

HOOD INFORMATION

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)							HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP		END TO END	ROW
1	H-1	4824 ZVS-ND-2	Z-VENTILATION	4' 0"	450 DEG	I	MEDIUM	150	600			4'	10'	600	1100	-0.122"	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		
												TYPE	SIZE	MODEL #	QUANTITY		
1	H-1	SS BAFFLE WITH HANDLES	2	20"	20"	30%	2	L55 SERIES E26	NO	RIGHT	12"x48"x24"	ANSUL R102 UTIL CABINET PARTS	3.0	SC-110110FP	1 LIGHT 1 FAN	NO	352 LBS

HOOD OPTIONS

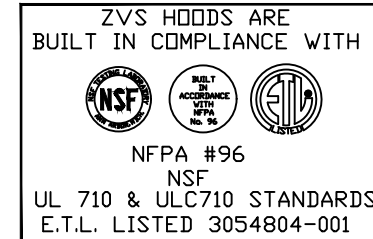
HOOD NO	TAG	OPTION
1	H-1	FIELD WRAPPER 16.00' HIGH FRONT, LEFT, RIGHT. SENSOR-CV.

FIRE SYSTEM INFORMATION

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1	FS-1	ANSUL R102 UTIL CABINET PARTS	3.0	0	FIRE CABINET RIGHT	RIGHT, HOOD 1

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1	FS-1	0 - 0 - TANK STRAP TANK STRAP - USED FOR ANSUL TANKS.	1	0
		0 - 0 - UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS.	1	0
		1 - 1 - AT - 3.0 TANK(#1B) - 3.0 GALLON SS TANK (FOR USE WITH AUTOMAN RELEASE, ACTUATOR, OR SS ENCLOSURE (UL/ULC)) MACOLA # 01-429862.	0	1
		3 - 3 - ANS-DEM REGULATED RELEASE - ANSUL REGULATED MECHANICAL RELEASE/BRAKET ASSEMBLY, DEM, R-102, CARTRIDGE DETECTION INCLUDED, ANSUL PART # 79493.	1	0
		5 - 5 - LIQ-3.0 AGENT - ANSULEX LOW PH WET CHEMICAL AGENT, 3 GALLON (UL) 79372.	0	1
		7 - 7 - 101-20 CARTRIDGE - CARBON DIOXIDE 101-20, 3 GALLON CARTRIDGE (R-102).	0	1
		10 - 10 - TLINK LINK - TEST LINK (1 TEST LINK) ANSUL PART # 24916, MACOLA # 20-24916.	0	1
		11 - 11 - MICRO-SDA MICROSWITCH KIT- INCLUDES 2 SWITCHES AND MOUNTING HARDWARE. SINGLE DUAL ELECTRIC SWITCH, ONE STANDARD SWITCH, ONE ALARM DUTY SWITCH ANSUL PART # 437155, MACOLA # 08-437155.	1	0
		27 - 27 - QPSA-1/2 PULLEY SEAL - 1/2" HOOD SEAL (UL) ANSUL PART # 423253, MACOLA # 32-79768.	0	1
		34 - 34 - RPS-A REMOTE PULL STATION - RED COMPOSITE (WITHOUT WIRE ROPE) 434618 (OLD MACOLA #06-4835).	0	1
		35 - 35 - PE-LT PULLEY ELBOW - LOW TEMP. PULLEY ELBOW, SET SCREW TYPE ANSUL PART # 415670, MACOLA # 11-415671.	0	2
		36 - 36 - PE-HT PULLEY ELBOW - HIGH TEMP PULLEY ELBOW, COMPRESSION TYPE, ANSUL PART # 423251, MACOLA # 10-45771.	0	1
		ADDITIONAL PARTS TO BE DETERMINED...		

