



ELECTRICAL PACKAGE - JOB#5100636

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	#	HP	VOLT	FLA
1	EC1	DCV-1111	WALL MOUNT IN SS BOX	05 - SS WALL MOUNT BOX	1 LIGHT 1 FAN	SMART CONTROLS DCV	KEF1	EXHAUST	3	3.000	208	9.5
							MAU-1	SUPPLY	3	2.500	208	5.7

JOB NO. 510636

JOB NAME DCV-III

Twisted Fresh - Summit at Prr...

DATE 10/11/2021

BY ECP #1-1

DESCRIPTION OF OPERATION

General Control Ventilation, or Control Fan 1 Supply Fan, Exhaust on 1st Flr. Lights on 1st Flr. Fan Module based on duct Temperature. EXHAUST FAN 1 MAKE-UP AIR REQUIRED FOR 100% VFD VFD. Room temperature sensor and installation. Verify distance between VFD and Motor, additional cost could apply if distance exceeds 50 feet.

### BREAKER PANEL TO PRIMARY CONTROL PANEL

Responsibility: Electrician

BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED

BREAKER PANEL TO PRIMARY CONTROL PANEL

### CONTROL PANEL TO ACCESSORY ITEMS

Responsibility: Electrician

CONTROL PANEL

### CONTROL PANEL TO FIRE SYSTEM

Responsibility: ALARM CONTRACTOR

CONTROL PANEL

JOB NO.	PROJECT NUMBER	DCV-1111	DRAWN BY	SCHWAB TYPE INSTALL	DESCRIPTION OF OPERATION
JOB NAME	Telnet Fresh - Summit at Prry.	DATE	10/11/2021	ECP RI-2	Manual Control Ventilation, 4" control Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fane available based on duct temperature, INVERTED DUTY 2 PHASE MOTOR BECAUSE FOR USE WITH VFD. Room Temperature sensor triggers loop for heat installation; verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.
1					
2	CONTROL PANEL BUILDING ALARM				
3	SIGNAL FOR TROUBLE ALARM				
4	TROUBLE RELAY CONTACTS WILL MAKE TRC TO TRL IN TROUBLE CONDITION				
5	BUILDING ALARM PANEL				
6	COMMON NORMALLY CLOSED				
7	CONTROL PANEL TO FIRE SYSTEM				
8	Responsibility CERTIFIED INSTALLER				
9	CONTROL PANEL COMPONENT				
10	FIRE STAT SUPERVISED LOOP				
11	MAY BE OVER FACTORY AND FAN wiring. See Installation Schematic				
12	MAGNETIC FIRE ARMATURE AVAILABLE				
13	HIGH TEMP WIRE (442 F) PH				
14	SUPERHEAT WIRE REQUIRED FOR AIR				
15	SUPERHEAT WIRE REQUIRED FOR AIR				
16	WITH NO HOLES, ALL OTHER WIRING SHALL BE PER 63200L, 63200R OR SIMILAR				
17	PULL STATION				
18	MANUAL ACTIVATION LEVER / REMOTE FIRE SYSTEM LEVER				
19	MAGNETIC ACTUATOR PROVIDED				
20	A PLUG POWER WIRE FROM LINE TO AIR AND FIRE WIRE TO GROUND				
21	REMOVE THE LEVERS AND WIRE IN THE UPPER END OF THE LOOP				
22	FOR FIRE SYSTEM INTERLOCK				
23	BATTERY OPERATED MASTER FIRE ALARM / NOT AT ADJACENT MASTER FS				
24	PERMITTED IN EACH ROOM ACTIVATION LOOP				
25	FOR MULTIPLE ACTIVATION LOOP				
26	SEE SYSTEM DRAWINGS FOR MORE INFORMATION				
27	ECP MOD CAT-5 CONNECTION				
28	WIRE DIRECTLY TO CONTROL BOARD				
29	ADDITIONAL DEVICES MAY BE ONLINE				
30	PLACE END OF LINE PLUG IN EMPTY JACK ON CABLE				
31	UNLESS VFD, PCU, OR OTHER COMPONENT IN SERIES				
32	INTERLOCK NETWORK				
33	SHIELD TWISTED PAIR BLACK RED				
34	MASTER CORE				
35	TO MASTER FS PANEL				
36	WIRE TO LINE TERMINALS IN ALL CORE PANELS THAT MUST ACTIVATE TOGETHER SET MASTER & SLAVE				
37	DIP SWITCHES FOR FIRE SYSTEM MANUAL				
38	PS-2				
39	VIRING DIAGRAM FOR ALL OTHER PRESSURE SWITCHES IN PARALLEL				

JOB NO	S100636	PROJECT NUMBER	DCV-1111	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION
		JOB NAME	Twisted Fresh - Summit at Pryn-	DATE	REV NO	ECP 81-3
The System #1 TANK FS - 45/45 (FS) Tank-based Fire Protection System equipped with Electronic Detection utilizing CODE Board as a Listed Release Mechanism. Installed in Hood Only. Cabinet separate from pressure. Includes 12" air housing circuit board, batteries, and terminals for connection to main control panel.						

## TANK PROTECTION ELECTRICAL DETAIL

ELECTRICIAN

1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC

2. WIRE KILL FANS PER INCLUDED SCHEMATIC

3. WIRE SHUNT TRIP BREAKER (OPTIONAL)

4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)

5. WIRE GAS VALVE

02/10/2021 Rev. 2

## FS-1: MASTER

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & NI	BREAKER COIL GAS & A2	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	HI & NI + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & NI	KTS & NI	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AUI, AUE	SOLENOID	120 VAC	< 6 AMPS	120V TO AUI, AUE TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LEV & NEB (IF 24 VDC) GAS & NI (IF 120 VAC)	RED/RED/GREEN	24 VDC 120 VAC	< 10 AMPS	IF 24 VDC - 2 WIRES & GROUND WED TO RED, LEV TO RED, AND GREEN TO GROUND IF 120 VAC - 5 WIRES & GROUND GAS TO RED, NI TO RED, AND GREEN TO GROUND

SHUNT TRIP BREAKER (OPTIONAL)  
-2 WIRES: 120VAC  
-ST TO A1 ON SHUNT BREAKER  
-NEUTRAL TO A2 ON SHUNT TRIP BREAKER

CONTROL PANEL POWER  
-2 WIRES & GROUND  
-120 VAC, 15 AMP SERVICE  
-WIRE TO HI AND NI, GROUND  
-POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER

GAS VALVE POWER  
-2 WIRES & GROUND  
-24 VDC WIRE TO LEV & NEB  
-120 VAC WIRE TO GAS & NI

GAS VALVE  
-STRAINER MUST BE  
-INSTALLED UPSTREAM  
-OF VALVE

36 INCHES CLEARANCE REQUIRED IN FRONT  
OF ALL UTILITY CABINET DOORS  
THE PANEL SHALL ALSO BE LOCATED IN AN  
ACCESSIBLE AREA WHERE THE AUDIBLE AND  
VISUAL ALARMS CAN BE HEARD AND SEEN

POWER TO ELECTRIC  
APPLIANCE

ELECTRIC      GAS

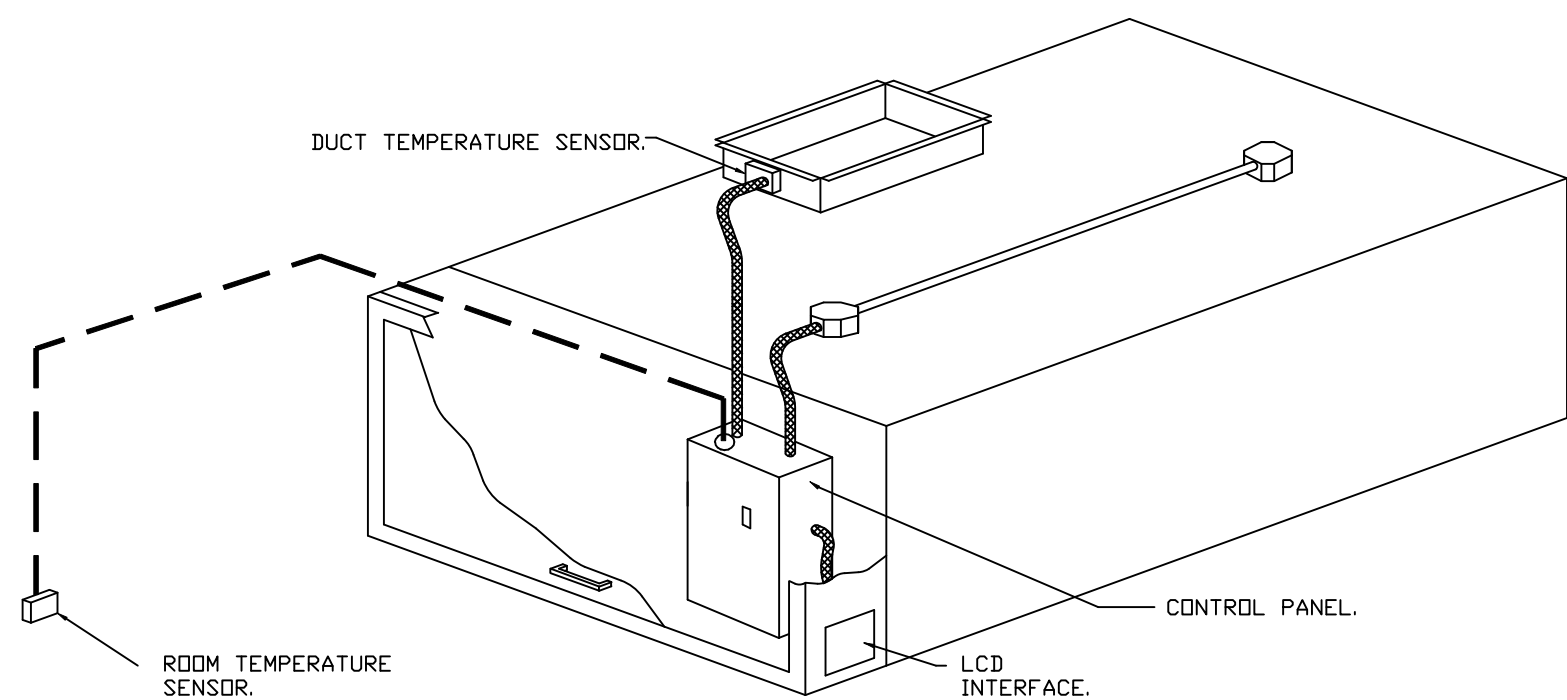
COOKING APPLIANCE(S)

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

[illegible]



REVISIONS		DATE:
DESCRIPTION		
△	Development Services Department	07/13/2022
△	Lee's Summit, Missouri	



### TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- **AUTOMATIC:** THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS 'DYNAMIC', THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS 'STATIC', FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.2.8.
- **MANUAL:** THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- **SCHEDULE:** A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- **OTHER:** THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- **FIRE:** UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

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### DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.2.8 (2015).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDs) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDs BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  - A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  - B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  - C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  - G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDs.

- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.

- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.

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- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.

- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).

- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
- A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  - B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  - C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
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Twisted Fresh - Summit at Pryor  
LEES SUMMIT, MD, 64081

**DATE:** 10/11/2021

**DWG.#:**  
5100636

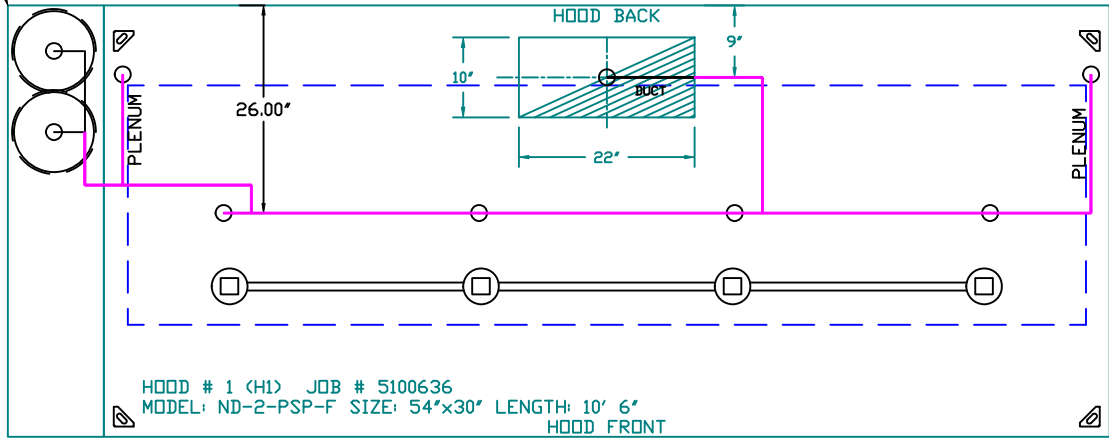
**DRAWN BY:** dan.herten

**SCALE:**  
3/4" = 1'-0"

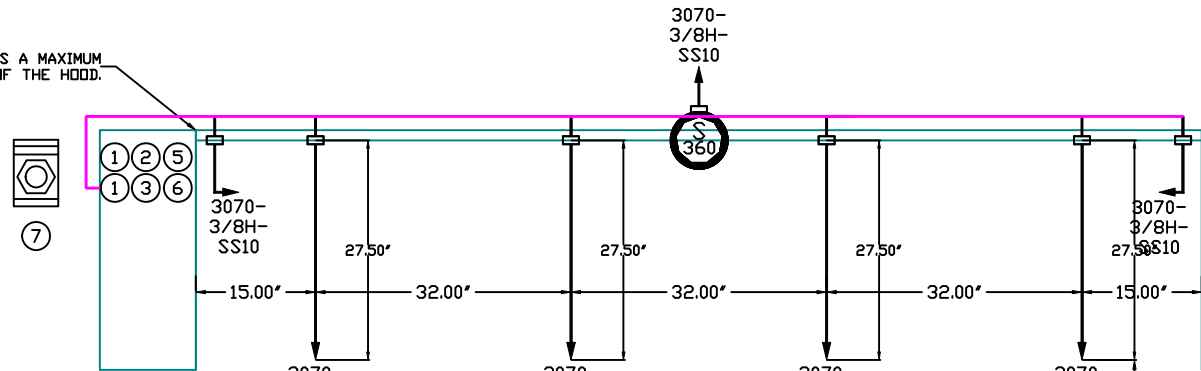
## MASTER DRAWING

**SHEET NO.**  
4

SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.5 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS.



FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.



NOZZLE HEIGHT 35-50" FROM COOKING SURFACE.

TANK OVERLAPPING PROTECTIVE COVER, 36" HIGH, 120" X 120" D

RECESSED ROUND LED FIXTURE AND LED LIGHT, 3500 K, WARM OUTPUT.

1" LAYER OF INSULATION FACTORY INSTALLED ON TOP OF HOOD, MEETS 0 INCH REQUIREMENTS FOR CLEARANCE TO COMBUSTIBLE SURFACES.

60" CAPTRATE SOLD FILTER WITH HOOD. 1" LAYER OF INSULATION FACTORY INSTALLED IN 3" INTERNAL STANDOFF. MEETS 0 INCH REQUIREMENTS FOR CLEARANCE TO COMBUSTIBLE SURFACES.

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.

GREASE DRAIN WITH REMOVABLE CUP.

LEFT AND RIGHT END PANELS.

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

#### NOTES

- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY GAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVEING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

JOB #: 5100636.  
JOB NAME: TWISTED FRESH - SUMMIT AT PRYOR.

SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 28.  
HOOD # 1 10' 6.00" LONG x 54" WIDE x 30" HIGH.  
RISER # 1 SIZE: 10" x 22".  
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

#### LEGEND - FIRE CABINET TANK SYSTEM

- 4 GALLON TANK.
- PRIMARY ACTUATOR RELEASE.
- SECONDARY ACTUATOR RELEASE.
- PRESSURE SUPERVISION SWITCH.
- PRIMARY HOSE ASSEMBLY.
- SECONDARY HOSE ASSEMBLY.
- REMOTE MANUAL ACTUATION DEVICE.

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE. TWO SITE VISITS ONLY ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES. ONE MECHANICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2". PERMIT, AND SYSTEM TEST. EXCLUDES UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE). GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

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RISER # 1 SIZE: 10" x 22".

#### NOTES

- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY GAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVEING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 7/2 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE COVERING A RANGE, FRYER, OR WOK TO REFLECT GENERAL PIPING REQUIREMENTS.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

#### FIRE SYSTEM INFORMATION - JOB#5100636

FIRE SYSTEM NO.	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION
1	FS	TANK FS	4.0/4.0	28	FIRE CABINET LEFT LEFT, HOOD 1

#### GAS VALVE(S)

FIRE SYSTEM NO.	TAG	TYPE	SIZE	SUPPLIED BY
1	FS	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

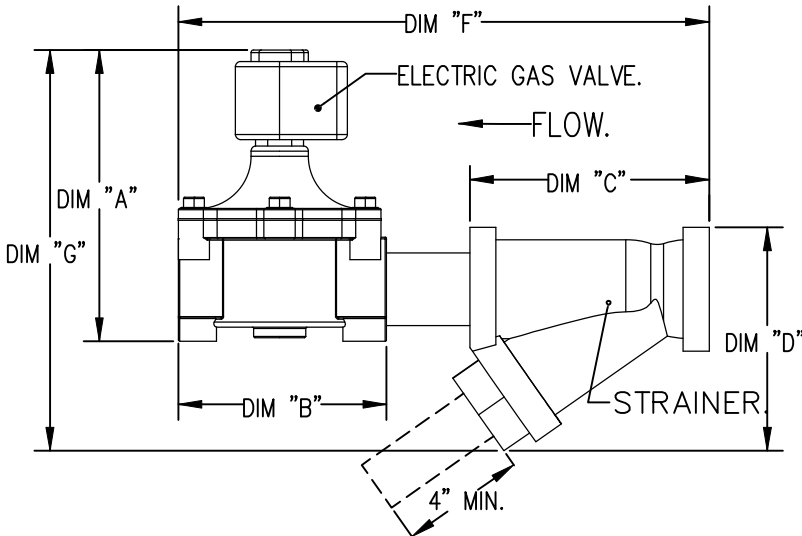
#### FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO.	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST.
1	FS	0 - 0 - 12-F28021-32144-0T-360 BUXT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. ND, CLOSE ON TEMP RISE AT 360°F.	1	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300033-001 DIN CONNECTOR, CANFIELD PART #5J560-201-EUDA, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (C/D VENDOR 30377).	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 - 0 - 905455PFC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW L.D.	7	0
		0 - 0 - 9097200PC PRO PRESS PCE11 1/2 PRESS TEE L.D.	6	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - B1145 3/8" BLACK IRON 90 ELL.	3	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - SLPCDN-15FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 14" GAP OR BACK TO BACK HOODS. KIT CONTAINS 17 FEET OF BLACK MG WIRE, 17 FEET OF TAN MG WIRE, 15 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0 - 0 - TFS-USTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 - 16 - 3070-3/8H-10-SS NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, AND CHROME-PLATED PIPE) - 4 FLOW POINTS.	7	0
		16 - 16 - 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	7	0
		26 - 26 - DSA-3/8 BUTK SEAL - 3/8" (UL).	7	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

