### **GENERAL NOTES:**

- 1. ALL LOW VOLTAGE WIRING AND FINAL CONNECTIONS SHALL BE SUPPLIED AND INSTALLED BY THE M.C. ALL J-BOXES AND NECESSARY CONDUIT SHALL BE PROVIDED BY E.C. MECHANICAL CONTRACTOR SHALL INSTALL THERMOSTATS AND SENSORS. E.C. SHALL PROVIDE AND INSTALL ALL POWER WIRING OVER 24 VOLTS INCLUDING CONDUIT AND J-BOXES AS REQUIRED, UNLESS OTHERWISE NOTED. SEE ELECTRICAL SHEETS.
- 2. THE MECHANICAL CONTRACTOR SHALL CERTIFY THAT THE TEMPERATURE CONTROL SYSTEM HAS BEEN INSTALLED, AS SPECIFIED AND HAS BEEN TESTED TO ASSURE THAT CONTROL ELEMENTS ARE CALIBRATED, ADJUSTED, AND AND IN PROPER WORKING CONDITION. A COPY OF THE CERTIFICATION SHALL BE FURNISHED TO THE COP ENFORCEMENT OFFICIAL M.C. SHALL INCLUDE COPY OF THE CONTROL SYSTEM CERTIFICATION IN OFFICIAL MAINTENANCE MANUAL PROVIDED TO THE FRANCHISEE.
- 3. M.C. SHALL EXPLAIN TO THE FRANCHISEE'S REPRESENTATIVE THE HVAC SYSTEM OPERATION, PROGRAMMING AND TROUBLESHOOTING.
- 4. SEE HOOD DRAWINGS FOR HOOD CONTROL PANEL WIRING DIAGRAM, PROVIDED WITH HOODS.

# HVAC SEQUENCE OF OPERATION

### BUILDING AIRFLOW:

M.C. SHALL SET THERMOSTAT 'OCCUPIED' AND 'UNOCCUPIED' MODES TO FRANCHISEE'S OPERATION SCHEDULE. M.C. SHALL SET ALL THERMOSTATS IN 'AUTO' POSITION

NORMAL OPERATION (OCCUPIED):
KEF-1, KEF-2, KEF-3, MAU-1, EVAPORATOR FANS ON RTU-3, SHALL OPERATE CONTINUOUSLY UPON ACTIVATION OF KITCHEN HOOD SWITCH. INTERLOCK WRING, RELAYS, AND CONTACTS FOR THIS ARE INCLUDED INTERNALLY IN THE HOOD ELECTRICAL CONTROL PANEL. SEE DETAILS THIS SHEET AND HOOD DRAWNOS.

UPON DEACTIVATION OF THE KITCHEN HOOD CONTROL PANEL, RTU UNIT SHALL BE CONTROLLED VIA INDIVIDUAL THERMOSTAT.

THE TEMPERATURE SCHEDULE SET POINTS SHALL BE SPECIFIC FOR EACH RTU AND SHALL BE FIELD ADJUSTABLE. SPACE TEMPERATURE SET POINTS: 75T COOLING, 70T HEATING HUMIDITY SETPOINT: 60% RH

RTU-1 AND 2 COOLING/HEATING SWITCHOVER SHALL BE AUTOMATIC BASED ON THE SPACE DEMAND. OUTSIDE AIR INTAKE ON ECONOMIZERS OR DAMPERS SHALL BE IN MINIMUM OPEN POSITION TO DELIVER CRM'S INDICATED IN AIR BALANCE SCHEDULE ON SHEET M2.1 OR SHALL FOLLOW THE ECONOMIZER OPERATION DESCRIBED BELOW.

MAU-1 HEATER SHALL BE CONTROLLED BY INDIVIDUAL FACTORY INSTALLED THERMOSTAT IN HEATED UNIT.

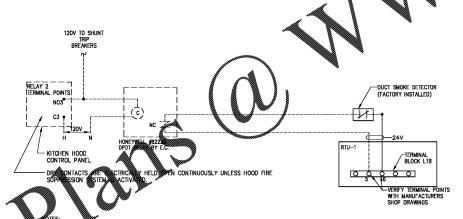
ECONOMIZER OPERATION
THE RTU UNIT EQUIPPED WITH ECONOMIZERS SHALL UTILIZE "FREE COOLING" AS THE FIRST STAGE OF COOLING. WHEN OUTDOOR AIR ENTHALPY IS LOWER THAN THE MIXED AIR ENTHALPY,
OUTSIDE AIR INTAKE DAMPERS SHALL MODULATE FROM MIN. TO MAX. OPEN POSITION AND SPACE PROTUPERS SHALL MODULATE FROM MAX. TO MIN. IF THE OUTSIDE AIR ALONE
CANNOT SATISFY THE SPACE COOLING DEMAND, THEN OUTDOOR AND RETURN DAMPERS SHALL REVERT BACK TO MINIMUM POSITION AND THE COMPRESSORS SHALL BE REFORMED.
WHEN OUTDOOR AIR ENTHALPY IS HIGHER THAN MIXED AIR ENTHALPY, OR WHEN THE LOW LIMIT SENSOR LOCATED IN DISCHARGE AIR REACHES ITS SET POINT (55F -ADJ.), THEN OUTDOOR AIR AND RETURN AIR DAMPERS SHALL BE SET TO DELIVER MINIMUM O.A. CFM'S INDICATED IN THE AIR BALANCE SCHEDULE.

