

## RICHBOURG & WILSON, INC.

J. P. STEVENS & CO., INC.  
Quotation No. 78W859-R2

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### 2. ONE (1) RICHBOURG & WILSON VTF-32 THROUGH FLOW DRYER CONTINUED

#### General Description Continued:

The dryer is constructed with four (4) air zones. Inlet air is fed through the slots at the entrance and exit ends of the dryer. This mixes with recirculated air being pulled through the fabric. and is heated by direct fired gas burners. Four (4) circulating blowers blend the air and force it into the return zone above the fabric. Approximately 5 to 10% of the air in the return zone is pulled downward by one (1) exhaust fan through the incoming fabric and recirculated. Since the exhaust air is pulled through the wettest material, its temperature usually ranges from 130-140°F., resulting in an overall drying efficiency of approximately 90%. Conventional dryers are around 60%. Since the air is pulled through the fabric, the fabric acts as a seal. Make-up is pulled into the exit end slot and forced through the fabric as it leaves the dryer and cools it.

#### Construction:

The dryer is designed as five (5) pre-assembled modules to allow quick installation. It is pre-wired and pre-piped and is constructed of channel frame so that modules can be lifted or skidded into place. The entire dryer is insulated with 4" of glass wool and covered with a 16 gauge jacket. The exhaust fan is mounted on frame and ducted through the entrance end of the dryer. A door at the exit end of the module allows for easy access to the internal portion of the dryer. Internal door allows access to return air zone for service from inside of the dryer.

#### Tenter Frame:

RICHBOURG & WILSON horizontal pin type tenter with worm and wheel drive units. Tenter drives are as follows:

Main Drive	-----	20 HP DC
Width Control	-----	5 HP
Wing Section	-----	Erhardt & Leimer KR-40 gulder

The dryer is sealed by telescoping plates connected to the tenter rails. The tenter operating range is as follows:

Speed Range	-----	20-80 YPM
Width	-----	48"-72"
Wings	-----	(-10° to +5°)

The wings are equipped with limit switches so that they follow the main tenter as the width is changed. Extreme position limit switches are mounted to prevent movement of tenter rails beyond limits.