

FOR QUESTIONS, CALL THE
 FLD AIRE NATIONAL
 REGION 22
 PHONE: (610) 239-8405
 EMAIL: courtney.hardin@floaire.com

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 - JOB#5910261

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)						TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL			SP	END TO END	ROW
1	10' Heated	5424 FX-2-PSP-F	FLOAIRE	10' 0"	600 DEG	I	HEAVY	234	2340	10'	22'	4'		2340	1532	-0.984'	1872	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)				LIGHT(S)			UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT			
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM			ELECTRICAL	SWITCHES	
1	10' Heated	CAPTRATE SOLD FILTER	7	16'	16'	85% SEE FILTER SPEC	3	L55 SERIES E26	NO	LEFT	12"x54"x24"			SC-311110MA	1 LIGHT 1 FAN	NO	695 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	10' Heated	RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		SENSOR-CV.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1	10' Heated	Front	132"	16"	6"	MUA	8"	36"		624	0.174"
						MUA	8"	36"		624	0.174"
						MUA	8"	36"		624	0.174"

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLD FILTER

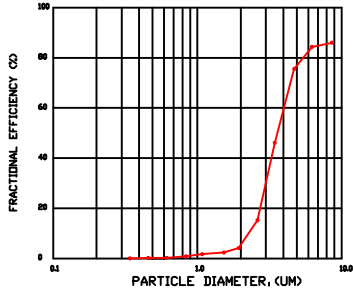
THE CAPTRATE GREASE-STOP SOLD FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

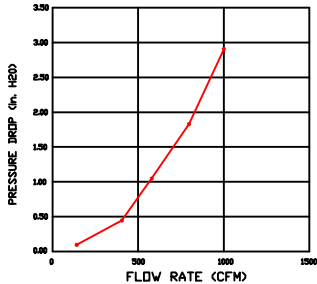
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE. THE CAPTRATE GREASE-STOP SOLD WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

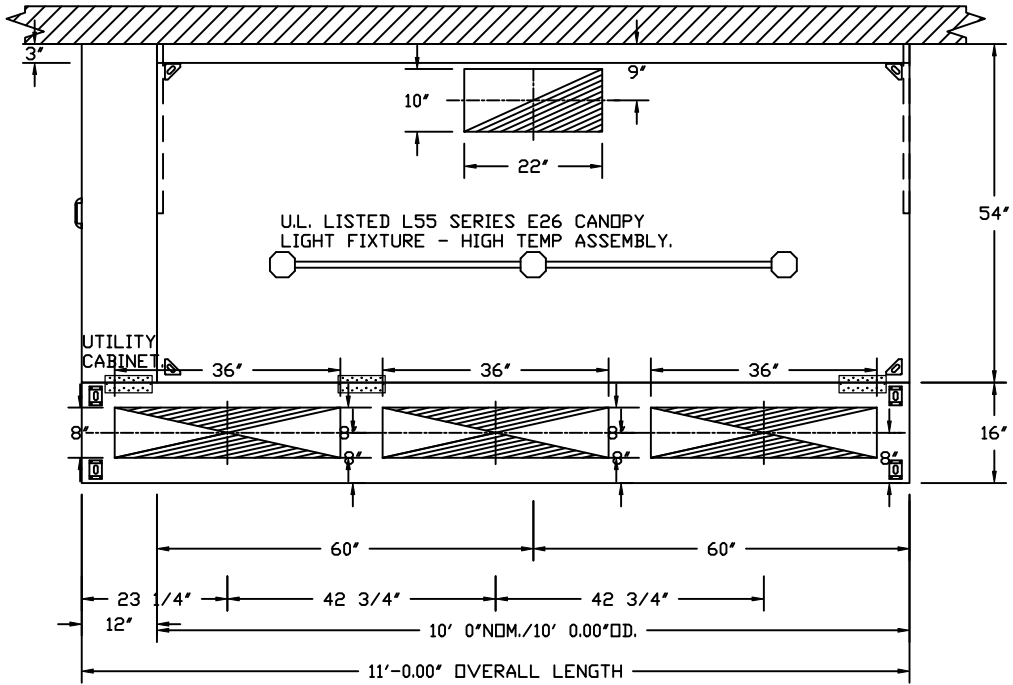
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
 NFPA #96.
 NSF STANDARD #2.
 UL STANDARD #1046.
 INT. MECH. CODE (IMC).
 ULC-S649.



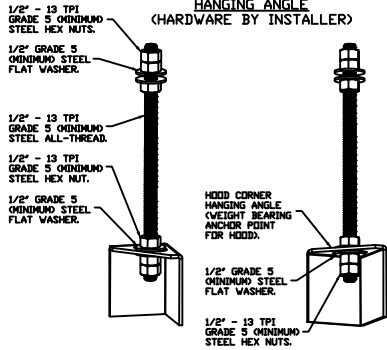
PLAN VIEW - HOOD #1 (10' Heated)
 10' 0.00" LONG 5424FX-2-PSP-F



FloAire

JOB 10' Heated UC Left** Hood Stock	
LOCATION	
DATE 3/20/2023	JOB # 5910261
DWG # 1	DRAWN BY courtneyh
REV.	SCALE 3/8" = 1'-0"

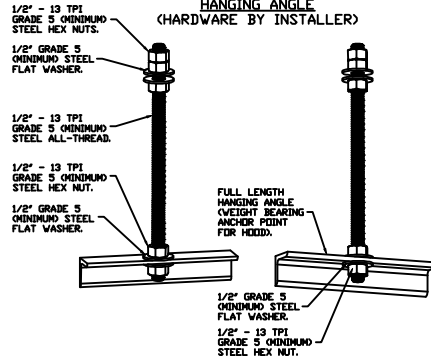
HOOD CORNER HANGING ANGLE
(HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

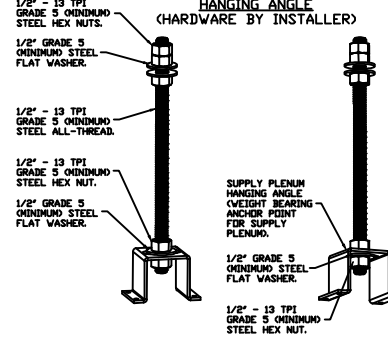
FULL LENGTH HANGING ANGLE
(HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

SUPPLY PLENUM HANGING ANGLE
(HARDWARE BY INSTALLER)



