

## Guide Specification for TEMSPEC Unit Ventilator Models VUD, VDF, VUF and HCD

1. The unit ventilator shall be manufactured by **Temspec Inc.**

### 2. ELECTRIC COIL

The electric heating coil shall have wire nickel-chrome elements carried in floating ceramic bushings. Auto-reset high limit switches shall be factory installed in the coil frame. The coil shall be rated for \_\_\_kW at a supply voltage \_\_\_Volts \_\_\_phase 60 Hz. Each coil stage shall have an electromagnetic contactor to energize the coil.

### 3. HOT WATER HEATING COIL

The coil shall have ½" copper tube of minimum wall thickness 0.016" and shall have aluminum fins. The coil supply and return headers shall be copper pipe, stubbed out for sweat connection. The coil shall be factory pressure tested at not less than 350 p.s.i. A manual air vent shall be factory installed and ball valves fitted. The coil capacity shall be as shown in the schedule.

### 4. CHILLED WATER COOLING COIL

The coil shall have ½" copper tube of minimum wall thickness 0.016" and shall have aluminum fins. The coil supply and return headers shall be copper pipe, stubbed out for sweat connection. The coil shall be factory pressure tested at not less than 350 p.s.i. A manual air vent shall be factory installed and ball valves fitted. The coil capacity shall be as shown in the schedule. A galvanized steel pitched drain pan shall be provided. The pan shall have a 'P' trap.

### 5. DIRECT EXPANSION EVAPORATOR COIL

The coil shall have 3/8" copper tube and aluminum fins. The coil capacities shall be as shown in the schedule. A galvanized steel pitched drain pan shall be provided. The pan shall have a 'P' trap.

### 6. CABINET

The unit cabinet shall be 18ga corrosion resistant steel, braced and reinforced for rigidity. The finish shall be textured powder coat, color as per the Architect's instruction. The cabinet shall be fully lined with ½" coated glass fiber insulation. The return air grille shall be heavy duty steel.

### 7. TOP EXTENSION (Optional)

The unit manufacturer shall provide a color matched top extension for the cabinet, of size to suit the ceiling height.

### 8. RAISED BASE (Optional)

The unit manufacturer shall provide a color matched raised base, height as shown on the plans.

### 9. SIDE PIPE COVER (Optional)

The unit manufacturer shall provide a 5" wide pipe cover assembly, color matched to the unit. The cover shall be the depth of the unit, height to suit.

### 10. SUPPLY AIR FAN/MOTOR

The fan shall be a direct centrifugal type with a three speed PSC motor mounted on rubber isolation grommets. The motor voltage shall be \_\_\_V/1/60Hz.

### 11. OUTDOOR/RETURN AIR MIXING DAMPERS

The outdoor and return air dampers shall have airfoil section aluminum extruded blades. The dampers shall have neoprene blade tip and jamb seals. Leakage shall not exceed 4 c.f.m. per sq. ft. at 3" W.G. differential pressure, as determined by a recognized testing laboratory.

### 12. FILTERS

The filters shall be of the manufacturer's standard disposable type.

### 13. EXTERIOR WALL LOUVER

The louver shall be aluminum extruded 45 degree blades. The louver shall have ½" birdscreen attached to the inner face. The finish on the louver shall be mill finish or a color as per the Architect's instruction. The contractor shall provide a wall sleeve to suit the wall thickness.

### 14. BAROMETRIC RELIEF (Optional)

A barometric relief damper shall be incorporated in the back of the unit. The manufacturer shall provide the wall louver.

### 15. CONDENSATE PUMP

A condensate pump shall be factory installed within the unit, behind the return air grille. The head capacity of the pump shall be a minimum of \_\_\_ft.

### 16. LINE VOLTAGE WIRING

All internal line voltage wiring shall be by the unit manufacturer. A suitably rated remote circuit breaker shall be provided and installed by the electrical contractor.

### 17. INSTALLATION

The unit ventilator shall be installed plumb. Foam sealing tape shall be installed around the perimeter of the opening in the back of the unit before moving the unit into position against the wall. The exterior louver shall be caulked.

### 18. DDC CONTROLS

Control items shall be furnished by the contractor for factory mounting and shall function as described in the Controls Specification.

### 19. STAND-ALONE CONTROLS

The control system shall be Temspec type 'V' incorporating an OC-3 model, seven day programmable thermostat with integral "smart occupancy" sensor.

