



VAPOMAT HT

Premium
Conditioners
and
Heat- Setting
Machines.
Made in
Germany.

TÜV AND ASME ENGINEERED AND MANUFACTURED



HEAVY DUTY PRODUCTIONS

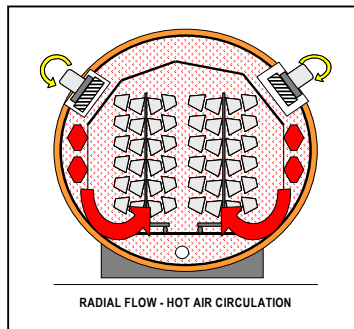
VAPOMAT systems are heavy duty and high performance heat- setting machines for all applications, available in various diameters, lengths, and temperature ranges.

EUROPEAN VESSEL CERTIFICATION

VAPOMAT machines are engineered according to CE- Norms and harmonised EUROPEAN VESSEL CODE, certified by the German TÜV as well as American ASME CODE..

MADE IN GERMANY

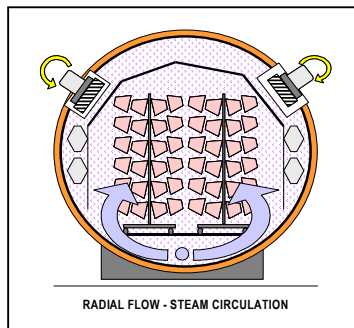
WELKER machines are entirely manufactured in GERMANY and engineered and welded under supervision of the German authorities.



RADIAL FLOW HOT AIR SYSTEM

The VAPOMAT with RADIAL FLOW pre-heating system incorporates one or more powerful radial fans placed to collect the air inside the autoclave and redistribute it to the yarn, with the objective **to reduce water condensation during the process.**

The system will be in motion during both the pre- heating and the steaming phase.



This sophisticated circulation system results in a permanent and even steam flow around the material. Big differences of moisture due to condensation can no longer happen inside the autoclave, **water droplets are eliminated completely.**

HIGH SETTING QUALITY

WELKER VAPOMAT

HOT AIR RADIAL FLOW

FIRST VACUUM CYCLE

FIRST SATURATED STEAM

SECOND VACUUM CYCLE

SECOND SATURATED STEAM

FINISHER VACUUM CYCLE

= BEST QUALITY

PROCESSES

CARPET BACKS

BULK ACRYLIC YARNS

CORE YARNS

CONDITIONING CYCLES

SEWING THREADS

SHRINKING OF PA HOSIERY

FIXATION OF TEXTURISED

FIXATION OF PE BELTS

FIXATION OF ROPES

AUTOLOAD

Automatic loading and unloading system with a transport chain inside the machine, to avoid double space using a platform.

Other automatic loading and unloading systems are possible. Please get in contact with us.



STEAM GENERATOR "CASCADE"

The VAPOMAT can be equipped with automatic VAPORATOR steam generator with CASCADE energy management system (OPTIONAL).

This new and exclusive energy system developed by WELKER allows energy cost reduction of up to 30% of the bill cost, keeping the installed energy and demand cost on a 50% level of regular steam generators.



VAPORATOR

Fully automatic electric steam generator of the EU Type "24 hs.", according to the valid EU norms and authorised for installation of any country of the EU.

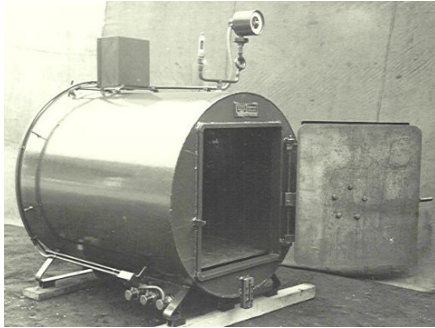


SOFT STEAM

The digital control system DOSITRON 18 can be adjusted to allow a temperature ramp for soft steam inlet, thus providing smooth temperature increases and preventing any temperature shock to the goods.



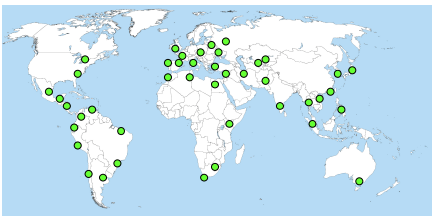
OUR PROFILE



1856: PIONEERS IN VACUUM

WELKER was founded in 1856 by Philip Welker, and is therefore, one of the most traditional suppliers for the Textile Industry. In the early 40's, WELKER started with the manufacturing of felt washing machines, paper processing machine lines with roller fulling and hammer die cutting machines.

In 1941 the first generation of vacuum steaming equipment was developed and successfully introduced to the market. WELKER systems are installed world wide and are applied in all areas of heat- setting, conditioning and drying.



WELKER IN THE WORLD

With more than 2.100 machines installed over the world and agents in all textile markets we provide project sales, installation and services to all textile customers in all markets.



VAPORATOR

TÜV- Stamped electric steam generators up to 200°C for external preparation of steam, manufactured according to valid norms of the CEE- European Union with ECO- SYSTEM and ECOCYCLE for better energy management.



CONDIBOX GFY

Leading product for conditioning and drying of GFY.



VAPOMAT COMPACT HT

Compact all- in HT system for conditioning and heat- setting with temperatures up to 150°, where the steam generation is integrated inside the vessel. Also indicated for laboratory and small batch production.