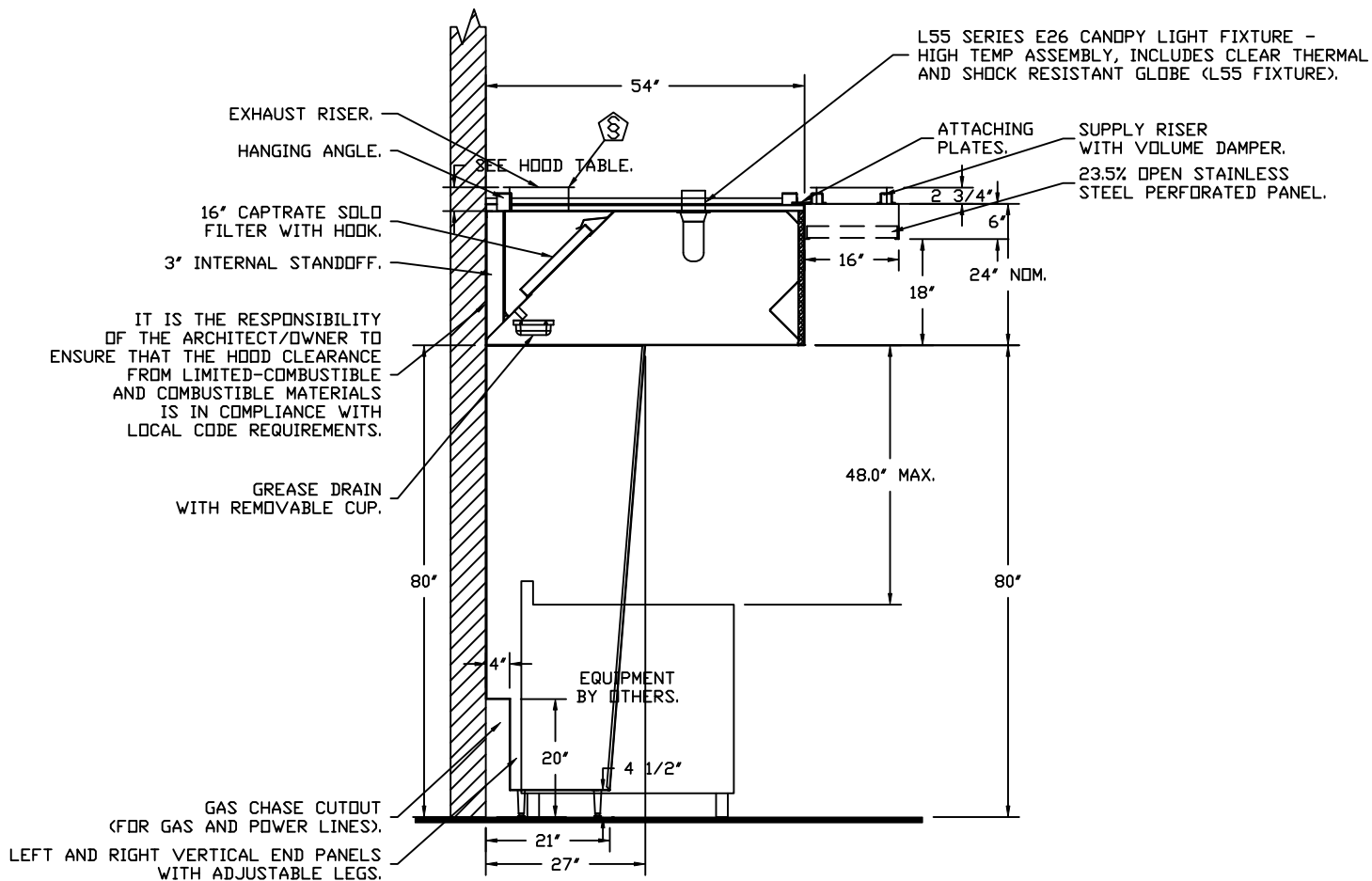
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FloAire

JOB10' Heated UC Left** Hood Stock	
LOCATION ,	
DATE 3/20/2023	JOB # 5910261
DWG # 2	DRAWN BY courtneyh
REV.	SCALE 3/8" = 1'-0"



**SECTION VIEW - MODEL 5424FX-2-PSP-F
HOOD - #1 (10' Heated)**



FloAire

JOB10' Heated UC Left** Hood Stock	
LOCATION ,	
DATE 3/20/2023	JOB # 5910261
DWG # 3	DRAWN BY courtneyh
REV.	SCALE 3/8" = 1'-0"

EXHAUST FAN INFORMATION - JOB#5910261

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	10' HEATED	1	DU85H	FLOAIRE	2340	1.100	1588	TEAD-ECM	1.000	0.7240	1	115	11.6	741 FPM	98	17.2

MUA FAN INFORMATION - JOB#5910261

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MDCP	WEIGHT (LBS)	SONES
2	10' HEATED	1	F1-D.500-15D	15MF-1-MDD	A1-D.500	1000	1872	0.300	1874	ODD,PREMIUM	1.500	1.0810	3	208	4.4	5.5A	15A	488	17.4

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
2	10' HEATED	153605	141317	70°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	10' HEATED	1	GREASE BOX
		1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCD), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
2	10' HEATED	1	SIZE 1 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	LOW FIRE START
		1	SHIP LOOSE GAS STRAINER 3/4"
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	FREEZESTAT (10)
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		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	10' HEATED	YES						
2	10' HEATED					YES		

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	10' HEATED	32 LBS	CURB	23.000"W X 23.000"L X 20.000"H ALONG LENGTH, RIGHT VENTED.
2	# 2	10' HEATED	65 LBS	CURB	21.000"W X 71.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.

FAN SOUND DATA

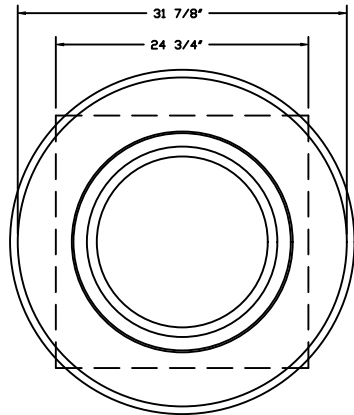
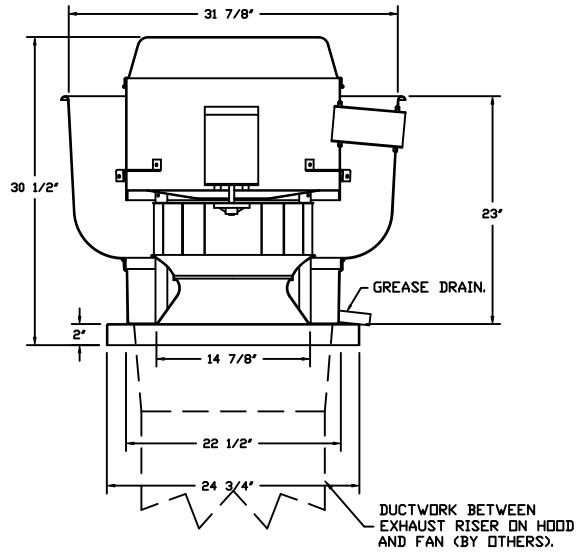
FAN UNIT NO	TAG	MOTOR	SOUND DATA			OCTAVE BAND SOUND DATA								
			LWA	SONES @ 5 FT	DBA @ 5 FT	DISTANCE (FT)	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ
1	10' HEATED	EXHAUST	80.5	17.1767011270497	69	5	81.2	81.2	84.9	76.8	72.9	71.1	67.8	61.6
2	10' HEATED	SUPPLY	80.7	17.4166191586207	69.2	5	76.5	83.4	81	77.9	73.8	72.2	71.5	67.3



FloAire

JOB10' Heated UC Left** Hood Stock	
LOCATION ,	
DATE 3/20/2023	JOB # 5910261
DWG # 4	DRAWN BY courtneyh
REV.	SCALE 3/8" = 1'-0"

FAN #1 DU85H - EXHAUST FAN (10' HEATED)



TOP VIEW

FEATURES:

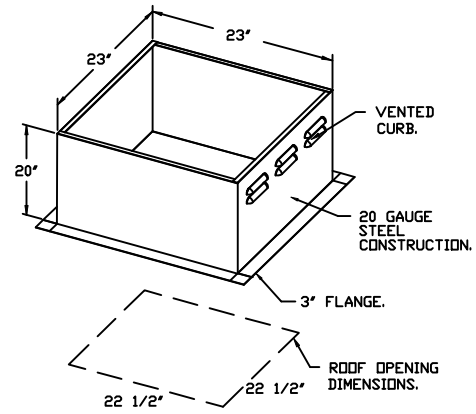
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS.
- ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL
- MSC- (TELCO), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.

