



Leading Edge Performance. **FOR LIFE.**

# WATER TRUCK PUMPS

OUTSTANDING PERFORMANCE AND RELIABILITY



# PENTAIR BERKELEY® WATER TRUCK PUMPS



## FEATURES

- ◆ Exceeds US Department of Energy regulations 10 CFR 429 and 431
- ◆ Discharge sizes range from 1-1/2"-6"
- ◆ Suction sizes range from 2"-8"
- ◆ Pump efficiencies up to 85%<sup>1</sup>  
<sup>1</sup>Refer to Pentair BEC<sup>2</sup> Sizing Tool

## PENTAIR BERKELEY PROVIDES

- ◆ Technical, engineering and aftermarket U.S. based support
- ◆ Robust designs with over 30 years of reliability
- ◆ Up to 20% higher discharge pressures<sup>2</sup>, providing wider and further spray coverage when compared to competitors A and B  
<sup>2</sup> Discharge pressures as measured at Best Efficiency Point (BEP) of the Pentair Berkeley B3ZRM
- ◆ Individually handled components from start to finish ensuring the highest quality
- ◆ Trained assemblers build pumps from individual components, check assembly tolerances, component quality and overall pump assembly integrity
- ◆ Hydrostatically tested pumps

## KEY DURABILITY AND RELIABILITY FEATURES

- ◆ Lower required operating speed prolongs bearing life and reduces down time
- ◆ Casing has greater wall thickness at the discharge exit area for increased durability and reliability
- ◆ Reliable performance and operation due to high standards for design and manufacturing



## COMPETITION VERSUS PENTAIR BERKELEY

### Competitor A's comparable "B3ZRM" bracket



Flat mounting plate restricts vibration during operation and transit leading to likelihood of failure due to cracking or fractures.

### Berkeley B3ZRM bracket



Features four individual mounting points, spreading out the load, greatly reducing the likelihood of cracks or fractures from the vibration of the pump and water truck.

### Competitor B's comparable "B3ZRM" impeller



Thinner veins, sharper radii – design has higher likelihood of earlier failures due to wear and potential fractures or cracking.

### Berkeley B3ZRM impeller



Strong, robust design with thicker veins, thicker radii and four individual mounting points for increased durability and reliability.

# SPECIFICATIONS

## PERFORMANCE

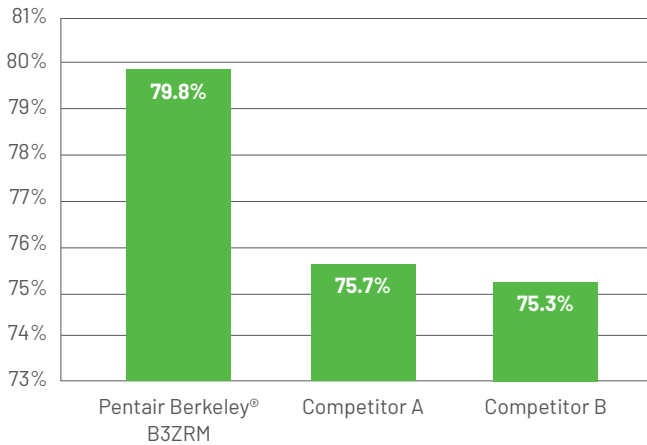
Name	Series	Flow Range (GPM)	Pressure (PSI) at BEP	PEI <sub>CL</sub>	Impeller Diameter (in)
"Z" Series	B1-1/2Z_L	51 ~ 180	121	0.89	9.00
	B2Z_M	120 ~ 320	75	0.93	
	B2-1/2Z_L	192 ~ 620	180	0.95	
	B2-1/2Z_M	189 ~ 700	121	0.93	
	B3Z_M	259 ~ 940	65	0.98	
	B4Z_BH	505 ~ 1,640	79	0.96	
	B5Z_BH	681 ~ 2,260	67	0.96	
B6Z_BHH	989 ~ 3,800	59	0.96		
"J" Series	B4J_BH	480 ~ 1960	126	0.98	13.50
	B6J_BH	836 ~ 2670	65	0.99	
"Z" Series Self Priming	B4Z_KS	140 ~ 700	45	n/a	9.00

## CONFIGURATION OPTIONS

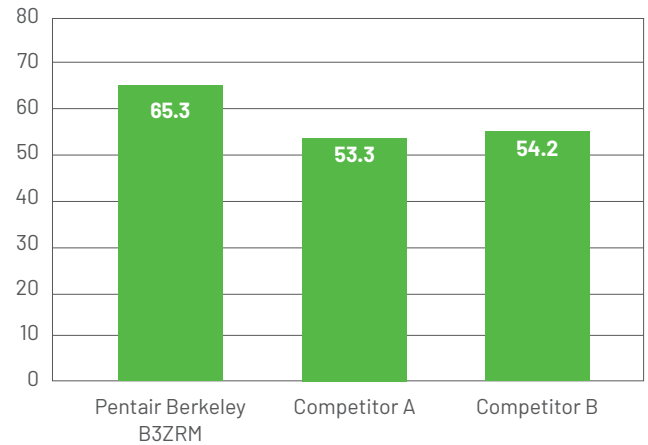
- ◆ Impellers – Clockwise and counterclockwise, cast iron or silicon bronze
- ◆ Packing or Mechanical seals (Optional seal materials available)
- ◆ Frame mount and SAE
- ◆ "Z" frames with integrated hydraulic flange
- ◆ Optional Hydraulic drive adapter
- ◆ Flanged, threaded or grooved connections
- ◆ Standard duty and heavy duty power frames
- ◆ Bare pumps assemblies (Pumpkins) available for quick in field pump replacement

Refer to Berkeley price sheet B1525P for a full listing on available models.

**PUMP EFFICIENCY AT PENTAIR'S BEP\***



**DISCHARGE PRESSURE (PSI) PUMP EFFICIENCY AT PENTAIR'S BEP\***



\*Comparison of efficiency and discharge pressures are tested at BEP of the Pentair Berkeley B3ZRM



OPERATING FOR

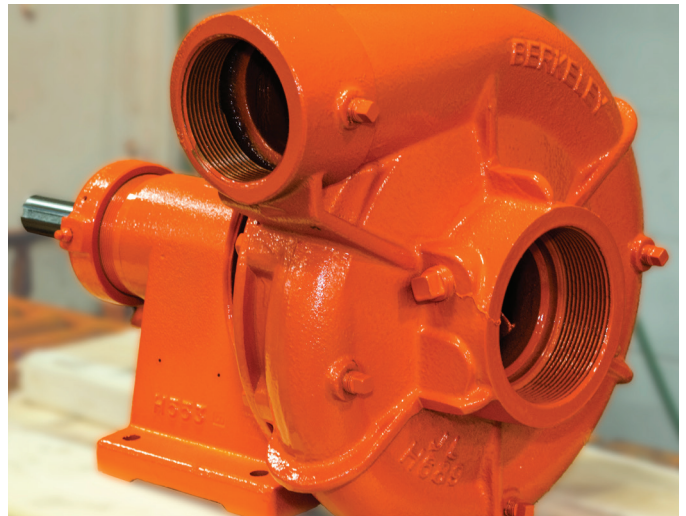
80+ YEARS



Over **100 years** of combined engineering experience



Over **200 years** of combined Customer Service and Technical Support experience



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