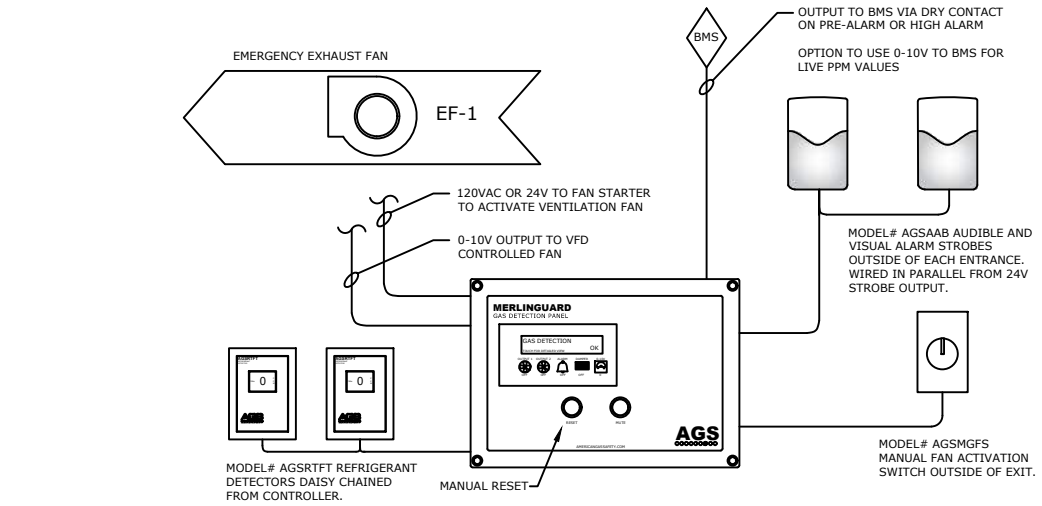
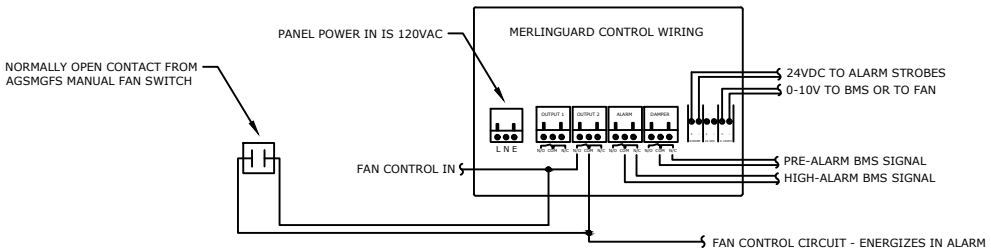
A1 TYPE REFRIGERANT GASES





SEQUENCE OF OPERATION

1. **WHEN GASES ARE AT OR ABOVE PRE-ALARM,**
   - 1.1. OUTPUT 1 RELAY CHANGES STATE.
   - 1.2. 0-10V WILL SEND VOLTAGE CORRELATED LEVEL.
   - 1.3. DAMPER RELAY CHANGES STATE AND SENDS ALERT TO BMS SYSTEM.
2. **WHEN GASES ARE ABOVE HIGH ALARM,**
   - 2.1. OUTPUT 2 RELAY CHANGES STATE, LATCHES, AND FANS TURN ON.
   - 2.2. 0-10V WILL SEND 10V.
   - 2.3. ALARM RELAY CHANGES STATE AND SENDS ALERT TO BMS SYSTEM.
   - 2.4. THE 24VDC SOUNDER STROBE WILL ENERGIZE AUDIBLE ALARM BEACONS, AND THE PANELS INTERNAL BUZZER WILL SOUND.
3. **AFTER ALARM CONDITION THE ALARM SEQUENCE WILL HAVE TO BE MANUALLY RESET AT THE PANEL.**
4. **WHEN THE MGFS MANUAL FAN SWITCH IS PRESSED,**
   - 4.1. THE FANS WILL ACTIVATE UNTIL THE SWITCH IS REVERTED BACK, GAS DETECTION OVERRIDES

SCOPE OF WORK

- **A. FULL SYSTEM SHALL BE PROVIDED BY ONE CONTRACTOR, AND COORDINATED WITH OTHER DIVISIONS AS REQUIRED.**
- **B. POWER IN:** CONTROL PANEL MUST BE POWERED VIA 120VAC BY DIV. 26.
- **C. CONTROL WIRING:** CONTROL WIRING MAY BE 120VAC OR 24VAC. IF UTILIZING 24VAC FOR CONTROL WIRING, THE 24VAC PERMANENT OUTPUT WITHIN CONTROL PANEL MAY BE USED, OR ELECTRICIAN MUST PROVIDE TRANSFORMER.

OUTPUTS AND RELAYS

- **A. OUTPUT 1 RELAY:** 120/250VAC 6A MAX. IF GREATER, USE AN EXTERNAL RELAY.
- **B. OUTPUT 2 RELAY:** LATCHES UNTIL MANUAL RESET BUTTON IS PRESSED. 120/250VAC 6A MAX. IF GREATER, USE AN EXTERNAL RELAY.
- **C. ALARM RELAY:** LATCHES UNTIL MANUAL RESET BUTTON IS PRESSED. 120/250VAC 6A MAX
- **D. DAMPER RELAY:** SWITCHES WITH OUTPUT 1 RELAY OR OUTPUT 2 RELAY. 120/250VAC 6A MAX
- **E. 0-10V OUTPUT:** LINEAR 0-10V BASED ON ALARM SETPOINT RANGE. HIGH ALARM IS 10V.