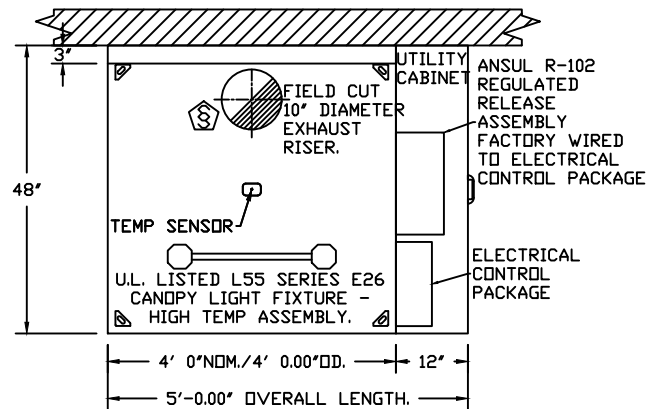


ETL LISTING DESCRIPTION BLOCK
THE Z-VENTILATION SOLUTIONS
MODEL ZVS-ND-2 HAS BEEN E.T.L.
TESTED, LISTED, AND APPROVED
TO EXHAUST A MINIMUM OF
150 CFM PER LINEAR FOOT OVER
450 DEGREE COOKING EQUIPMENT

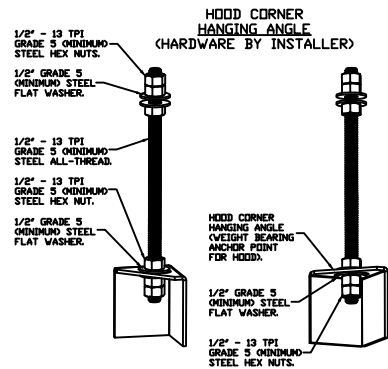
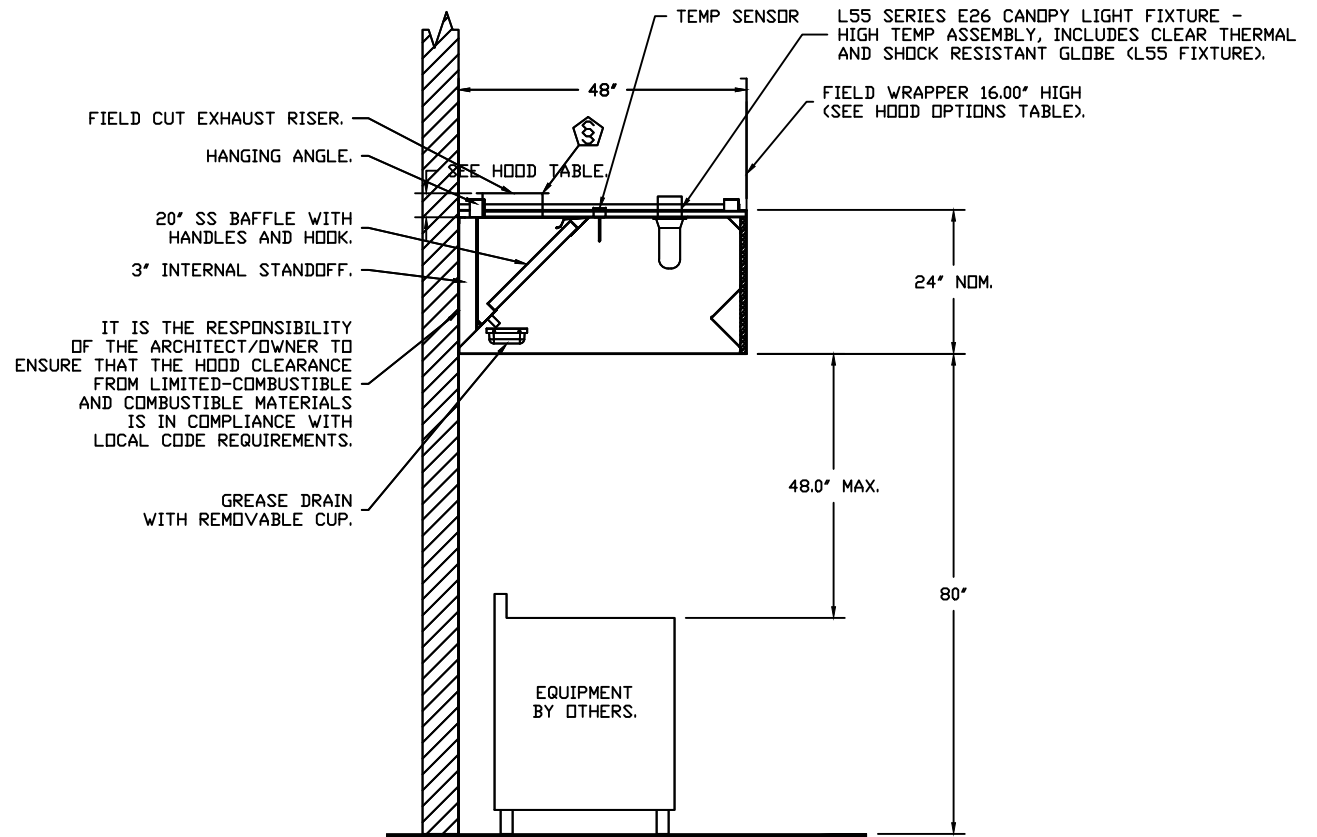