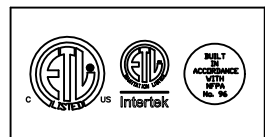
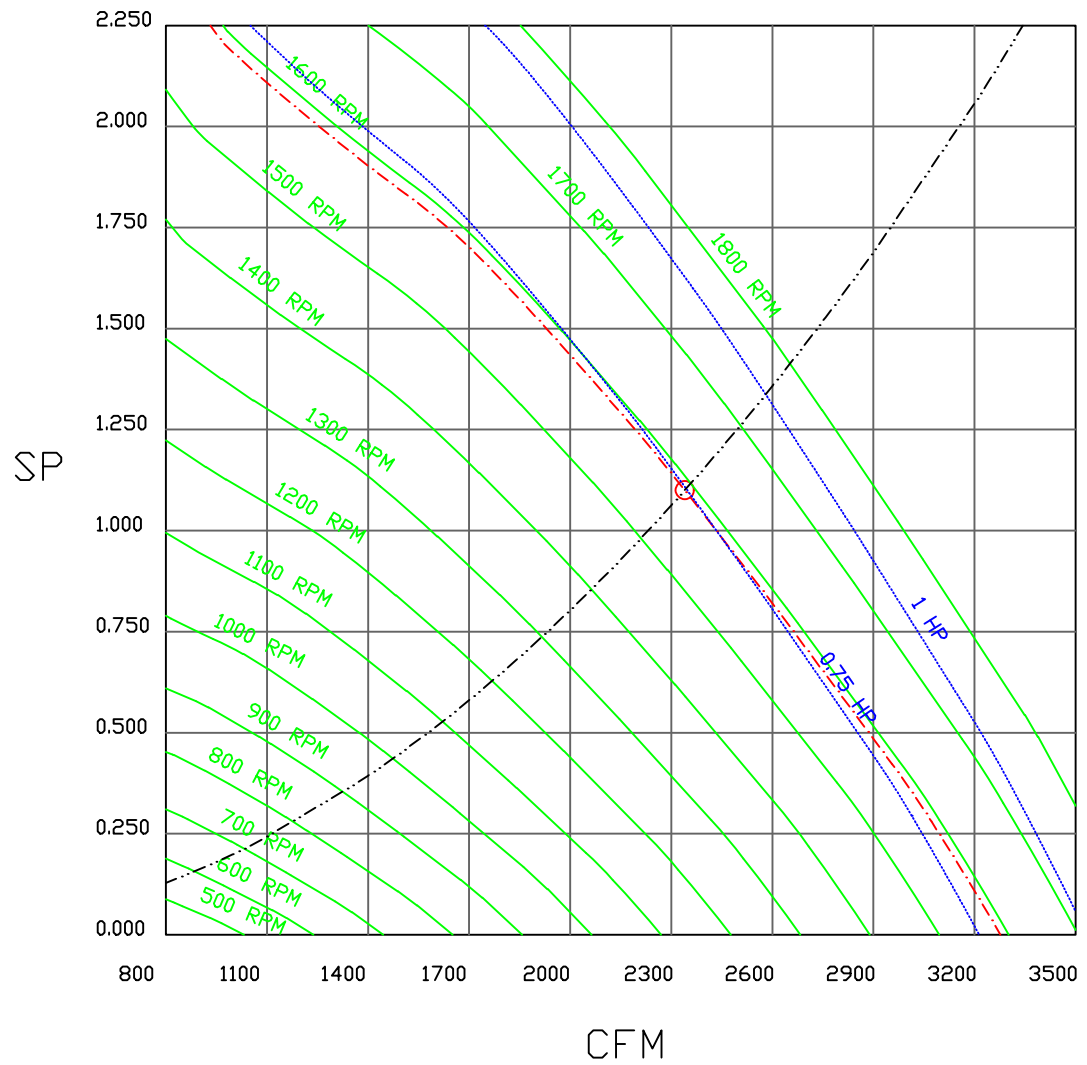


FloAire

JOB10' Heated UC Left** Hood Stock	
LOCATION ,	
DATE 3/20/2023	JOB # 5910261
DWG # 5	DRAWN BY courtneyh
REV.	SCALE 3/8" = 1'-0"

FAN#1 (10' HEATED) - EXHAUST PERFORMANCE CURVES.

2340 CFM, 1.1 SP @ 1588 RPM AND 0.724 BHP AT 0 FEET AND 120 DEG F.
 * PLEASE NOTE THAT THESE CURVES WERE ADJUSTED FOR JOB SPECIFIC TEMPERATURE AND ALTITUDE.

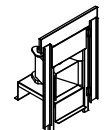


FloAire

JOB10' Heated UC Left** Hood Stock	
LOCATION ,	
DATE 3/20/2023	JOB # 5910261
DWG # 6	DRAWN BY courtneyh
REV.	SCALE 3/8" = 1'-0"

- FAN #2 F1-D500-15D - HEATER (10' HEATED)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15' MIXED FLOW DIRECT DRIVE FAN.
 2. INTAKE HOOD WITH E2 FILTERS.
 3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
 4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 DIRECT DRIVE AHUS.
 5. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
 6. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
 7. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
 8. SHIP LOOSE GAS STRAINER. TO BE INSTALLED UPSTREAM OF UNIT CONNECTION. 3/4" CONNECTION.
 9. 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.
 10. FREEZE STAT WITH 10' SENSOR. FACTORY SET AT 35°F AND 10 MINUTES.
 11. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
 12. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
 13. 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 14" x 14".



DIRECT FIRED GAS PROFILE PLATE ASSEMBLY

GENERAL INFORMATION:

DIRECT FIRED BURNER SHALL HAVE PATENTED AIR PATENT NO. UNIMPROVED, SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PREVENT SMOG ACROSS THE BURNER. PROFILE PLATES SHALL ALSO PROVIDE TO REMOVE CLEAN COMBUSTION BY LIMITING TO PRODUCT LEVELS TO A MINIMUM OF 10% OF COMBUSTION GAS. THIS LIMITS TO 10% OF COMBUSTION GAS. THIS LIMITS TO 10% OF COMBUSTION GAS. THIS LIMITS TO 10% OF COMBUSTION GAS.

