

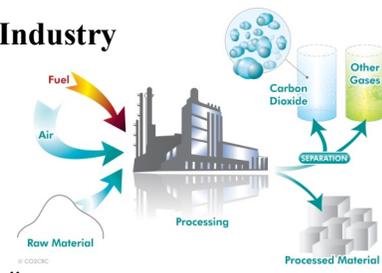


# Lobee Pump & Machinery Co.

Industrial Pumps and Accessories

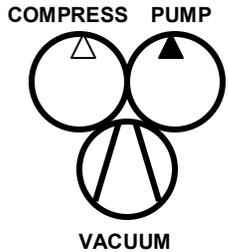
Since 1899...Noted for Highest Quality Pumps and Equipment

## Process Pumps for Industry



Completely 'Made in the USA', not just "designed, assembled and tested."

# NEW MODEL CHLR LIQUID RING PUMP



### Standard Features and Benefits

- (1) Self Priming, Up to 28' Lift, Vacuum to 28" Hg
- (2) Flows to 80 GPM, 15 SCFM
- (3) 3600 RPM motor with 10:1 turndown ratio for VFD control
- (4) Performance Capability to 230 TDH, 100+ PSIG
- (5) Up to 20 Horsepower
- (6) 1", 1-1/2" and 2" NPT Port sizes
- (7) Available with Single or Three Phase Motors in Premium Efficient, High Efficient, Explosion Proof, Washdown, TEFC and ODP
- (8) Shaft Seal Systems include Acrylic/Graphite or PTFE Packing for 'Dry Running' and John Crane™ Type 1, 9 or 2106 Mechanical
- (9) Most API Flush Plans are Available for High Temperature, Corrosive or Crystallizing Applications
- (10) Standard Cast Iron, Bronze or 316 Stainless Steel Construction Materials are Available
- (11) Excellent wear characteristics in harsh applications—Where cavitation may occur and the NPSHR not met, pump performance will be minimally affected over the long run. No threat of catastrophic failure due to cavitation erosion

**Our New CHLR Series** expands the Liquid Ring product range to include three new high performance pumps. Standard configuration includes a 3600 RPM motor, balanced impeller and a John Crane™ Type 2106 mechanical seal. Overall efficiency has been improved by over 50% with Total Dynamic Head capability up over 30% as compared to the CLR.

A single pump can be used for many pumping tasks, reducing costs and providing increased versatility. Application performance can also be greatly enhanced with the addition of a motor inverter (VFD). All motors have a minimum 10:1 turndown ratio which will enable a fully adjustable air/gas/liquid flow and pressure (head) range that takes full advantage of the CHLR's capabilities.

**Lobee Liquid Ring Pumps** are ideal for many applications not practical for other pumps. They will pump small capacities at high heads and self prime up to 28 foot maximum suction lift (sea level) producing its rated capacity despite air pockets or siphons in the suction line. Pumps water, air, vapor or any combination of each without hammering or pounding.

Simple in construction, only one moving part. No priming chamber, foot or check valves, springs, pistons or gears. Complete axial and radial balance of impeller reduces bearing loads to a minimum. Impeller is keyed to shaft but is free to float axially and center itself in the casing, maintaining liquid films between its faces and the casing walls requiring no need for adjusting the clearance. The liquid being pumped acts as a piston in the pump. Without metal-to-metal contact, there is little wear or maintenance.

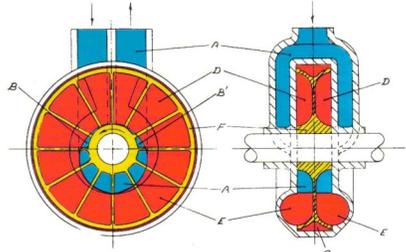
### Applications

- Priming systems for centrifugal pumps
- High suction lift
- Vacuum heating systems
- Condensate service
- Residential/basement water pumps
- Oil transfer service
- Sanitary drinking water supply
- Volatile non-hazardous liquids
- Foaming liquids, entrained gases or air
- Non-lubricating liquids



### Markets

- Refineries-fluid transfer
- Machine Tool-coolant & lubricant circulation
- Marine-bilge pump, fresh water
- Agriculture-water, fertilizer
- Plastics-vacuum holding, forming
- Manufacturing Facilities-fluid transfer, portable or stationary filtration pump systems
- Power Plants & Utilities-fluid transfer