ZVentilation
SOLUTIONS

JOB 9540	
LOCATION	
DATE	JOB #
DWG # 1	DRAWN BY
REV.	SCALE NOT TO SCALE



PLAN VIEW - HOOD #1 (H-1)
4' 0.00" LONG 4824ZVS-ND-2



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.

SECTION VIEW - MODEL 4824ZVS-ND-2
HOOD - #1 (H-1)



ZVentilation
SOLUTIONS

JOB 9540	
LOCATION	
DATE	JOB #
DWG # 2	DRAWN BY
REV.	SCALE 3/8" = 1'-0"

EXHAUST FAN INFORMATION

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	KEF-1	1	ZVS-DU50HFA	Z-VENTILATION	600	0.500	1031	TEAD-ECM	0.500	0.1130	1	115	6.3	228 FPM	75	10.4

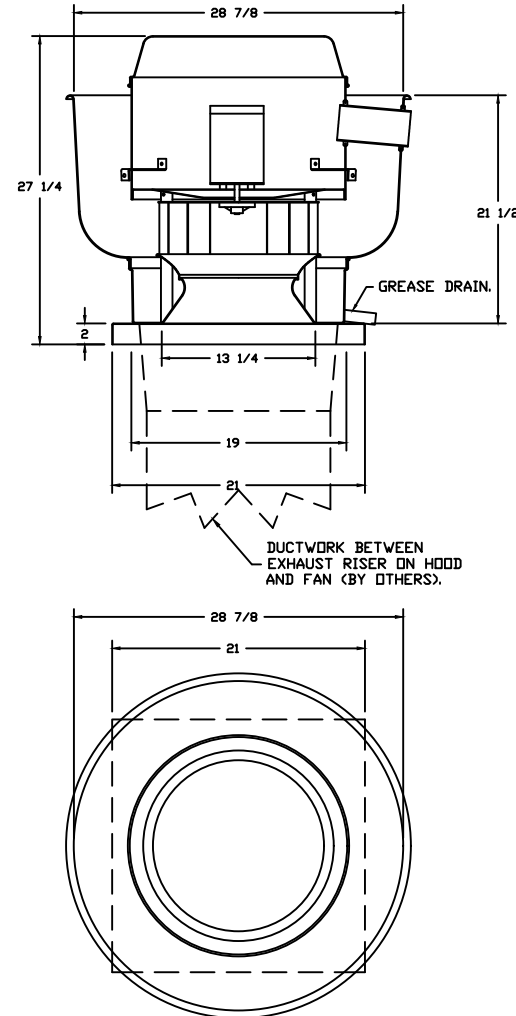
FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX (BY CURB MANUFACTURER).
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
		1	HINGE KIT (BY CURB MANUFACTURER).
		1	REMOVE HINGE KIT LABEL FROM THE FAN BASE.
		1	WALL MOUNT CONSTRUCTION FOR FAN.
		1	ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCD), CCW ROTATION.
		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	KEF-1	YES		YES				

FAN #1 ZVS-DU50HFA - EXHAUST FAN (KEF-1)



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.
FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS.
REMOVE HINGE KIT LABEL FROM THE FAN BASE.
WALL MOUNT CONSTRUCTION FOR FAN.
ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCD), CCW ROTATION.
2 YEAR PARTS WARRANTY.



