

# SPL2860



BENT RIVER MACHINE

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## PANEL LAMINATORS

At Bent River Machine, we have 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

## SPL2860 FEATURES

The SPL2860 uses a Agilent IDP-7 pump which facilitates expedient pump down times. This expedites processing time and allows maximum vacuum to be reached in under one minute. This along with other features allow the SPL2860 to provide precision control of all parameters during the lamination process.

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 and over again for panel production.

## TECHNICAL SPECIFICATIONS

LAMINATION AREA (WxDxH)	▶ 28 in x 60 in x 0.6 in ( <i>thickness is customizable</i> )
TEMPERATURE RANGE	▶ Ambient to 180° C
CONTROLS	▶ PLC Touchscreen
TEMPERATURE UNIFORMITY	▶ +/- 2° C
VACUUM PUMP	▶ Agilent IDP-7 Dry Scroll Pump
RECIPES	▶ Unlimited process steps and recipes

## GENERAL DIMENSIONS/WEIGHT

LID CLOSED (WxDxH)	▶ 74.0 in x 41.7 in x 44.3 in
LID OPEN (WxDxH)	▶ 74.0 in x 41.7 in x 70.3 in
DISPLACEMENT	▶ 78.2 cu ft.
FOOTPRINT	▶ 21.2 sq ft
MACHINE WEIGHT	▶ 1,350 lbs
FLOOR LOADING	▶ 80.5 lbs per sq foot

## POWER SUPPLY

VOLTAGE	▶ 208-240 VAC, L1 - L2 - G/PE
PHASE	▶ Single
FREQUENCY	▶ 60 Hz
CURRENT (Main Breaker)	▶ 50 Amp
FACILITIES WIRE SIZE	▶ 8 AWG (Minimum)
ELECTRIC PLUG/RECEPTACLE	▶ NEMA 60-50P/R
PEAK POWER CONSUMPTION	▶ Full Load Amps = 40 Amps

## EXHAUST

SIZE	▶ Round, 4 in
FLOW RATE	▶ 200 cfm

CONNECT FOR MORE INFORMATION

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