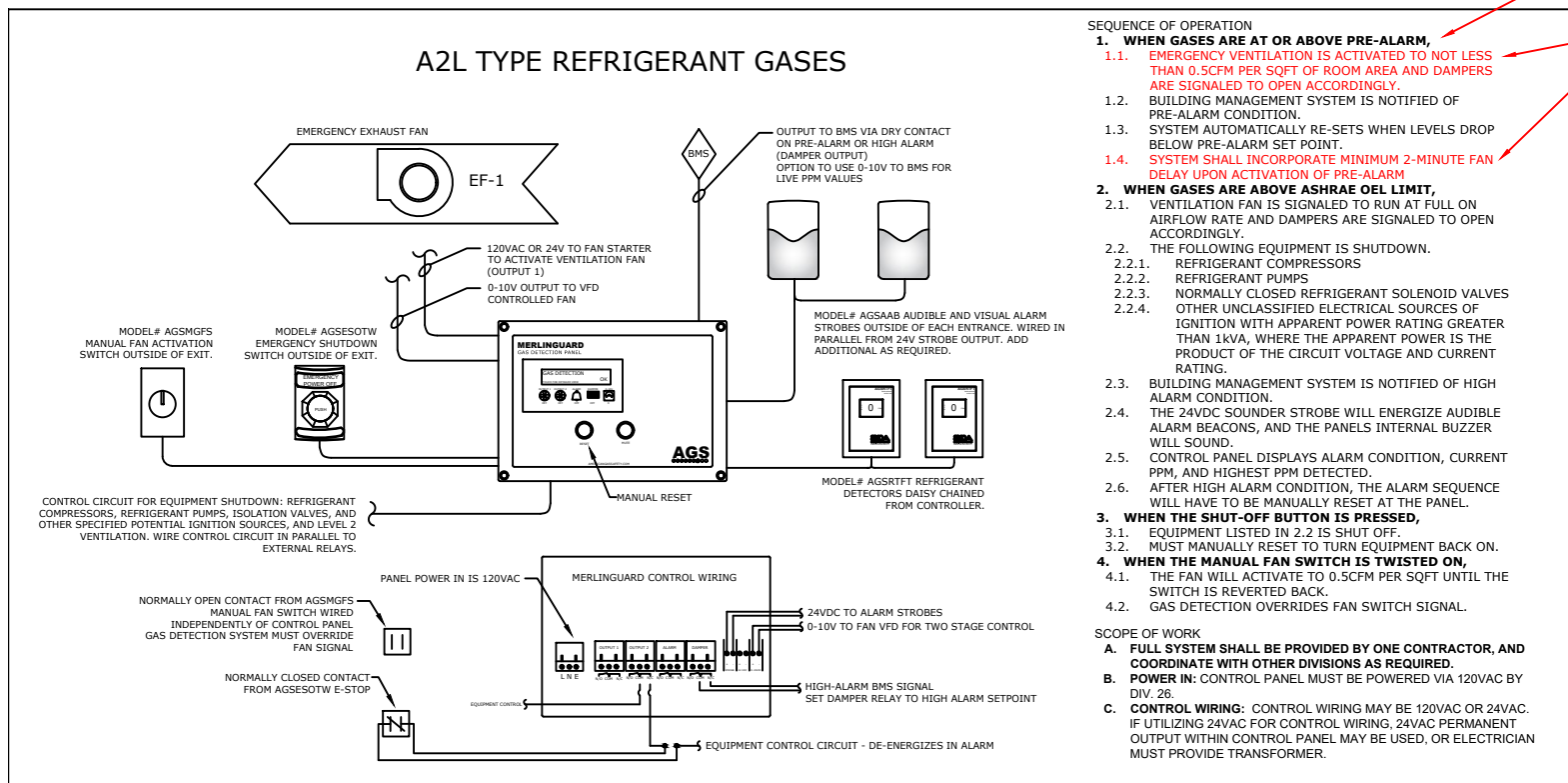


A2L TYPE REFRIGERANT GASES

TWO STAGE EXHAUST - ONE FAN WITH VFD



SEQUENCE OF OPERATION

- 1. WHEN GASES ARE AT OR ABOVE PRE-ALARM,**
 - 1.1. EMERGENCY VENTILATION IS ACTIVATED TO NOT LESS THAN 0.5CFM PER SQFT OF ROOM AREA AND DAMPERS ARE SIGNALLED TO OPEN ACCORDINGLY.
 - 1.2. BUILDING MANAGEMENT SYSTEM IS NOTIFIED OF PRE-ALARM CONDITION.
 - 1.3. SYSTEM AUTOMATICALLY RE-SETS WHEN LEVELS DROP BELOW PRE-ALARM SET POINT.
 - 1.4. SYSTEM SHALL INCORPORATE MINIMUM 2-MINUTE FAN DELAY UPON ACTIVATION OF PRE-ALARM
- 2. WHEN GASES ARE ABOVE ASHRAE OEL LIMIT,**
 - 2.1. VENTILATION FAN IS SIGNALLED TO RUN AT FULL ON AIRFLOW RATE AND DAMPERS ARE SIGNALLED TO OPEN ACCORDINGLY.
 - 2.2. THE FOLLOWING EQUIPMENT IS SHUTDOWN.
 - 2.2.1. REFRIGERANT COMPRESSORS
 - 2.2.2. REFRIGERANT PUMPS
 - 2.2.3. NORMALLY CLOSED REFRIGERANT SOLENOID VALVES
 - 2.2.4. OTHER UNCLASSIFIED ELECTRICAL SOURCES OF IGNITION WITH APPARENT POWER RATING GREATER THAN 1kVA, WHERE THE APPARENT POWER IS THE PRODUCT OF THE CIRCUIT VOLTAGE AND CURRENT RATING.
 - 2.3. BUILDING MANAGEMENT SYSTEM IS NOTIFIED OF HIGH ALARM CONDITION.