GAS VALVES AND STRAINERS													
GAS VALVE SIZING				GAS VALVE DIMENSIONS						PART NUMBERS			
TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "G"	DIM "H"
ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,908,048 BTU/HR	7-5/8"	6-3/8"	7-1/4"	7-13-16"	15-5/8"	13-15/16"	

ALL GAS VALVES/STRAINERS  
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER. CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS  
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP  
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP<sup>3/4</sup>  
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY  
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)<sup>1/4</sup>





EXHAUST FAN INFORMATION – JOB#5100636

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	KEF1	1	USB118DD-RM	CAPTIVEAIRE	2250	3.000	1546	DDP,PREMIUM	3.000	1.9160	3	208	9.5	1153 FPM	423	25

MUA FAN INFORMATION – JOB#5100636

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	MAU-1	1	A1-E.362-16Z	16Z-1-MDD	A1-E.362	1000	1800	0.500	1931	DDP-ECM	2.500	0.8530	3	208	5.7	116.6A	125A	925	18.9

COILS – JOB#5100636

FAN UNIT NO	TAG	COIL TYPE	DESIGN CFM	COOLING										HEATING									
				ENTERING DB TEMP	ENTERING WB TEMP	LEAVING DB TEMP	LEAVING WB TEMP	ENTERING FLUID TEMP	LEAVING FLUID TEMP	FLUID FLOW RATE	PERCENT GLYCOL	TOTAL CAPACITY	SENSIBLE CAPACITY	LATENT CAPACITY	ENTERING DB TEMP	LEAVING DB TEMP	ENTERING FLUID TEMP	LEAVING FLUID TEMP	FLUID FLOW RATE	PERCENT GLYCOL	STEAM PRESSURE	TOTAL CAPACITY	SENSIBLE CAPACITY
2	MAU-1	DX	1800	93.0°F	76.0°F	70.7°F	66.9°F	---	---	---	---	60.0 MBH	40.8 MBH	19.2 MBH	---	---	---	---	---	---	---	---	---

ELECTRIC MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	DSGN KW'S	MAX KW'S	PHASE	VOLTS	AMPERAGE	TEMP RISE	OUTPUT BTUs
2	MAU-1	35	36	3	240	86.6	65 °F	122868

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF1	1	BI18 - INLET SERVICE DUCT CONNECTION. USED TO CONNECT TO STANDARD 20" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER.
		1	UTILITY SET GREASE CUP.
		1	BI18 - 24" DISCHARGE EXTENSION.
		1	BI - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE.
		1	BI18 - INLET CONNECTION STANDARD 20" FLANGED GREASE DUCT.
		1	UTILITY SET - SPRING VIBRATION ISOLATORS - BI18 / EQUIVALENT SIZED UTILITY SET - INDOOR/OUTDOOR USE.
2	MAU-1	1	2 YEAR PARTS WARRANTY.
		1	AC INTERLOCK RELAY - 24VAC COIL.
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING. MEETS AMCA CLASS 1A RATING.
		1	INSULATION OPTION FOR VBANK FILTER SECTION.
		1	COOLING THERMOSTAT AND RELAY (NOT REQ FOR EVAP).
		1	SINGLE POINT CONNECTION - ELECTRIC HEATER - THREE PHASE - BLOWER & HEATER MUST BE THE SAME VOLTAGE & PHASE. IF A NON-DCV PREWIRE IS USED ON THE EH, #28, #47, MA OR E2 OPTION PREWIRE MUST BE SELECTED. DO NOT PROVIDE SUPPLY STARTER IN PREWIRE.
		1	CLOGGED FILTER SWITCH DRY CONTACT.
		1	DX COIL MODULE -1,000 TO 3,250 CFM (5 TON 1 CIRCUIT COIL).
		1	SIZE 1 ELECTRIC HEATER INDOOR HANGING OPTION. INCLUDES 2 HSA125 HANGING SPRING ISOLATORS PER UNI-STRUT.
		1	DXM 1-2 REFRIGERATION PARTS KIT - R410A.
		1	ECM WIRING PACKAGE-SUPPLY - PWM SIGNAL FROM ECPMD3 PREWIRE (3 - PHASE ZIEHL MOTOR).
		1	2 YEAR PARTS WARRANTY.