OPERATION:

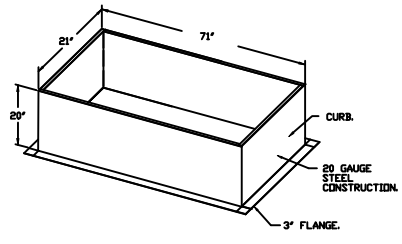
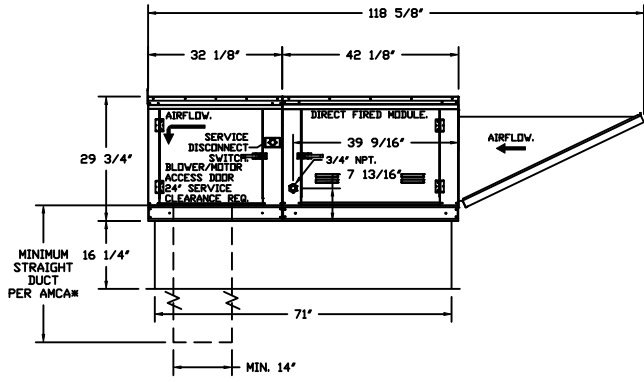
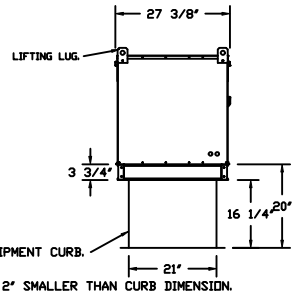
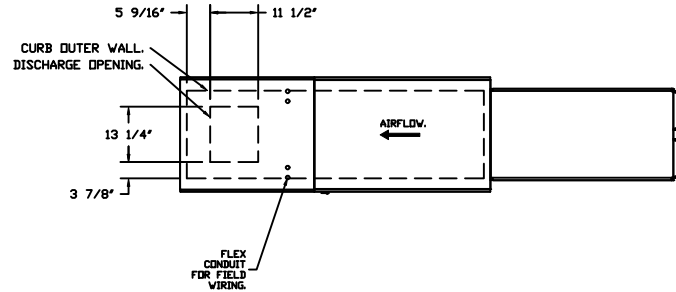
OPERATION: DIRECT FIRED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE PRESENCE OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY ADJUSTMENT TO MANUALLY ADJUST THEM WITH THE FRESH AIR. ALL OF THESE ARE REQUIRED FOR BURNER CONTROL, VENTILATION AND AIR QUALITY.

CONSTRUCTION:

CONSTRUCTION: PROFILE PLATES SHALL BE FORMED FROM 304 GALVANIZED STEEL. PROFILE PLATES SHALL BE 1/8" PER SIDE. PROFILE PLATES SHALL BE 1/8" PER SIDE. PROFILE PLATES SHALL BE 1/8" PER SIDE. PROFILE PLATES SHALL BE 1/8" PER SIDE.

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 0°F. TEMP. RISE = 70°F.
 BTUs CALCULATED OFF ACTUAL AIR DENSITY.
 OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 141317.
 INPUT BTUs AT ALTITUDE OF 0.0 FT. = 153605.

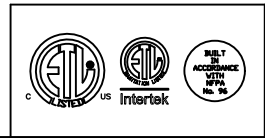
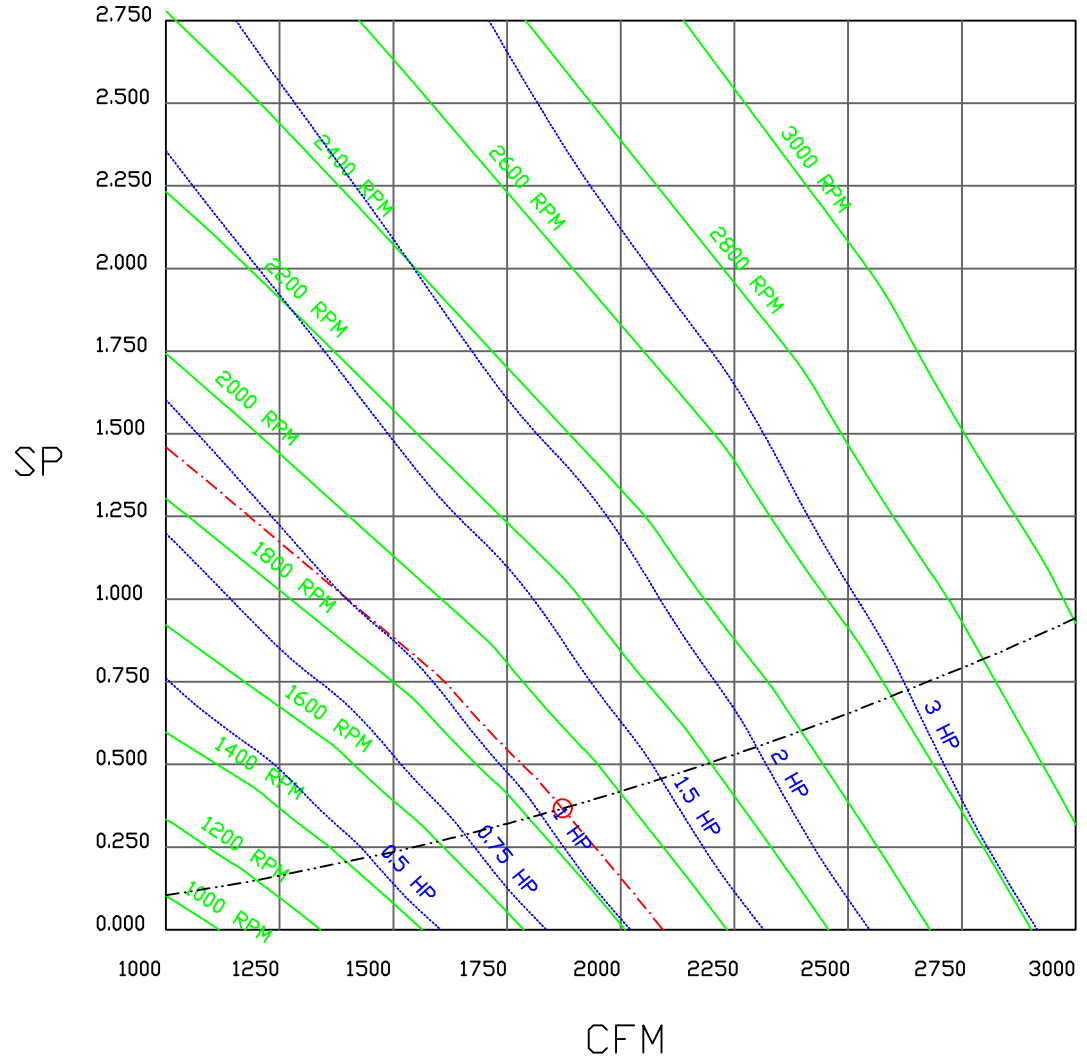


FloAir

JOB10' Heated UC Left** Hood Stock	
LOCATION ,	
DATE 3/20/2023	JOB # 5910261
DWG # 7	DRAWN BY courtneyh
REV.	SCALE 1/4" = 1'-0"

FAN#2 (10' HEATED) - HEATER PERFORMANCE CURVES.

1872 CFM, 0.367 SP @ 1874 RPM AND 1.081 BHP AT 0 FEET AND 70 DEG F.
 * PLEASE NOTE THAT THESE CURVES WERE ADJUSTED FOR JOB SPECIFIC TEMPERATURE AND ALTITUDE.



FloAire

JOB10' Heated UC Left** Hood Stock	
LOCATION ,	
DATE 3/20/2023	JOB # 5910261
DWG # 8	DRAWN BY courtneyh
REV.	SCALE 3/8" = 1'-0"



GREASE DUCT & CHIMNEY SPECIFICATIONS:

PROVIDE GREASE DUCT EQUAL TO FLOAIRE MODEL "FDW"
ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "FDW"
IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING
CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "FDW"
DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER
THE MANUFACTURES INSTALLATION GUIDE.

PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER.
PER MANUFACTURES LISTING MODEL "FDW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE
SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12".
DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE
ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE
UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY
EQUAL TO FLOAIRE MODEL "FDW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430
STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED	<input type="checkbox"/>
APPROVED WITH NO EXCEPTION TAKEN	<input type="checkbox"/>
REVISE AND RESUBMIT	<input type="checkbox"/>
SIGNATURE _____	
YOUR TITLE _____	DATE _____



FloAire

JOB10' Heated UC Left** Hood Stock	
LOCATION ,	
DATE 3/20/2023	JOB # 5910261
DWG # 9	DRAWN BY courtneyh
REV.	SCALE 3/8" = 1'-0"

GREASE BOX INSTALLATION

GREASEBOX
REV.#2 08/19/02

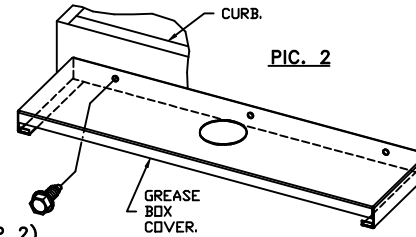
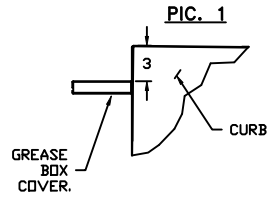
PARTS INCLUDED

- GREASE BOX.
- GREASE BOX COVER.
- GREASE PIPE.
- SHEET METAL SCREWS
3 - LONG (3/4" LG.).

GREASE BOX FIELD INSTALLATION

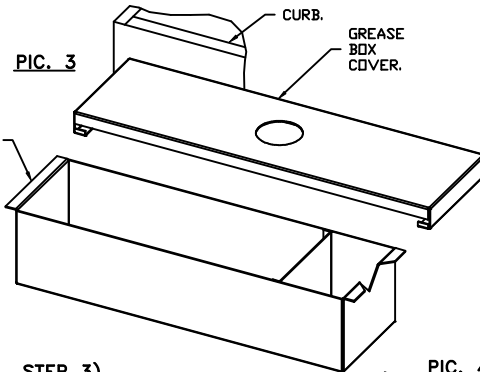
STEP 1)

ATTACH GREASE BOX COVER TO THE CURB, HOLD 3" DIMENSION AS SHOWN ON PIC. 1. SCREW GREASE BOX COVER TO CURB USING (3) LONG (3/4" LG.) SCREWS AS SHOWN ON PIC. 2.



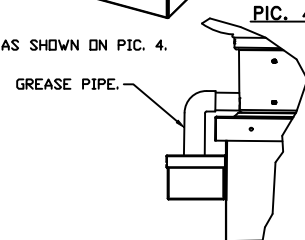
STEP 2)

ATTACH GREASE BOX TO GREASE BOX COVER, SLIDE AND DROP AS SHOWN ON PIC. 3.

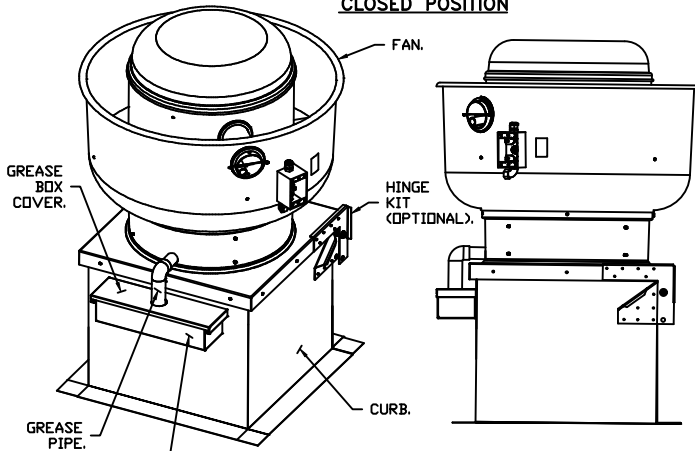


STEP 3)

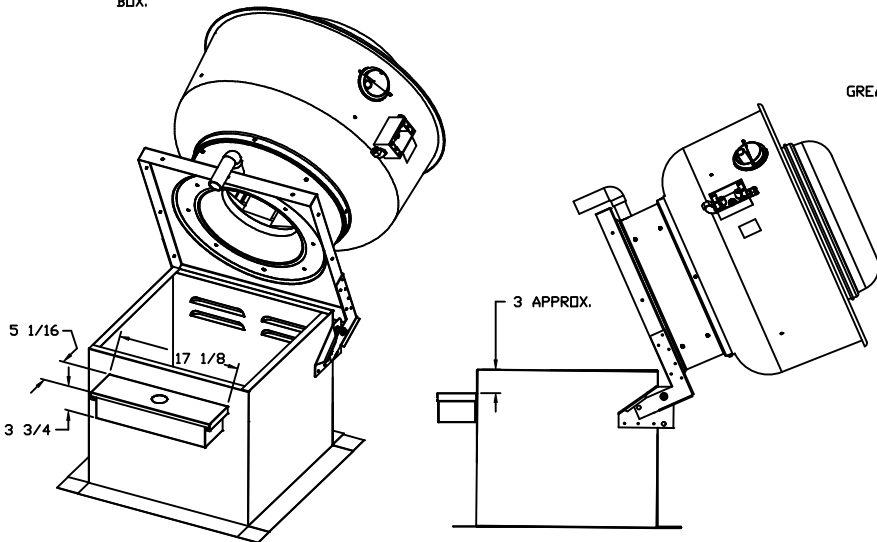
INSTALL GREASE PIPE AS SHOWN ON PIC. 4.



CLOSED POSITION



OPEN POSITION



*NOTE: UL 705 INSTALL.



FloAire

JOB10' Heated UC Left** Hood Stock	
LOCATION ,	
DATE 3/20/2023	JOB # 5910261
DWG # 10	DRAWN BY courtneyh
REV.	SCALE 3/8" = 1'-0"

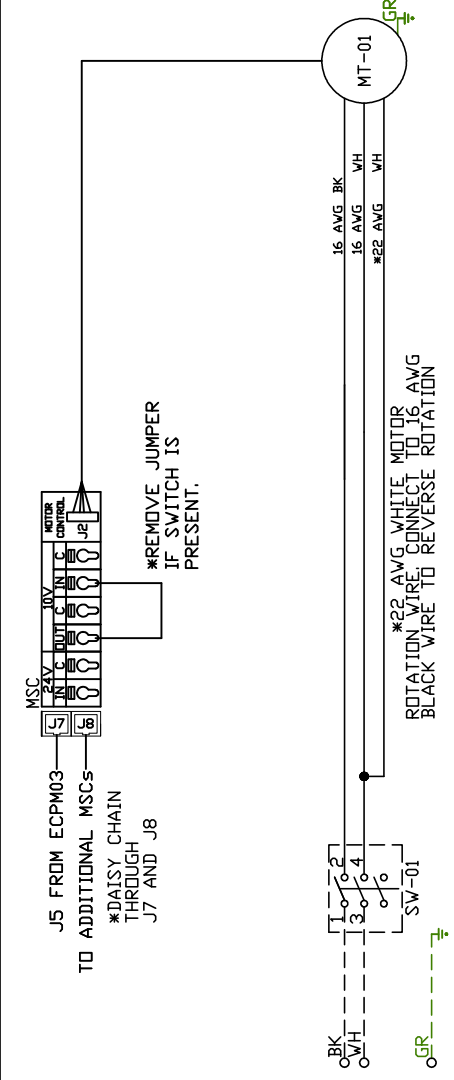
Exhaust Fan Wiring

JOB 5910261 - 10' Heated UC Left** Hood Sto...

