

# HYDROCYCLONE COOLANT FILTRATION SYSTEM

## FILTERS UP TO 98% OF CONTAMINANTS WITHOUT FILTER MEDIA

### Dual Vortexes Separate Coolant from Solids

Replacing filter media is time-consuming and expensive. The Hydrocyclone creates ascending and descending vortexes in a cylindrical feed that separates contaminants from coolant without the use of filter media. This design results in consistent, long-term filtration.



Hydrocyclone Coolant Filtration System

### Benefits of Fluid Filtration with the PRAB Hydrocyclone:

- Separates up to 98% of contaminants from fluid
- No filter media to replace
- Reduces coolant replacement frequency
- Improves performance of grinding wheel
- Improves finish of workpiece
- Safe, effective and simple to operate
- Easy to maintain
- Improves tool life

### Applications:

- Water soluble machining coolant
- Filtration of ferrous and non-ferrous materials:
  - o Carbon steel
  - o Stainless steel
  - o Chrome
  - o Copper
  - o Aluminum
  - o Non-metallic materials such as glass and grinding wheel grit

Backed by the **PRAB Difference**

# PRAB HYDROCYCLONE

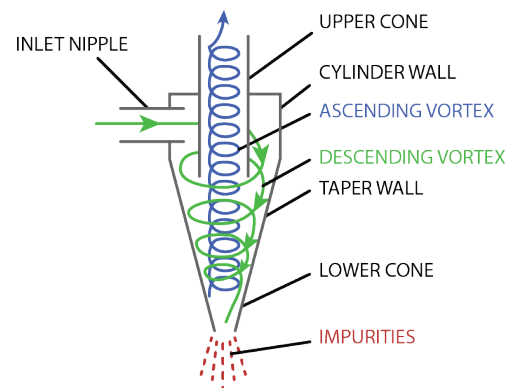
REMOVES UP TO 98% OF CONTAMINANTS WITHOUT FILTER MEDIA

## HC Series Hydrocyclone Specifications

	HC-F1	HC-B1	HC-B2	HC-B3	HC-B4
Number of Hydrocyclones	1	1	2	3	4
Contaminated Water Flow Rate	40 L./min. (10.5 gpm)	70 L./min. (18 gpm)	140 L./min. (37 gpm)	210 L./min. (55 gpm)	280 L./min. (74 gpm)
Clean Water Supply Flow Rate	30 L./min. (8 gpm)	55 L./min. (14.5 gpm)	110 L./min. (29 gpm)	165 L./min. (43.5 gpm)	220 L./min. (58 gpm)
	Pressure at outlet: 0.2 kg/cm2 (2.8 psi)				
Max. Pressure	0.5 kg/cm2 (7.1 psi)				
Feed Pump HP	0.75kw (1 hp)	1.5kw (2 hp)	1.5kw (2 hp)	2.2 kw (3 hp)	2.2 kw (3 hp)
	50/60HZ 200/220V				

## Operation

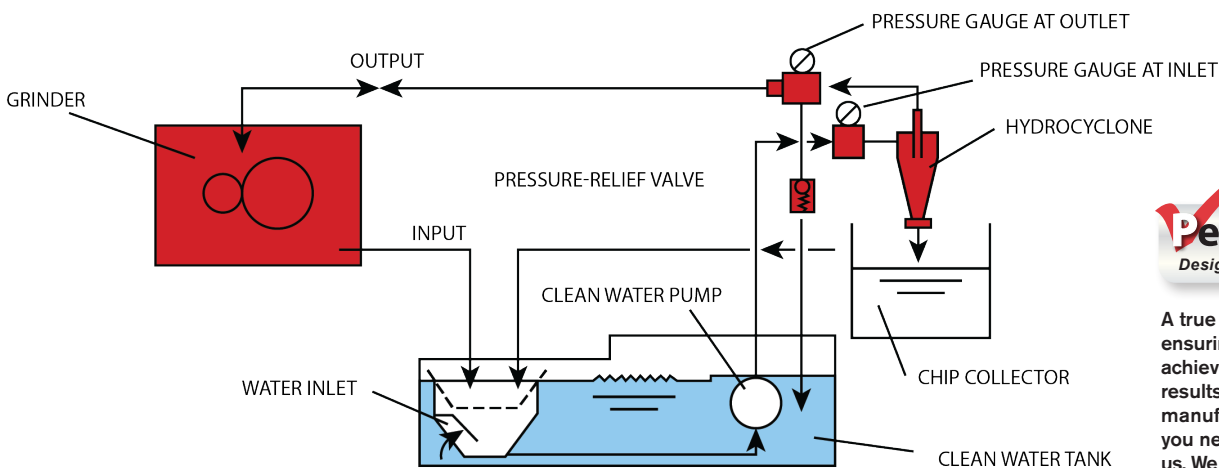
Ascending and descending vortices are created using high pressure. Clean water drains through the ascending vortex while contaminants are precipitated by the descending vortex.



**Coolant Tank Capacity:** Ranges from 170 to 650 L (45 to 172 gal)\*

**Chip Collector Capacity:** Ranges from 24 to 150 L (6 to 40 gal)\*

*\*Not all Coolant Tank and Chip Collector sizes are available for all Hydrocyclone model numbers*



A true performance guarantee ensuring your PRAB equipment achieves the specific results it was designed and manufactured to deliver. And if you need technical support, call us. We are available 24/7.

Contact us to **request a quote** today

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