

## CARR Centritech Separation Systems CARR® Powerfuge Pilot



### Features:

- Complete liquid/solid separations
- Simple operation
- Processing at a rate of up to 1L per minute
- Drier solids, clearer centrates
- Variable speeds up to 20,000 x g
- Fully scalable to larger automated P6, P12 & P18 models
- Hazardous Duty and CE version available

# Barry-Wehmiller

# CARR Centritech Separation Systems

## CARR® Powerfuge Pilot

### Product Overview

There's a point in discovery when you need efficient, high-volume product throughput. And at this point, dealing with bottles would impede productivity. This is precisely when you need the CARR Powerfuge Pilot, the high-productivity, batch liquid/solid separation system for bacteria, yeast, proteins and sub-micron particles with simple cleaning.

The design helps reduce the time required for maintenance, particularly since there are few parts to replace. And when you're at the end of a run, compressed solids are easily removed with minimal time and effort using a hand scraper contoured to fit the 1L capacity bowl.

**Time Saving Operation:** Fast processing at a rate of up to 1L per minute means that you can accomplish more runs in a single day, which is especially useful for larger batch sizes. And because the Powerfuge Pilot eliminates the need for bottles, you can set up runs in less time-- with fewer manipulations.

**Variable Speed For Your Choice of Separating Power:** The Pilot has been equipped with a variable-speed drive. Users can select their desired flow rates of up to 60 L/hr and RCF to 20,000 g, providing the operational control necessary to optimize your process.

**Fully Transportable:** The Pilot may be easily moved from one site to another, since there are no special or lengthy installation requirements like bolt-down. In addition, the system is compact when compared to other products of similar capacities, which helps conserve valuable bench space while giving you more freedom to position the unit in the best possible location.

**A Wide Choice of Temperatures:** An integral cooling jacket helps maintain product temperatures from 2° C - 40° C. The jacket itself can withstand flow rates as high as 2L/minute and internal cooling temperatures as low as -10° C in order to provide the desired net process temperature.

### Components and Specifications:

<b>Force (variable):</b>	Up to 20,000 g
<b>Power:</b>	
- Standard:	9000 PLT 1.0 HP, 120 VAC, 15 Amp, 60 Hz, 1 Phase 9002 PLT 1.5 HP, 230 VAC, 15 Amp, 50/60 Hz, 1Phase
- XP:	9001 PLT 1.5 HP, 230 VAC, 14.4 Amp, 50/60 Hz, 1 Phase
- CE:	9010 PLT 1.1 kW, 1.5 HP, 230VAC, 15 Amp, 50 Hz

#### Construction:

- Process contact parts: 316L SS/Ti-6AL-4V
- Non-wetted parts: 316 and 304 SS, Electroless nickel-coated aluminum

#### Dimensions:

- Centrifuge	
Pilot:	305x584x584mm (12"x23"x23"), weight 150 lbs.
XP:	305x737x635mm (12"x29"x25"), weight 190 lbs.
CE:	330x610x709mm (13"x24"x28"), weight 304 lbs.
- Control	
Pilot:	229x254x406mm (9"x10"x16"), NEMA 4
XP:	381x432x406mm (15"x17"x16") NEMA 4X/7
CE:	203x495x469mm (8"x19.5"x18.5") IP 54

### Easy solids removal and cleaning



Loosen large Tri-clamps to remove bowl case cap...



...remove the centrate case. Lock the bowl in place with the handles on each side...



...place the pegs of the bowl wrench into the notches on the bowl. Carefully unscrew...



...and lift out the bowl.



Place the bowl on its side on a soft surface and use the contoured hand scraper to remove collected solids.

### Options:

#### Vacuum-Equipped Powerfuge Pilot:

The Powerfuge Pilot is also offered with a vacuum option, which aids in temperature control and temperature reduction by limiting frictional heat generation, the reduction of foaming, as well as vapor and aerosol containment. In some applications this vacuum option will increase flow rate. The vacuum configuration creates and maintains a vacuum environment of up to 27" (750mm) Hg.

#### Powerfuge Pilot XP for Hazardous Duty (9001PLT):

Wherever there's a risk of hazards due to mixtures of vapor and air, equipment must be designed to minimize risk. For such an environment, Powerfuge offers a hazardous-duty centrifuge with an inert gas purge system, a NEMA 7 enclosure for motor and system controls, and intrinsically safe wiring.

#### CE Powerfuge Pilot (9010PLT):

With all of the operating capabilities of the Powerfuge Pilot, the CE Powerfuge Pilot has the added benefit of full compliance with the CE European Safety Conformity requirements. The CE Powerfuge Pilot meets the EMC (Electro-magnetic compatibility) directive, CE low-voltage directive, and CE safety measures directive.

For more information, please contact your CARR Representative at the Clearwater location below.

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