

HOOD INFORMATION - Job#3741775

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)					MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG.		
						WIDTH	LENG.	HEIGHT	DIA.	CFM				VEL.	S.P.	END TO END
1		5430 ND-2-ACPSP-F	12' 0"	600 Deg.	2700		4'	16'	2700	1934	-1.008"	2160	650	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

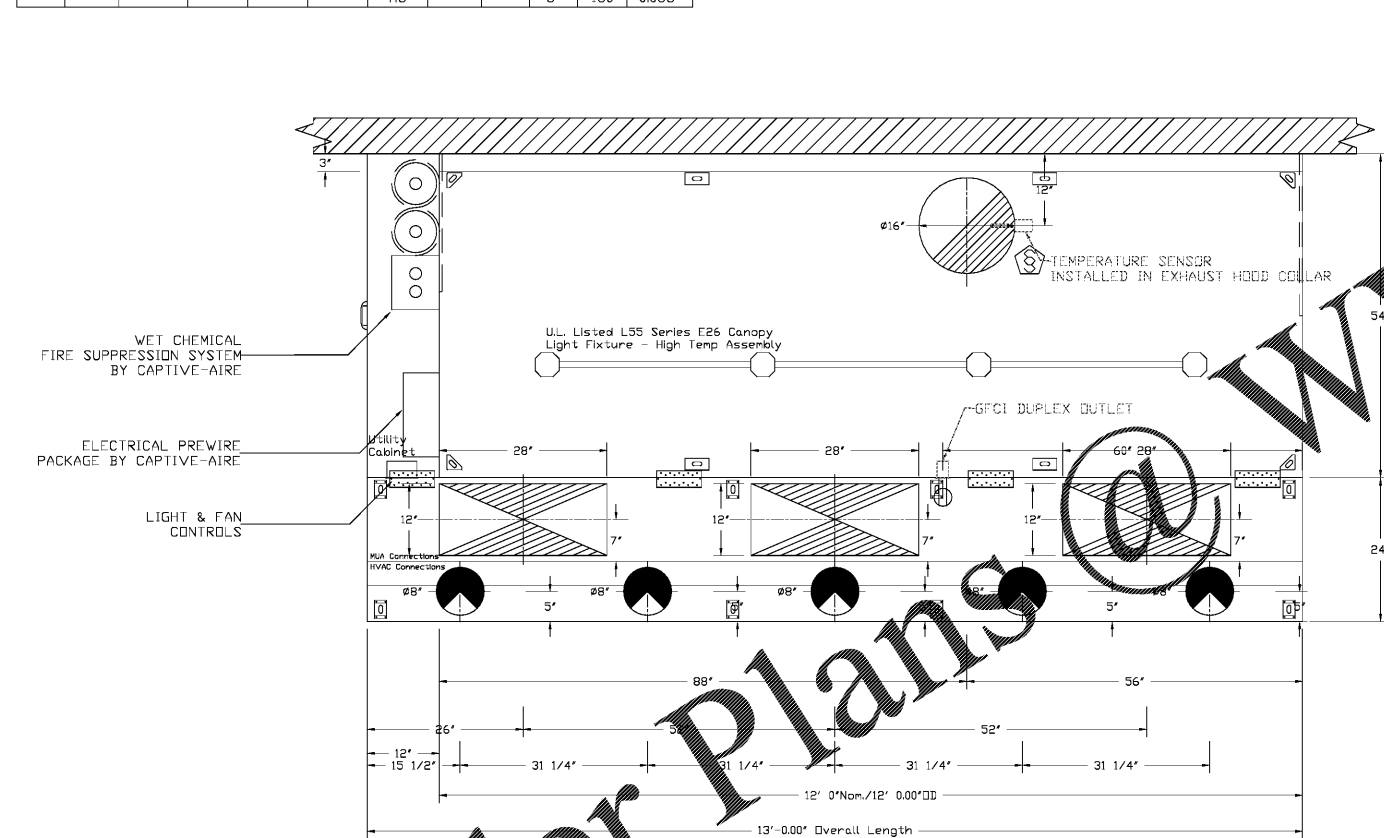
HOOD NO.	TAG	FILTER(S)				LIGHT(S)			UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGHIT			
		TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM			ELECTRICAL	SWITCHES	
1		Captivate Solo Filter	9	20"	16"	85% See Filter Spec.	4	L55 Series E26	ND	Left	12"x54"x30"	Ansul R102	3.0/3.0	DCV-1111	1 Light 1 Fan	YES	1000 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		BACKSPLASH 128.00" High X 192.00" Long 430 SS Vertical
		BACKSPLASH 108.00" High X 192.00" Long 430 SS Vertical
		LEFT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High 430 SS
		STRUCTURAL FRONT PANEL
		RIGHT VERTICAL END PANEL 27" Top Width, 21" Bottom Width, 80" High Insulated 430 SS
		GFCI DUPLEX OUTLET, 20A 125V - Hood Front Right - Vertical - Dist from End: 60.00 Dist from Bottom: 4.75

