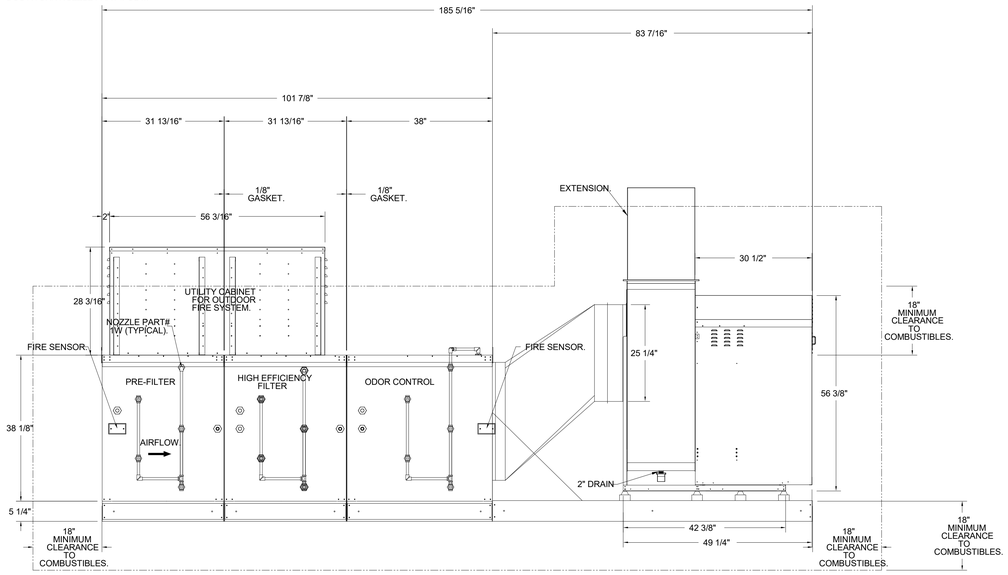
POLLUTION CONTROL UNIT FIRE SYSTEM

FAN #1 EA-USBI24DD-RM-S - EXHAUST FAN (PCU-1) - POLLUTION CONTROL UNIT WITH FIRE SYSTEM PIPING AND DETECTION INSTALLED. INCLUDES STEEL PRE FILTER MODULE, HIGH EFFICIENCY MERV 15 FILTER MODULE, AND ODOR CONTROL MODULE PREPIPED WITH DOWNSTREAM PROTECTION. ELECTRIC FIRE DETECTOR AND NOZZLES ARE INCLUDED.

NOTE:
DUCTWORK NOZZLE PART # OL-M



EXHAUST FAN INFORMATION - JOB#7562175

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	PCU-1	1	EA-USBI24DD-RM	ECON-AIR	3700	2.500	1349	ODP,PREMIUM	7.500	5.7280	3	460	9.9	1230 FPM	1688	37.6

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	PCU-1	YES						

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	PCU-1	1	UTILITY SET GREASE CUP
		1	BI24 - 24" DISCHARGE EXTENSION
		1	BI - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE
		1	BI24 - INLET CONNECTION STANDARD 24" FLANGED GREASE DUCT
		1	POLLUTION CONTROL UNIT WITH PREFILTER, HIGH EFFICIENCY, AND ODOR CONTROL WITH INSTALLED ELECTRIC DETECTION SYSTEM. PRESET TO ACTIVATE AT 360° F. SIZE 3
		1	PCU-SIZE 3 USBI-24 DD
		1	BLUE RUBBER VIBRATION ISOLATORS FOR BI UTILITY SETS (SET OF 8)
		1	2 YEAR PARTS WARRANTY

PCU FILTER SPECIFICATIONS						
DESIGN CFM - 3712						
MODULE	FILTER TYPE	FILTER EFFICIENCY	QTY	SIZE	SP(CLEAN) (in WC)	
1	CAPTRATE SOLO	MERV 8	8	25X20X2	0.467	
2	HIGH EFFICIENCY	MERV 15	8	20X25X4	0.416	
3	OC 100% CARBON	N/A	8	20X25X4	0.768	
					1.651	

FAN #2 EA-A2-20D - SUPPLY FAN (MAU-1)
1. UNDERSIZED SURFLOW UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN IN SIZE #2 HOUSING.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - (SR FLOW RIGHT -> LEFT.
4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 2 UNTEMPERED DIRECT DRIVE AHUS.
5. UNIT MOUNTED DISCONNECT SWITCH FACTORY MOUNTED IN BLOWER SECTION.
6. 2 YEAR PARTS WARRANTY.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED, PER DIAGRAM OF OUTLET/DISCHARGE. DUCTWORK WITH A MINOR DEFLECTION (i.e. 10 DEGREE) AND / OR SWEEP ELBOWS MUST BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" x 20".

