



**Armstrong ExpressPack**  
Master SECTION 15810  
HUMIDIFIER

**PART 1 GENERAL**

1.01 WORK INCLUDED

- A. Steam Humidifier, Control Cabinet, Piping and Controls.

1.02 RELATED WORK

- A. Plumbing water distribution and drainage. Section 15400
- B. Ductwork Insulation. Section 15290
- C. Air Handling Section 15850

1.03 SUBMITTALS

- A. Submit shop drawings and product data under provisions of Section 01300.
- B. Shop drawings shall indicate assembly, dimensions, construction details and all field connection details and all mounting and housing details.
- C. Product data shall indicate dimensions, capacities, ratings, construction details, electrical characteristics.
- D. Submit manufacturer's installation instructions and operating and maintenance manuals.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Deliver products to site in factory fabricated protective containers.
- B. Store in a clean dry place and protect from weather and construction traffic, handle carefully to avoid damage to components, enclosures and finish.

1.05 ENVIRONMENTAL CONDITIONS

- A. Do not operate unit for any purpose, temporary or permanent until all water supply and drainage connections have been made and all safety controls are functioning properly.

1.06 WARRANTY

- A. Provide manufacturer's one year standard warranty.

**PART 2 PRODUCTS**

2.01 ACCEPTABLE MANUFACTURERS

- A. Armstrong

**I. Suggested Specification ExpressPack**

**“Dispersion System for Atmospheric pressure Steam Generators requiring short non-wetting distances or vapor trail”**

Armstrong ExpressPack shall be a packaged steam dispersion grid. It contains components that are typically shipped loose for field assembly.

- A. ExpressPack includes a fabricated separator/header, multiple dispersion tubes, support plate and cover plates of all stainless steel construction and hose cuffs. Each active tube has diametrically opposed flow-drilled nozzles. The nozzles are sized and spaced to accept steam from the separator/header and provide a dry and uniform discharge of steam.
- B. Header includes 1" NPT drain connection to assure proper condensate drainage.
- C. Support plate allows for easy installation in a duct or air handler.
- D. Expresspack may be used for applications with header either inside or outside the airflow face area.
- E. Applications when header is outside of the face area, cover plates will be used to seal of airflow around the dispersion tube.
- F. With the ExpressPacks design the Installer is able to pipe the inlet to either side of the duct without modifying the dispersion grid.
- G. Condensate drainage from the header must be gravity drained or pumped away. No lifting is possible.

### **PART 3 EXECUTION**

#### **3.01 INSTALLATION**

- A. Install Armstrong humidifiers as indicated on drawings and as indicated in schedules in accordance with manufacturer's instructions.

#### **3.02 MANUFACTURERS FIELD SERVICES:**

- A. Supply services of factory trained representative to check installation for compliance with manufacturer's requirements and to supervise start-up and testing of humidifiers.

#### **3.03 DEMONSTRATION**

- A. Demonstrate all humidifiers to be fully functional. See 15990 for testing procedure.

END OF SECTION 15810