

# FOOD & BEVERAGE SANITARY PUMPS BUYER'S GUIDE

# When it counts, count on Unibloc<sup>®</sup>.

- Wide range of patented food and beverage pumping solutions
- Elegant design
- Sanitary focus
- Easier to maintain



Hygienic Technologies



# MEETING TODAYS SANITATION REQUIREMENTS FOR FOOD SAFETY

As a food producer, you're already familiar with the Food and Drug Administration's (FDA) Food Safety Modernization Act (FSMA) and how it changed the food and beverage industry from farm to fork. Identifying potential hazards and implementing protocols to prevent foodborne illnesses along every point of the supply chain is included – and critical for the health and safety of humans and animals.

Implementing proper sanitation in food processing is just one of many FDA/FSMA requirements. It involves everything from building design and layout utilities to cleaning methods to storage and distribution – and more.

The Food and Drug Administration defines sanitize as: "To adequately treat food-contact surfaces by a process that is effective in destroying vegetative cells of microorganisms of public health significance, and in substantially reducing numbers of other undesirable microorganisms, but without adversely affecting the product or its safety for the consumer." That broad description applies to a long list of cleaning protocols and checkpoints in the FDA's Current Good Manufacturing Practices (CGMP). When it comes to your food processing equipment, selecting the right sanitary pump that helps you meet these requirements while maintaining product integrity is a crucial consideration. Highlights of the CGMP are listed below:

#### PERSONNEL

You are required to provide training on food handling and food protection techniques for employees. Any employee with signs of illness or infection should be excluded from working near food and food-contact areas. Hazard Analysis Critical Control Point (HACCP) uniforms, including hairnets, coveralls, and gloves, protect food and surfaces from outside contaminants. Expect personnel to practice good personal hygiene and leave personal belongings and jewelry at home or in lockers.

#### **BUILDINGS AND FACILITIES**

Both the interior and exterior of the facility must be kept clean and in good repair. Proper drainage, litter control, and grounds management can help prevent contaminants from making their way into the facility and help control unwanted insects and rodents.

The layout of equipment and utilities in your plant also matters. Separating equipment and processes using partitions/enclosures, air-flow management, or scheduling can prevent cross-contamination. Avoid obstructing or narrowing aisles to prevent accidental touching of food-contact surfaces. Leave enough space to clean walls, ceilings, and floors properly, and be mindful of pipes and ducts that may drip onto food and food-contact surfaces.

Provide adequate ventilation to minimize odors or vapors and locate fans in a way that reduces the potential for contamination. Finally, provide sufficient lighting to follow proper sanitary procedures and easily identify exceptions.

#### SANITARY OPERATIONS

FDA regulations state that all food-contact surfaces, including equipment and utensils, are to be cleaned as often as necessary to prevent contamination. Additionally, you are required to dismantle equipment as needed to facilitate thorough cleaning. If an item is already clean and sanitized, it should be stored or held in a way that keeps it clean.

The types of cleaning and sanitizing products to use are not specified, although many are registered by the Environmental Protection Agency (EPA). Your janitorial supplier can help you identify the right detergents and antimicrobials to use. The regulatory requirements only include that the products used are effective, safe for food contact, accurately labeled, and properly stored.

#### SANITARY FACILITIES AND CONTROLS

Water quality, temperature, and pressure must be sufficient to conduct proper sanitation procedures. Drains are required anywhere normal operations discharge water or liquid waste onto the floor. Wastewater should be moved away from the plant, and backflow prevention must be in place.

Additionally, these regulations call for clean restroom facilities with self-closing doors and hand-washing facilities placed strategically throughout the plant. Protocols for trash and offal management are also required.

#### EQUIPMENT

When installing equipment in food processing facilities, you must do so in a way that enables proper sanitation of both the equipment and nearby surfaces. Materials that come into contact with food should be corrosion-resistant and non-toxic. Equipment design and construction should preclude lubricants and metal fragments from entering the food supply, and seams should be bonded or non-existent.

