

ELECTRICAL CONTROL BOX				MARK: KFCC	
DESCRIPTION / ACCUREX MODEL	EXHAUST FAN QTY	SUPPLY FAN QTY	POWER FREQUENCY		
KITCHEN FAN CONTROL CENTER / XFCC SHIP LOOSE / SHIP LOOSE FOR REMOTE MOUNTING	2	0	60 CYCLE		
CONTROL PANEL ENCLOSURE - 18 GA 304 STAINLESS STEEL ENCLOSURE (NEMA-1) - DIMENSIONS 12 X 18 X 6					
WIRING DIAGRAM # T106-2 - 20					
STARTERS PROVIDED IN CONTROL PANEL - QTY 2					
2 POSITION FAN SWITCH - QTY 1					
INTEGRATED EXHAUST TEMPERATURE INTERLOCK SYSTEM					
FACTORY MOUNTED EXHAUST TEMPERATURE SENSORS - QTY 2					
- COMPLIES WITH INTERNATIONAL MECHANICAL CODE 2008 SECTION 507.2.1.1					
TURN ON EXHAUST IN FIRE					
THERMAL OVERLOADS IN CABINET					
1 SPEED FANS					

SPECIAL DESIGN REQUESTS										
SDR #K080249 - USE KIT #852863, WIRING DIAG. #22905336										
TYPE 2 KITCHEN HOOD										
MARK: ITEM #25										
HOOD NO.	ACCUREX MODEL STYLE / CONFIGURATION	SECTION LENGTH	WIDTH	HEIGHT	GREASE CLIP OR DRAIN	HOOD TEMP. RATING	TOTAL WEIGHT	SECTION LOCATION		
1	XD3-42S CONDENSATE HOOD - DOUBLE BAFFLE	42.0 IN.	42 IN.	24 IN.	RIGHT	NA	224.0 LBS.	NA		

EXHAUST PLENUM COLLARS											
HOOD SECTION #	COLLAR #	DISTANCE TO END (IN.)	WIDTH (IN.)	LENGTH (IN.)	DIAMETER (IN.)	VOLUME (CFM)	S.P. (IN. WC)	VELOCITY (FT/MIN)			
1	1/1	21	7	7	NA	350	0.127	1029			
TOTAL EXHAUST CFM - SECTION 1							350.0	=	100.0 CFM / FT		

EQUIPMENT SCHEDULE												
Direct Drive Centrifugal Roof Exhaust Fan												
MARK: PRV-1 Restroom												
Qty	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Size (hp)	V/CP	End.	Motor RPM	Windings	FLA
1	XRED-995-D	375	0.5	1479	0.060	43	0.0667	115/60/1	OP	1550	1	NA

EQUIPMENT SCHEDULE												
Direct Drive Centrifugal Roof Exhaust Fan												
MARK: PRV-4 Condensate Fan												
Qty	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Size (hp)	V/CP	End.	Motor RPM	Windings	FLA
1	XRED-995-D	350	0.5	1455	0.07	43	0.0667	115/60/1	OP	1550	1	NA

EQUIPMENT SCHEDULE												
Ceiling Exhaust Fan												
MARK: EF-1 Condensate Fan												
Qty	Accurex Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Size (hp)	V/CP	End.	Motor RPM	Windings	FLA
2	XCR-880	75	0.125	885	0.01	10	0.0	115/60/1	OP	900	1	NA

EQUIPMENT SCHEDULE									
UL/LUL 705 Listed - Electric fan									
Solid State Speed Control, 6.0 amp, mounted and wired									
Round Hooded Wall cap, (PN: WC-6) Shipped loose									
Designer Grille									
Round duct connection									
Polypropylene Wheel Material									
Energy Star Rated									

REV	DESCRIPTION	DATE
1	ACCUREX	1/24

ACCUREX
CULVER'S MASTER TEMPLATE
C28805C



FOR TECHNICAL SUPPORT ON ACCUREX CONTROLS PLEASE CALL ACCUREX TECHNICAL SUPPORT: 1-800-371-6858
SECONDARY CONTACTS ARE: AARON VAN KREY 715.841.8521 TYLER SCHILLING 715.841.8749

