



AUDION

Packaging Machines

Together we make the perfect package

Validatable Audionvac

VAL VMS 163B (tabletop)
VAL VMS 333 (single chamber)
VAL VMS 503 (double chamber)

Equipped with:
Audion Touch Techware
Version VC7.08

Technical
Specification Sheet

Rev.09

Features of Validatable Audionvac:




- Complies to ISO 11607-2 validation requirements for sealing
- Process variables to be controlled and monitored:
 - Vacuum / gas pressure
 - Seal temperature
 - Seal time
 - Seal pressure
- Equipped with accurate Audion Temperature Controller (ATC)
- Equipped with user friendly touchscreen interface (ADC)
- Automatic stop of cycle if one of the process variables has exceeded alarm limit
- Process variables can be calibrated
- Seal data can be logged and exported to PC via USB stick
- Access level controllable by login passwords for different user levels
- Bi-active 8mm seal bars




General specifications	
Type of machine	Validatable vacuum chamber
Control system	Audion Touch Techware Equipped with Audion Temperature Controller (ATC) + 7 inch touchscreen (ADC)
Seal system	Bi-active seal, 8mm flat seal, impulse seal
Vacuum system	Busch R5 Oil-Lubricated Rotary Vane Vacuum Pump

Available models			
Type	Table model	Single chamber model	Double chamber model
Chamber material	Stainless steel	Stainless steel	Stainless steel
Models	VMS 163 B	VMS 333	VMS 503
Power supply	230V – 1P – 50Hz (standard) 115V – 1P – 60Hz (option) 200V – 3P – 50/60Hz (option)	400V – 3P – 50Hz (standard) 220V – 3P – 60Hz (option) 200V – 3P – 50/60Hz (option)	
Pneumatic supply	0.3 MPa		

Technical specifications		
Recipe	Storage	50 recipes
	Recipe backup (.bin file through USB stick)	Copy recipe to USB Load recipe from USB
Process parameters	Vacuum pressure Setting range Tolerance range	25 – 700 hPa 0.0 – 20.0 % (default 10.0%)
	Gas pressure (optional) Setting range Tolerance range	25 – 700 hPa 0.0 – 20.0 % (default 10.0%)
	Seal temperature Setting range Tolerance range	100 – 200 °C 0 – 20 °C (default 5 °C)
	Seal pressure Setting range Tolerance range	1200 – 1800 hPa (Increment : 10 hPa) 0 – 150 hPa (default 100 hPa)
	Seal time Setting range	0.8 – 10.0 sec.
	Cooling temperature Setting range	50 – 150 °C
Adjustable parameters	Fine tuning for calibration	Vacuum pressure Seal temperature Seal pressure
Validation functions	Parameter monitoring (alarm stop)	Vacuum/gas pressure Seal temperature Seal pressure Effective seal time Cooling time
	Data logging (.csv file through USB stick)	Machine ID Login level Recipe name Batch number Parameter settings Parameter tolerances Alarm limits Date/time Seal ID Parameters results Pass/fail Alarm code
System & functions	Login level	Operator Supervisor (password access) Administrator (password access)
	Language	English Netherlands German French Italian Japanese Czech Chinese
	Alarm history	Date/time Alarm code/descriptions
	Counter	Bag counter (resettable) Machine counter (non-resettable)

Table model	
Model	 <p>VMS 163 B</p>
Chamber material	Stainless steel
Machine dimensions (WxDxH) - lid closed	500 x 800 x 420 mm
Seal bar configuration	Front
Effective chamber dimensions (WxDxH)	400 x 460 x 120 mm
Seal length	400 mm
Seal width	8 mm
Vacuum pump	21 m3/h


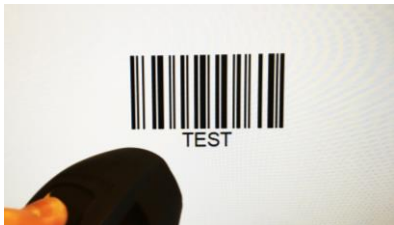
Single chamber model			
Model	 <p>VMS 333</p>		
Chamber material	Stainless steel		
Machine dimensions (WxDxH) - lid closed	920 x 825 x 1125 mm		
Seal bar configuration	Front / Right	Left / Right	Front / Rear
Seal length	790 / 475 mm	545 mm	790 mm
Effective chamber dimensions (WxDxH)	790 x 475 x 200 mm	700 x 545 x 200 mm	790 x 460 x 200 mm
Seal width	8 mm		
Vacuum pump	100 m3/h		

Double chamber model		
Model	 <p>VMS 503</p>	
Chamber material	Stainless steel	
Machine dimensions (WxDxH) - lid closed	2420 x 1210 x 1160 mm	
Seal bar configuration	Front / Rear	Left / Right
Seal length	1080 mm	820 mm
Effective chamber dimensions (WxDxH)	1080 x 730 x 280 mm	1000 x 820 x 280 mm
Seal width	8 mm	
Vacuum pump	300 m ³ /h	


