

3. NFPA – National Fire Protection Association.
4. OSHA – Occupational Safety and Health Act.
5. AMCA – Air Moving and Conditioning Association
6. ADC- Air Diffusion Council.
7. UL – Underwriter’s Laboratories, Inc.
8. SMACNA – HVAC Metal Duct Standards, 1985 Edition.
9. IES- Institute of Environmental Sciences.
10. IRI – Industrial Risk Insurers.
11. NEC – National Electric Code.

F. The Air Handling Unit shall be ETL Listed as complete unit and shall bear the ETL Label.

Shipment, Storage & Handling

1. Units shall be completely cleaned and vacuumed. All pipe and duct openings shall be plugged or covered in such a manner to prevent entrance of foreign matter. Units shall be delivered with factory installed shipping skids or lifting lugs. Items/Components that are shipped loose shall be packed in separate protective packages.
2. The Air Handling Unit sections shall be shrink-wrapped prior to shipment using 10 mil. Plastic sheet. All openings shall be suitably protected during shipping. Prior to the shipment from the factory, the manufacturer shall inspect the insides of each unit and clean inside surfaces that have visual appearance of oil, dirt, dust, rust, chips or grease.
3. Store Air Handling Units in safe, clean and dry place and away from construction traffic.

PART 2 - PRODUCTS

→ 2.1 Manufacturers: **MAFNA AIR TECHNOLOGIES Inc.** or approved equal

2.2 Air Handling Units

2.3 Unit Base

A. The entire unit shall be assembled on 4” high Channel out of structural steel with integral cross support tubular steel members designed to carry the component load. The base cross members tubular steel shall be sized to keep the structural integrity of the base frame during rigging and handling. After construction the base shall be cleaned and painted with rust inhibitor paint. The base frame shall have properly located lifting lugs, which are an integral part of the channel allowing ease of rigging and insuring the unit frame does not deflect more than 1 inch for 15 ft. of span.

1. Cabinet / Housing (screw less outside panel type construction).

B. The Unit Exterior panel should be constructed and fastened directly to both the checkered plate and base channel such that no screws / rivets will appear anywhere on the bottom exterior of the unit except at doors and louvers which will be fastened on the exterior panel with the help of blind rivets only at 8” centers & at access panel which will be bolted to the exterior panel. The manufacturer will demonstrate proven experience of building Screw less Outside Panel Type Air Handling Units in at least five projects with units in operation for minimum of five years complete with the contact name and phone number of the End Users for reference along with a picture of the units made.