

Vertical Autoclaves: V-Series

Description

The Systec V-series with vertical upright autoclaves that can be loaded from above is characterized by its small footprint and large usable height.

The advantage: Optimum loading capacity for most standard medium bottles and Erlenmeyer flasks. Up to 50 % more loading capacity.

Specifications

- Integrated steam generator separate from the chamber (VX models only)
- Internal heating elements within the autoclave chamber (VE models only)
- Housing, support frame and pressure vessel made of corrosion-resistant stainless steel
- Temperature and pressure range 140°C, 4 bar absolute pressure
- LCD display and fully automatic microprocessor control
- Number of sterilization programs: Up to 25* (VX models only) 12 (VE models)
- Code-secured access rights for changing parameters and further safety-relevant intervention
- Internal memory for data backup of up to 500 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 exhaust steam condensation, thermostatically controlled
- Programmable automatic door opening at the end of the program
- RS-232 interface for external data transfer (network-compatible)



Vertical autoclaves model V-75

Two Model Ranges of the D Series

VE Series

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

VX Series

Suitable for all laboratory applications. Even for demanding state-of-the-art sterilization processes. With all the possibilities of additional options for process optimization.

Options for Process Optimization

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

Vertical Autoclaves: V-Series

General Technical Data

Model	V-40	V-55	V-65	V-75	V-95	V-100	V-120
Chamber dimensions Ø x Depth (mm)	344 x 450	344 x 600	400 x 500	400 x 600	400 x 750	500 x 500	500 x 600
Chamber volume total/nominal (liters)	45 / 40	60 / 55	73/ 65	85 / 75	104/ 95	117 / 100	137/ 120
Dimensions exterior* (H x W x D)	950 x 500 x 680 mm	950 x 500 x 680 mm	995 x 550 x 780 mm	995 x 550 x 780 mm	1085 x 550 x 780 mm	985 x 650 x 900 mm	985 x 650 x 900 mm
Net weight kg	110	115	125	130	140	175	180
Heat output (kW) Series VX VE/VB series	3,5 3,6	3,5 3,6	9,0 9,3	9,0 9,3	9,0 9,3	9,0 9,3	9,0 9,3
Voltage	220 - 240 V, 50/60 Hz, 16 A	220 - 240 V, 50/60 Hz, 16 A	380 - 400 V, 50/60 Hz, 16 A	380 - 400 V, 50/60 Hz, 16 A	380 - 400 V, 50/60 Hz, 16 A	380 - 400 V, 50/60 Hz, 16 A	380 - 400 V, 50/60 Hz, 16 A

*All dimensions are pure housing dimensions, i.e. without media connections on the rear.

Loading Capacity Erlenmeyer Flasks*

Model	V-40	V-55	V-65	V-75	V-95	V-100	V-120
250 ml	24	23	31	2 x 30	2 x 42	2 x 59	4 x 22
500 ml	12	15	21	2 x 15	2 x 24	2 x 40	3 x 14
1.000 ml	8	9	13	12	18	23	2 x 8
2.000 ml	3	6	8	7	9	14	2 x 6
3.000 ml	-	3	4	6	8	11	4
5.000 ml	-	-	-	3	5	7	3

Loading Capacity Laboratory Flask DURAN® (Schott)*

Model	V-40	V-55	V-65	V-75	V-95	V-100	V-120
250 ml	3 x 17	4 x 17	3 x 20	3 x 20	5 x 20	3 x 30	3 x 30
500 ml	2 x 11	3 x 11	2 x 15	3 x 15	4 x 15	2 x 22	3 x 22
1.000 ml	8	2 x 8	2 x 9	2 x 9	2 x 15	2 x 15	3 x 15
2.000 ml	4	2 x 4	5	2 x 5	2 x 5	8	2 x 8
5.000 ml	1	1	2	2	2 x 2	4	4
10.000 ml	1	1	1	1	1	2	2

*At maximum load, partly without baskets

Loading capacities may vary slightly depending on the option and due to different bottle or flask sizes