Accessories / Services	Codes	Descriptions
Parameter verification	ATM	Seal temperature verification set
	ASPM	Seal pressure verification set
	AVLM	Vacuum pressure verification set
Calibration	SERVKAL VAC AE	Audion factory calibration
IQ/OQ Check	IQ/OQ VAL	1 x IQ check for 1 machine > Operation training (max. 4 persons) > Maintenance training (max. 4 persons) OQ check for 1 type of bag > Peel test for defining seal temperature > Peel test with defined seal temperature > Dye penetration test > Seal check
	OQC	Extra OQ check for each extra bag
Seal integrity test	SIT	Seal integrity test service > Peel test > Dye penetration test > Seal check
	APT 100	Peel tester
	ASC SHEET	Seal check sheet
	ASC ROLL	Seal check sheet in roll
	ASC INK-B	Blue ink for dye penetration test

Options	
Gas flush	Gas can be injected inside bags before sealing
External exhaust	Exhaust from vacuum pump and valves will be discharged outside of cleanroom through a hose
External pump	Vacuum pump is placed outside of cleanroom
User administration	Personal login ID, password, and user level assignment
Barcode scanner	Quick recipe change by scanning a barcode (Scanner : Honeywell Voyager 1400g)
Labeller	For printing tracing information on labels and apply on bags (Label printer : CAB MACH2)

Barcode scanner

Labeller






Type	VMS 333 VAL
Mach ID	ETD20055
Username	
Recipe	SEAL160
Batch nr.	Init

Date (YY-MM-DD)	21-02-17
Time (HH:MM:SS)	11:08:29
Seal ID	15
Pass/Fail	Pass
Alarm nr.	

Data logging file

AUDION ELEKTRO LOG FILE										
Machine ID:	ETO18108									
Username:	Operator									
Recipe:	TEST									
Batch:	ABC12345									
		Seal Time	Seal Temp	Seal Temp 2	Seal Pressure	Cool Temp	Cool Temp 2	Vac level1		
	Setpoint	5	180	180	1200	90	90	100		
	TOL	0.3	5	5	100	10	10	10		
	UAL	5.3	185	185	1300	100	100	110		
	LAL	4.7	175	175	1100			90		
Date&Time [YYYY-MM-DD hh:mm:ss]	Seal ID	Seal Time	Seal Temp	Seal Temp 2	Seal Pressure	Cool Temp	Cool Temp 2	Vac level1	Pass/Fail	Alarm Code
2019/9/18 14:09	1637	5	179.7	179.6	1201.6	89.5	89.6	99	Pass	
2019/9/18 14:09	1638	5	179.7	179.7	939.4	89	88.5	101	Fail	30
2019/9/18 14:10	1639	0	0	0	0	49.4	0	111	Stopped	
2019/9/18 14:10	1640	5	179.7	179.6	1201.3	89.3	88.9	100	Pass	

Measuring instruments for parameter verification	
<p>Seal temperature</p>  <p>ATM</p>	<ul style="list-style-type: none"> ● Measurement range: -50°C to 260°C ● Resolution: 0,1°C (up to 199,9°C) / 1 °C (above 200°C) ● Accuracy display unit: 0.3% of reading + 1°C ● Accuracy sensor: +/- 2,2 °C or +/- 0,3% of measurement (whichever is larger) ● Measuring rate: 2,5 per second ● Minimum and maximum values readable ● Operating conditions: +5 ... 50 °C, 30 – 70% RH (non-condensing) ● Power supply: 9V battery ● Battery life: +/- 100 hours ● Dimensions: 63 (W) x 186mm (L) x 40mm (D) ● Weight: 350 grams
<p>Seal pressure</p>  <p>ASPM</p>	<ul style="list-style-type: none"> ● Measurement range: -2000...+2000 hPa (High) / -200,0...+200,0 hPa (Low) ● Max. Overload: max. +/- 3100 hPa ● Resolution: 0,1 hPa (0,0 – 200,0 hPa) / 1 hPa (200 – 2000 hPa) ● Accuracy: <ul style="list-style-type: none"> Typ. : +/- 0,1% FSS Max. : +/- 1% FSS ● Operating conditions: -25 ... +50 °C, 0 – 95% RH (non-condensing) ● Power supply: 2x AA batteries ● Battery life: +/- 3000 hours (with alkaline batteries) ● Dimensions: 54mm (W) x 108mm (L) x 28mm (D) ● Weight: 150 grams
<p>Vacuum pressure</p>  <p>AVLM</p>	<ul style="list-style-type: none"> ● Measurement range: 0 – 1300 hPa (absolute) ● Max. Overload: max. 4000 hPa (absolute) ● Resolution: 1 hPa ● Accuracy: +/- 0,2% FS (hysteresis and linearity) +/- 0,4% FS (temperature depending) ● Operating condition: -20 ... +50 °C, 0 – 95% RH (non-condensing) ● Measuring rate: 4 per second ● Power supply: 9V battery type IEC 6F22 ● Environmental protection: IP 65 (front side) ● Dimensions: 71mm (W) x 142mm (L) x 26mm (D) ● Weight: 165 grams