DRAWING NUMBER EXH5910261-1

SHIP DATE 3/20/2023

MODEL DUB5H



1
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Installed Options

Component Identification Location

- Label Description Location
- MT-01 Fan Motor [3]
- MSC Motor Speed Controller [1]
- SW-01 Main disconnect switch [3]

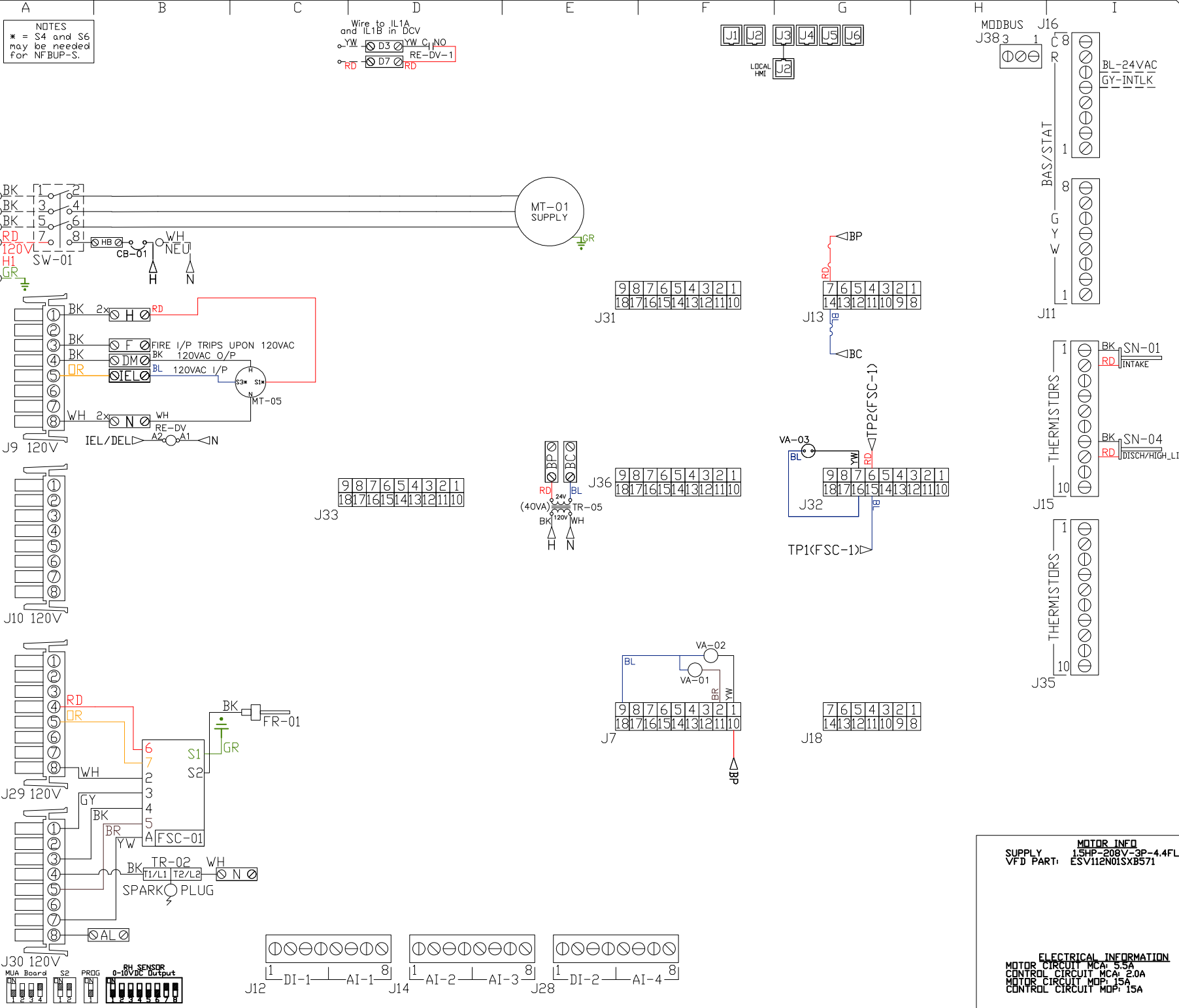
EXHAUST MOTOR INFO
1HP-115V-IP-11.6FLA

ELECTRICAL INFORMATION
MOTOR/CTRL MCA: 14.5A
MOTOR/CTRL MOP: 25A

NOTES
--- DENOTES FIELD WIRING
--- DENOTES INTERNAL WIRING

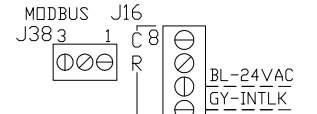
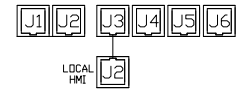
WIRE COLOR

- BK - BLACK
- BL - BLUE
- BR - BROWN
- DR - ORANGE
- RD - RED
- WH - WHITE
- YW - YELLOW
- GR - GREEN
- GY - GRAY
- PR - PURPLE
- PK - PINK



NOTES
 * = S4 and S6 may be needed for NFBUP-S.

Wire to IL1A and IL1B in DCV
 YW D3 YW C1 NO
 RD D7 RD RE-DV-1



COMPONENT LIST		
LABEL	DESCRIPTION	
CB-01	CIRCUIT_BREAKER	B3
FR-01	EVD/ECH-ACU+S11-MP	B8
FSC-01	FIREYE_FLAME_SAFETY	B8
MT-01	SUPPLY_MOTOR	E3
MT-05	INTAKE_DAMPER_MTR	C4
RE-DV	DCV_RELAY	B5/D1
SN-XX	TEMP_SENSOR	14/15/16/17
SW-01	DISCONNECT_SWITCH	A3
TR-02	IGNITION_TRANSFMR	B9
TR-05	BOARD_POWER_TRFMR	E5
VA-01	PILOT_GAS_VALVE	F7
VA-02	MAIN_GAS_VALVE	F7
VA-03	MOD_GAS_VALVE	G5

LEGEND	
---	FIELD WIRING
---	FACTORY WIRING
BK-	BLACK
BR-	BROWN
OR-	ORANGE
WH-	WHITE
DR/BL-	DR/BL STRIPE
BL/RD-	BL/RD STRIPE
RD/GR-	RD/GR STRIPE
WH/BL-	WH/BL STRIPE
YW-	YELLOW
GY-	GREY
PR-	PURPLE
GR-	GREEN

MOTOR INFO
 SUPPLY 1.5HP-208V-3P-4.4FLA
 VFD PART: ESV112N015XB571

ELECTRICAL INFORMATION
 MOTOR CIRCUIT MCA: 5.5A
 CONTROL CIRCUIT MCA: 2.0A
 MOTOR CIRCUIT MDP: 15A
 CONTROL CIRCUIT MDP: 15A

JOB NAME	
10' Heated UC L...	
DRAWING TITLE	
DESCRIPTION OF OPERATION	
(DETAILS TO FOLLOW)	
JOB NO	DRAWN BY
5910261	AUTO
TYPE	DATE
FACTORY	3/20/2023
DWG MW5910261-2	

Installation Wiring

DRAWING NUMBER RP5910261-2

JOB

5910261 - 10' Heated UC Left** Hood Sto...