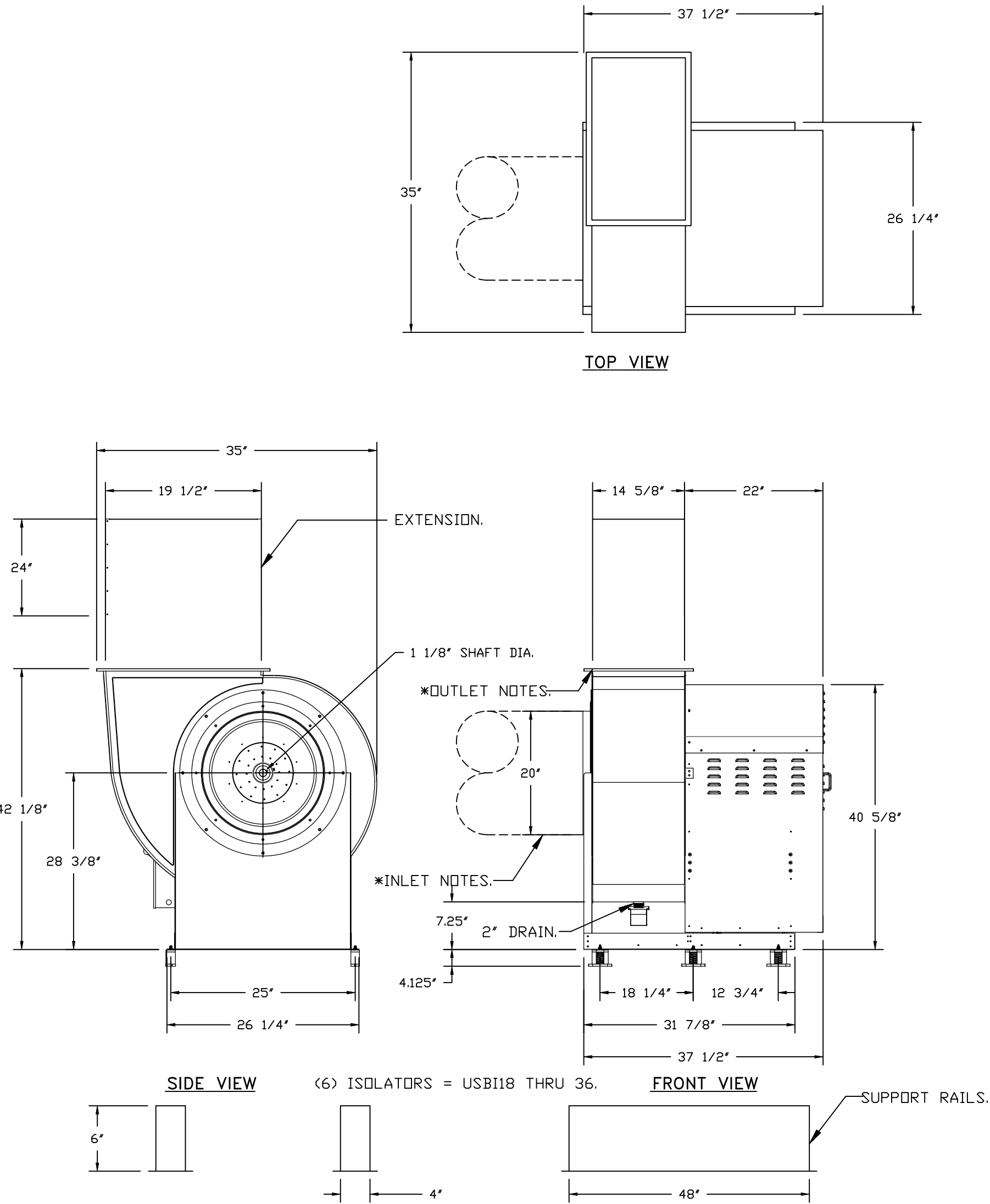
FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF1	YES						
2	MAU-1				YES		YES	

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF1	25 LBS	RAIL	4.000"W X 48.000"L X 6.000"H ALONG WIDTH, RIGHT COMES AS A SET OF 2.

FAN #1 USB118DD-RM - EXHAUST FAN (KEF1)



FEATURES:

- ROOF MOUNTED FANS.
- UL705.
- UL762 AND ULC-S645 (RESTAURANT MODEL).
- HIGH HEAT OPERATION DIRECT DRIVE 350°F (176°C).
- HEAT SLINGER.
- NEMA 3R SAFETY DISCONNECT SWITCH.
- GREASE CLASSIFICATION TESTING.
- 2" DRAIN.
- MOTOR WEATHER COVER.
- FULLY SEALED SCROLL HOUSING.
- SCROLL ACCESS DDOR.
- FLANGE 1 1/4".

