

SPECIFICATIONS:

1. Blower Section

1.1.1. ETL Listed Blower Section.

1.1.2. DWDI Forward Curve Fan, Ball Bearings, Shaft, Blower Wheel, Motor Base, Pulleys, Adjustable Sheaves, V-Belt Assembly

1.1.3. Standard/High Efficiency O.D.P. **(T.E.F.C)**. All 3 Phase Motors are VDF Compatible.

1.1.4. Standard Non Evaporative-Open Inlet

1.1.4.1. Model SC Non Evaporative Blower Section: Cabinet Constructed of G90, 20g steel **(304 SS)** with Galvanized Finish; Includes: Open Inlet and 2 Sided G90, 20g Steel **(304 SS)** Solid Lift Out Access Panels. For Indoor Applications Only.

1.1.5. Standard Non Evaporative w/Flat Filter Bank

1.1.5.1. Model SC Non-Evaporative Blower Section: Cabinet Constructed of G90, 20g steel **(304 SS)** with Galvanized Finish; Includes: G90, 20g Steel **(304 SS)** Flat Filter Bank Inlet with 2" 30% Aluminum Mesh Filters and 2 sided G90, 20g steel **(304 SS)** Solid Lift Out Access Panels. For Indoor Applications Only.

1.1.6. Standard Non Evaporative w/SC Inlet Louvers

1.1.6.1. Model SC Non-Evaporative Blower Section: Cabinet Constructed of G90, 20g steel **(304 SS)** with Galvanized Finish; Includes: G90, 20g Steel **(304 SS)** 3 Sided Inlet Louvers with 2" CoolPad TA **(2" 30% Pleated TA / 2" 30% Aluminum Mesh)** Filters. For Outdoor Applications Only.

1.1.7. Standard Non Evaporative w/Inlet Hood

1.1.7.1. Model SC Non-Evaporative Blower Section: Cabinet Constructed of G90, 20g steel **(304 SS)** with Galvanized Finish; Includes: G90, 20g Steel **(304 SS)** Inlet Rain Hood with 2" CoolPad TA **(2" 30% Pleated TA / 2" 30% Aluminum Mesh)** Filters and 2 sided G90, 20g steel **(304 SS)** Solid Lift Out Access Panels. For Outdoor Applications Only.

1.1.8. Standard Non Evaporative w/ Return Air

1.1.8.1. Model RC Non-Evaporative Blower Section with Return Air Opening: Cabinet Constructed of G90, 20g steel **(304SS)** with Galvanized Finish. Includes: Outside Air/Return Air Dampers with 24V **(120V)** 2 Position Motorized **(Modulating)** Damper Actuators; Return Air Filter Rack with 2" 30% Pleated TA Filters, and 2 sided G90, 20g steel **(304 SS)** Solid Lift Out Access Panels. Max R/A CFM is 5,000. Return air shall enter through a bottom opening. For Outdoor Applications Only.

1.1.9. Standard Evaporative w/Standard Evaporative Pad Frames

1.1.9.1. Model SE Evaporative Blower Section: Cabinet Constructed of G90, 20g steel **(304 SS)** with Galvanized Finish; Includes: 3 Sided Rigid Cellulose **(Fiberglass)** 2" Media Kit G90, 20g steel **(304 SS)** Pad Frames, 304 SS Reservoir Pan, 115V Sump Pump, Standard PVC **(Copper)** Evaporative Water Manifold, Manual **(Automatic)** Fill and Drain Kit, Float Valve, Bleed Tube, and Evaporative Bag Assembly. For Outdoor Applications Only.

1.1.10. Standard Non Evaporative Double Blower – All Styles

1.1.10.1. Model DLB-2 Non Evaporative Blower Section: Cabinet Constructed of G90, 20g steel **(304 SS)** with Galvanized Finish; Includes: Open Inlet **(G90, 20g steel /304 SS) (Inlet Rain Hood with 2" CoolPad TA [2" 30% Pleated TA/2" 30% Aluminum Mesh] Filters/ Inlet Damper with Birdscreen)**, 2 sided Solid Lift Out Access Panels and Aluminum Louver Assembly w/ Bird Screen. For Indoor **(Outdoor)** Applications.

