THE RODWELL AUTOCLAVE COMPANY

Autoclave & Sterilizer Selection Guide

Size a Rodwell autoclave by load, chamber volume, installation and validation needs.

1 Size the chamber for your load

Range	Capacity	Loading	Best for
Portaclave	15, 22, 30 L	Top, portable	Media preparation and small daily loads; single phase, no plumbing; 4 to 8 × 1 L bottles
Phoenix	40, 60 L	Front, benchtop	Labs short on space; Phoenix 40 holds up to 13 × 1 L bottles
Monarch	50, 75 L	Top	Fits under a bench (Monarch 50, 3 kW); Monarch 75 takes 3 baskets, fermenters and bioreactors
Ensign	100, 125 L	Top	Medium loads; electric 6 or 9 kW, or factory steam
Ambassador	100, 158 L	Front	Medium loads; 158 L available double-door pass-through
Gemini 316	2 × 158 L	Front, twin chamber	Clean media on one side and contaminated waste on the other
Sovereign	200, 250 L	Front, round	High-volume loads
Crystal / Sapphire	300 to 770 L	Front, square	Large and pass-through installations; fan or water-jacket cooling

2 Check installation

- **Power:** single phase for Portaclave and Monarch 50; larger models need three phase or steam.
- **Steam:** internal electric heating, piped factory steam or an integrated steam generator, depending on model.
- **Space and access:** check door swing, loading height, drain and room for service access.
- **Containment:** choose double-door pass-through for clean / dirty separation.

3 Cycles, cooling and records

- **Controls:** Vario (100 to 121°C, 1 to 99 min) on Portaclave V models; MP25 controller on larger units.
- **Liquids:** plan cooling for media loads; large square chambers offer accelerated cooling.
- **Validation:** commissioning, IQ/OQ/PQ, temperature mapping, biological and chemical indicators (SteriGo, SporeGo, Bowie-Dick) and service from Viyon.

Enquiry checklist

- ☐ Load type (media, waste, glassware, instruments)
- ☐ Largest item and daily volume
- ☐ Bottle count and sizes
- ☐ Power or steam available
- ☐ Room size and door access
- ☐ Single or pass-through door
- ☐ Validation and records needed
- ☐ Installation location and date

Need help choosing? Send us this checklist and we will recommend the exact product, pack size and lead time.

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