

hawo



LIFE SCIENCE 4.0

hv 321 K-V MediVac

V.1.2

havo hv321 K-V MediVac

VACUUM CHAMBER MACHINE FOR PACKAGING INDUSTRIAL, MEDICAL AND PHARMACEUTICAL DEVICES.

havo hv321 K-V MediVac

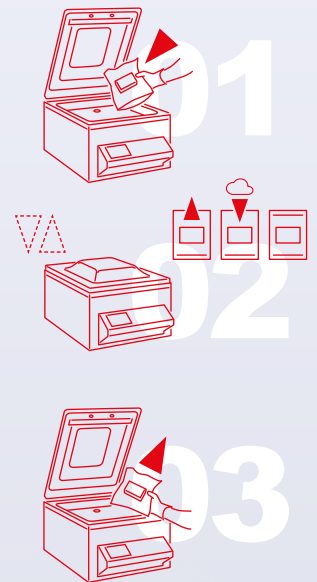
Vacuum chamber machines in stainless steel for the evacuation and / or gas flushing of flexible plastic packaging. The hv 321 K-V MediVac vacuum chamber machine has been developed to address the special needs of the medical and pharmaceutical supplies (life sciences) as well as industrial and consumer goods. It guarantees GMP-compliant packaging in relation to packaging quality and process reliability. The vacuum and gas flushing time can be adjusted independently of each other. The sealing and cooling temperature can be set individually for the selected packaging material. Precise temperature control ensures consistent quality of the sealing seam. The machines are suitable for high volume use in multi-shift operation. The sealing process can be validated in accordance with the requirements set out in ISO 11607-2 :2019 and CEN ISO/TS 16775.

PROCESS.

The filled pouches are placed in the open chamber and positioned with the unsealed side on the sealing bar.

Once the chamber cover is closed, the packaging process begins automatically. After evacuation, any gas flushing required and sealing of the packaging have taken place, the chamber opens automatically.

The finished packaging can be removed. The machine is ready for the next packaging process.



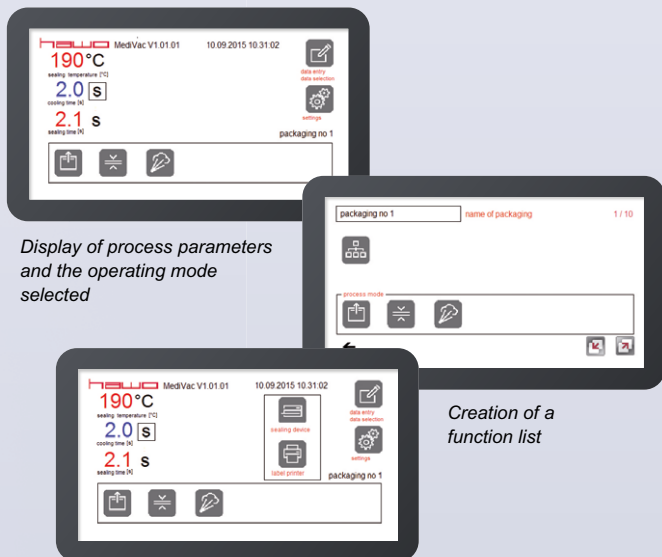
hvo 321 K-V

AppCtrl – TOUCHSCREEN.

The communications module with a 4.3" TFT colour touchscreen has input applications developed especially by hawo that make operating the machine simplicity itself (AppCtrl). The following functions are also intuitive and easily grasped:

- > Display of process parameters
- > DataMatic: Recording of process variables in the memory and on USB stick for transfer to an external PC
- > Creation and backup of 50 function lists with process parameters and operating modes
- > User statistics
- > Password-protected inputs

Operation is made even easier thanks to the hawo IntelligentScan function: individual specifications for the sealing and vacuum parameters can be programmed quickly and easily via the barcode scanner and barcode lists for the various materials. The barcode lists themselves can be generated individually using the software supplied (e.g. different temperatures).



Display of process parameters and the operating mode selected

Creation of a function list

Data input menu

DataMatic

With DataMatic, all process data can be saved to a USB stick, and transferred to an independent computer for further data processing.

DocLink – COMMUNICATION.

The monitored critical process parameters are clearly displayed on the touchscreen, recorded by the machine, documented and can be processed further via the supported interfaces.

FLEXIBILITY AND PERFORMANCE.

The hawo hv 321 K-V MediVac vacuum chamber machines feature a raft of properties that make evacuation, gas flushing and sealing user-friendly, safe and easy. The 8 mm (0.3 inch) wide sealing seam as well as the individual setting options for the critical process parameters offer maximum flexibility when it comes to choosing the packaging materials, such as:



VALIDATION ACCORDING TO EN ISO 11607-2.

The EN ISO 11607-2:2019 standard requires packaging processes of medical devices to be validated. When it comes to sealing, the sealing variables must be monitored. The CEN ISO/TS 16775 provides guidelines for how to carry out process validation. During the validation of the sealing process, the sealing variables are determined for the packaging material being used. The process must then deliver the perfect sealing seam with these settings. Professional sealing devices are therefore essential for the proper closure of medicinal device packaging. The hv 321 K-V MediVac vacuum chamber machine has an integrated function for monitoring the sealing process and therefore meets the standard requirements.

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TECHNICAL DATA

Mains connection	400 V / 3-phase + N + PE / 50 Hz
Power consumption (during the vacuum and gas-flushing process)	1,078 W
Power consumption (only during the sealing process)	2,800 W
Dimensions W x D x H	495 x 650 x 370 mm (19.5 x 25.6 x 14.6 in)
Housing	Stainless steel AISI 304
Weight	74 kg (163 lbs)
Seal seam width	8 mm ± 1 mm (0.3 inch ± 0.04 inch)
Seal seam length	400 mm (15.8 in)

VACUUM AND GAS FLUSHING

Pump output	21 m ³ /h
Vacuum	50 - 99 %
Gas/residual vacuum	50 - 99 %
Permissible inert gases	CO ₂ , N ₂ , CO ₂ + N ₂ + Ar
Soft ventilation	10 - 99 %

PACKAGING MATERIALS

Maximum pouch size	400 x 500 mm (15.6 x 19.7 inch)
Film made of polyethylene, polypropylene	x
Film made of PVC	x
Film made of peelable PA/PE	x
All types of laminate, including aluminium laminate	x

ELECTRONICS

Sealing system	Impulse
Control	Microprocessor

OPERATION AND COMMUNICATION

Operation	Touchscreen (optional IntelligentScan)
Interface	USB, RS 232, Ethernet

PROCESS VARIABLES AND PARAMETERS

Sealing temperature	max. 210 °C (410 °F)
Sealing time	0.5 - 10 s
Contact pressure	< 200 N
Cooling temperature	80 - 210 °C (176 - 410 °F)
Cooling time	0.5 - 10 s

CONTROL FUNCTIONS AS PER EN ISO 11607-2

Process sequence	automatic / reproducible
Process variables	monitored
Automatic switch-off in the event of process variables deviation	x
Warning function in the event of process variables deviation	x

ACCESSORIES

Label printer	x
IntelligentScan barcode scanner & software	x
PC-dokumentation software ProDoc	x

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