

SPL2828



BENT RIVER

**MACHINE** 

At Bent River Machine, we have a developed a programmable control system designed for experimentation of different variables in the lamination process. Our laminators were created with companies and researchers in mind who were attempting to develop greater efficiencies or enhanced characteristics in a solar or flat panel lamination. There are several features that set our laminators apart and ensure that you can create the perfect recipe to have the most success for your panel configuration – on a manufacturing line or for research and development.

- PROCESS STEP PROGRAMS
- TEMPERATURE CONTROL
- DWELL TIMES
- **VACUUM PROFILES**
- ▶ PRESSURE CONTROL
- CONTINUOUS PRODUCTION
- THREE STANDARD SIZES
- CUSTOM SIZES AVAILABLE

## SPL2828PIN REDESIGNED & UPGRADED

Upgrading the vacuum pump, from the Agilent IDP3 to the IDP7, reduces pump down time by more than 50 percent. This decreases processing time and allows system maximum vacuum to be reached in under one minute. Thus providing a larger range of recipe parameters to test your product with.

The upper membrane frame has been redesigned, greatly reducing, and in some cases completely eliminating, product shift during lamination.

Enhanced software with an improved user interface allows for quicker recipe programming and ease of use.

#### LIFTING PIN

The lifting pin system allows precise control of panels' exposure to heat during the vacuum phase, which eliminates air entrapment and reduces cycle times which increases productivity.

### **PROGRAMMABLE**

Multiple modes allow for users to execute experimentation and process qualification or run the same production recipe over and over again to simulate panel production.



# SPL 2828 LAMINATOR

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## TECHNICAL SPECIFICATIONS

LAMINATION AREA (WxDxH) 28 in x 28 in x 0.6 in (thickness is customizable)

TEMPERATURE RANGE Ambient to 180° C

CONTROLS PLC Touchscreen

TEMPERATURE UNIFORMITY > +/- 2° C

VACUUM PUMP Agilent IDP7 Dry Scroll Pump

RECIPES Unlimited process steps and recipes

### GENERAL DIMENSIONS/WEIGHT

LID CLOSED (WxDxH) 41.4 in x 41.1 in x 44.3 in

LID OPEN (WxDxH) 41.4 in x 41.1 in x 69.9 in

**DISPLACEMENT** 43.6 cu ft.

FOOTPRINT 11.8 sq ft

MACHINE WEIGHT ▶ 950 lbs

FLOOR LOADING > 80.4 lbs per sq foot

# **POWER SUPPLY**

**VOLTAGE** 208-240 VAC, L1 - L2 - G/PE

PHASE Single

FREQUENCY 60 Hz

CURRENT (Main Breaker) 40 Amp

FACILITIES WIRE SIZE 8 AWG (Minimum)

**ELECTRIC PLUG/RECEPTACLE** NEMA 60-50P/R

PEAK POWER CONSUMPTION Full Load Amps = 30.4 Amps

#### **EXHAUST**

SIZE Round, 4 in FLOW RATE 200 cfm

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