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG.	DIA.	CFM	S.P.
1		Front	156"	24"	6"	MUA	12"	28"		720	0.195"
						MUA	12"	28"		720	0.195"
						MUA	12"	28"		720	0.195"
						AC		8"		130	0.053"
						AC		8"		130	0.053"
						AC		8"		130	0.053"
						AC		8"		130	0.053"



ACPSP ships loose for field installation

CALCULATIONS UTILIZED

Calculations utilized are based on the hood's ETL Listing
 Exhaust CFM = 12 foot X 225 CFM/in. Ft. (load) = 2700 cfm
 Supply CFM = 2700 Exhaust CFM X 80 percent = 2160 cfm

Total Duct Area = $144 \times \frac{\text{CFM}}{\text{FPM (Note 1)}}$
 Duct Length = $\frac{\text{Total Duct Area}}{\text{Duct Depth (Note 2)}}$

1) Captive-Aire ventilator duct sizes are calculated using an Exhaust velocity of 1800 - 1900 FPM and a Supply velocity of 800 - 1000 FPM.
 2) Please consult factory for maximum allowable duct sizes.

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH



NSF #96
 UL 710 & ULC710 STANDARDS
 E.T.L. LISTED 3054804-001

FOR QUESTIONS, CALL
 CAPTIVE-AIRE DALLAS
 1901 ROYAL LANE, SUITE 101, DALLAS TX 75229
 PHONE: (214) 220-3999
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ND-2 Specification

The model ND-2 is an exhaust only canopy hood rated for all types of cooking equipment. The hood shall have the size, shape and performance specified on drawings.

Construction shall be type 430 stainless steel with a #3 or #4 polish where exposed. Individual component construction shall be determined by the manufacturer and ETL. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints and penetrations of the hood enclosure to the lower outermost perimeter that directs and captures grease-laden vapor and exhaust gases shall have a liquid-tight continuous external weld in accordance with NFPA 96. Hood shall be wall type with a minimum of four connections for hanger rods. Corner hanging angles have a 5/8" x 1-1/2" slot pre-punched at the factory, allowing hanging rods to be used for quick and safe installation.

Ventilator shall be furnished with UL classified high efficiency stainless steel baffle filters, supplied in size and quantity as required by ventilator. The filters shall extend the full length of the hood and the filter panels shall not be more than 6" in width.

The hood manufacturer shall supply complete computer generated submittal drawings including hood sections (views) and hood plan view(s). These drawings must be available to the engineer, architect and owner for their use in construction, operation and maintenance.

Exhaust duct collar to be 4" high with 1" flange. Duct sizes, CFM and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-Ft increments along the length of the ventilator.

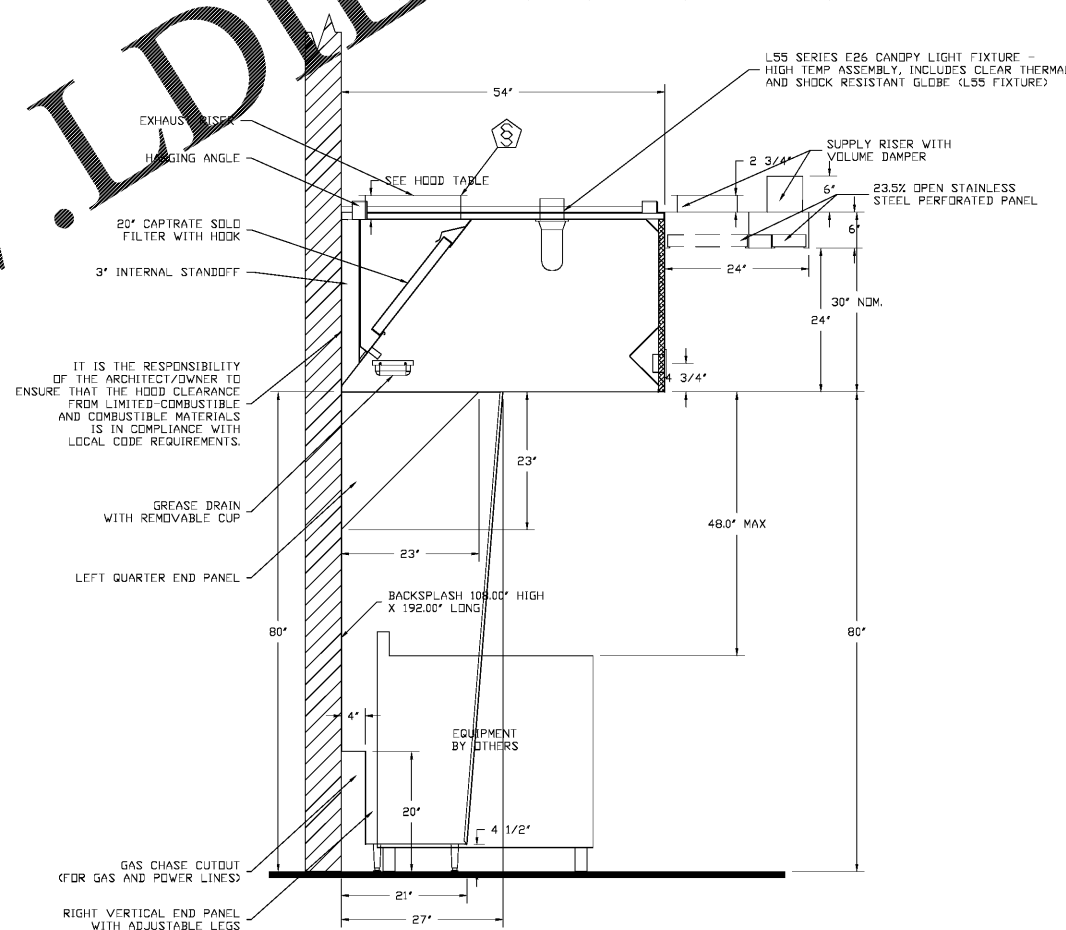
UL Incandescent light fixtures and globes shall be installed and pre-wired to a junction box. All light fixtures shall be installed with a maximum of 40" spacing on center and allow up to a 100 watt standard light bulb.

