

CARR Centritech Separation Systems
CARR® Powerfuge® P18



Features:

- Drier solids and clear liquids
- Sealed automatic operation
- Full CIP/SIP designs
- cGMP construction
- Designs available for ASME-rated boundary, hazardous locations and aseptic operations
- State-of-the-art manufacturing facility located in Clearwater, FL.

Barry-Wehmiller

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CARR® Powerfuge® P18

Pneumatic Scale's unique CARR P18 Powerfuge System provides continuous-flow two-phase separation of solids and liquids at rates up to 1,700 liters/hour for batches up to 10,000 liters. Using an innovative design, the feed is introduced through a stationary pipe and accelerated to full rotational speed before entering the titanium-alloy bowl. In this system, centrifugal forces as great as 20,000g permit separation of even sub-micron particles. Compressed solids are periodically removed with a fully-automated scraping cycle. After the solids have been discharged, automated CIP/SIP cycles can be performed via the PLC-controlled operating sequence.

The P18 is designed for ease of operation, with seal feed and drain lines allowing for aerosol-free operation. Similarly, no special tools are required to disassemble the system. Integrated turnkey systems incorporating feed delivery options, CIP and SIP skids, temperature control, and closed-loop centrate pumping under vacuum are available.*

The P18 system meets cGMP and CE requirements and has been validated to meet chemical and pharmaceutical industry protocols. The P18 is engineered to optimize ease of operation while maximizing throughput; each step in the process can be readily automated so that time spent on routine maintenance can be minimized.

Machine Specifications

DATA -

FORCE (VARIABLE): Up to 20,000g ($\rho < 1.5 \text{ kg/L}$)
(Inquire for higher density solids)

POWER (STANDARD): (20 or 30 HP), 480 VAC,
50/60 Hz, 3 Phase
(Other options available)

CONSTRUCTION:
Process Parts: 316L SS/Ti-6AL-4V
Non-wetted Parts: 316 and 304 SS

DIMENSIONS: 60 in (1524 mm) L x
54 in (1372 mm) W x
96 in (2439 mm) H

WEIGHT: 5,000 lb. (2272.7 kg)

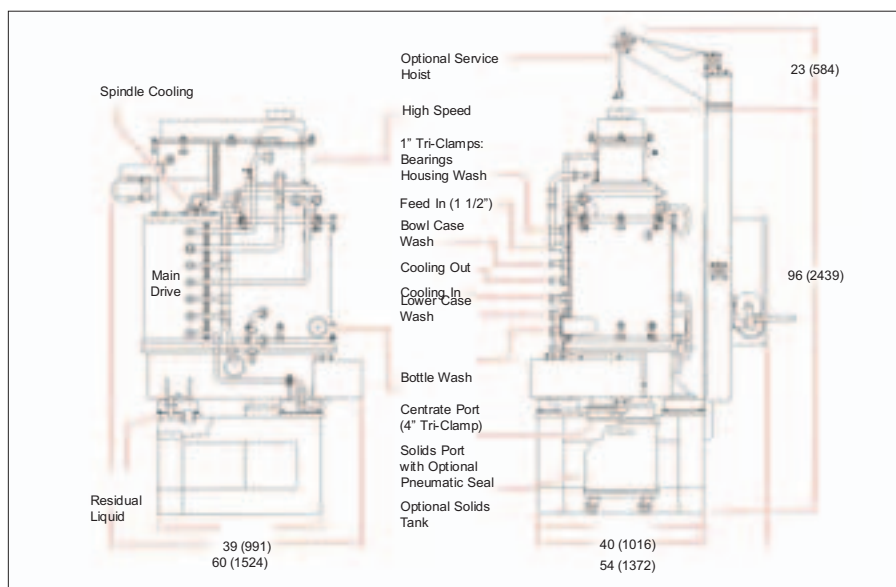
CAPACITY** -

FLOW RATE: 1,700 Liter/hour (nominal)

BOWL VOLUME: 36 Liters

SOLIDS SPACE: 32 Liter (nominal)

DISCHARGE (TYPICAL): 5 Minutes (adjustable)



* Vessels designed for integration with the P18 for vacuum operation and solids handling are available.

** Actual capacity (throughput) is dependent on the characteristics of the fluids, amount and type of the solids and required degree of clarification. Practical capacities may differ substantially for your applications.

Note: Dimensions are displayed in inches (millimeters).

**For more information, contact your CARR Centritech representative at the Clearwater facility listed below.*

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