

Vertical Top-loading Autoclaves Systec V-Series, Systec



Specially designed for the requirements in laboratories, these autoclaves make sterilization processes safe, accurate, reproducible and validatable.

Three types with different performance categories

Systec VX

For all laboratory applications even for sophisticated state-of-the-art sterilization processes. With all possibilities to add additional options for process optimization to enable validatable sterilization to be carried out.

Systec VE

For basic laboratory applications and media sterilization. With limited possibilities to add additional options for process optimization.

Systec VB

For simple process applications. No options available for process optimization.

Technical data:	Chamber dimen. Ø x depth	Chamber volume in l total / nominal	Extern. dimen. HxWxD in mm	Heating cap. VX-series kW	Heating cap. VE/VB-series kW
V-40	344 x 450	45 / 40	950x500x680	3.5	3.6
V-55	344 x 600	59 / 55	950x500x680	3.5	3.6
V-65	400 x 500	73 / 65	995x550x780	9.0	9.3
V-75	400 x 600	85 / 75	995x550x780	9.0	9.3
V-95	400 x 750	104 / 95	1080x550x780	9.0	9.3
V-100	500 x 500	117 / 100	985x650x900	9.0	9.3
V-120	500 x 600	137 / 120	985x650x900	9.0	9.3
V-150	500 x 750	166 / 150	1115x650x900	9.0	9.3

Electrical connections for Systec V-40 and V-55: 220 – 240 V, 50 / 60 Hz, 16 A.

Electrical connections for Systec V-65 to V-150: 380 – 400 V, 50 / 60 Hz, 16 A.

Other voltages and single-phase available on request. Country-specific deviations possible.



Standard Features

Integrated, separate steam generator
Internal heating elements within the autoclave chamber
Housing, support frame and pressure vessel made of corrosion-resistant stainless steel
Temperature and pressure range 140°C, 4 bar
LCD display and fully automatic microprocessor control
Number of sterilization programs
Code-secured access rights for changing parameters and further safety-relevant intervention
Internal memory for storing up to 10 sterilization cycles
Timer for starting programs
Autofill: automatic demineralized water feed for steam generation
Flexible PT-100 temperature sensor
Additional temperature sensor in condense exhaust
Temperature holding function for liquids after program finish
Special program for Durham tubes
Calculation of F0 value
Special program for waste sterilization with pulsed heat-up for more efficient air exhaust
Water-cooled steam exhaust, thermostatically controlled
Programmable automatic door-opening on completion of program
RS-232 interfaces for external data transmission (network-compatible via adapter)

Available options

Touch-Screen control
Extension of temperature and pressure ranges to 150°C / 5 bar (from chamber volume 65 liters and more)

Options for process optimization

Rapid cooling for efficient and safe cooling of liquids
Vacuum system for validatable sterilization of solids and waste materials in disposal bags
Superdry: for drying solids (only in combination with optional vacuum system)
Exhaust filtration (including condensate inactivation) for safe sterilization of hazardous biological substances

Options for documentation

Integrated printer for batch documentation
Systec ADS documentation software package for comprehensive documentation
Data storage on SD card for up to 10,000 sterilization cycles and transmission of data to a PC
AuditTrail: unalterable and traceable documentation and conformity to FDA 21 CFR Part 11 ²⁾

Systec autoclaves are delivered ready for subsequent installation of all options.

Further options and special programs as well as baskets and inserts, transport and loading systems on request.

¹⁾ On request

²⁾ For Systec VX-65 up to Systec VX-150 in combination with the optional touch display

Systec VX Systec VE Systec VB

Integrated, separate steam generator	•		
Internal heating elements within the autoclave chamber		•	•
Housing, support frame and pressure vessel made of corrosion-resistant stainless steel	•	•	•
Temperature and pressure range 140°C, 4 bar	•	•	•
LCD display and fully automatic microprocessor control	•	•	•
Number of sterilization programs	Up to 25 ¹⁾	12	4
Code-secured access rights for changing parameters and further safety-relevant intervention	•	•	•
Internal memory for storing up to 10 sterilization cycles	•	•	
Timer for starting programs	•	•	
Autofill: automatic demineralized water feed for steam generation	•	•	
Flexible PT-100 temperature sensor	•	•	•
Additional temperature sensor in condense exhaust	•		
Temperature holding function for liquids after program finish	•	•	
Special program for Durham tubes	•	•	
Calculation of F0 value	•	•	
Special program for waste sterilization with pulsed heat-up for more efficient air exhaust	•	•	
Water-cooled steam exhaust, thermostatically controlled	•	•	
Programmable automatic door-opening on completion of program	•	•	
RS-232 interfaces for external data transmission (network-compatible via adapter)	•	•	
Touch-Screen control	+		
Extension of temperature and pressure ranges to 150°C / 5 bar (from chamber volume 65 liters and more)	+	+	
Rapid cooling for efficient and safe cooling of liquids	+	+	
Vacuum system for validatable sterilization of solids and waste materials in disposal bags	+		
Superdry: for drying solids (only in combination with optional vacuum system)	+		
Exhaust filtration (including condensate inactivation) for safe sterilization of hazardous biological substances	+	+	
Integrated printer for batch documentation	+	+	+
Systec ADS documentation software package for comprehensive documentation	+	+	
Data storage on SD card for up to 10,000 sterilization cycles and transmission of data to a PC	+	+	
AuditTrail: unalterable and traceable documentation and conformity to FDA 21 CFR Part 11 ²⁾	+		



Type	Order No.
Systec VX-40	10 12 91040
Systec VE-40	10 12 91240
Systec VB-40	10 12 91400
Systec VX-55	10 12 91055
Systec VE-55	10 12 91255
Systec VB-55	10 12 91410
Systec VX-65	10 12 91065
Systec VE-65	10 12 91265
Systec VB-65	10 12 91420
Systec VX-75	10 12 91075
Systec VE-75	10 12 91275
Systec VB-75	10 12 91430

Type	Order No.
Systec VX-95	10 12 91095
Systec VE-95	10 12 91295
Systec VB-95	10 12 91440
Systec VX-100	10 12 91100
Systec VE-100	10 12 91300
Systec VB-100	10 12 91450
Systec VX-120	10 12 91120
Systec VE-120	10 12 91320
Systec VB-120	10 12 91460
Systec VX-150	10 12 91150
Systec VE-150	10 12 91350
Systec VB-150	10 12 91470