Instruments and controls that regulate or record temperature, pH, acidity, and other sanitary conditions must be in use and kept in good working order, as well.

To ensure you meet all the FDA/FSMA CGMP requirements, refer to the FDA's Code of Federal Regulations Title 21.



## WHAT TO LOOK FOR IN SANITARY PUMP DESIGN AND COMPONENTS

Nearly every food and beverage operation utilizes sanitary pumps to move products during processing. There are four main sanitary pumps, including centrifugal, positive displacement, jet, and airlift. The style you choose depends on your product, processes, operational requirements, and budget.

Positive Displacement (PD) pumps are often preferred for their ability to maintain a consistent flow rate despite variations in pressure. Product is moved through a Positive Displacement pump by repeatedly trapping and moving a fixed volume of material from the inlet to a discharge valve. Positive Displacement pumps are ideal for high viscosity liquids, solids, and products sensitive to shear.

No matter which pump style is suitable for your application, certain design considerations and materials are better suited to sanitary pumping applications. Consider these features as you search for solutions:

- Efficiency Consistent volume, pressure, and velocity at a wide range of viscosities
- Solid stainless-steel construction Corrosion resistant, abrasion resistant, and easy to clean
- Fully-machined No welds, seams, or crevices to harbor bacteria
- **Separate gear housing** To prevent product contamination from lubricants, oils, and emollients.
- Easy CIP/COP/SIP and reassembly
- Simple and reliable pressure adjustment Easy to set without risk of pump damage
- Versatile mounting Installs horizontally or vertically, depending on need
- Helical gears Promote quiet, low-vibration operation
- **Tapered bearings** Eliminate pump and motor misalignment
- Universal seal mounting For fast and easy product changeovers
- Metal and X-ray detectable parts To ensure product safety
- Safe design Few or no exposed moving parts



## Unibloc's **QuickStrip® FoodFirst** series pumps are the first of their kind designed to **MINIMIZE FOREIGN MATERIAL RISK** and maximize food and worker safety—top priorities among food processing professionals.

Much of the damage sustained by pump components occurs during the daily sanitation process, resulting in expensive repairs and re-machining. Our QuickStrip rotors and wear pads withstand wear and tear by providing plastic on metal contact, not metal on metal. They also offer tool-free disassembly, resulting in decreased downtime, and an easier to maintain pump, and a lower cost of ownership.

Built upon decades of innovation, the new, all-stainless **QuickStrip FoodFirst** is designed to simplify sanitation and reduce wear and tear during cleaning. The tool-free design requires no tools for disassembly, reducing damage and minimizing foreign material risk for unmatched ease of sanitation.



Swing arm supports the cover during sanitation, improving worker safety and efficiency

\*Consult a Unibloc representative to configure best FoodFirst pump option for your needs.







#### ELIMINATE FOREIGN MATERIAL

Fewer components and greater detectability help ensure the highest level of food safety. **No plastics, no O-rings\*, and no rotor bolts help eliminate foreign material at their source** and ensure maximum metal and X-ray detectability.

#### SANITATION CREW-FRIENDLY

Unibloc's patented and proven QuickStrip design targets the sanitation cycle, the cause of most damage to equipment and common source of foreign material. Simple, repeatable, one-way assembly guarantees proper performance and reduces foreign material from improper handling.

#### **IMPROVED WORKER SAFETY**

The innovative Safety Swing Arm makes disassembly for cleaning easier and safer than ever. The swing arm supports the cover during sanitation, improving worker safety and efficiency.

