

5. Auto restart following fault, except for ground and short circuit faults. The drive shall shut down and annunciate any fault conditions (as a minimum) and display the appropriate fault code on the display of the keypad.
 6. Automatic/manual selection via (Hand/Off/Auto) switch. In manual or hand control, drive speed shall be controlled via the keypad. In automatic control drive speed shall be controlled via 4-20mA and/or a 0-10V DC signal from the BAS (BAS connections by others).
 7. In the event of loss of 4 - 20mA reference signal the drive should give an alarm and maintain last reference (within 10%).
 8. Inverter duty motors with insulated bearings, winding thermistors and suitable for operation from variable frequency drives.
 9. VFD integrator to provide all wiring/circuits required to achieve functionality described in the HVAC control drawings, electrical drawings (where applicable) and specifications.
 10. In the Auto mode, the fan ramps up to high speed when a remote contact (pushbutton or gas detector) closure is sensed by VFD controls.
 11. Output signals to be monitored by DDC control system as follows:
 1. Digital output (isolated contacts) for VFD fault indication;
 2. Digital output (isolated contacts) for VFD run status;
 3. Digital output (isolated contacts) for VFD "HAND" selected; and,
 4. Digital output (isolated contacts) for VFD "AUTO" selected.
 12. Provide thermistor operated relays.
 13. VFD cabinets are to be complete with door interlocked fused disconnect switch.
 14. VFD integrator or supplier is to provide start up assistance and training to the Owner's (Region) staff.
- .19 Factory Finish:
- .1 All exterior galvanized steel surfaces are to be hand acid etched, chemically cleaned, coated with proper primer, then painted with two 100% covering coats of eggshell enamel with colour as selected from the paint manufacturer's standard colour range. Paint (finish) louvers to match unit Colour. Supply four (4) litres of touch-up paint for each unit.
- .20 Acceptable Manufacturers and Suppliers:
- .1 Acceptable manufactures and suppliers are as follows:
 1. Air Handling Units:
 1. Haakon Industries (Canada) Ltd.
 2. Scott Springfield Mfg. Inc.
 3. EFI Concepts
 4. Mafna Air Technologies Inc.
 5. Racan Carrier Co (United Technologies Company)
 6. Ventrol Air Handling Systems Inc.
 2. Fans: