

hako



PATIENT SAFETY 4.0

hm 460/660 AS-V

V.1.0

hm 460/660 AS-V

VALIDATABLE IMPULSE SEALERS FOR THE PACKAGING OF SEALABLE POUCHES AND REELS (SBS).

hm 460 AS-V hm 660 AS-V

The validatable hm 460 AS-V and hm 660 AS-V impulse sealing devices are used for sealing sealable pouches and reels (SPS). The footswitch-operated and magnetic sealing system makes them ideal for constant use (for example in hospitals and the medical industry). The intuitive control makes menu navigation and data entry especially easy. Alternatively, the devices can also be programmed very easily using a barcode scanner (hawa IntelligentScan).

The machines are ideally suited for sealing all kind of medical products, implants, pharmaceutical products and industrial products.

The impulse sealer fulfills the requirements of the guideline of the World Health Organisation (WHO) as well as the new guideline of the World Federation for Hospital Sterilisation Sciences (WFHSS). Validatable sealing process according to EN ISO 11607-2: 2019 and the international guidance ISO/TS 16775.



hm 460 AS-V
with tray

FLEXIBILITY AND PERFORMANCE.

hawo impulse bar sealers have a number of features ensuring that sealing is user-friendly, safe and easy. The 8 mm (0.3 inch) wide sealing seam and the customisable settings options for the process variables therefore offer maximum flexibility when it comes to choosing packaging materials, such as:

- > *Polymer materials (e.g. polyethylene, polypropylene, polyolefins, PVC)*
- > *Sealable paper pouches (EN 868-4)*
- > *Sealable paper/plastic pouches and reels (EN 868-5)*
- > *Uncoated nonwoven materials of polyolefines (EN 868-9)*
- > *Adhesive coated nonwoven materials of polyolefines (EN 868-10)*
- > *All types of laminate, including aluminium laminate*

OPERATION.

- > *Programming and data input is easy via the control panel, the IntelligentScan system or the optional SealCom Pro communication module.*
- > *The machines can be equipped with the hawo ProDoc software for legally secure recording of the sealing process.*
- > *The optionally available stand allows machines also to be set up at an angle or vertically.*

The sealers are available in bar widths of 450 mm and 630 mm (cutting lengths 360 mm and 540 mm).



ProDoc DOCUMENTATION SOFTWARE.

hawo ProDoc PC-documentation software, legally compliant process documentation is seamlessly and completely possible. The software automatically receives the parameter data of the process variables as well as other relevant protocol data (e.g. machine number, personnel number, etc.). The sealing protocols are digitally signed and legally archived in a PDF format protected against unauthorized changes.



SealCom PRO

OPTIONAL COMMUNICATION MODULE.

Optional the communication module SealCom PRO with 10.4 inch colour touchscreen is available, resolution 1024 x 768 xGA. The system allows create and backup of 50 function lists with process parameters and operating modes. The process parameters are recorded to a USB stick by DataMatic automatically and transferred to an external computer for further data savings.



DYE PENETRATION. EYEDROPPER METHOD. hawo InkTest ASTM F1929

The hawo InkTest is a classic test method for detecting seal leaks in porous medical packaging by dye penetration as per ISO 11607-1 and ASTM F1929. To do this, a special test fluid is pipetted into the pouch or film tube. Any irregularities (e.g. channels) therefore become immediately visible. Thanks to the practical pipette, sealing seams can be tested from both sides. The hawo InkTest comes in a 75 ml bottle with the eyedroppers and a drip container.

hawo InkTest ASTM F3039-15.

While the traditional ASTM F1929 ink test is used for porous packaging materials, the ASTM F3039-15 is intended for non-porous packaging materials.

hm 460 AS-V

hm 660 AS-V

APPLICATION AND CERTIFICATIONS

Particularly suitable for use in Life Science, medical industry Life Science, medical industry	x	x
Compliance with EN ISO 11607-2:2019	x	x
Compliance with CEN ISO/TS 16775	x	x
Compliance with DIN 58953-7:2010	x	x

POWER SUPPLY DATA

Mains connection	230/115 V	230/115 V
Mains frequency	50/60 Hz	50/60 Hz
Power consumption (only during the packaging process)	2,800 W (16 A, characteristic curve G (K))	2,800 W (16 A, characteristic curve G (K))

TECHNICAL DATA

Dimensions W x D x H	530 x 330 x 220 mm (20.9 x 13 x 8.7 in)	700 x 330 x 220 mm (27.6 x 13 x 8.7 in)
Weight	25 kg (55.1 lbs)	25,5 kg (56.2 lbs)
Seal seam width	8 mm (0.3 in)	8 mm (0.3 in)
Cutting length	360 mm (14.2 in)	540 mm (21.6 in)

SEALING MATERIALS

Sealable paper pouches according to EN ISO 11607-1/EN 868-4	x	x
Sealable pouches and reels according to EN ISO 11607-1/EN 868-5 made of film and paper according to EN 868-3	x	x
Sealable pouches and reels according to ISO EN 11607-1/EN 868-5 made of film and uncoated materials made of polyolefine according to EN 868-9 (e. g. Tyvek® ¹)	x	x
Sealable pouches and reels according to ISO 11606-1/EN 868-5 made of PP fleece or PP nonwoven	x	x
All types of laminate, including coated aluminium laminat	x	x
Polymer materials (e.g. polyethylene, polypropylene, polyolefins, PVC)	x	X

PROCESS VARIABLES AND PARAMETERS

Sealing temperature	max. 250°C (482°F)	max. 250°C (482°F)
Sealing time	0,5 – 10 s	0,5 – 10 s
Contact pressure	fix > 80 N	fix > 80 N
Cooling temperature	50 – 250°C (122 – 482°F)	50 – 250°C (122 – 482°F)
Cooling time	0,5 – 10 s	0,5 – 10 s

ACCESSORIES

Tray	x	x
Label printer	x	x
Stand for conversion to a floor mounted machine	x	x
Operation via IntelligentScan	x	x
SealCom Pro (optional communication module)	x	x
PC-documentation software ProDoc	x	x

¹ Tyvek® is a registered trademark of E.I. du Pont de Nemours.

Technical modifications reserved
07/2021 | 9.344.103



hawo GmbH
Obere Au 2-4
74847 Obrigheim
Germany
T +49 (0) 6261/9770-0
F +49 (0) 6261/9770-69
info@hawo.com
www.hawo.com

hawo USA:
hawo
150 North Michigan Avenue
35th Floor
Chicago, Illinois 60601
T +1 312 585 8329
F +1 312 644 0738
info@hawo-usa.com
www.hawo-usa.com

hawo ASIA:
hawo
25 International Business Park
#03-105 German Centre
Singapore 609916
T +65 6433 5339
F +65 6433 5359
info@hawo-asia.com
www.hawo-asia.com

Follow us:

