

SECTION 23 73 13 – CUSTOM AHU CONSTRUCTION

- BASE FRAME** - 8" Deep, 12-Gauge G-90 Galvanized Steel
All Bases are Electrically Welded with 18-gauge Internal Supports
- AHU SUPPORT STAND** - Structural Support Stand to Match the Height of the Raised Floor by Air Zone
Support Stand as per Detail No. 10 on Drawing M5.12 to fully support the AHU
Support Stand may be factory attached to AHU or shipped as a de-mounted item
- LIFTING LUGS** - Lifting Lugs with Holes for 1" Clevis Bolt; four-per section
- CASING**
- **FLOOR** - 12-Gauge G-90 Galvanized Steel Floor Sheet with supports 24" on Center
22-Gauge G-90 Galvanized Steel Sub-Floor
 - **WALLS** - 16-Gauge G-90 Galvanized Steel Exterior
22-Gauge G-90 Galvanized Steel Perforated
Coil Sections have 22-Gauge G-90 Steel (non-perforated) Liner
 - **ROOF** - 16-Gauge G-90 Galvanized Steel Exterior
22-Gauge G-90 Galvanized Steel Perforated Inner Liner.
- INSULATION** - (2) Layers 2"-3# Thermal Acoustical Insulation, Septum Casing Design
FSK Vapor Seal is used to seal the Insulation under Perforated
- ACCESS DOORS** - 16-Gauge G-90 Galvanized Steel Double Wall; 22-Gauge Liner
4"-3# lb. Insulation with 304-Stainless Steel Piano Hinge
Extruded Perimeter Bulb Seal Low-Leak Gasket
Designed to Swing Against Unit Casing Pressure
- DOOR LATCHES** - Alegis Roller-Ball Latches; minimum (2) per Door
All Access Doors are designed to swing against the unit pressure
- DRAIN PAN** - Double Wall 16-Ga. 304-Stainless steel, IAQ Drain Dry Design
Coils are mounted on 304-Stainless Steel Supports above the Drain Pan
1 1/4" MPT 304-Stainless Steel Drain Connection
- PAINT** - None

CONDITIONING COMPONENTS

- SUPPLY FAN ASSEMBLY** - Twin City Model EPF, Quiet Plenum Fans for all units
Fans are AMCA Certified for Air & Sound
Bearings Selected for L-50 200,000 Hours, Average Life
Nom. 2" Def. Open Spring, Non- Seismic Isolators
Re-Lubrication Lines with Zerk Fitting Extend To Drive Side
All Drives are selected for 125% over Motor Horsepower
- SUPPLY FAN MOTOR** - Baldor 480/3/60 ODP, 1750 RPM, ODP Enclosure
In accordance with Section 20 05 13 of the Project Specifications
Premium High Efficient type with NEMA Adjustable Base
Suitable for use with a VF Drive with a 1.15 Service Factor
- COOLING COIL** - 5/8" x .020 Cu. Tubes on 1.5 Centers; Fins are .0075" Aluminum
Casings are 16-Gauge 304 Stainless Steel with Intermediate Supports
All Coils ARI 410 Rated and Certified
Manufactured for Air Zone International by Heatcraft
- CHILL WATER PIPING** - Internal to Pipe Chase with Pipe Extended thru Roof with Pipe Seals
All Piping to be Copper with Sweat Connections Insulation as specified
No Ball Type Balancing Valve required on return line due to single coil
Test Plugs installed outside the unit casing for field balance.

CONDITIONING COMPONENTS CONTINUED**FILTER RACK**

- Flanders Filters of the quantity and size required are to be Field Installed
Extra Filters as specified in Section 23 41 10
All Filters Rated in accordance with ASHRAE 52-76 and UL Std. 900
One-Pitot Tube assembly Factory Installed downstream of the Filter Rack
No Filter Gauges are specified for these units

DAMPERS

- Air Zone Low-Leak 14-Gauge Galvanized Steel with Bronze Bearings
Blade Edge & Jamb Seals, Solid Shafts Bolted to each Blade
Brass Pivot Points and Zinc Plated Hardware
Actuators are furnished & installed by **"By-Others"**

ELECTRICAL SECTION**POWER REQUIREMENTS**

- 480/3/60 Main Power to Factory Installed VFD is supplied **"By-Others"**
120/1/60 Power to External Lights and GFI is supplied **"By-Others"**
Electrical Wiring per NEC from Motor to VFD for 460/3/60 by Air Zone
Internal lighting is factory wired from Internal Light to External Switch

VF DRIVES

- VF Drives in accordance with Sect. 20 05 14 are furnished & installed
No By-Pass is recommended or included for Raised Floor Air Units

INTERNAL LIGHTING

- Marine type Light Fixtures are provided in the Fan & Access Section
All Internal Lighting is wired to an Individual External Switch with Pilot
All Wiring is in accordance with NEC and ETL
GFI Receptacle is provided on the Fan Section exterior of each unit
The required 115/1/60 is Furnished and Installed **"By Others"**