Thank you for your interest in Accurex

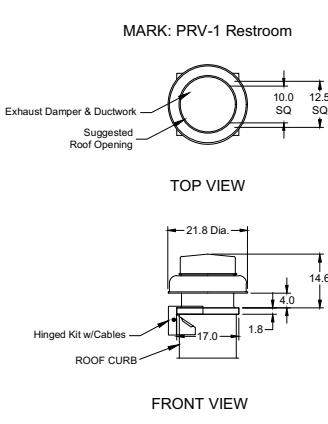
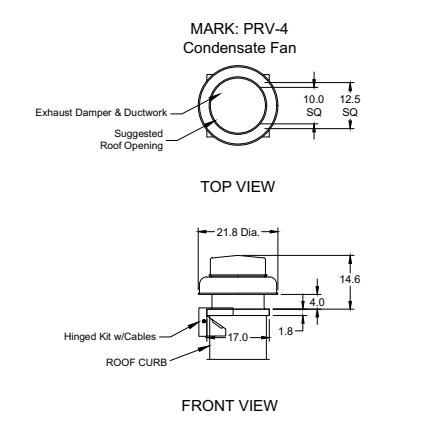
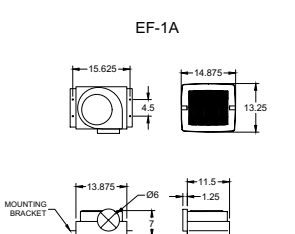
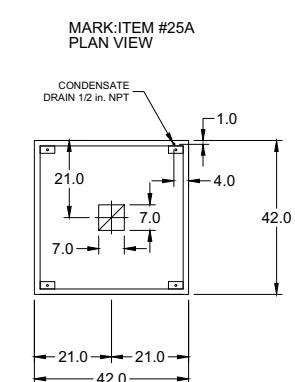
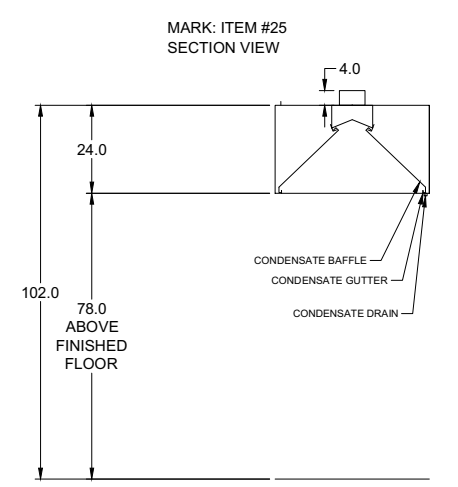
SUBMITTAL

Please return one approved print to your Accurex Representative including signature, date, and answers to all submittal "verify" notes and questions. Fabrication will not begin until after approved drawings are received.