DESCRIPTION:
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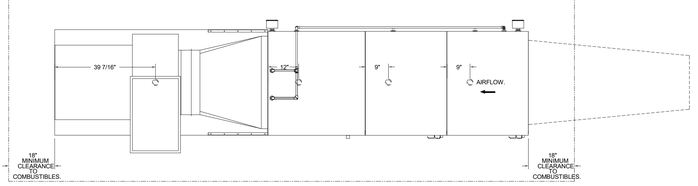

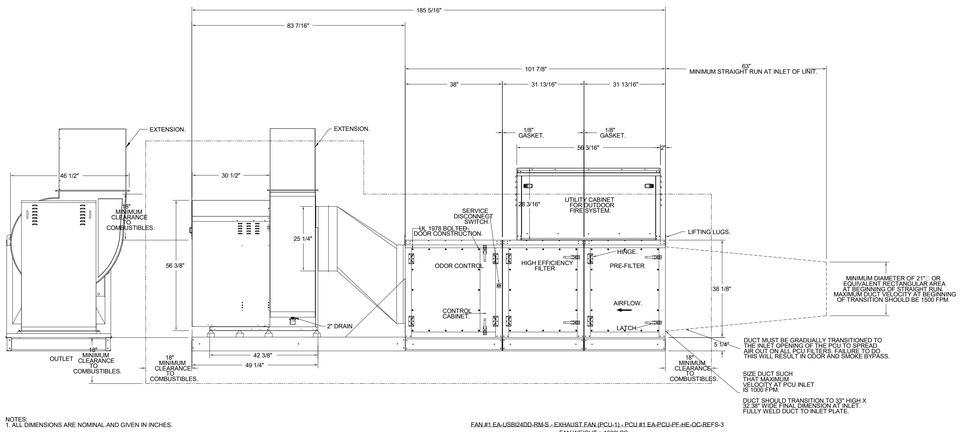

FAN #1 EA-USBI24DD-RM-S - EXHAUST FAN (PCU-1) - PCU #1 EA-PCU-PF-HE-OC-REFS-3
FAN WEIGHT = 1688LBS
PCU LOCATION: OUTDOOR.

NOTES:
1. ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

2. C/US UL710 LISTED FOR GREASE DUCT INSTALLATION.

3. DIRECT DRIVE EXHAUST ONLY UNIT WITH 24 7/50" STEEL WHEEL, UTILITY SET EXHAUST FAN W/ 2" GREASE DRAIN. CLOCKWISE ROTATION WHEN LOOKING AT INLET.

4. WHEN USED IN KITCHEN GREASE DUCT, UNIT MUST BE INSTALLED DOWNSTREAM OF A LISTED HOOD ASSEMBLY OF A UL300 LISTED SYSTEM THAT IS A NFPA 96 COMPLIANT HOOD/DUCT SYSTEM WITH UL 300 A NFPA 96 COMPLIANT SUPPRESSION SYSTEM THAT IS INTERLOCKED WITH THE NFPA 96 COMPLIANT HOOD FIRE SYSTEM.

5. CLEARANCE ON FILTER ACCESS SIDE OF THE PCU SHOULD BE A MINIMUM OF 36" FOR PROPER SERVICE OF THE UNIT. ALL OTHER SIDES SHOULD FOLLOW CLEARANCE TO COMBUSTIBLE GUIDELINES PER CODE.

6. UNIT CONTAINS PRESSURE MONITORING SWITCH. REFER TO ELECTRICAL SCHEMATIC OR OPERATION MANUAL FOR MORE INFORMATION.

7. 1.5" NPT DRAIN SUPPLIED IN EACH MODULE BASE. CONNECT INDIVIDUAL DRAINS TO A COMMON 2 1/2" DRAIN AND ROUTE TO GREASE INTERCEPTOR.

8. FIRE SYSTEM TO BE INSTALLED INDOORS OR IN A WEATHERTIGHT ENCLOSURE MAINTAINED BETWEEN 32° AND 130° F.

PCU OPTIONS:
- PCU ADVANCED FILTER MONITORING SYSTEM- SIZE 3
- UL 1978/UL 2221 CONSTRUCTION FOR BOLTED DOOR DESIGN- SIZE 3
- CLIMATE CONTROLLED UTILITY CABINET FOR FIRE SYSTEM INSTALLATION.* FOR USE WITH FIRE SYSTEMS.

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ISSUE FOR BID

PROJECT # 2450-70798 WBS: F.19002498
ARCH PROJECT # 2023.28 / 1531.09-23
SITE ID: NEW SITE CODE: 6-40-023
DATE OCTOBER 10, 2025

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KITCHEN EQUIPMENT INFORMATION SHEET

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