## **CASE STUDIES**

#### APPLICATION: Breading/Batter



#### **Process Conditions**

25-30 GPM Flow; < 20 PSIG Pressure; Ambient Temperature

#### **Customer Concerns**

Pumps for multiple purposes, including transfer through plant, recirculation through mixer, and transfer from mixer to breading line applicator. Excessive wear required continuous seal replacement, rotor and rotor housing repairs and long downtimes. Excessive parts removal needed for routine cleaning and maintenance resulted in lost parts for reassembly. Painted pump gearbox chipping during high-pressure cleaning. Poor support from existing supplier and large number of spare parts required for repair.

#### Solution

Unibloc PD350 and Unibloc PD450 pumps installed featuring fully machined stainless steel housings and hard face mechanical seals. Pumps and motors installed on skids. Seal life and required maintenance greatly improved. Fewer parts in wetted section led to less complicated maintenance and easier handling. Productivity improvements led to all pumps being replaced with Unibloc at this facility and others nationwide.

#### APPLICATION: Corn Syrup/Distillery

#### **Process Conditions**

700 cPs Viscosity; 250 GPM Flow; 300 PSIG Pressure; 90° F Ambient Temperature

#### **Customer Concerns**

Redesign of plant piping changed pressure load requirement that current gear pumps could not handle - velocities required to meet throughput resulted in premature wear and increased maintenance cost. Product integrity compromised by shearing.

#### Solution

Several Unibloc PD650 lobe pumps installed with 300# ANSI flanges and 50 HP gearmotors onto stainless baseplates. Actual operating pressure of ~180 PSIG with pump speed decreased to 125 RPM in normal operating conditions. Pumps sufficient for future expansions and additional redesign.

#### APPLICATION: Refried Beans, Chili, and Salsa

#### **Process Conditions**



20-30 GPM Flow; 20-30 PSIG Pressure; Ambient Temperature

#### **Customer Concerns**

Non-metallic parts of sine pumps wearing prematurely, resulting in a loss of pressure and flow – different wear from application to application, requiring changes to pump configurations for changeover.

#### Solution

Unibloc PD450 lobe pump installed with 3 HP gearmotor onto stainless baseplate. Efficient operation and product integrity maintained for all applications. Additional pumps purchased for larger capacity operations.

#### APPLICATION: Poultry



#### **Customer Concerns**

Product not flowing through sinusoidal pumps requiring additional staff over two shifts to monitor and plunge product from hopper to the pump to maintain flow.

#### Solution

Unibloc QuickStrip® pump installed for threeweek demo. Easy one-way assembly required no line modifications for installation. The result was consistent distribution of product onto the conveyor belt without air pockets and open areas. Reduced shear maintained high moisture content resulting in a better quality product and higher yield. Multiple QuickStrip pumps subsequently installed.

