City of Houston Texas

Job 18076069

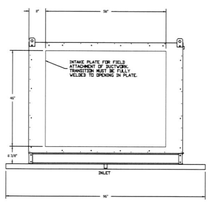
REVIEWED FOR COMPLIANCE

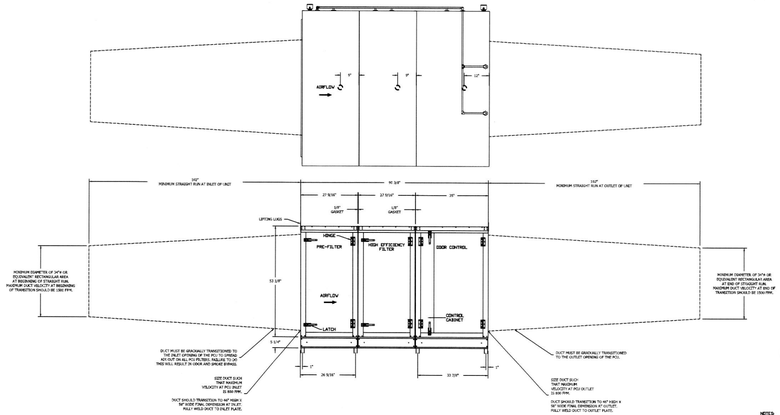
Performance of this review does not relieve the applicant from full responsibility to comply with all applicable codes, ordinances and regulations 10/29/18

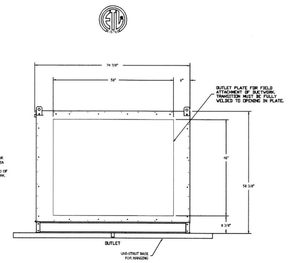
DATE

PCU DESCRIPTION
PCU 81 - PCU-HF-HE-DC-CFZ1-6 - POLLUTION CONTROL UNIT WITH CORE FILTRATION FOR STATOR INSTALLED, INCLUDES 1000 CFM, (6) 12x24 MODULE, 1000 STATIC PRESSURE FAN, 7.5 HP, 460/3/60 MOTOR, 304 SS CONSTRUCTION, FACTORY PREWIRED WITH (6) 50FA-5-0.5MA-1000 RECTIFIER AND INTEGRATED SHUNTRUN PROTECTION. ELECTRIC FIRE DETECTOR AND MODULE ARE INCLUDED.

PLEASE REFER TO ADDITIONAL INLET NOTES 1-3

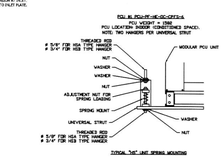






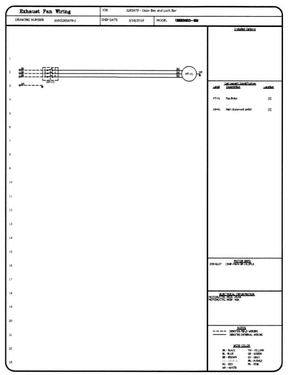
PCU FILTER SPECIFICATIONS					
DESIGN CFM - 9500					
MODULE	FILTER TYPE	FILTER EFFICIENCY	QTY	SIZE	S.P.(Clean) IN W.G.
1	Captivair SOLO	MERV 8	16	20X25Q	0.455
2	High-Efficiency	MERV 15	16	20X25X4	0.315
3	OC 50/50 Carbon/Permanganate	N/A	16	20x25x4	0.900
					1.670

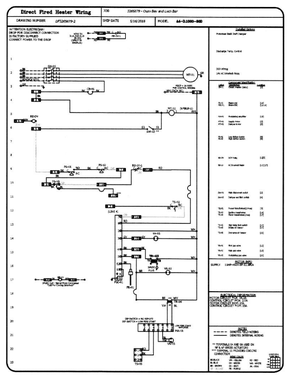
INLET NOTES
1. PCU MUST HAVE STRAIGHT DUCT ON INLET OF PCU TO BE 3 TIMES THE EQUIVALENT DUCT DIAMETER TO AVOID SYSTEM EFFECT.
2. MAX INLET DUCT VELOCITY TO BE 800 FPM SHOP THE PCU. DUCTWORK SHOULD BE SIZED APPROPRIATELY.
3. DUCT MUST BE GRADUALLY TRANSITIONED TO THE INLET OPENING OF THE PCU TO SPREAD AIR EVENLY ON ALL PCU FILTERS. FAILURE TO DO THIS WILL RESULT IN LEAKS AND GREASE BYPASS.
4. ACCESS PANELS ARE FOR THE SIDE OPPOSITE THE FILTER SIDE ONLY. NON-STANDARD AND ADDITIONAL CLEARANCE MAY BE REQUIRED FOR ACCESS PANELS ON OPPOSITE SIDE ACCESS IS REQUIRED.
4. SERVICE PLATFORM MUST BE INSTALLED ON THE FILTER SIDE OF THE PCU AND AT LEAST 3 FEET WIDE.
THE PLATFORM MUST BE THE SAME LENGTH AS THE PCU AND AT LEAST 3 FEET WIDE.
THE PLATFORM MUST BE STRUCTURALLY SUPPORTED BY THE BUILDING, INDEPENDENT OF THE PCU.
THE PLATFORM MUST BE DESIGNED TO PROPERLY SUPPORT THE WEIGHT OF THE PCU AND ALL SERVICE PERSONNEL AND TOOLS.
HANDRAILS MUST BE INSTALLED ON THE SERVICE PLATFORM TO PROTECT MAINTENANCE PERSONNEL.