OPTIONS

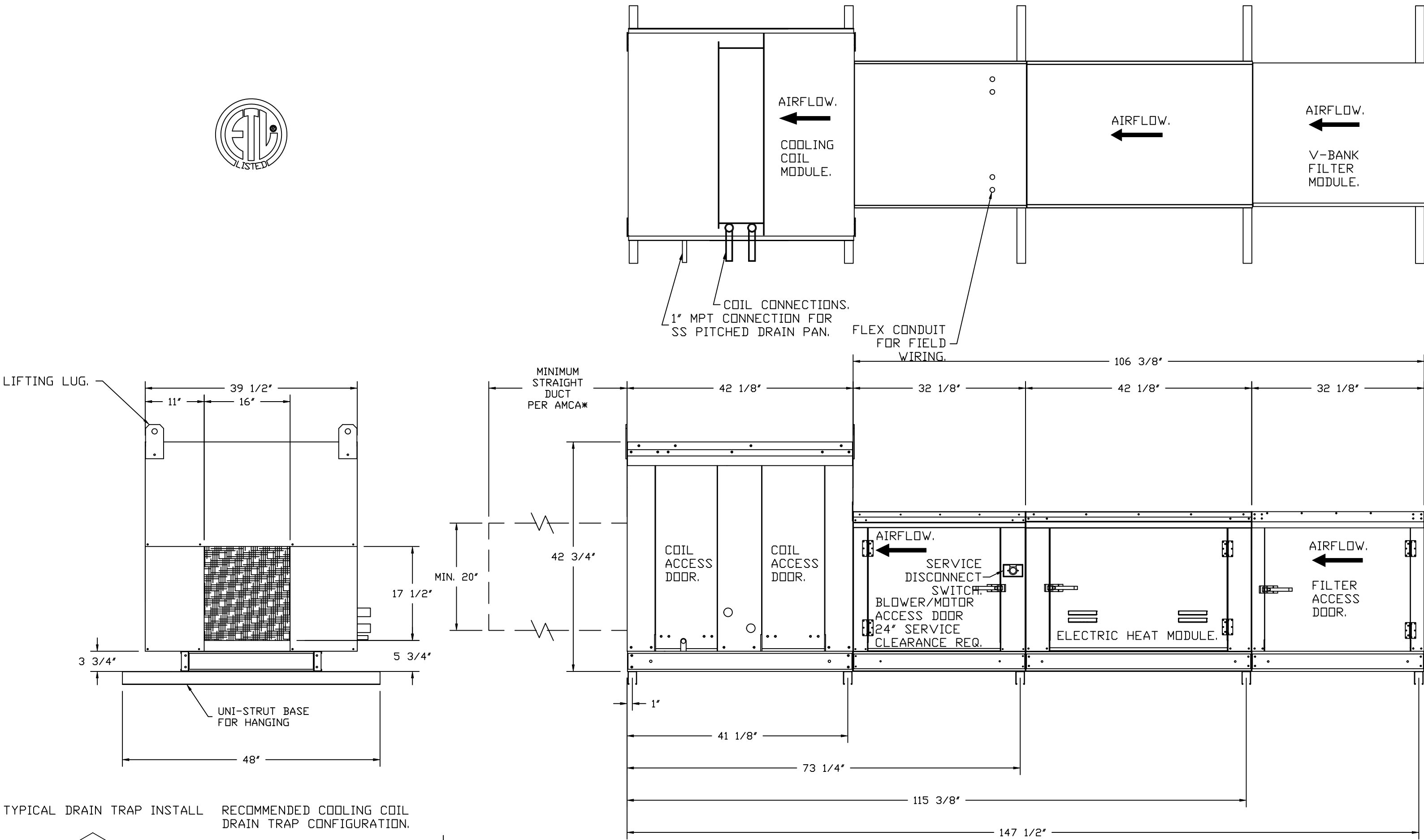
- BI18 - INLET SERVICE DUCT CONNECTION. USED TO CONNECT TO STANDARD 20" GREASE DUCT OR FIELD WELDED DUCT. INCLUDES (2) 7" RISERS BOLTED TO STANDARD INLET RISER.
- UTILITY SET GREASE CUP.
- BI18 - 24" DISCHARGE EXTENSION.
- BI - DISCHARGE ORIENTATION VERTICAL UPPER LEFT - CW INLET SIDE.
- BI18 - INLET CONNECTION STANDARD 20" FLANGED GREASE DUCT.
- UTILITY SET - SPRING VIBRATION ISOLATORS - BI18 / EQUIVALENT SIZED UTILITY SET - INDOOR/OUTDOOR USE.
- 2 YEAR PARTS WARRANTY.

