



MICROBREW 100

PORTABLE PUMP ASSEMBLY





The Microbrew 100 is a re-engineered C100 pump, ideal for microbreweries and other small-scale applications. The Microbrew 100's functionality and technology allows it to be used for food processing, dairy, beverage, winery, and brewery markets. While maintaining dimensional and hydraulic interchangeability with the C100, it provides added reliability, extended seal life, it is easier to adjust and maintain, and provides greater performance.

DESIGN

Standard Clamp: A 4" Tri-Clamp is used to secure the pump head. This casing clamp is superior to the traditional post/tab design as it allows for easy adjustments and removal.

Impeller & Shaft Design: The Microbrew 100's sealed impeller enhances hygienic performance and its split compression collar improves concentricity. These two features allow for less vibration and a longer seal life.

Seal Design: The seal is an external mechanical DG seal, a robust single mechanical seal design featuring both a silicon carbide stationary seal-face and a carbon rotary seal-face. This silicon carbide stationary seat is harder and smoother than stainless steel resulting in a longer lasting seal than the traditional D seal. This seat is also easily replaced allowing for quick repairs.

Seal Performance: The Microbrew 100 features a seal path design that improves seal cooling while easing the distribution of cleaning agents to the seal assembly. This improves seal cleaning during CIP.



FEATURES

- 3A Certified
- Clamped Casing
- Sealed Impeller Design
- DG Seal
- Split-shaft compression collar
- 1 1/2" X 1" Tri-Clamp connections
- 316L stainless steel construction

HORSEPOWER

Horsepower	Max. Flow rate	Shut Off Head
0.5 HP	34 GPM	17 ft
0.75 HP	58 GPM	40 ft
1 HP	68 GPM	51 ft
1.5 HP	75 GPM	58 ft



TECHNICAL SPECIFICATIONS

Materials	
Parts in contact with product:	316L Stainless Steel
Other steel parts:	304 Stainless Steel
Gaskets in contact with product:	FKM or EPDM
Weight Without Motor:	9 lbs
Mechanical Seal	
Rotary Seal:	Carbon
Stationary Seal:	Sintered Silicon Carbide
External Surface Finish:	Ra ≤ 63
Internal Surface Finish:	Ra ≤ 32
Connection Type:	Clamp
Connection Size:	1 ½" x 1"
Max. Impeller Diameter:	3.68"
Motor	
Type:	S.S Premium Efficiency
Motor Frame Size:	NEMA 56C C-Face
Speeds:	1750 & 3450 RPM
Operating Limits	
Nomial Pressure:	30 - 40 ft
Temperature Range:	32°F (0°C) - 212°F (100°C)
Maximum Flow:	75 GPM
Maximum Differential Head:	60 ft
Maximum Speed:	3500RPM - 60Hz
Viscosity:	0-500cPs
Optimum Operating System	
Flow:	50 GPM
Head:	44 ft
Approvals	
Certification	3A- Authorization #1537, 02-11 (centrifugal pumps) for CIP

Variable Speed Controller



The Lenze i550 protec is our new inverter series in the ½ HP to 20 HP range. The slim and sleek casing is also extremely durable, featuring both impact resistance and IP66 washdown protection. A micro USB interface is provided for more efficient programming. This user-friendly VFD is programmable and has scalable functionality. This trustworthy and powerful VFD can be implemented into your operations with ease. The i550 can be controlled by the keypad, a potentiometer, or a remote control (the remote control is available at additional cost). Our portable pump assemblies feature this VFD to achieve optimal efficiency.

FEATURES

- IP66 (NEMA 4X) approved; it is both dust and water resistant.
- Equipped with a Micro USB interface for programming and diagnostics.
- Full onboard PID programming for interfacing with flow meters, level controls, pressure sensors, and can/bottle fillers.
- The i550 Protec has a sensorless vector control for synchronous motors.
- Equipped with multiple digital and analog inputs for remote control and safety interlocks.
- Compatible with our wireless remote controls, pressure switches, and run dry protection.
- Equipped with a potentiometer.





TECHNICAL SPECIFICATIONS

Horsepower:	0.5 to 1.5 HP
1Ø/3Ø Input:	1Ø 115/230 VAC ; 3Ø 230/460 VAC
3Ø Output:	208-230/460 VAC
Ambient Temperature:	-22°F - 131°F (-30°C - 55°C)
Standard IO:	5x digital input, 1x digital output, 2x analog input, 1x analog output
Communication Networks:	CANopen, Modbus RTU, Modbus TCP, IO-Link, EtherCAT, EtherNet/IP, PROFINET
Approvals:	CE, UL, CSA, EAC, RoHS

Pump Cart



Custom designed for the craft food and beverage industry, this is our smallest pump cart, built for pumps up to 2 HP. This cart is arodynamic, tilt draining, manuverable, and has a small footprint. The knockdown cart handle is removable, creating a compact cart that can be easily stored or wheeled into tight spaces. All parts are hand welded in Canada for quality assurance and durability.