GEAR AND LOBE PUMP DIMENSIONS										
Model	Rotary Style	Displacement gal (I)/100 Rev	Max Flow Rate gpm (m³/hr)*	Max Pressure psig (bar)	Inlet/Outlet Size Standard**	Max Speed rpm	Max Temp. °F (°C)			
GP 200/07		0.2(0.8)	2.8(0.6)	150 (10.3)	0.5"	1400				
GP 175/22		0.23(0.9)	3.2 (0.7)	150 (10.3)	0.75"	1400				
GP 200/10		0.3 (1.1)	4.2(1.0)	150 (10.3)	0.75"	1400				
GP 175/38		0.4(1.5)	5.6(1.3)	150 (10.3)	1.0"	1400				
GP 275/22	Gear	0.7(2.6)	9.8(2.2)	150 (10.3)	1.0"	1400	180°F (82°C)			
GP 275/38		1.0 (3.8)	14.0 (3.2)	150 (10.3)	1.5"	1400				
GP 300/28		1.6 (6.1)	19.2(4.4)	150 (10.3)	1.0"	1200				
GP 350/40		2.3 (8.7)	27.6 (6.3)	150 (10.3)	1.5"	1200				
GP 375/52		3.0(11.4)	36.0(8.2)	150 (10.3)	2.0"	1200				
PD 200-0		0.4(1.5)	5.6(1.3)	150 (10.3)	0.375"	1400				
PD 200		0.8(3.0)	11.2 (2.5)	150 (10.3)	0.5" or 0.75"	1400				
PD 250		1.1(4.2)	13.2 (3.0)	150 (10.3)	0.75"	1200				
PD 275		1.4 (5.3)	16.8 (3.8)	130 (9.0)	0.75" or 1.0"	1200				
PD 300		2.8 (10.6)	28.0(6.4)	200 (13.8)	1.0" or 1.5"	1000				
PD 350		4.0 (15.1)	(15.1) 40.0 (9.1) 200 (13.8)		1.5" or 2.0"	1000				
PD 400		8.1(30.7)	72.9(16.6)	250 (17.2)	1.5"	900				
PD 450		10.9 (41.3)	98.1(22.3)	250 (17.2)	2.0"	900				
PD 500		22.1(83.7)	176.8(40.2)	300 (20.7)	2.5"	800				
PD 501	Lobo	22.1(83.7)	176.8(40.2)	300 (20.7)	2.5"	800	400°F(204°C)			
PD 550	Lope	28.5 (107.9)	228.0 (51.8)	300 (20.7)	) 3.0" 800					
PD 551		28.5 (107.9)	228.0 (51.8)	300 (20.7)	3.0"	800				
PD 575		34.0 (128.7)	3.7) 252.7(57.4) 300		3.0" or 4.0"	700				
PD 576		34.0 (128.7) 231.0 (52.5)		300 (20.7)	300 (20.7) 3.0" or 4.0"					
PD 600		46.0 (174.1)	276.0 (62.7)	400 (27.6)	4.0"	600				
PD 602		53.0 (200.6)	53.0 (200.6) 318.0 (72.2)		4.0"	600				
PD 650		70.0 (265.0)	420.0 (95.4)	400 (27.6)	400 (27.6) 4.0" or 6.0"					
PD 652		80.0 (302.8)	480.0(109.0)	400 (27.6)	4.0" or 6.0"	600				
PD 677		100.0 (378.5)	500.0 (113.6)	250 (17.2)	6.0"	500				

