SECTION AT TYPE I HOOD
SCALE: NTS   TYPICAL FOR KH-1

NOTE:
1. PROVIDE A INTERLOCK TO EXHAUST FAN ACTIVATION UPON COOKING EQUIPMENT USED. SECTION 507.2.1.1 IMC2012.
2. TYPE I HOOD & EXHAUST DUCT REQUIRED 18" CLEARANCE TO COMBUSTIBLES SECTION 506.3.6 & 507.9 OF IMC2012.

DUCT CONTINUES TO EXHAUST FAN ON ROOF

GREASE DUCT (MINIMUM OF 16 GAUGE WELDED STEEL)

TWO LAYERS OF 1-1/2" UNIFRAX "FYREWRAP ELITE 1.5" GREASE DUCT WRAP WITH ZERO CLEARANCE UL LISTING

HOOD CONNECTION

UL CLASSIFIER BAFFLE-TYPE GREASE FILTERS

VAPOR PROOF INCANDESCENT LIGHT

SLOPED GREASE DRAIN WITH REMOVABLE CUP

EQUIPMENT BY OTHERS

NOTES:
1. KITCHEN HOOD FIRE PROTECTION SYSTEM TO BE DESIGNED & INSTALLED IN ACCORDANCE WITH NFPA 96 AND NFPA 17A.
2. FIRE PROTECTION SYSTEM TO BE ANSUL DRY CHEMICAL PRE-ENGINEERED FIRE SUPPRESSION SYSTEM, OR APPROVED EQUAL.

EXHAUST
TO REMOTE PULL STATION
REMOTE MANUAL CONTROL
FILTER
DRY CHEMICAL CYLINDER
GAS SUPPLY
KITCHEN EQUIP.
GAS SHUT-OFF VALVE
TO FIRE ALARM PANEL
CONTROL HEAD
TO GAS SHUT-OFF VALVE

FIRE PROTECTION SYSTEM
FOR KITCHEN EXHAUST HOOD
N.T.S.

PCU-1 - Grease Trapper — 3-Stage Mechanical Filtered Pollution Control Unit

Standard Construction Features:

Model Name	Unit Volume (CFM)	External SP (in. wg)	Unit Weight (lb)
XFPS-30-PSC-I-20	1,650	2.3	1,073

Unit/Fan Configuration:

Exhaust Fan Model	Exhaust Fan Voltage	Fan HP	Mounting Location	Unit Access	Total SP (in. wg)
Inline	208/60/3	2	Outdoors	Left	2.66

* Maximum PCU width based on fan configuration, for actual width, reference drawings.

Standard Construction Features:
Individual Monitoring of Filter Stages via Internal Pressure Switches
Ship in Modules for field assembly
3 Stage Mechanical Filters (steelmesh / merv8 / carbon)
1" Carbon Trays for Superior Odor Control
Stainless Steel Construction
Factory Provided Inlet Transition

Listings:
UL Listed to UL 8782 Pollution Control Units for Commercial Cooking
Exhaust Fan UL 705 Listed - Power Ventilators for Rest. Exh. Appliances

Selected Options & Accessories:

Option or Accessory	Description
Utility Cabinet	Outdoor Rated, NEMA 4 Enclosure for Fire system Installation 36 in. High 42 in. Long 12 in. Wide, 291 lb
Cabinet Heater	For use in outdoor mounted cabinet

PCU Maintenance:
Routine service is required to ensure optimum performance of the unit, maintenance frequency will vary on application.
Exhaust system must be shut down to allow auto-cleaning system activation - ensure appliances are off and any solid fuel is removed to prevent lingering heat from automatically activating the exhaust system.
Airstream temperatures entering the PCU must be below 130°F.

FILTERED POLLUTION CONTROL UNIT INFORMATION

MARK	MODEL	UNIT ACCESS	CFM	ESP	NUMBER OF SECTIONS	TOTAL WEIGHT
PCU-1 FILTERED INLINE	XFPS-30-PSC-I-20	LEFT	1650	2.3	3	1072.84

FILTERED POLLUTION CONTROL UNIT - FAN INFORMATION

MODEL	SCROLL ROTATION	DISCHARGE POSITION	RPM	OPERATING HP	MOTOR POSITION	HP	V/C/P	ENCL.	RPM	WINDINGS	FLA
XQEI-9	NA	NA	3216	1.44	RIGHT	2	208/60/3	ODP	1725	1	7.5