NIGHT SETBACK OPERATION (UNOCCUPIED)
RTU UNIT SPACE TEMPERATURE SET POINTS: 85F COOLING, 55F HEATING

RTU UNIT EVAPORATOR FAN, COMPRESSORS AND HEATER SHALL RUN ON DEMAND ONLY. ANY MOTORIZED OUTSIDE AIR DAMPERS SHALL BE IN CLOSED POSITION. M.C. SHALL VERIFY REQUIREMENT FOR AUTOMATIC SETBACK CONTROL WITH LOCAL AUTHORITIES AND COORDINATE WITH EQUIPMENT SUPPLIER.

EMERGENCY OPERATION:

E.C. SHALL WIRE ANSUL SYSTEMS ON COOKING HOODS SO THAT UPON FIRE DETECTION OR MANUAL ACTIVATION, THE MAKE-UP AIR FAN (MAU-1) AND EVAPORATOR FANS ON RTU UNIT SHALL BE SHUT DOWN, ALL POWER TO COUPMENT UNDER HOOD SHALL BE ISOLATED, WHILE THE EXHAUST FANS SHALL CONTINUE TO OPERATE. MECHANING GAS VISOLATE ALL GAS SUPPLY TO TO EQUIPMENT UNDER HOODS. VIELENCE SUPPRESSION AND THE MANUALLY ACTIVATED. EVAPORATOR FAN ON RTU UNIT SHALL ALSO BE SHUT DOWN BY ITS SMOKE DETECTOR UPON DETECTING SMOKE RERLOCKED

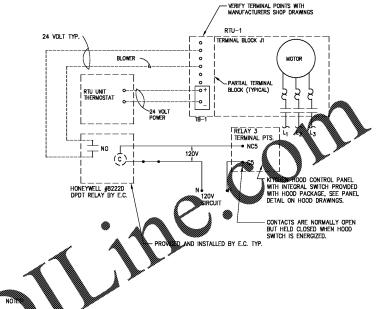


INDICATES WIRING PROVIDED/INSTALLED BY M.C. SOLID LINE WIRING IS PROVIDED BY E.C.

AC UNITS SHALL SHUT DOWN UPON FIRE DETECTION BY HOOD ANSUL SYSTEM, SEE "HVAC SEQUENCE OF OPERATION" THIS SHEET. COORDINATE WIRING MANUFACTURERS SHOP DRAWNOS. SEE H SHEETS.

THE MECHANICAL CONTRACTOR SHALL INSTALL ADDITIONAL WIRING BETWEEN TERMINAL POINT LTB6 AND FACTORY MOUNTED SMOKE DETECTOR SHALL REMAIN.

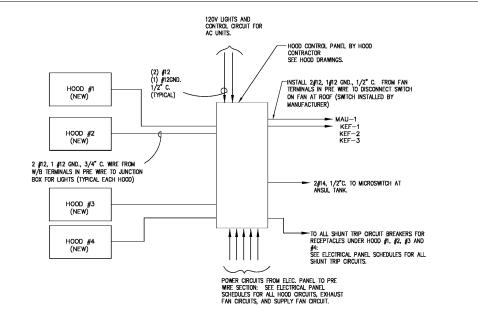
EMERGENCY RTU SHUT DOWN DETAIL



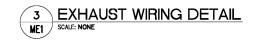
- R TO RTU TERMINAL BLOCK IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- INDICATES WIRING PROVIDED/INSTALLED BY M.C. SOLID LINE WIRING IS PROVIDED BY E.C.
- USAN ACTIVATION OF KITCHEN HOOD EXHAUST FAN, WA EXHAUST HOOD SWITCH N.O. DRY CONTACT SHALL CLOSE AND AC UNIT COMPRESSORS SHALL BE GONTROLLED WAS INTERNOSTAT.

  COMPRESSORS SHALL BE CONTROLLED WAS INTERNOSTAT.
- UPON DEACTIVATION OF THE KITCHEN HOODS, AC UNITS SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATS.

# RTU SYSTEM INTERLOCK 2 CONTROLS (NORMAL OPERATION) ME1 SCALE: NONE



NOTE #1: ALL WIRING BY E.C.













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sboro, KY 42303 Shine Prototype

and CONTROLS Rise MECHANICAL

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