



DUPLEX HEATER HEAVY DUTY VACUUM FORMING MACHINE

Models 4040AVF
6040AVF 8040AVF
8060AVF 10048AVF



8040AVF Thermoforming Machine with Roll Feed

Ridat's AVF range is designed for consistent production of thicker materials and can be used with all common thermoforming materials between 0.5-12mm in thickness.

Reliability & Durability

Robustly constructed, the AVF range is durable and proven in multi-shift operation for reliable production.

Easy Control

User-friendly HMI operator panel for easy setup (prior to automatic operation). The speed and timing of processing variables are easily adjustable and settings can easily be stored for subsequent use.

Safety

Ridat machines are produced to high safety standards and conform to the latest harmonised standards relating to the Machinery Directive, Low Voltage Directive and Electromagnetic Compatibility Directive. All machines are CE marked in accordance with current European legislation.

No Extras Needed

Various features are included in the standard specification of these Ridat models, including:

- Systems to control sheet sag during heating
- High velocity cooling fans
- Water cooled heat reflector

THE NEXT GENERATION

EasyAccessibility

Front entry offers easy accessibility for fitting moulds and maintenance. Plugs can be adjusted both vertically and horizontally and are powered by a pneumatic cylinder.

Heating

Using both upper and lower ceramic heaters ensures balanced temperature distribution to minimise material stress. The dual ceramic heaters also enable a wide variety of materials (such as PVC, PS, APET, GPET, HDPE, ABS, STYROLUX, BAREX and K-Resin) to be used in the machines. Temperature can be monitored by PID software and can be controlled using the HMI operator panel.

Forming

The duplex heater system enables the thickest materials to be heated with minimum material stress, whilst also providing the flexibility to use the optimal heating pattern appropriate to the material and the product being formed.

A photoelectric sensor, mounted on an adjustable arm, controls the bubble height, which in turn enables the material to be pre-stretched. A high capacity vacuum reservoir and vacuum pump enable an instant vacuum to be created, regardless of the production rate or material used. After forming, the material is cooled by high velocity turbo fans.

The clamp frame is exceptionally rigid. It is raised by four cylinders (two on each side) and guided by a rack and pinion mechanism to ensure precise alignment. The mould table is fitted with a central vacuum port and can feature a water-cooled platen. The mould chamber is fully panelled to maintain a vacuum.

Typical applications include: automobile components, aircraft components, suitcase shells, refrigeration doors, bathtubs, shower trays, wash basins and point of display stands.

Optional features include:

- Plug assistance
- Pyrometer for heating or cooling
- Servo for drape (or plug) movement
- Reel / sheet-feed attachment
- Pre-heat oven



Brief Technical Specifications

MODEL		4040 AVF	6040 AVF	8040 AVF	10048 AVF
Sheet Size	m	1.0 x 1.0	1.5 x 1.0	2.0 x 1.0	2.5 x 1.2
	inch	40 x 40	60 x 40	80 x 40	100 x 48
Depth		16" (400 mm)			
Air Usage	ltr/cyc	642	1250	1550	4043
Power Usage	kw	45	68	90	160
Fans	nos	2	4	6	8
Vacuum Pump	kw	1.2	3.75	3.75	7.5
Floor Area	m	1.7 x 3.3	2.3 x 3.4	2.7 x 3.4	3.4 x 4.0
Height	cm	276	326	376	441
Weight	kg	2160	3120	4454	5530

The above figures should be taken as typical example only. Complete specifications supplied on request.



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