FILTERED POLLUTION CONTROL UNIT - ELECTRICAL AND PLUMBING INFORMATION

V/C/P	AMPS	ENCL	WIDTH	HEIGHT	DEPTH	WEIGHT (LB)	DRAIN QTY(1")
115/50-60/1	15	NEMA-4	30	24	10	60	3

FILTERED POLLUTION CONTROL UNIT - FILTER INFORMATION

FILTER MODULE	QTY	FILTER TYPE	FILTER SIZE
PRE-FILTER	3	STEEL MESH	24X24X2
STANDARD EFFICIENCY	3	MERV 8	24X24X2
CARBON TRAYS	6	ACTIVATED CARBON	24X24X1

PCU OPTIONS:
430 16 GAUGE STAINLESS STEEL FINISH FOR HIGH CORROSION RESISTANCE
12 GAUGE GALVANIZED RAILS
UL 8782 LISTED FOR POLLUTION CONTROL UNITS FOR COMMERCIAL COOKING
UL/CUL 705 LISTED - SUPPLEMENT SC - REST EXHAUST (FORMERLY UL 762)
FACTORY PROVIDED INLET TRANSITION
NEMA 4 REMOTE FIRE CABINET W/HEATER (42IN X 36IN X 12IN)
MONITORING OF NON-CARBON FILTER STAGES VIA PRESSURE SWITCHES

KH-1 - XBEC — Type 1, Baffle Filter Single Wall - Exhaust Only Crossover

Model	Hood Length (in.)	Width (in.)	Bottom Width (in.)	Height (in.) Front	Height (in.) Back	Exhaust Volume (CFM)	Exhaust SP (in. w.g.)	Double Island
XBEC	60	36	26	14	24	1125	0.719	No

Selected Options & Accessories:

Option or Accessory	Description
Mounting Height	72 in. off Finished Floor.
Integral Air Space	Factory Mounted on Back - 3" wide Zero Clearance 15 lbs
Ceiling Enclosures	30 in. High on Left Front Right
Filter Type	Stainless Steel Baffle Filters 14 lbs
Backsplash Panel	91 in High 96 in Long 0 in Wide 91 lbs
Additional Divider Bar	For Backsplash 84 in Qty 2
J-Channel	For Backsplash 120 in Qty 2
Left Mini End Skirt	26 in High 26 in Top Width 0 in Bottom Width 4 lbs
Right Mini End Skirt	26 in High 26 in Top Width 0 in Bottom Width 4 lbs

Material: 430 SS Where Exposed
UL Listing: UL 710 w/out Exhaust Fire Damper

Features:
Performance Enhancing Lip (PEL)
Standing Seam Construction for Superior Strength
Stainless Steel Finish for Higher Corrosion Resistance

Hood End Conditions:
Back Wall - Full Combustible

Section Data:

Length (in.)	Volume (CFM)	Exhaust Rate (CFM/FT)	SP (in. wg)	Filter Qty 16" W	Filter Qty 20" W	Filter Ht. (in.)	Cooking Load	Light Qty	Light Type	Foot Candles	Drain Location	Hood Weight (LBS)
60	1125	225	0.719	0	3	16	Medium	0	None	na	Left/Right	130.1

Exhaust Collar Data:

Collar Num.	Collar Size (LxW) in. or Diameter (in.)	Pos. Off Left (in.)	Pos Off Back (in.)	Velocity (fpm)	Mounting Option
1	10	30	5.75	2063	Factory Mounted Exhaust Collar(s)

Bighorn Consulting Engineers, Inc.
Mechanical & Electrical Engineers
386 Indian Road
Grand Junction, CO 81501
Phone: (970) 241-8709

LINCOLN PARK CONCESSIONS RENOVATION
MECHANCIAL - DETAILS

998 N 12TH ST.
GRAND JUNCTION, CO

DATE:	ISSUED FOR:
08/29/2025	100% REVIEW
01/22/2026	REVISION 1

DATE:	08/29/2025
JOB NO:	25-284
DRAWN BY:	GW
CHECKED BY:	---
SCALE:	
SHEET NUMBER:	M2-1

ACCUREX

Printed Date: 07/21/2025
Job: Stocker Stadium PCUs
Mark: PCU-1 FILTERED INLINE
Model: XFPS-30-PSC-I-20

WDC#

JOB NAME
STOCKER STADIUM PCUS
PANEL TYPE
GREASE TRAPPER
SERIAL NUMBER WDS#
PANEL MARK PCU-1 FILTERED INLINE
MODEL XFCC
DOC. NUMBER

UL US LISTED

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