000PLUS						0.80		2	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	VDW16CLASY						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.
- DUCTWORK 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 WALL 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′
20*	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'

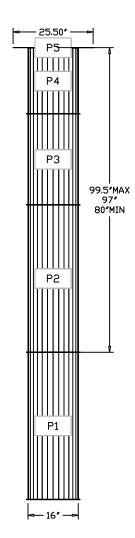
DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES, CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.



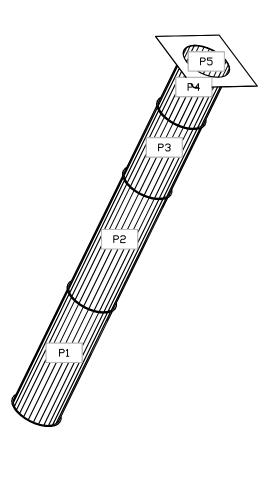
DUCTWORK #1 FRONT VIEW















<i>JOB</i> 8' Hood		
LOCATION Spring Lake,	, NC,	
<i>DATE</i> 6/10/2021	JOB #	4931432
<i>DWG</i> # 15	DRAWN	BY
REV.	SCALE	3/8" = 1'-0"