

ViaFuge® Pilot

The CARR Biosystems ViaFuge® Pilot is a pilot-scale, sedimenting centrifuge designed for separating shear-sensitive materials. It is classified as a light-duty, industrial, solid tubular-bowl centrifuge intended for indoor use.

The Pilot is designed for cell culture separations and is intended to be run primarily in the lower speed range at which highly shear-sensitive cells must be processed. Other applications include mammalian and insect cells, flocculated proteins, and shear-sensitive solutes such as DNA.

Typical applications include:

- Viable cell recovery of CHO, SF9, Vero, MRC5, and other mammalian cells.
- Sterile operations, including media exchange, repeated batch
- Cellular agriculture processing, including process intensification and harvest.

Features

- Complete liquid/solid separations
- Minimizes shear forces on cells
- Simple operation, table-top design
- Integrated Cooling Jacket
- Scalable to larger automated V12 model
- Designs available for:
 - CE Marking
 - Steam-In-Place (ASME/PED Rated)
 - Hazardous Environments

Operating Parameters

Variable Speeds	between 500 - 10,000 x g
Typical Processing Rate*	4L/min*
Max. Bowl Speed	10,840 RPM
Max. Concentrate Density	<1.5 g/ml
Bowl Volume	1.3 L

*Processing speeds are application-dependent and may vary. Please consult factory.

**Weights and dimensions dependent on system configuration and options required.



Equipment Specifications

- 316L SST, Ti-6Al-4V Titanium alloy, EPDM, Platinum cured silicone process contact materials
- Table-top footprint is approximately: 91cm wide x 61cm deep x 76cm high (36" x 24" x 30")**
- System weight (approx.): ~113-136 kg / 250-300 lbs.**

Utility Requirements

- 120V/60Hz (US) or 230V/50Hz (EU)
- Instrument-quality air only, supplied at 275 ± 69 kPa (40 ± 10 psi)