The hood shall have:
 A double wall insulated front to eliminate condensation and increase rigidity. The insulation shall have a flexural modulus of 475 EI, meet UL 181 requirements and be in accordance with NFPA 90A and 90B.
 An integral front baffle to direct grease laden vapors toward the exhaust filter bank.
 Require an external chaseway for outlets and electrical controls on the hood face and shall not penetrate the capture area or removable grease cup for easy cleaning.
 The hood shall be ETL Listed as "Exhaust Hood Without Exhaust Damper", ETL Standard Listed and built in accordance with NFPA 96. The hood shall be listed for 450°F cooking surfaces at 150 CFM/ft, 600°F cooking surfaces at 200 CFM/ft, and 700°F cooking surfaces at 250 CFM/ft. The hood shall be ETL Listed as "Exhaust Hood Without Exhaust Damper".

Clearance to Combustibles: Standard built in 3" rear standoff to meet NFPA 96 requirements. The ND-2 Model has been certified by ITS. This certification mark indicates that the product has been tested to and has met the minimum requirements of a widely recognized (consensus) U.S. or Canadian products safety standard, that the manufacturing site has been audited, and that the applicant has agreed to a program of periodic factory follow-up inspections to verify continued performance.

AC-PSP Specification
 The AC Perforated Supply Plenum (ACPSP) shall provide make-up air through a dual stream perforated stainless steel plenum. All seams shall be welded and have stainless steel on exposed surfaces. Unexposed surfaces shall be constructed of aluminum steel. Perforated diffuser plates shall be included in the design and to provide even air distribution. The air-conditioned portion of the plenum shall be insulated to prevent condensation. The make-up air plenum shall be located nearest the hood and the air-conditioned plenum away from the hood. The make-up air stream and the air-conditioned stream shall not be permitted to mix until leaving the duct plenum.

Air-conditioned stream shall be supplied to the AC plenum up to 80 cfm per linear foot of plenum.



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.

SECTION VIEW - MODEL 5430ND-2-ACPSP-F HOOD - #1

ALL HVAC SUPPLY DIFFUSERS WITHIN 10' OF THE EXHAUST HOOD MUST BE PERFORATED SCREEN STYLE WITH NO DIRECTIONAL VANES. HVAC AIR MUST NOT BLOW AT THE EXHAUST HOOD OR THE APPLIANCES.

ALL HVAC RETURN GRILLS MUST BE AT LEAST 10' FROM THE EXHAUST HOOD

THE BACK OF THE FRYERS SHOULD BE NO MORE THAN 6" FROM THE WALL

REFER TO HOOD MANUAL FOR PROPER INSTALLATION

CAPTIVE-AIRE HOOD PACKAGE AS SHOWN IS OWNER PROVIDED

REVISIONS

DESCRIPTION	DATE

Wingstop Largo FL #V050
 10125 Ulmerton Rd. Suite C,
 LARGO, FL, 33771

DATE: 3/5/2019
DWG.#: 3741775
DRAWN BY: CJP-REG45
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
 1