ZVentilation
SOLUTIONS

JOB 9540

LOCATION

DATE

DWG # 3

REV.

JOB #

DRAWN BY

SCALE NOT TO SCALE

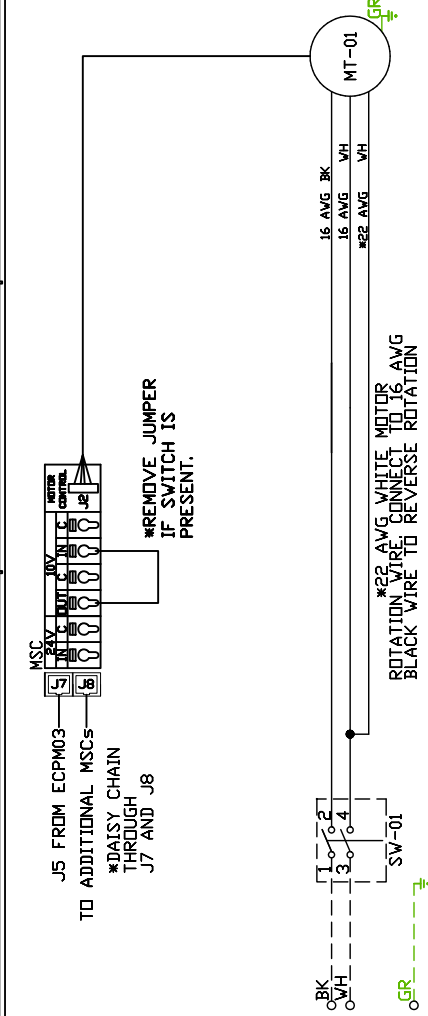
Exhaust Fan Wiring

JOB

DRAWING NUMBER EXH4824206-1

SHIP DATE

MODEL ZVS-DU50HFA



Installed Options

Label Description Location

MT-01 Fan Motor [3]

MSC Motor Speed Controller [1]
SW-01 Main disconnect switch [3]

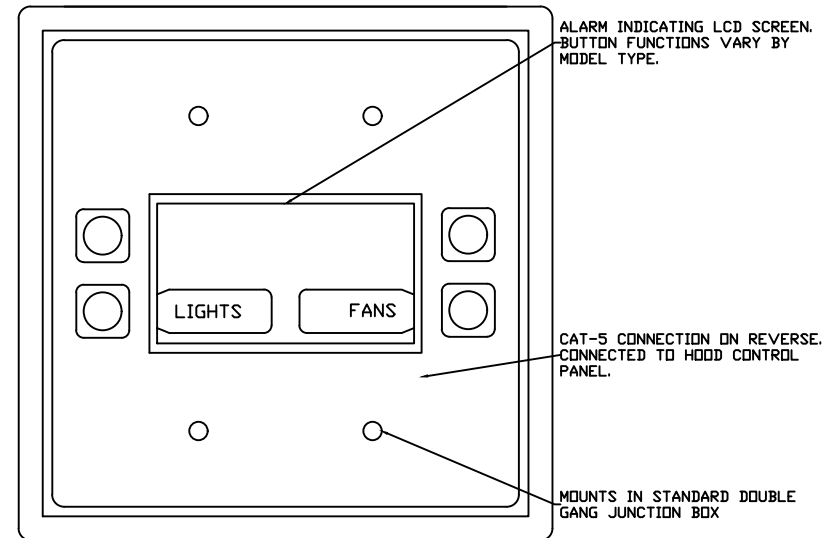
EXHAUST MOTOR INFO
0.5HP-115V-1P-6.3FLA

ELECTRICAL INFORMATION
MOTOR/CTRL MOP: 7.5A
MOTOR/CTRL MOP: 1.5A

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

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

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG		TYPE	φ	HP	VOLT
1	ECP-1	SC-110110FP	UTILITY CABINET RIGHT	04 - UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL	KEF-1	EXHAUST	1	0.500	115	6.3
			HOOD # 1	1 FAN								