APPROVED AS SUBMITTED
 APPROVED AS NOTED
 REJECTED - REVISE AND RESUBMIT

SIGNATURE _____ DATE _____

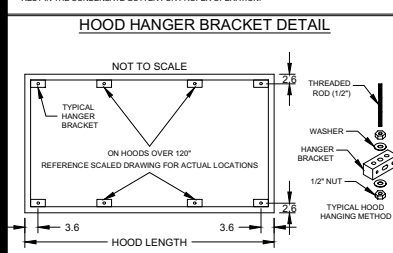
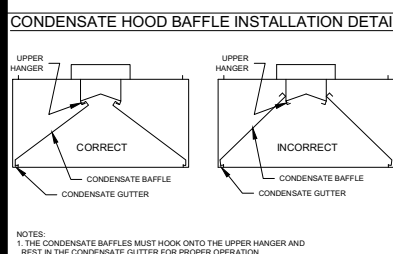
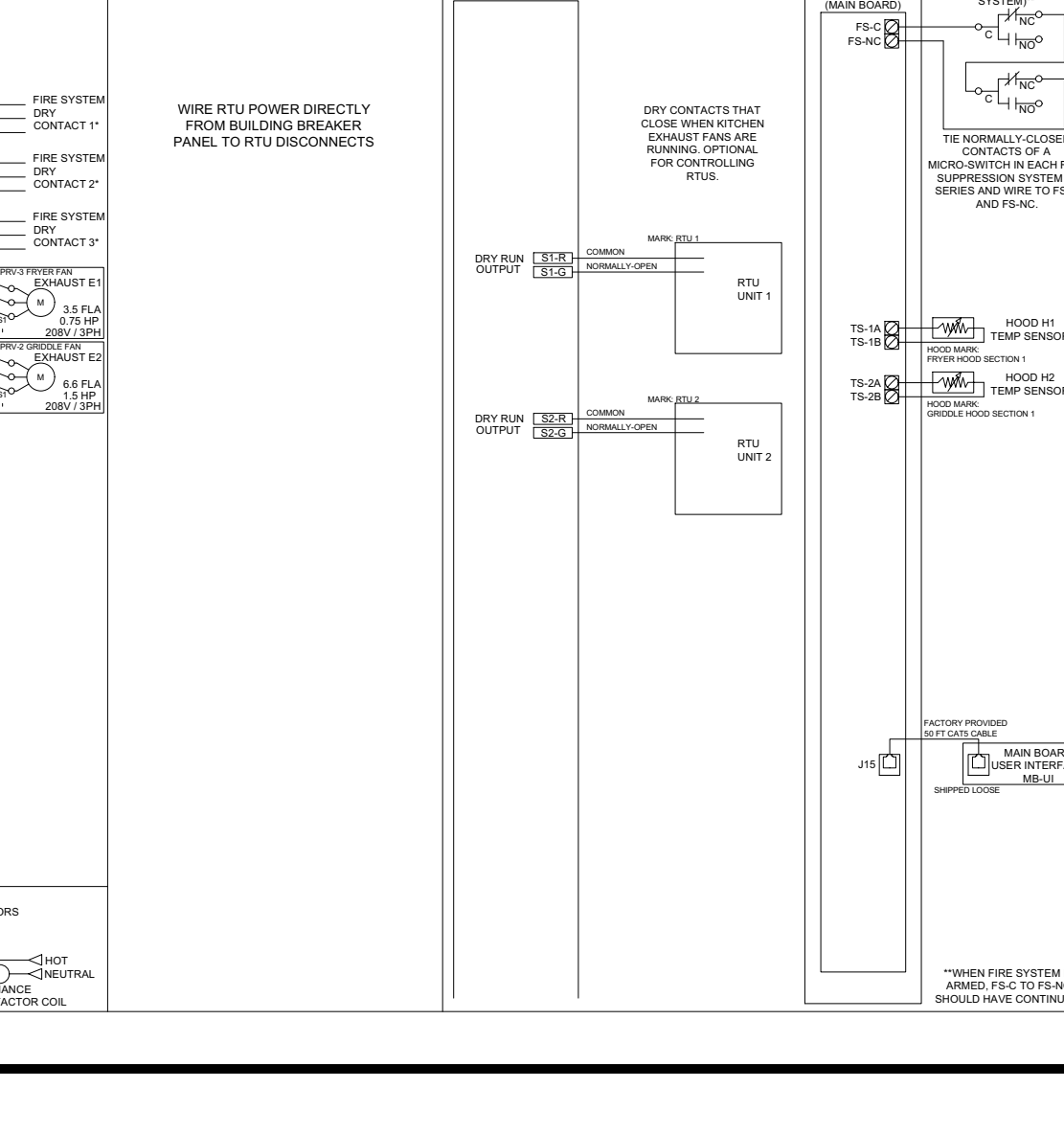
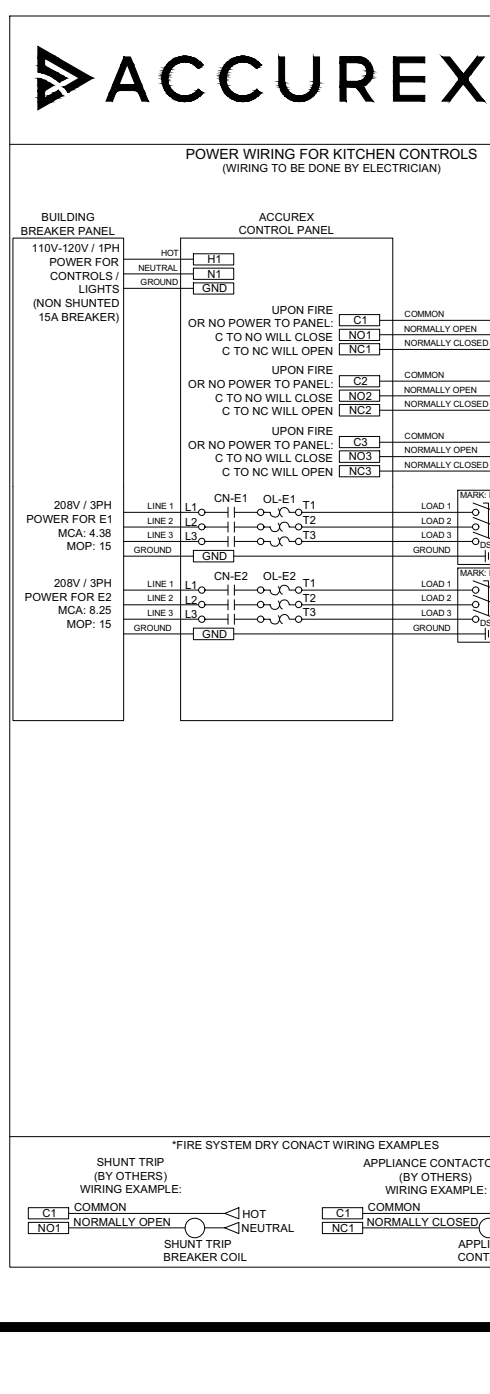
REV	DESCRIPTION	DATE
1	ACCUREX	1/24