Frame:	16 ga stainless steel square tube with foot
Handle:	16 ga stainless steel square tube
Platform:	14 ga Stainless steel AISI 304
	Pre-drilled to fit 56 and 143 NEMA frame
Axle:	1/2 ga Stainless steel rod axle
Wheels:	2" x 5" non marking neoprene wheels

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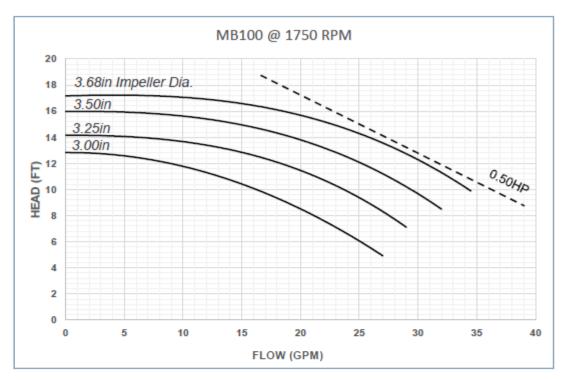


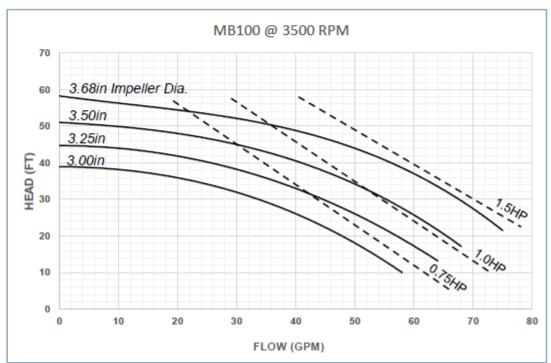
Capacity Curves

MODEL: MB100

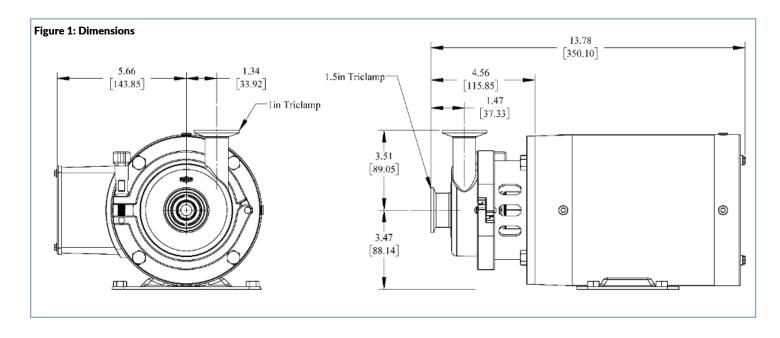
Frequency: 60hz RPM: 1750 &3500

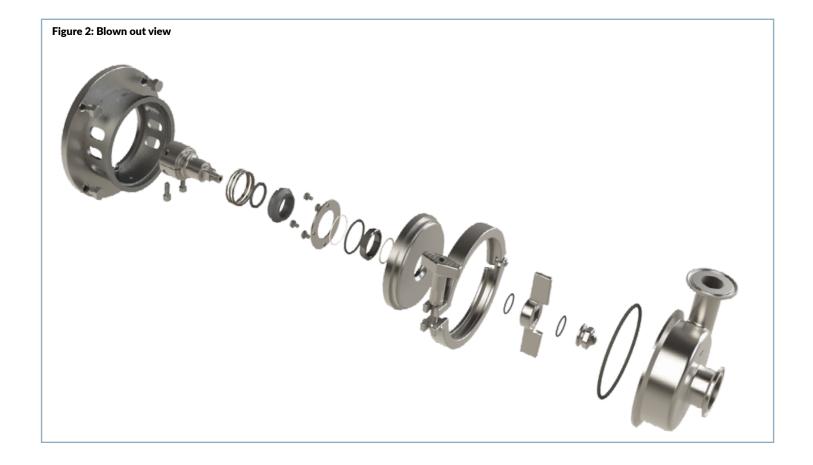
Size: 1.5" x 1.0" x 3.68"











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