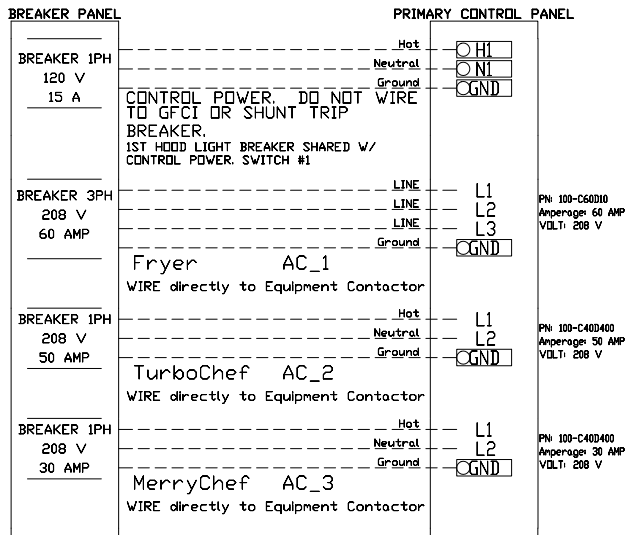


SCALE NOT TO SCALE

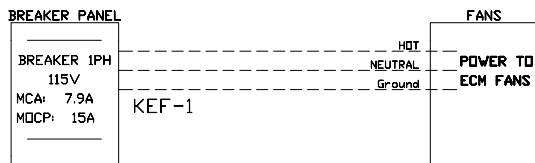
JOB NO	MODEL NUMBER	SC-110110FP	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION: 120V 1 Phase w/ control for 1 Exhaust Fan, Exhaust on in Fire, Lights out in Fire, Fan(s) On/Off Thermostatically Controlled. Room temperature sensor shipped loose for field installation.
	JOB NAME		DATE	INSTALL DWG NO ECP #1-1	

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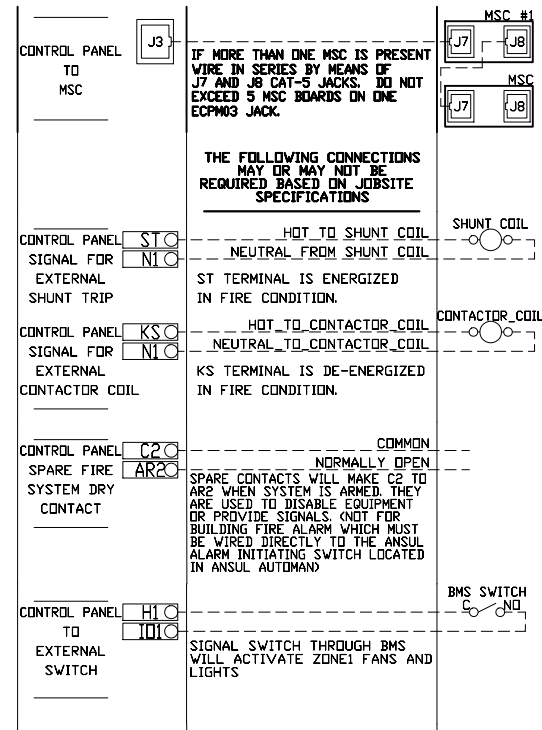
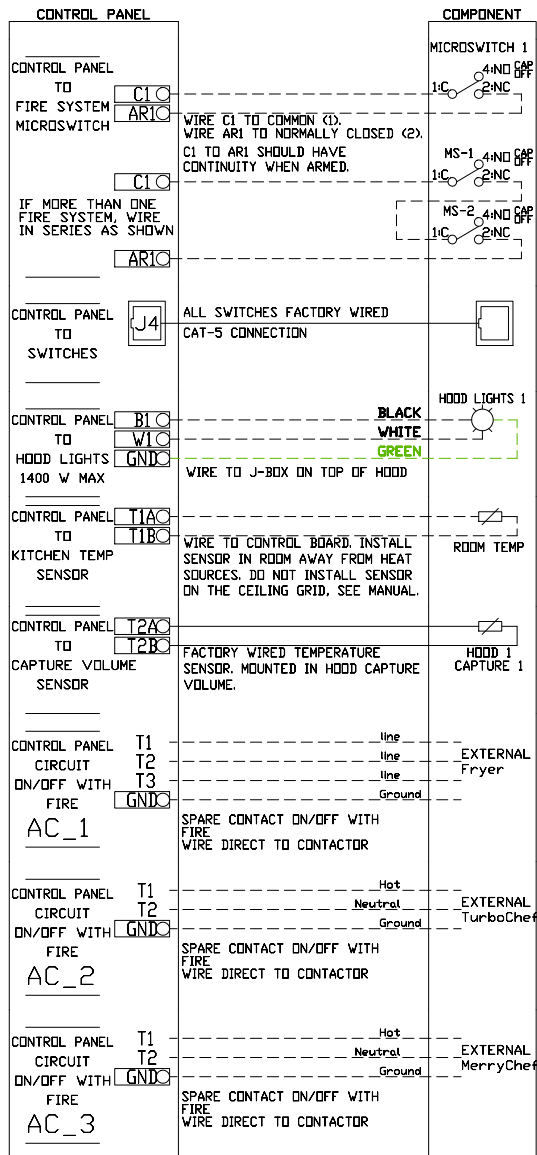
BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED

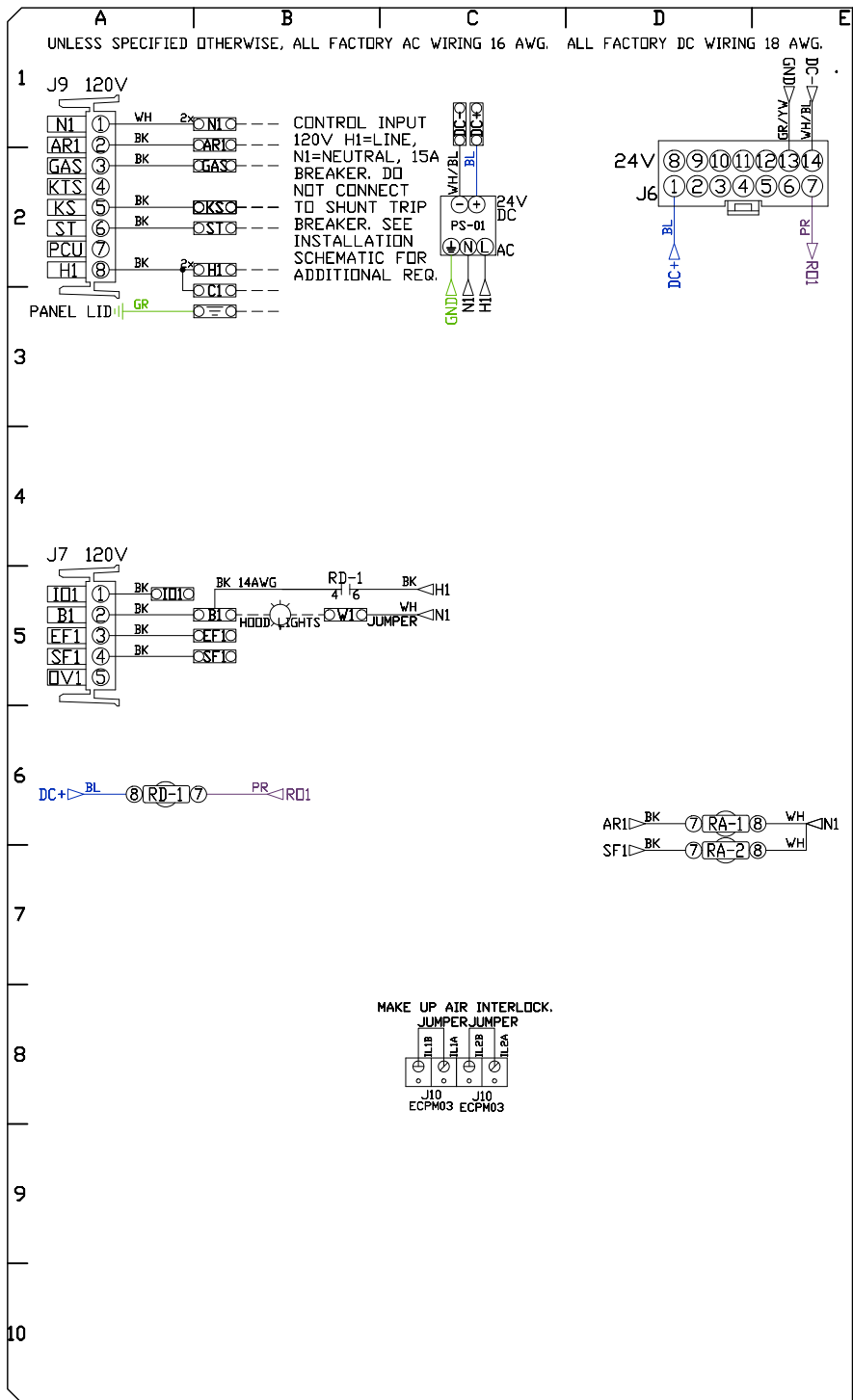


BREAKER PANEL TO FANS
Responsibility: Electrician



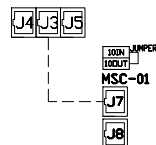
CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician





NOTE: All items on ECPM03 J3 line to be daisy chained from one component to the next, with EDLI20A at end of line. Place PN EDLI20A in empty RJ45 port.

ECPM03/DAISY CHAIN



FACTORY WIRING SCHEMATIC CIRCUIT BOARDS

RA-x	RD-x
120 VAC	24 VDC
RELAY	RELAY
NO 4 3	NO 4 3
NC 2 1	NC 2 1
COIL 8 7	COIL 8 7
COM 6 5	COM 6 5

COMPONENT LIST

LABEL	DESCRIPTION
ST-X	Starter varies
OL-X	Overload varies
C-X	Contactors varies
PS-1	Power Sup. 24VDC NIPB-24A-1C
RA-x	120V Relay DPDT 34110084J
RD-x	24VDC Light Relay 341100880
TS-x	Duct Thermostat A/DP-PE-142-EXPL

LEGEND

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

JOB NAME

DRAWING TITLE
SC-110110FP

DESCRIPTION OF OPERATION
120V 1 Phase w/ control For 1 Exhaust Fan, Exhaust on In Fire, Lights out In Fire, Fan(s) On/Off Thermostatically Controlled. Room temperature sensor shipped loose for field installation.