MARK: CONTROLS
CAUTION
UNIT SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C. POWER MUST BE OFF WHILE SERVICING.

THESE DRAWINGS SHALL NOT BE REMOVED FROM THIS EQUIPMENT. USE COPPER CONDUCTORS RATED TO 90°C UNLESS SPECIFIED. TORQUE CONTROL & GROUND BLOCKS TO 8 LBS. IN. TORQUE POWER LUGS/SCREWS TO COMPONENT RATINGS LISTED. FIELD CONTROL WIRING RESISTANCE SHOULD NOT EXCEED 0.75 OHM. SEE IOM FOR ADDITIONAL INFORMATION, OR CALL ACCUREX AT 1-800-371-6858. PRG VERSION: V2.00
FIELD WIRING FACTORY SUPPLIED AND WIRED

WIRING DIAGRAM CODE:
JOB NAME: CULVERS-METRO L NEW CONTROLS
MODEL: XKC-CV-S-21-2-1-0
SERIAL NUMBER:



GENERAL DRAWING NOTES
Verify building entry conditions or limitations for equipment access to space.
Verify type and height of finished ceiling and if hood(s) may extend above finished ceiling (if required).
Seismic installation and bracing of equipment is by others. Accurex will not accept liability for problems that result from sub-standard installation, including field electrical wiring that deviate from supplied diagrams, jobsite conditions (ductwork, fuel types and structural conditions) that Accurex has not been notified of at the time of ordering. Or use of this equipment other than that for which it is designed.
It is the responsibility of the purchaser to hire qualified personnel for installation and start-up of all equipment. Installation and start-up information is shipped with all equipment via the installation, Operation and Maintenance Manual (IOM), also included is a troubleshooting guide. Have all start-up info available prior to any warranty claims and/or factory technical support.

VENTILATION SYSTEM NOTES
Greenheck ventilators are designed in compliance with all national codes: NFPA # 96, national electric code, BOCA, uniform mechanical code, international mechanical code, and southern building conference. See national evaluation report #436 for allowable values, and/or conditions of use concerning material presented in this document. Local codes may vary. It is the responsibility of the purchaser to submit drawings to local authorities.
Exhaust and supply air volumes are to be maintained within -5% to +10% tolerance of values indicated. Static pressure(s) indicated are for the ventilator at the duct connection(s) only.
The grease filter face velocities are based on the filter manufacturers recommendations for maximum grease extraction. Inlet opening air velocities for waterwash, dry cartridge and high velocity cartridge filters manufactured by Greenheck are designed to deliver maximum grease extraction.
Hoods installation (by others unless otherwise noted) shall be in accordance with NFPA # 96 and applicable building codes.