**Guide Specifications for TEMSPEC Unit Ventilator Models listed below are the same as that shown on the previous page, with the following exceptions:**

**VUD 1600**

**CABINET**

The unit cabinet shall be 14ga corrosion resistant steel, braced and reinforced for rigidity. The finish shall be textured powder coat, color as per the Architect's instruction. The cabinet shall be fully lined with 1" coated glass fiber insulation. The return air grille shall be heavy duty steel.

**ADD: TOP ACOUSTICAL PLENUM/ELBOW**

The unit manufacturer shall provide a color matched top plenum extension for the unit, size to suit the ceiling height. The plenum shall have an internal perforated elbow and shall be acoustically lined.

**DELETE: BAROMETRIC RELIEF**

**VUD 2000**

**CABINET**

The unit cabinet shall be 14ga corrosion resistant steel, braced and reinforced for rigidity. The finish shall be textured powder coat, color as per the Architect's instruction. The cabinet shall be fully lined with 1" coated glass fiber insulation. The return air grille shall be heavy duty steel.

**ADD: TOP ACOUSTICAL PLENUM/ELBOW**

The unit manufacturer shall provide a color matched top plenum extension for the unit, size to suit the ceiling height. The plenum shall have an internal perforated elbow and shall be acoustically lined.

**SUPPLY AIR FANS/MOTORS**

The dual fans shall be a direct centrifugal type each with a three speed PSC motor mounted on rubber isolation grommets. The motor voltage shall be \_\_\_ V/1/60Hz.

**DELETE: BAROMETRIC RELIEF**

**VUF 1200**

**ADD: TOP SUPPLY AIR PLENUM**

The unit manufacturer shall provide a color matched top supply air plenum with supply air grilles (two or three way discharge). The plenum shall be acoustically.

**VUF 1500**

**CABINET**

The unit cabinet shall be 14ga corrosion resistant steel, braced and reinforced for rigidity. The finish shall be textured powder coat, color as per the Architect's instruction. The cabinet shall be fully lined with 1" coated glass fiber insulation. The return air grille shall be heavy duty steel.

**ADD: SUPPLY AIR GRILLES**

Double deflection supply air grilles (two or three way discharge) shall be factory mounted on the cabinet front and side.

**SUPPLY AIR FANS/MOTORS**

The dual fans shall be a direct centrifugal type each with a three speed PSC motor mounted on rubber isolation grommets. The motor voltage shall be \_\_\_ V/1/60Hz.

**VDF 1200**

**CABINET**

The unit shall have a down flow configuration with side supply air discharge into lateral duct at baseboard level. The unit cabinet shall be 18ga corrosion resistant steel, braced and reinforced for rigidity. The finish shall be textured powder coat, color as per the Architect's instruction. The cabinet shall be fully lined with ½" coated glass fiber insulation. The return air grille shall be heavy duty steel.

**DELETE: RAISED BASE**

**DELETE: CONDENSATE PUMP**

**HCD 1200**

**CABINET**

The unit shall have a horizontal configuration with supply air discharge into high level duct work. The unit cabinet shall be 18ga corrosion resistant steel, braced and reinforced for rigidity. The finish shall be textured powder coat, color as per the Architect's instruction. The cabinet shall be fully lined with ½" coated glass fiber insulation.

**ADD: ACCESS PANELS**

Hinged panels shall be incorporated in one side of the unit to allow full access to all internal components.

**DELETE: TOP EXTENSION, RAISED BASE, SIDE PIPE COVER, EXTERNAL WALL LOUVER, BAROMETRIC RELIEF, CONDENSATE PUMP.**

**INSTALLATION**

Supporting steelwork and hanger rods shall be by the contractor. The unit shall be equipped with brackets at each corner for the support rods.

**HCD 1600**

**CABINET**

The unit shall have a horizontal configuration with supply air discharge into high level duct work. The unit cabinet shall be 14ga corrosion resistant steel, braced and reinforced for rigidity. The finish shall be textured powder coat, color as per the Architect's instruction. The cabinet shall be fully lined with 1" coated glass fiber insulation.

**ADD: ACCESS PANELS**

Hinged panels shall be incorporated in one side of the unit to allow full access to all internal components.

**DELETE: TOP EXTENSION, RAISED BASE, SIDE PIPE COVER, EXTERIOR WALL LOUVER, BAROMETRIC RELIEF, CONDENSATE PUMP.**

**INSTALLATION**

Supporting steelwork and hanger rods shall be by the contractor. The unit shall be equipped with brackets at each corner for the support rods.