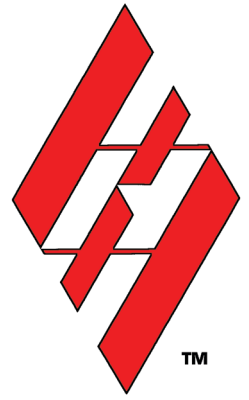


Vacuum Forming Skin Packaging Machinery 420 V Series



Standard features:

Low Power Usage/Rapid Cycle Times
Cantilevered Oven
Cantilevered Film Frame
Cantilevered Film Roll Carrier
Positive Locking Film Roll Retainer
Film Guide
Self Lubricating Film Frame Bushings
Gravity Down Stroke Film Frame
High Efficiency Tubular Heating Elements
"Balanced Heat" Oven Design

High Power P. D. Vacuum System
Steel Platen Supports
Steel Monocoque Construction
High Efficiency Vacuum Turbine
Heavy Duty Industrial Finish
Blister Blow-off
Recessed Instrument Panel
Fully Automatic Push Button Operation
Convection Cooled Oven Towers
Stainless Steel Oven Guides

Full Manual override Controls
Production Monitor (Push Button Reset)
Factory Set (Internal) Pressure Regulator
Air Filter/Lubricator
Pressure Gauge
Vacuum Gauge
Vacuum Range Control
Plug In Relays
Solid State Timing Modules
Self Aligning Oven Drive

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Efficiency – Performance – Reliability

The 420 V series provides the ultimate in versatility for the vacuum forming/skin packaging industry. By combining two complete vacuum systems, a high volume turbine, and positive displacement (surge tank), the 420 V can do the work of two more limited machines. The positive displacement system or a combination of the two systems is ideal for vacuum forming. The two vacuum systems can be operated independently or sequentially. The first step in the development of the 420 V series was extensive market research to determine the needs and requirements of the entire industry, from the part-time user to the full-time professional. This data has been incorporated into the design of the 420 V Series. A Research and development program spanning over three decades has resulted in the most advanced and reliable vacuum forming machines available. The 420 V Series is equipped with one of the longest list of standard features, including those most desired by professionals.

Examples include:

- ◆ An oven drive system which incorporates a center mount, self-aligning drive coupling;
- ◆ Two independent vacuum systems
- ◆ Cantilevered oven, film frame, and film roll carrier to allow for smooth, efficient production flow and high visibility during the loading sequence.
- ◆ “User Friendly” controls (no computers to access or program)
- ◆ Heavy duty, high efficiency tubular heating elements for long life and immediate heat (no “heat-up or “cool-down” cycles).

CONTROL PANEL HIGHLIGHTS:

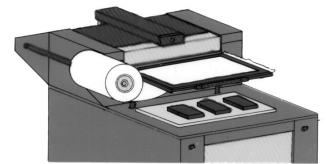
- ◆ Pressure gauge indicates the proper air pressure for operation.
- ◆ Vacuum gauge indicates the amount of vacuum being developed during the vacuum cycle.
- ◆ Vacuum range control regulates the exact amount of vacuum needed for the job.
- ◆ Independent heat and vacuum controls assure precise, consistent cycles.
- ◆ Production monitor automatically keeps track of production rates (push button reset)
- ◆ Indicator lights register all functions.
- ◆ Functional layout, with analog controls, allows easy operation without the need for entry codes or programing.
- ◆ Recessed, yet readily accessible instrument panel aids in quick setup and consistent cycles.

Instrumentation:

- ◆ With the push of a button, a fully automatic sequence produces top quality formed products time after time.
- ◆ Full manual override controls for test and one-of-a-kind samples.

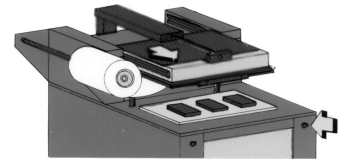
OPERATION SEQUENCE:

1 - Mold in place and film pre-loaded

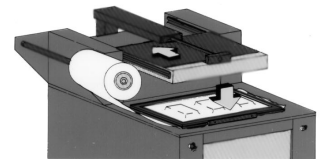


2 - Push start button, an automatic sequence of events follows:

a. Oven extends and heats film



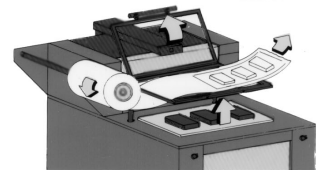
b. Film frame lowers and vacuum systems are activated



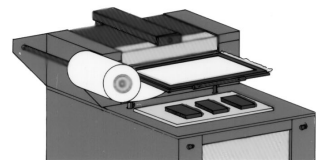
c. Film is formed

d. Oven retracts

e. After cooling cycle, blister blow-off is activated and film frame returns to up position.



3 - Open film frame and pull formed material to right and re-clamp frame, film is pre-loaded and machine is ready for next cycle.



OPTIONS:

Percentage heat controls	Hot wire cut-off
2 roll film carrier	Specified electrics
Internal air compressor table	Accessory work

STANDARD MACHINE SIZES:

420 V-18"x24"	420 V-24"x36"	420 V-30"x36"
420 V-24"x30"	420 V-24"x48"	420 V-30"x48"

Film Thickness: 1 to 125 mil.
40 PSI air supply required

Min. Wall Clearance 24"
Working Height 32"

HANNAN®

Made in the U.S.A.

HANNAN PRODUCTS CORP.
220 NORTH SMITH STREET, CORONA, CA. 92880
FAX: (951) 735-0827
TELEPHONE: (951) 735-1587 / (800) 954-4266
Website: www.hannanpak.com
Email: sales@hannanpak.com