PROPRIETARY INFORMATION NOTICE
This document is and contains confidential trade secret information of the company and remains property of the company and is to be returned upon request. Neither it nor information it contains may be reproduced or disclosed to persons not having a need-to-know consistent with the purpose of the loan document without written permission.



CONSTRUCTION COMPLIES WITH NFPA 96

SUBMITTAL

Please return one approved print to Greenheck including signature, date, and answers to all submittal "verify" notes and questions. Fabrication will not begin until after approved drawings are received.

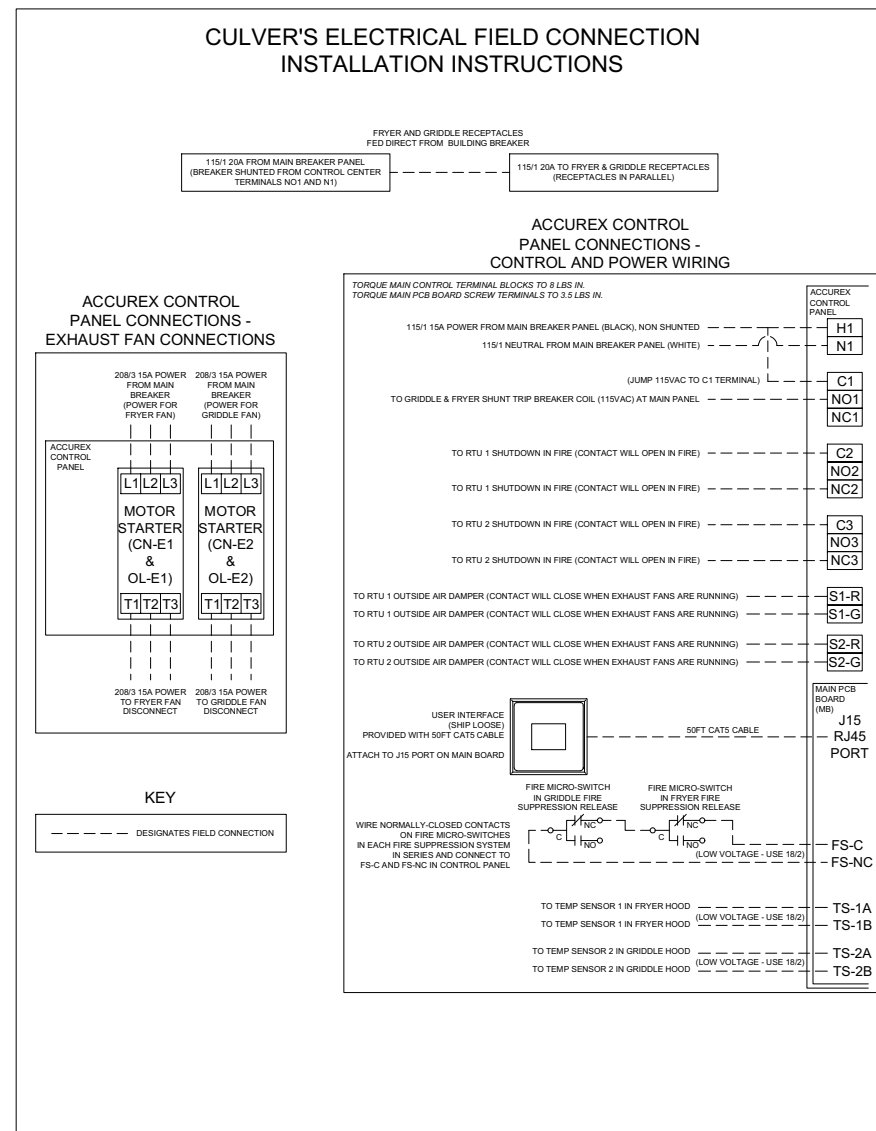
- APPROVED AS SUBMITTED
- APPROVED AS NOTED
- REJECTED - REVISE AND RESUBMIT

SIGNATURE

DATE



CULVER'S ELECTRICAL FIELD CONNECTION INSTALLATION INSTRUCTIONS



CULVER'S INSTALLATION AND OPERATION GUIDE

Accurex Control Panel, Fans, Appliance Receptacles

Mechanical Scope of Work

- 1) Mechanical Contractor to mount Accurex Control Panel (Model XKC, 18" W x 20" H x 6" D) in specified location above drop ceiling.
- 2) Assuming all electrical has been completed by Electrical Contractor, Mechanical Contractor to start up fans by pressing "Fans" button on user interface. Verify power to exhaust fans.

Electrical Scope of Work

- 1) Electrical Contractor shall provide one 115VAC 20A circuit with shunt trip breaker (115VAC trip coil) for fryer and griddle receptacles. This circuit will have two receptacles, one for the fryer and one for the griddle. Circuit to be powered directly from circuit breaker.
- 2) Electrical Contractor to install Accurex user interface on wall (user interface provided by Accurex, recess into wall). Connect user interface back to Accurex control panel using factory-provided CAT5 cable (connect to J15 port on main board in Accurex control panel).
- 3) Electrical Contractor to run a separate 115VAC 15A circuit (from non-shunted breaker) to Accurex control panel terminal blocks H1 and N1 to power controls.
- 4) Electrical Contractor to run two 208/60/3 15A circuits from main breaker panel to each motor starter in the Accurex control panel (L1, L2, L3). Run power from T1, T2, T3 on each motor starter in Accurex control panel to kitchen exhaust fan disconnects.