SHIP DATE 3/20/2023

MODEL F1-D.500-15D

120 V 1 PH.



Gal-flex conduit (in unit)

Factory wiring

Customer supplied wiring
WH GR BK

240 V 1 PH.

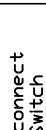


Gal-flex conduit (in unit)

Factory wiring

Customer supplied wiring
RD GR BK

208/460/600 V 3 PH.



Gal-flex conduit (in unit)

Factory wiring

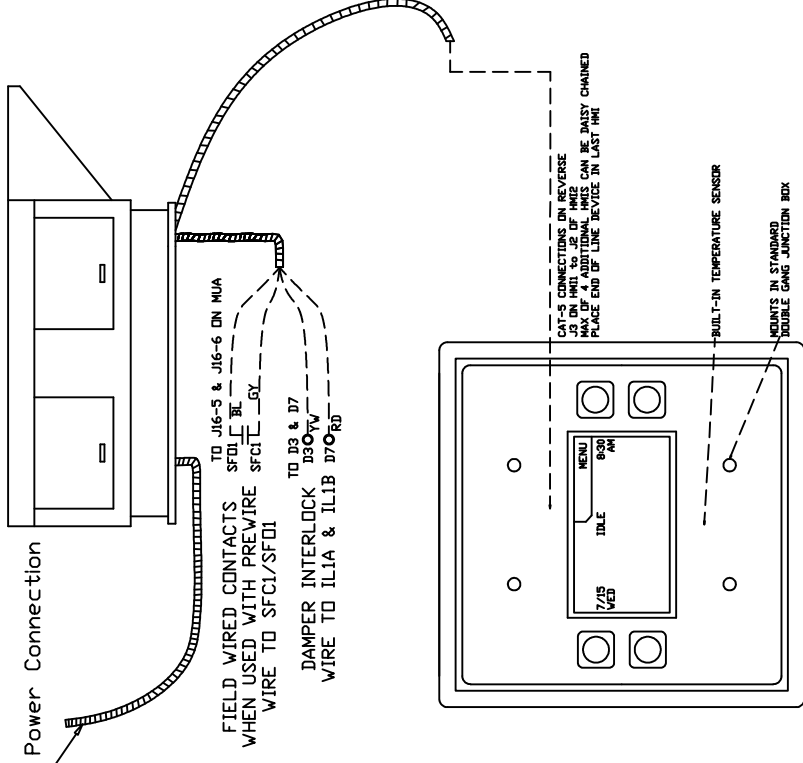
Customer supplied wiring
RD WH GR BK

Field Wired Switch

Installed Options

STANDING POWER
RD & WH Wire (115V, 1 PHASE)

See above details.



NOTES

WIRE COLOR

BK	-	BLACK	YW	-	YELLOW
BL	-	BLUE	GR	-	GREEN
BR	-	BROWN	GY	-	GRAY
OR	-	ORANGE	PR	-	PURPLE
RD	-	RED	PK	-	PINK
WH	-	WHITE		-	

ELECTRICAL PACKAGE - JOB#5910261

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	φ	HP	VOLT	FLA
1	10' Heated	SC-311110MA	UTILITY CABINET LEFT	FACE MOUNT RIGHT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	10' Heated	EXHAUST	1	1.000	115	11.6
				SIDE OF HOOD			10' Heated	SUPPLY	3	1.500	208	4.4
				HOOD # 1	1 FAN							



FloAire

JOB 10' Heated UC Left** Hood Stock	
LOCATION	
DATE 3/20/2023	JOB # 5910261
DWG # 14	DRAWN BY courtneyh
REV.	SCALE 3/8" = 1'-0"

JOB NO
5910261

MODEL NUMBER
SC-31110MA

DRAWN BY
INSTALL

DESCRIPTION OF OPERATION:

JOB NAME
10' Heated UC Left Hood Sto...

DATE
3/20/2023

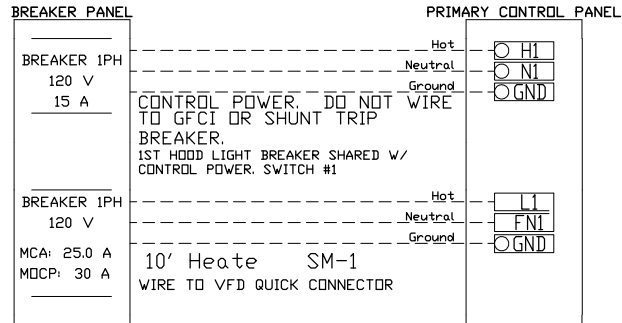
DWG NO
ECP #1-1

3 Phase w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on In Fire, Lights out in Fire, Relay On/Off with Supply Fan, Fan(s) On/Off Thermostatically Controlled, Room temperature sensor shipped loose for field installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.

BREAKER PANEL TO PRIMARY CONTROL PANEL

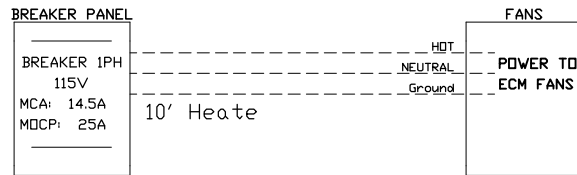
Responsibility: Electrician

BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



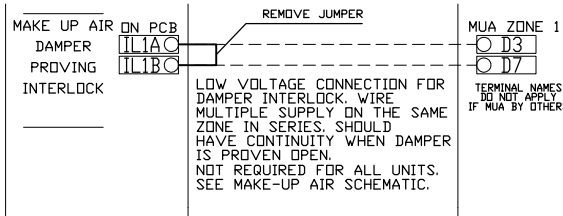
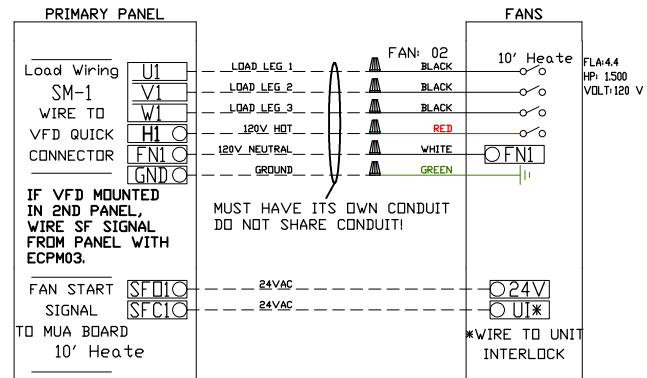
BREAKER PANEL TO FANS