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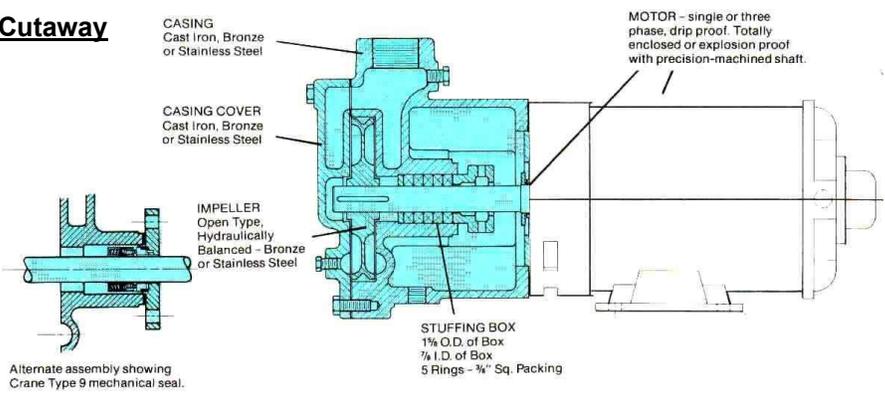


Simple in Design, Long in Life, Very Repairable

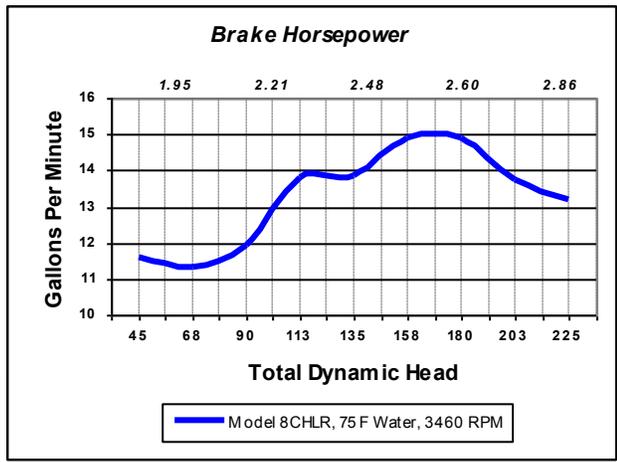
# NEW MODEL CHLR LIQUID RING PUMP

Total dynamic head in feet based on clean, cold water and 3600 rpm motor. The head capacity and efficiency curves apply only for liquids having a viscosity less than 40 SSU. The brake horsepower (BHP) curves are based on a specific gravity of 1.00. To determine the BHP for other liquids multiply these values by the specific gravity. NPSHR (Net Positive Suction Head Required) data for new CHLR Liquid Ring Pumps is forth coming as testing is in process. Based on a higher motor speed NPSHR will be slightly higher than published CLR numbers. For additional performance data please contact factory.

### Cutaway

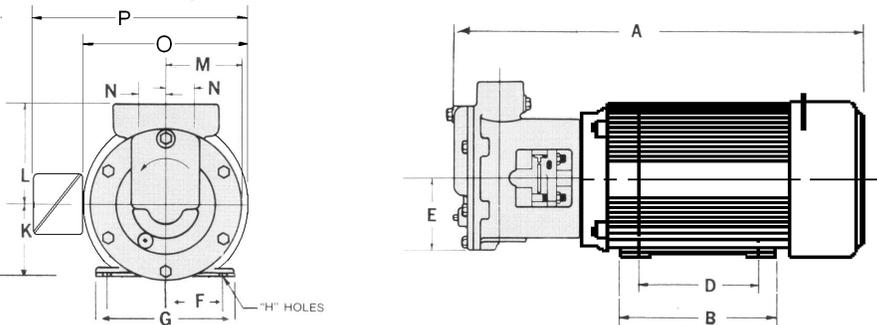


### Performance Curves



High Horsepower and Special Application configurations available. Additional performance characteristic information available by contacting factory.

### Dimensional Specifications



Base Model	8CHLR30PT	12CHLR50PT	12CHLR75PT	16CHLR100PT	16CHLR150PT
Port Size NPT	1"	1 1/2"	1 1/2"	2"	2"
HP	3	5	7.5	10	15
Motor Frame	145JP	184JP	184JP	215JP	215JP
A	19 3/8	21 3/4	21 3/4	26 1/2	26 1/2
B	6	6 3/8	6 3/8	8 7/8	8 7/8
D	5 1/2	5 1/2	5 1/2	7	7
E	4	4	4	4 1/8	4 1/8
F	2 3/4	3 3/4	3 3/4	4 1/4	4 1/4
G	6 1/2	8 3/8	8 3/8	9 1/2	9 1/2
H	11/32	13/32	13/32	13/32	13/32
K	3 1/2	4 1/2	4 1/2	4 1/2	4 1/2
L	5 3/8	5 3/8	5 3/8	5 3/8	5 3/8
M	4	4	4	4 1/8	4 1/8
N	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
O	9 1/2	9 1/2	9 1/2	11 1/4	11 1/4
P	12 1/4	12 1/4	12 1/4	13 7/8	13 7/8