1.1.11. Standard Non Evaporative Double Blower w/ Return Air

1.1.11.1. Model DLB-2 Non Evaporative Blower Section w/ Return Air Opening: Cabinet Constructed of G90, 20g steel **(304 SS)** with Galvanized Finish; Includes: Outside Air/Return Air Dampers with 24V **(120V)** 2 Position Motorized **(Modulating)** damper actuator; Return Air Filter Rack with 2" 30% Pleated TA Filters, and 2 sided G90, 20g steel **(304 SS)** Solid Lift Out Access Panels. Return air shall enter through bottom return opening. Max R/A CFM is 10,000. For Outdoor Applications.

2. High Efficiency CEV Evaporative Cooler Section

- 2.1. ETL Listed CEV Evaporative Section.
- 2.2. Model CEV High Efficiency Evaporative Section: Cabinet Constructed of 304 SS with 12 years No Rust Warranty. Includes: Inlet Louver with 2" 30% Pleated Pre-Filters, Bird Screen, Rigid Cellulose (**Fiberglass**) 12" 45/15 Media Kit, 115V Sump Pump, Standard PVC Evaporative Water Manifold, 2 sided Solid Lift Out Access Panels, Float Valve, Drain Assembly, Bleed Tube and Evaporative Bag Assembly. Optional (**Manual**) (**Automatic**) Fill and Drain Kit. Use SC/DLB Non Evaporative Blower Section. For Indoor (**Outdoor**) Applications.

3. Furnace Section

- 3.1. CSA Listed Furnace Section.
- 3.2. Furnace Cabinet Constructed of G90, 20g (**304 SS**) steel with Galvanized Finish.
- 3.3. Horizontal Discharge (**with Insulated Down Discharge Plenum**).
- 3.4. Includes: Removable Lift Out Access Panels, 409 SS Heat Exchanger, Aluminized Steel Burner Tray with Slide Out Access, 20g G90 Steel Drip Pan, Power Vented (with Centrifugal Proving Safety Switch), Insulated Combustion Collection Box, Hot Surface Ignition with L.E.D. Diagnostics.
- 3.5. 2 Stage (**Electronic Modulating w/ 3:1 Turndown**) Natural Gas Valve and Burner Temperature Controls, including Discharge Thermostat. Options: **Room Override Thermostat, Room Sensing Thermostat, Signal Conditioner, reading a 0-10 V or 4-20 M/A Signal.**
- 3.6. Burners shall be formed with stamped porting and 304SS port inserts to prevent scaling and foreign matter from obstructing the burner ports.
- 3.7. Burners have slide-out drawer design for ease of cleaning and surface.
- 3.8. Indoor Units include Air Proving Switch and 4" Square to 6" Round Adaptor. Outdoor Units Include Power Venter Hood.
- 3.9. Factory Mounted on Manufacturer Supplied Base Rail. All Units are Factory Tested to meet CSA Requirements.

4. Electrical Controls

- 4.1. All Electrical Components Shall Be UL Listed or Recognized.
- 4.2. Factory Wired Electrical Cabinet (**Right Hand Controls**) Constructed of G90, 20g steel. Includes: 2 24V High Temperature Switches & 1 24V Fan Limit Switch, Required Relays, Fuse Block, Line and Low Voltage Terminal Blocks, and 24 Volt Transformer. Factory Supplied Magnetic Motor Starter & Motor Overload Protections. All Electrical Components Shall Be UL Listed or Recognized.
- 4.3. NEMA 4 Rated Enclosed Control Transformer supplied as required (Field Installed).
- 4.4. NEMA 4 Rated Enclosed Non-Fused Disconnect, Optional (Field Installed).

5. Mechanical Arrangement

- 5.1. A Single, Dual, or Triple Furnace Arrangement (175-1200 MBH). The Firing Rate of Any Single Furnace Shall not exceed 400 MBH. Each duct furnace shall have its own heat exchanger, power venter, flue collection box, burners, safety/ignition controls. Electrical Cabinet Isolated From Air Stream with a Removable Access Panel Located Behind the Outer Service Panel. Includes Provisions for Factory Provided Component Mounting wiring and high voltage field wiring connections.

6. Optional Accessories Unit

- 6.1. Provide: 14" High Roof Curb; Remote Control Panel (**Multiple Configurations**); G90,20g Steel (**409 SS NEMA 4X Rated**) Enclosed Exhaust Fan Interface Control Panel; Additional Starters; Exhaust Fan Contact Relay; Fire Interlock Relay; Mild Weather Thermostat; Freeze Thermostat, ; 24 HR/7 Day Time Clock; 2 Position Motorized Inlet Damper; Gravity Discharge Back Damper; 2 Position Motorized Discharge Damper; Convenience Outlet.