

2.19.4 Fans and motors shall be tested at the design RPM and the maximum overall filter-in vibration levels at each measurement point shall be less than or equal to 0.15 in/second peak velocity at the operating speed. If any measurements exceed the above criterion, the assembly shall be rebalanced and re-tested until the criterion is achieved.

2.19.5 Certified measurements shall be provided to the consultant.

2.20 ELECTRICAL

2.20.1 Factory wire and test all air handling units. Have units approved by CSA, ETL or UL.

2.20.2 Supply one (1) single point 460 V/60 Hz/3 Ph power connection for each unit.

2.20.3 Label and number code all wiring and electrical devices in accordance with the unit electrical diagram. Mount the devices in a control panel inside the unit's service enclosure or on the outside. Ensure the control panel meets the CSA, ETL or UL.

2.20.4 Provide a system of motor control including all necessary terminal blocks, motor contactors, motor overload protection, grounding lugs, auxiliary contactors and terminals for the connection of external control devices or relays. Individually fuse all fan and branch circuits. On fans designated to be operated by Variable Frequency Drives, provide VFDs rather than contactors.

2.20.4.1 Wire from the motors to the motor control in accordance with CSA, ETL or UL and contained by EMT conduit with liquid tight connections. Seal the casing penetrations in a manner that eliminates air leaks.

2.21 APPROVED MANUFACTURERS

2.21.1 MAFNA

2.21.2 Haakon

2.21.3 Hunt Air

2.21.4 Energy Labs

2.21.5 Approved equal in quality only – subject to request and acceptance of prior approval. Prior approval request must include design drawings listing weights, capacities, access and clearances. Any exceptions must be noted.

PART 3 - EXECUTION

3.1 INSTALLATION

3.1.1 Rig and set the unit in place. Ensure that spreader bars are used and the unit is protected from the lifting cables.