

1 C. All damper linkages shall be connected for easy installation of damper control motors. All damper
2 sections shall have access doors.

3 **2.07 FILTERS**

- 4 A. Provide 2" filters at location shown on the plans. Filters shall have an average efficiency of 30% and
5 MERV 7 rating in accordance with ASHRAE 52.1 and 52.2 test standards. Filters to be classified U.L.
6 Class 2 as per U.L. Standard 900.
- 7 B. Maximum filter face velocity shall be limited to 500 fpm.
- 8 C. Provide Dwyer 2000 magnehelic gage flush mounted to unit casing. Gauge shall be accurate to +/-
9 2% of full range.

10 **2.08 ELECTRICAL AND CONTROLS**

- 11 A. AHU manufacturer shall factory wire fan motors to motor starters or VFD's for single point connection
12 by electrical contractor. If VFD is unable to be mounted directly to the AHU, the manufacturer is to
13 wire motor to terminal block. Connection of the VFD will be made by others in the field.
- 14 B. All controls including damper actuators shall be supplied and installed by controls contractor.

15 **2.09 SOUND POWER LEVELS**

- 16 A. Air handling unit sound power levels shall be submitted for review. Sound power data shall be given at
17 the supply connections and return connections in addition to radiated sound power from the cabinet.
18 Raw fan sound power data shall be derived from testing on the identical fans as used in the units.
19 Data extrapolated from different fans is not acceptable.
- 20 B. Attenuation assumed for cabinet configuration, type of insulation, opening location and sizes shall be
21 verified through actual test measurements. All measurements shall be performed in an AMCA certified
22 laboratory in accordance with AMCA standard 300 of ASHRAE 12.12. These test reports will be
23 submitted to the Architect before units ship from the factory.

24 **PART 3 EXECUTION**

25 **3.01 INSTALLATION**

- 26 A. Install in accordance with manufacturer's instructions.
- 27 B. Examine site to verify if site is ready to receive work. Provide layout drawings of air handler and fan
28 locations to electrical installer.
- 29 C. Install minimum 30% efficiency air filters in unit during installation phase. Do not operate the unit
30 without filters in place.
- 31 D. Install condensate drain piping and traps in accordance with manufacturer's instructions and as shown
32 on the drawings.
- 33 E. Install a new set of pre-filters and final filters prior to final air balance and substantial completion.
- 34 F. Control installers shall install all wiring associated with control signals into the air handlers.
- 35 G. Electrical installer shall install all line voltage power wiring and conduit. Coordinate with Division 16
36 work.

37 **3.02 APPROVED MANUFACTURERS (HEAT EXCHANGER/AIR HANDLER)**

- 38 A. Tempeff/Silent Aire
- 39 B. BKM/Haakon
- 40 → C. Conserv/MAFNA