- 5) Electrical Contractor to connect jumper wire from terminal block H1 to terminal block C1 in Accurex control panel, and then run wires from NO1 and N1 in Accurex control panel back to 115VAC shunt-trip breaker coil for fryer and griddle receptacles.
- 6) Electrical Contractor to wire a normally-closed contact off of a micro-switch in each fire suppression system release (one FS for fryer hood, and one FS for griddle hood) in series, and tie this series circuit loop back to FS-C and FS-NC on the main control board (MB) in the Accurex control panel.
- 7) Electrical Contractor to wire RTU 1 & 2 damper control to Accurex control panel terminal blocks S1-R / S1-G and S2-R / S2-G as indicated on wiring diagram.
- 8) Electrical Contractor to wire RTU 1 & 2 control (8 amp max) circuits to Accurex control panel terminal blocks C2 and NC2 for RTU1 and C3 and NC3 for RTU 2 to shut down units in a fire.
- 9) Electrical Contractor to wire temp sensor in fryer hood collar back to Accurex control panel and land on TS-1A / TS-1B on main PCB board (use 18 to 22ga plenum rated cable)
- 10) Electrical Contractor to wire temp sensor in griddle hood collar back to Accurex control panel and land on TS-2A / TS-2B on main PCB board (use 18 to 22ga plenum rated cable)

Sequence of Operation

- 1) Make sure fryer and griddle receptacles are receiving power (breaker feeding appliance outlets is on).
- 2) Make sure RTU 1 & RTU 2 are both receiving power (breaker feeding RTUs are on and RTU disconnects are on).
- 3) Turn fans on via "Fans" button on user interface. Both fryer and griddle fans should turn on, and RTU 1 & 2 outside air dampers should open/adjust to bring in design OA.
- 4) Before fire system agent tanks are installed, manually trigger fire system while fan switch is on. This should accomplish the following:
 - Display on user interface should stated "FIRE DETECTED"
 - Shunt trip breaker will trip causing a loss of power to fryer and griddle receptacles
 - Gas valve will close shutting gas off to the fryer and griddle
 - Exhaust fans will remain on
 - RTU 1 & 2 will shut down
- 5) Put fire system in the "cocked" position and reset shunt trip breaker. Breakers feeding appliance outlets should be able to be reset manually, and RTU's power should be restored.
- 6) Press "Fans" button on the user interface to turn the fans off. This will shut down power to the fans. RTU outside air dampers will close. RTUs will remain operational providing 100% return air only.