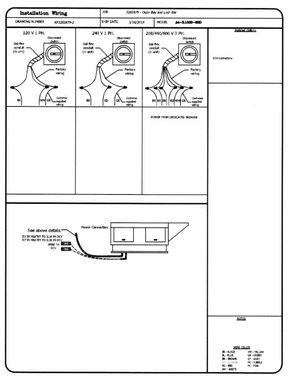


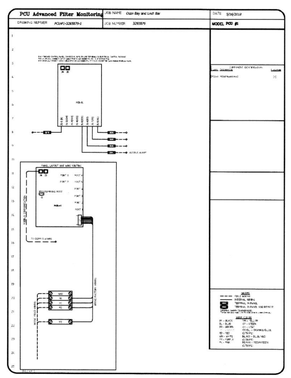
NOTES
1. ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.
2. C/UL UL710 LISTED FOR GREASE DUCT INSTALLATION
3. WHEN USED IN KITCHEN GREASE DUCT, UNIT MUST BE INSTALLED DOWNSTREAM OF A LISTED HOOD ASSEMBLY OF A LISTED EXHAUST SYSTEM AND AS PART OF A LISTED HOOD SYSTEM AND IS INTENDED TO BE WITH AN EXTINGUISHING SYSTEM THAT IS INTERLOCKED WITH THE NFPA 96 COMPLIANT HOOD FIRE SYSTEM.
4. CLEARANCE ON FILTER ACCESS SIDE OF THE PCU SHOULD BE EQUAL TO THE LENGTH OF THE FILTERS PLUS 2 FEET. ALL OTHER SIDES SHALL FOLLOW CLEARANCE TO COMBUSTIBLES PER CODE.
5. FLOAT/TEMPERATURE MONITORING SYSTEM, REFER TO MANUFACTURER'S INSTALLATION AND OPERATION MANUAL FOR MORE INFORMATION.
6. 1/4" NPT DRAIN SUPPLIED IN EACH MODULE BASE. CONNECT INDIVIDUAL DRAINS TO A COMMON 3" DRAIN AND ROUTE TO GREASE INTERCEPTOR.
7. FIRE SYSTEM TO BE INSTALLED INSIDEOF OR IN A SEPARATE ENCLOSURE PROVIDED BY OTHERS. "CORE" AND "OFF" FIRE ENCLOSURE IS PROVIDED BY STATES.
8. WHEN THE PCU IS INSTALLED ABOVE OR NEAR A FINISHED SPACE, THE INSTALLING CONTRACTOR SHOULD CONSIDER THE POSSIBILITY OF CONDENSATE LEAKAGE IN THE EVENT OF A FIRE SUCH LEAKAGE MAY OCCUR WHEN REGULAR CLEANING IS PERFORMED ON THE UNIT.

PCU OPTIONS:
- POLLUTION CONTROL UNIT WITH UPRIGHTE SIDE FILTER ACCESS
- DEFUSE PLATE FOR SIZE 6 PCU WITH 18" X 40" HOLE FOR DUCT CONNECTIONS FOR USE WITH CUSTOM DUCT FITMENT OR FIELD FITMENT
- DEFUSE PLATE FOR SIZE 8 PCU WITH 24" X 40" HOLE FOR DUCT CONNECTIONS FOR USE WITH CUSTOM DUCT FITMENT OR FIELD FITMENT
- DELIVER MARKING CABLE FOR SIZE 6 PCU WITH 2 UA + PROXLESS - 4 PIECES OF UNI-STRUT, 36 BOXING LONG EACH - CUSTOM MARKING SOLUTIONS PER UNI-STRUT ENCLOSED.
- DELIVER MARKING CABLE FOR SIZE 8 PCU WITH 2 UA + PROXLESS - 4 PIECES OF UNI-STRUT, 36 BOXING LONG EACH - CUSTOM MARKING SOLUTIONS PER UNI-STRUT ENCLOSED.
- PCUAPP WITH HPD SCREEN, BACK PLATE WITH LABEL, ADOLENCE QUICK CONNECTS, AIR HOSING, CONDUITS FITTINGS/WIRING HARNESS.
- UNIVERSAL BALL VALVE ELIMINATION SWITCH KIT FOR 1-1/2" BWE, INCLUDES BALL VALVE.
- FULL CAUTIONS FOR POLLUTION CONTROL UNITS, PER SHIPPING.









1 EXHAUST HOOD AND FAN DETAILS

JOHNSON-LANCASTER AND ASSOCIATES, INC.
FOOD SERVICE EQUIPMENT SPECIALIST
13031 US Highway 19 N Clearwater, FL 33764 (727) 796-5622

REVISIONS		
NUMBER	DATE	DESCRIPTION
1	10/19/18	PER HEALTH DEPARTMENT COMMENTS
2	10/24/18	PER HEALTH DEPARTMENT COMMENTS

CAPTIVE
Houston Office
4501 Cartwright Rd., Suite 601, Missouri City, TX. 77459 PHONE: (919) 576-2585 FAX: (919) 227-5862 EMAIL: [redacted]@captiveaire.com

Ouzo Bay and Loch Bar
HOUSTON, TX, 77002

DATE: 5/16/2018
DWG.#: 3265879
DRAWN BY:
SCALE: 1/2" = 1'-0"
MASTER DRAWING
SHEET NO. 5

PROJECT TITLE:
OUZO RESTAURANT & LOCH BAR
HOUSTON, TEXAS

DATE:	06/28/2017
SCALE:	1/4" = 1'-0"
DRAWN BY:	JR
DESIGNED BY:	JR
PAPER SIZE:	24x36
SLAB PENETRATION PLAN	
SHEET:	FS-7.5