 - 2.4. THE 24VDC SOUNDER STROBE WILL ENERGIZE AUDIBLE ALARM BEACONS, AND THE PANELS INTERNAL BUZZER WILL SOUND.
 - 2.5. CONTROL PANEL DISPLAYS ALARM CONDITION, CURRENT PPM, AND HIGHEST PPM DETECTED.
 - 2.6. AFTER HIGH ALARM CONDITION, THE ALARM SEQUENCE WILL HAVE TO BE MANUALLY RESET AT THE PANEL.
- 3. WHEN THE SHUT-OFF BUTTON IS PRESSED,**
 - 3.1. EQUIPMENT LISTED IN 2.2 IS SHUT OFF.
 - 3.2. MUST MANUALLY RESET TO TURN EQUIPMENT BACK ON.
- 4. WHEN THE MANUAL FAN SWITCH IS TWISTED ON,**
 - 4.1. THE FAN WILL ACTIVATE TO 0.5CFM PER SQFT UNTIL THE SWITCH IS REVERTED BACK.
 - 4.2. GAS DETECTION OVERRIDES FAN SWITCH SIGNAL.

SCOPE OF WORK

- A. FULL SYSTEM SHALL BE PROVIDED BY ONE CONTRACTOR, AND COORDINATE 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, 24VAC PERMANENT OUTPUT WITHIN CONTROL PANEL MAY BE USED, OR ELECTRICIAN MUST PROVIDE TRANSFORMER.

SEE AGS DATA SHEETS FOR PRE-ALARM LEVELS

OPTIONAL ITEM. TWO STAGE VENTILATION CALLED FOR BY ASHRAE 15, BUT BY HAVING FULL ON VENTILATION RATE AT OEL, YOU MAY NOT UTILIZE THIS.

NON-LATCHING EXHAUST FANS MAY CAUSE RE-CYCLING OF ALARM CONDITION ONCE GASES HAVE BEEN CLEARED.