



SPECIFICATIONS

FRP Sound Enclosure

HEE ENVIRONMENTAL ENGINEERING, LLC

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FRP SOUND ENCLOSURE SPECIFICATION

GENERAL 1.0

1. Contractor shall furnish and install 1 each, sound enclosure for each blower as listed on equipment schedule, as remarked to require sound attenuation package.
2. Sound enclosures shall be as manufactured only by companies with a minimum of 5 years manufacturing experience of noise control equipment for fans, blowers, pumps and or compressors.
3. Sound enclosure manufacturer shall guarantee a minimum of -20 db"A" transmission loss of noise producing equipment to be silenced, or alternately shall reduce the mechanical noise level generated by the equipment listed on the schedule to a maximum housing radiated db"A" level as specified by the owner or utility.
4. Sound enclosure manufacturer shall obtain from the blower equipment manufacturer listed on schedule, the sound level ratings based on AMCA test standard 300, the housing radiated noise level and the inlet and discharge noise level ratings.
5. Sound enclosure manufacturer shall coordinate with the equipment manufacturer listed on schedule requirements for cooling, temperature rise and special provisions for Inlet ducting, discharge ducting, appurtenances such as dampers, Flexible duct connections, inlet or discharge silencers, intake filters, vibration isolators, seismic restraints, motors, drives and guards, electrical connections, electrical safety disconnect switches. The sound enclosure manufacturer shall also make special provisions to allow access to serviceable items such as bearings, lubrication, seals, dampers, belts, motors and access doors.
6. Sound enclosure manufacturer will provide and place a 10" x 14" warning sign, on each access door, indicating equipment is to be shut down and locked out prior to entry.

PRODUCT 2.0

1. The sound enclosure shall be a rigid complete enclosure using outer skin in materials listed below and be lined with acoustical materials as listed below.
2. Sound enclosure outer skin to be manufactured using all Fiberglass Reinforced Plastic.
3. Sound adsorbing materials shall be a minimum of 1" thick, consisting of a 3 P.C.F. glass fiber core completely protected with a 10 mil thick neoprene coated, fiber glass reinforced, aluminized polyester reflective film facing permanently affixed to the interior of the sound enclosure. Internal absorption material shall have a minimum NRC rating of 0.75 for 1" thickness and 0.94 for 2".
4. Interior fiberglass fill shall have a flame spread rating of 15, fuel contribution of 0, and smoke development of 10 when tested in accordance with UL 723.
5. Acoustic lining shall be capable of being steam cleaned. Fiberglass fill shall be acid resistant.
6. The sound enclosure shall be vertically split in such a manner to allow one half of the enclosure of the enclosure to be removed without disturbing the intake or discharge duct connections. The 2 halves of the enclosure shall be joined by use of quick release latches.
7. The sound enclosure shall be provided with 3 Each, PVC extended lubrication lines extended to the outside wall of the enclosure terminating to Zerk relief fittings to facilitate lubrication of the bearings and shaft seal. The Zerk fittings shall be marked with the proper grade of grease and the items lubricated.

8. The sound enclosure shall be provided with factory pre-cut penetrations to facilitate intake and discharge ductwork or pipe. The pre-cut penetrations shall be 2 Inches overall larger than the duct or pipe diameter. Additional filler strips shall be provided with insulation to cinch within ¼" of the ductwork. The contractor shall calk in place using silicone material the air gap between filler strips and the duct or pipe.
9. The sound enclosures shall be provided with 1 each, spun aluminum AMCA Type B, roof mounted exhaust fan furnished with roof curb. The exhaust fan shall be selected to provide no less than 30 air changes per hour or 1 air change every 2 minutes. The exhaust fan shall have a 1-60-115V, (TENV or Explosion Proof Motor) and be factory pre-wired to an external junction box. All electrical connections shall be UL rated for Class I, Division I, Group D.
10. Sound enclosure shall be fitted with an acoustical intake louver, located at low point of side wall of enclosure, furthest point away from exhaust fan. Louver shall be provided with insect screen and be sized for a minimum transmission noise loss and pressure drop.
11. Sound enclosure shall be provided with one or more of the following: 24" x 24" bolted or hinged inspection door, inspection window, constructed in Lexan or similar material, locking hinged access door minimum of 5' H x 30" Wide.
12. Sound enclosure manufacturer shall provide certified drawings, sound test data showing transmission loss, Installation, operation and maintenance instructions and a 2 year warranty.
13. Sound Enclosures package shall be as manufactured by HEE Environmental Engineering (HEE) / FanAir Company, Adelanto, California.

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