- FAN #2 A1-E-362-16Z - HEATER (MAU-1)
1. ELECTRIC HEATED MAKE UP AIR UNIT WITH 16" DIRECT DRIVE FAN AND A 3 STAGES TOTAL, 1 MODULATING, 36KW 240 - 3 COIL.
  2. V-BANK EZ FILTERS - INDOOR.
  3. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT.
  4. COOLING INTERLOCK RELAY. 24VAC COIL. 120V CONTACTS. LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
  5. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFB120S ACTUATOR INCLUDED.
  6. "INSULATION" FOR V-BANK INTAKE OPTION.
  7. DX COOLING INTAKE AIR THERMOSTAT AND RELAYS MOUNTED IN UNIT - SET POINT FOR THERMOSTAT SHOULD BE 85°F.
  8. SINGLE POINT CONNECTION FOR THREE PHASE ELECTRIC HEATERS - NOT USED WITH MULTIPLE HEAT MODULES.
  9. CLOGGED FILTER SWITCH.
  10. DX COIL MODULE FOR SIZE 1 MODULAR FANS - 1,000 THRU 3,250 CFM (5 TON - 1 CIRCUIT DX COIL, 4E20802H-31.5X27.0) NOT BUILT WITH OPP SIDE CONTROLS. DXM1-2
  11. CONDENSER AND CONDENSER DISCONNECT (UNLESS PROVIDED ON QUOTE) WILL BE INSTALLED, STARTED AND WARRANTED BY OTHERS. R410A REFRIGERANT AND PIPING BY OTHERS. ENSURE DX-KIT IS ORDERED FOR FILTER DRIER, SIGHT GLASS, THERMAL EXPANSION VALVE. COLD HEATCRAFT COIL # 5EN0903B-31.5X27.0.
  12. DX 1-2 KIT R410A. SINGLE CIRCUIT 5 TON. INCLUDES FILTER DRIER, SIGHT GLASS, AND THERMAL EXPANSION VALVE FOR DX UNITS. INSTALLATION BY OTHERS. INCLUDES R410A TXV.
  13. ECM WIRING PACKAGE FOR ZIEHL SUPPLY MOTORS WITH PWM SIGNAL FROM ECPM03 PREWIRE.
  14. 2 YEAR PARTS WARRANTY.

\*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT 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".

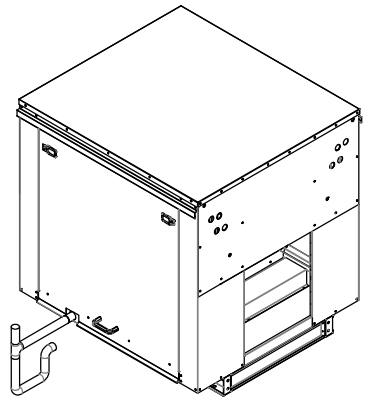
SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 10°F. TEMP. RISE = 65°F.  
KW's CALCULATED OFF ACTUAL AIR DENSITY.  
KW's AT ALTITUDE OF 0.0 FT. = 37.  
KW's AT ALTITUDE OF 973 FT. = 35.



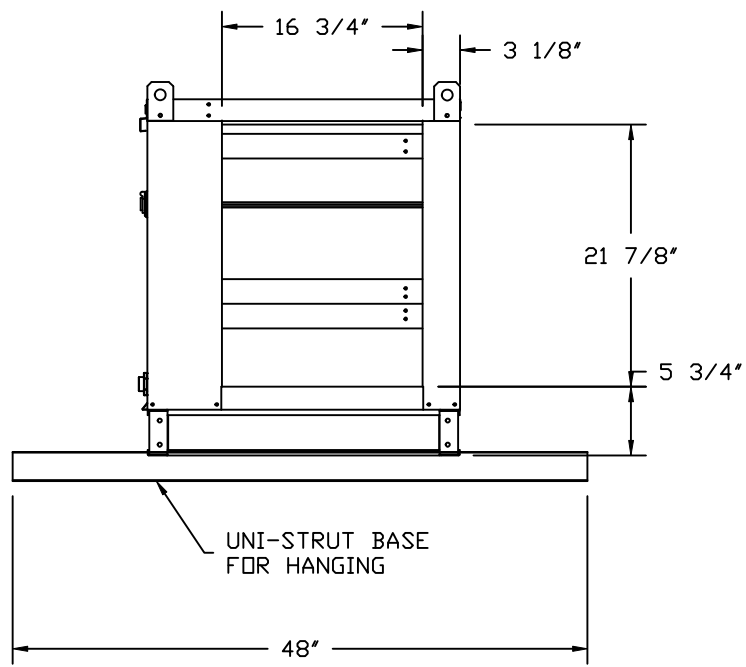
TYPICAL DRAIN TRAP INSTALL

RECOMMENDED COOLING COIL DRAIN TRAP CONFIGURATION.



NOTES:

- 1) 1" DIAMETER PVC PIPE ONLY.
- 2) USE ONLY LOW PROFILE COUPLINGS.
- 3) ADD CLEAN OUT AS SHOWN.



RELEASED FOR CONSTRUCTION

REVISIONS

DESCRIPTION

DATE

Lee's Summit, Missouri

07/13/2022

www.captiveair.com

HB T Foodservice

104 W 9th St Suite 204, Kansas City, MO, 64105 PHONE: (816) 221-8575 FAX: (816) 221-8311 EMAIL: reg9@captvire.com

Twisted Fresh - Summit at Pryor

LEES SUMMIT, MO, 64081

DATE: 10/11/2021

DWG.#: 5100636

DRAWN BY: dan.herten

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 7

<b>DATE:</b> 10/11/2021
<b>DWG.#:</b> 5100636
<b>DRAWN BY:</b> dan.herten
<b>SCALE:</b> 3/4" = 1'-0"
<b>MASTER DRAWING</b>
<b>SHEET NO.</b> 8