JOB NO

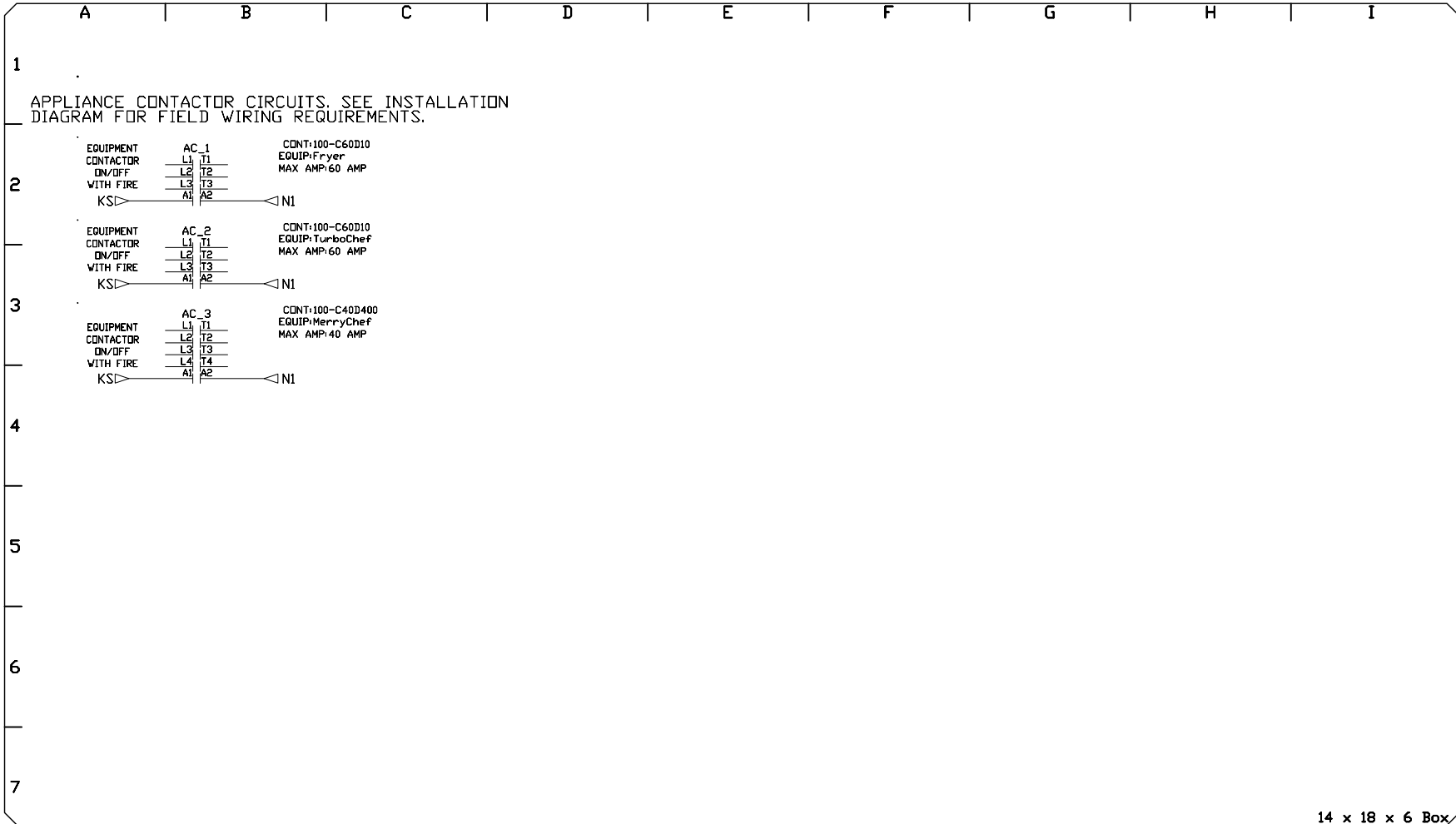
DRAWN BY

TYPE
FACTORY

DATE

14 x 18 x 6 Box

DWG NO ECP #1-2



**FACTORY WIRING
SCHEMATIC
CIRCUIT BOARDS**
DCV Rev. 2.10.00
HMI Rev. 2.10.00

RA-X 120 VAC RELAY	RD-X 24 VDC RELAY
NO 4 3	NO 4 3
NC 2 1	NC 2 1
COIL 8 7	COIL 8 7
COM 6 5	COM 6 5

COMPONENT LIST	
LABEL	DESCRIPTION
ST-X	Starter varies
C-X	Contactor varies
SM-X	VFD varies

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

JOB NAME	
DRAWING TITLE SC-110110FP	
DESCRIPTION OF OPERATION 120V 1 Phase w/ control For 1 Exhaust Fan, Exhaust on in Fire. Lights out in Fire, Fans On/Off Thermostatically Controlled. Room temperature sensor shipped loose for field installation.	
JOB NO	DRAWN BY
TYPE FACTORY	DATE
DWG NO ECP #1-3	

14 x 18 x 6 Box