SYSTEM CONTROLS

- All Controls are Furnished & Field Installed **"By Others"**

ELECTRICAL COMPLIANCE

- This Equipment is ETL Listed and Certified
Compliance of State and Local Code is **"By-Others"**

PARTS SHIPPED LOOSE WITH UNIT FOR FIELD INSTALLATION

ITEM	QUANTITY	DESCRIPTION
A	All	Air Filters

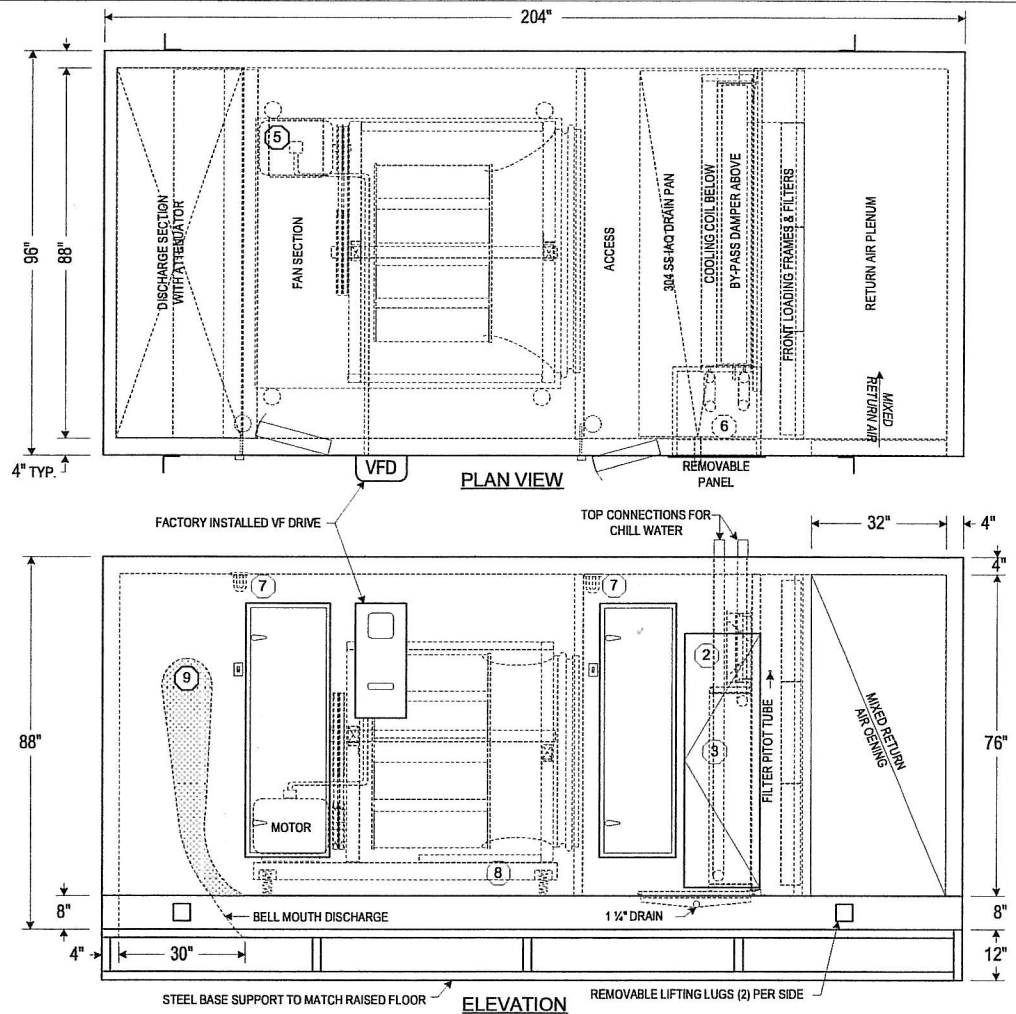
LEGEND

- ① 2" MERV 7 Filters
- ② Low-Leak By-Pass Damper
- ③ ARI Certified CW Cooling Coils
- ④ Quiet Plenum Supply Fan
- ⑤ Premium Efficient UL Listed Motor
- ⑥ Pipe Chase with Access
- ⑦ Marine Type Light with Guard
- ⑧ Spring Isolation Base
- ⑨ Discharge Attenuator

TAG: AHU-(2-7)-1

■ LEFT HAND UNIT AS SHOWN
□ RIGHT HAND IS OPPOSITE

Est. Dry Weight. = 8,145#



AZ AIR ZONE INTERNATIONAL
5220 TED ST. HOUSTON, TEXAS 77243-1689

Project: Tetra Project

Model: RTAH-38PL

Drawn By: OMD

Date: 02/20/08

Dwg. No: 1102507-0302

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