Responsibility: Electrician



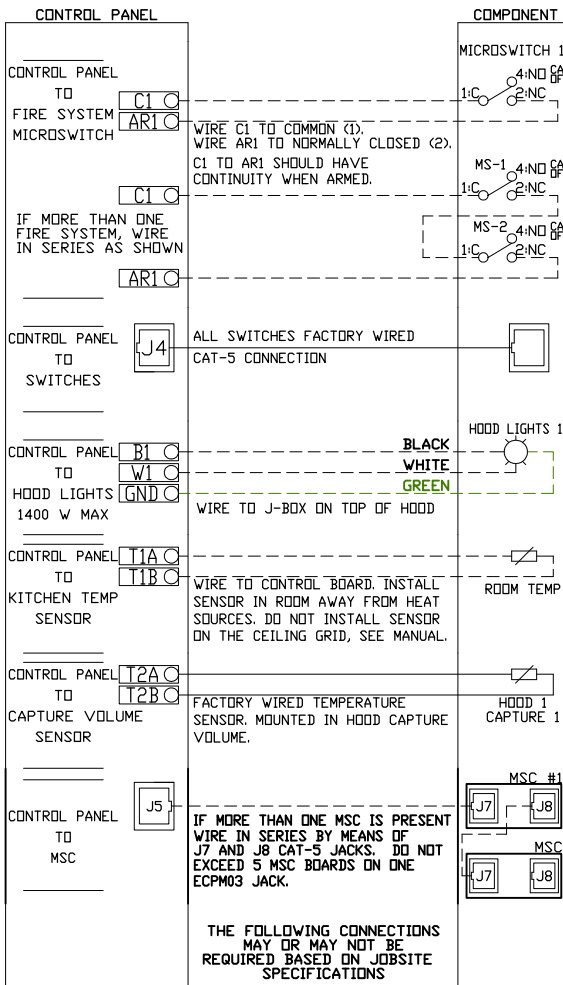
CONTROL PANEL TO FANS

Responsibility: Electrician

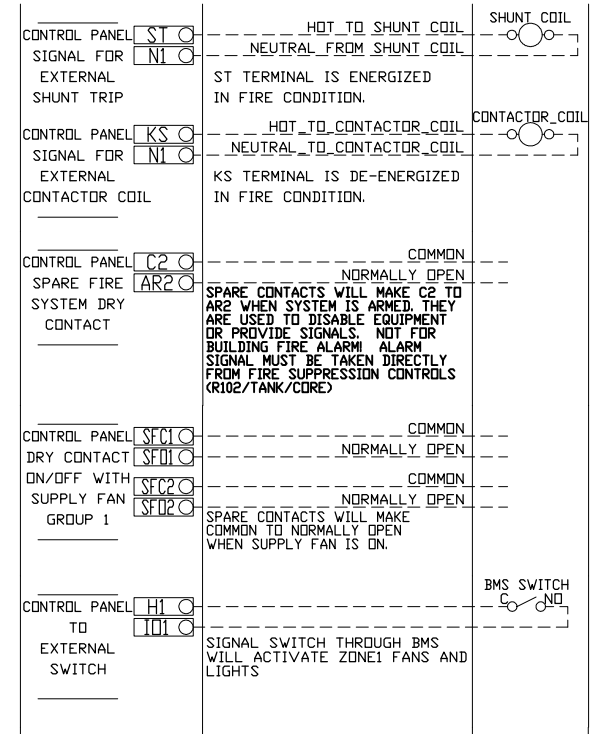


CONTROL PANEL TO ACCESSORY ITEMS

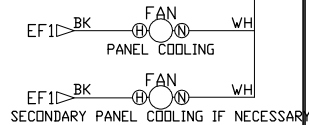
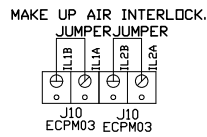
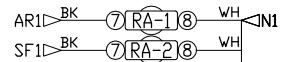
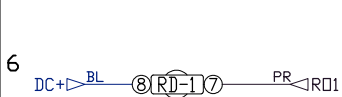
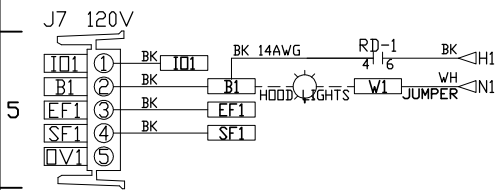
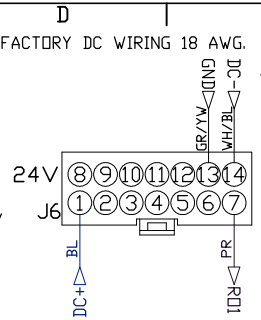
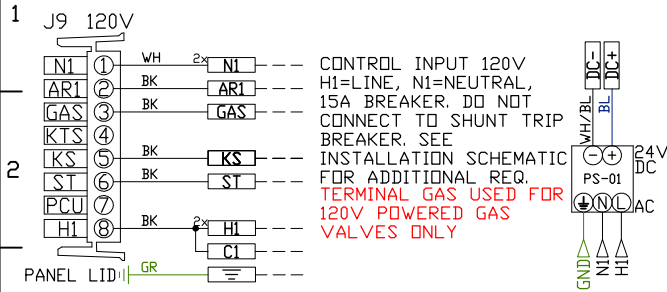
Responsibility: Electrician



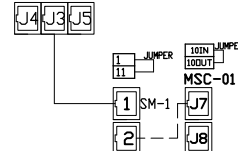
THE FOLLOWING CONNECTIONS MAY OR MAY NOT BE REQUIRED BASED ON JOBSITE SPECIFICATIONS



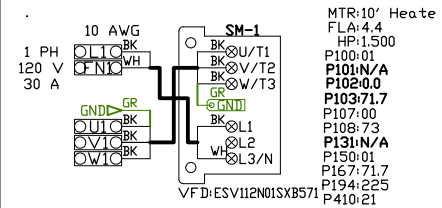
UNLESS SPECIFIED OTHERWISE, ALL FACTORY AC WIRING 16 AWG. ALL FACTORY DC WIRING 18 AWG.



NOTE: All items on ECPM03 J3 line to be daisy chained from one component to the next, with EOL120A at end of line. Place PN: EOL120A in empty RJ45 port.
ECPM03/DAISY CHAIN



MOTOR POWER CIRCUIT



FACTORY WIRING SCHEMATIC CIRCUIT BOARDS

DCV Rev. 2.14.00
HMI Rev. 2.14.00

RA-x 120 VAC RELAY	RD-x 24 VDC RELAY
NO 4 3 NC 2 1 COM 6 5	NO 4 3 NC 2 1 COM 6 5

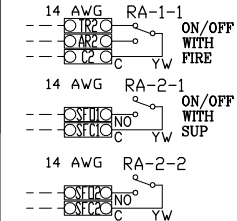
COMPONENT LIST

LABEL	DESCRIPTION
ST-x	Starter PN: varies
OL-x	Overload PN: varies
C-x	Contactor PN: varies
PS-1	Power Sup. 24VDC PN: MDP18-24A-1C
RA-x	120V Relay DPDT PN: 34.10.0184.0
RD-x	24VDC Light Relay PN: 34.10.0188.0
TS-x	Duct Thermostat PN: A/CP-PD-T4'-EXPL

LEGEND

---	FIELD WIRING
---	FACTORY WIRING
BK-	BLACK
BL-	BLUE
BR-	BROWN
DR-	DRANGE
WH-	WHITE
DR/BL-	DR/BL STRIPE
BL/RD-	BL/RD STRIPE
RD/GN-	RD/GN STRIPE
WH/BL-	WH/BL STRIPE
YW-	YELLOW
GY-	GREY
PR-	PURPLE
RD-	RED

DRY CONTACTS (SHOWN DE-ENERGIZED)



JOB NAME

10' Heated UC Le...

DRAWING TITLE
SC-31110MA

DESCRIPTION OF OPERATION
3 Phase w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Relay On/Off with Supply Fan, Fans) On/Off Thermostatically Controlled. Room temperature sensor shipped loose for field installation. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.

JOB NO 5910261	DRAWN BY
TYPE FACTORY	DATE 3/20/2023
DWG NO ECP #1-2	