

## PART 1 - GENERAL

### 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Shutoff single-duct air terminal units.

## PART 2 - PRODUCTS

### 2.1 VARIABLE AND CONSTANT AIR VOLUME TERMINAL UNITS

- A. The control assemblies shall be pressure independent and shall be able to be reset to any airflow between zero and maximum scheduled CFM. The valves shall be normally close. The differential static pressure of the basic assembly shall not exceed 0.25" W.G. for all sizes with inlet velocities of 2,000 FPM or less. Certified under the ARI Standard 880 Certification Program. Internally lined 1-1/2 lb. density with non-porous, sealed liner which complies with UL181 and NFPA 90A.
- B. Hot Water Coil: Where scheduled on drawings, provide a single or double row hot water heating coil with aluminum fins mechanically bonded to copper coils. Coil velocity shall not exceed 600 FPM and static pressure loss shall not exceed .35" w.g. for a double row coil or 0.20" w.g. for a single row coil. Coil shall be pressure tested to 200 PSIG. Coil section to be based on 180°EWT and 140°LWT unless otherwise noted on schedule. Maximum water pressure drop shall be limited to 5 feet w.g. unless otherwise noted. Hot water coil wall thickness to be a minimum of .020.
- C. Controls to be direct digital. Provide boxes without operator. Provide factory mounted low voltage transformer of sufficient capacity to power the DDC controls. Coordinate control with Staefa temperature Control Contractor. Terminal manufacturer shall accept and factory installs controllers provided by Control Contractor.

### 2.2 MANUFACTURERS

- A. Manufacturers:
  - 1. Nailor Industries of Texas Inc.
  - 2. Titus.
  - 3. Enviro-Tec.
  - 4. Or approved equal.

### 2.3 ACOUSTICAL REQUIREMENTS OF AIR TERMINAL UNITS

- A. Refer to table at the end of this section.

## PART 3 - EXECUTION

### 3.1 GENERAL

- A. Install as required by Engineer and manufacturer to maintain warranty.

Service (ducted) or Location (radiated)	Noise Criterion	ACOUSTICAL PERFORMANCE REQUIREMENTS FOR TERMINAL UNITS											
		Maximum Allowable Discharge Sound Power Level (dB re 10 <sup>-12</sup> W)						Maximum Allowable Radiated Sound Power Level (dB re 10 <sup>-12</sup> W)					
		Octave Band Center Frequency						Octave Band Center Frequency					
		125	250	500	1k	2k	4k	125	250	500	1k	2k	4k
Video Conference Room Large Lecture Room Distance Learning Case Rooms	NC30	61	58	57	57	55	50	55	51	47	46	44	43
Regular Conference Rooms Lecture/Class/Case Rooms Private Offices	NC35	65	62	62	62	60	55	59	55	52	51	49	48
General Open Office Space	NC40	70	67	67	67	65	60	64	60	57	56	54	53
Lobbies/Circulation	NC40-45	72	70	70	70	69	64	66	63	60	60	58	57

**END OF SECTION**