



## CARR® Centritech Separation Systems UFMini® Single-Use Centrifuge



### Personalized Medicine with a Single-Use System

The Pneumatic Scale Angelus' CARR Centritech UFMini® is the scaled-down version of our successful UniFuge® single-use centrifuge, designed for harvesting CHO, Stem, and other cells for biotech and pharmaceutical applications. This user-friendly system is intended for use in cleanrooms, in laminar flow hoods, and on benchtops.

### Features

- Processes scalable to UniFuge Pilot and U2k®
- Flow rate from 29-1000 ml/min
- Variable g-force up to 4000 x g
- Continuous discharge of supernatant and intermittent discharge of cell culture
- Lightweight single-use module with tubeset
- Optional data acquisition for SCADA System via Ethernet connection
- Low noise level (below 80 dB) during operation

# CARR® Centritech Separation Systems UFMini® Single-Use Centrifuge

The UFMini separation system utilizes a gamma irradiated, single-use module that requires NO CIP and NO SIP.

The single-use module is supplied with a tubeset, which can be readily tube welded to your single-use bioreactor connections (customer-specified single-use connectors available upon request).

The UFMini is completely automated with flexible cycle parameters. The feed suspension is gently pumped to the separation zone of the single use module and the cells centrifugally settle to the outer radius, while the clarified supernatant is continuously discharged. Once the user programmed cycle timer has expired, the controller stops the rotor and discharges the cells. This cycle automatically repeats for a user selectable number of cycles based upon bioreactor volume..

## UFMini Technical Specifications

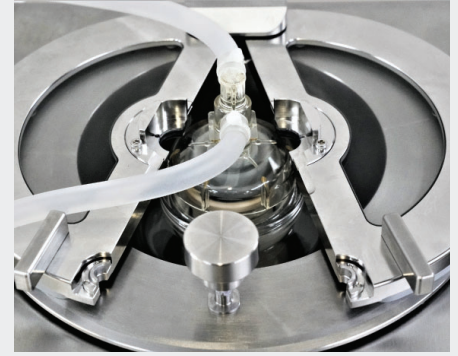
- Designed for use at room temperatures
- Footprint 69cm wide x 56cm deep x 38cm high (27" x 22" x 15" high)
- Total weight of approximately 45 kg (100 lbs)
- Allen-Bradley® PLC
- Allen-Bradley® HMI Touchscreen 22.9 cm (9") - 16:9 aspect ratio
- Fluid connections on left front side of machine; utility connections on right side

## Utility Requirements

- Clean, dry air supply 6 bar (90 psi) @ 57 liters/min (2 CFM)
- Single phase universal power supply 100 to 240 volts, 50/60 Hz, suitable for global use, including:
  - 120V/60Hz, 6A
  - 230V/50Hz, 4A
  - 100V/60Hz/50Hz, 7A
- Four pinch valve configuration: Feed, Concentrate, Supernatant, and Buffer

## Single-Use Module

- Designed for fluid transfer with temperatures in the range of 4-38 °C (39-100 °F)
- 300 ml single-use module with 6mm (1/4") ID and 9.5mm (3/8") OD Silicone tubing
- Continuous discharge of supernatant and intermittent discharge of cell culture
- Components compliant with physiochemical tests:
  - USP <87> <88> Class VI, USP 661 (or ISO 10993) for plastic materials
- Gamma irradiated



Single-use Module

For more information, please contact your CARR Centritech representative at:

5320 140th Avenue North  
Clearwater, FL 33760 USA  
(727) 535-4100

Otto-Hahn-Strasse 54  
D-63303 Dreieich-Sprendlingen  
Germany  
(+49) 6103-38090

Angelus | CARR Centritech | Consolidated | Continental/Closetech | Hema  
Mateer Burt | Multi-Tech Systems | OnTrack | Zepf Change Parts

### Pneumatic Scale Angelus

4485 Allen Road  
Stow, OH 44224 USA

t. +1 (330) 923-0491  
psangelus.com