\*Based on water (1cPs) Capacity varies +/- 5% \*\*Tri-clamp fittings standard

PD PUMP DIMENSIONS											
Model	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	H			
	in (mm)	in (mm)	in (mm)	in (mm)							
PD 200/0	0.375	4.330	6.100	0.550	4.650	1.930	6.180	4.020			
	(9.525)	(110.000)	(155.000)	(14.000)	(118.000)	(49.000)	(157.000)	(102.000)			
PD 200	0.500	4.330	6.100	0.790	4.800	1.930	6.180	4.020			
	(12.700)	(110.000)	(155.000)	(20.000)	(122.000)	(49.000)	(157.000)	(102.000)			
PD 250	0.750	4.330	6.100	0.870	5.040	1.930	6.180	4.020			
	(19.050)	(110.000)	(155.000)	(22.000)	(128.000)	(49.000)	(157.000)	(102.000)			
PD 275	0.750	4.330	6.100	1.020	5.200	1.930	6.180	4.020			
	(19.050)	(110.000)	(155.000)	(26.000)	(132.000)	(49.000)	(157.000)	(102.000)			
PD 275	1.000	4.330	6.570	1.020	5.200	1.460	6.180	4.020			
	(25.400)	(110.000)	(167.000)	(26.000)	(132.000)	(37.000)	(157.000)	(102.000)			
PD 300	1.000	6.060	7.240	1.260	7.520	1.570	6.380	3.350			
	(25.400)	(154.000)	(184.000)	(32.000)	(191.000)	(40.000)	(162.000)	(85.000)			
PD 350	1.500	6.060	7.240	1.540	7.720	1.570	6.380	3.350			
	(38.100)	(154.000)	(184.000)	(39.000)	(196.000)	(40.000)	(162.000)	(85.000)			
PD 400	1.500	8.070	9.760	1.650	9.610	2.200	8.460	4.450			
	(38.100)	(205.000)	(248.000)	(42.000)	(244.000)	(56.000)	(215.000)	(113.000)			
PD 450	2.000	8.070	9.760	1.970	9.840	2.200	8.460	4.450			
	(50.800)	(205.000)	(248.000)	(50.000)	(250.000)	(56.000)	(215.000)	(113.000)			
PD 450/52	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD			
	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)			
PD 500	2.500	11.500	13.300	2.360	13.000	3.070	11.800	6.020			
	(63.500)	(291.000)	(338.000)	(60.000)	(331.000)	(78.000)	(299.000)	(153.000)			
PD 501	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD			
	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)			
PD 550	3.000	11.500	13.300	2.680	13.300	3.070	11.800	6.020			
	(76.200)	(291.000)	(338.000)	(68.000)	(339.000)	(78.000)	(299.000)	(153.000)			
PD 551	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD			
	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)			
PD 575	3.000	11.500	13.300	2.910	13.900	3.070	11.800	6.020			
	(76.200)	(291.000)	(338.000)	(74.000)	(352.000)	(78.000)	(299.000)	(153.000)			
PD 575	4.000	11.500	13.300	2.910	13.700	3.070	11.800	6.020			
	(101.600)	(291.000)	(338.000)	(74.000)	(349.000)	(78.000)	(299.000)	(153.000)			
PD 576	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD			
	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)			
PD 600	4.000	17.300	22.500	3.460	22.600	3.860	17.500	8.860			
	(101.600)	(440.000)	(573.000)	(88.000)	(574.000)	(98.000)	(445.000)	(225.000)			
PD 602	4.000	17.300	22.500	3.460	22.600	3.860	17.500	8.860			
	(101.600)	(440.000)	(573.000)	(88.000)	(574.000)	(98.000)	(445.000)	(225.000)			
PD 650	6.000	17.300	22.500	4.450	23.600	3.860	17.500	8.860			
	(152.400)	(440.000)	(573.000)	(113.000)	(599.000)	(98.000)	(445.000)	(225.000)			
PD 652	6.000	17.300	22.500	4.450	23.600	3.860	17.500	8.860			
	(152.400)	(440.000)	(573.000)	(113.000)	(599.000)	(98.000)	(445.000)	(225.000)			
PD 675	6.000	17.300	22.500	5.430	24.600	3.860	17.500	8.860			
	(152.400)	(440.000)	(573.000)	(138.000)	(624.000)	(98.000)	(445.000)	(225.000)			
PD 677	6.000	17.300	22.500	5.430	24.600	3.860	17.500	8.860			
	(152.400)	(440.000)	(573.000)	(138.000)	(624.000)	(98.000)	(445.000)	(225.000)			

PD PUMP DIMENSIONS										
Model	<b>J</b>	L	<b>M</b>	<b>N</b>	<b>0</b>	<b>Weight</b> Ibs (kb)	<b>Weight</b> Ibs(kb)			
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	Stainless Gearbox	Aluminum Gearbox			
PD 200/0	4.170 (106.000)	3.230 (82.000)	4.020 (102.000)	0.830 (21.000)	0.470 (12.000)	17.0 (7.7)	n/a			
PD 200	4.170 (106.000)	3.230 (82.000)	4.020 (102.000)	0.830 (21.000)	0.470 (12.000)	18.0 (8.2)	n/a			
PD 250	4.170 (106.000)	3.230 (82.000)	4.020 (102.000)	0.830 (21.000)	0.470 (12.000)	18.0 (8.2)	n/a			
PD 275	4.170 (106.000)	3.230 (82.000)	4.020 (102.000)	0.830 (21.000)	0.470 (12.000)	20.0 (9.1)	n/a			
PD 275	5.120 (130.000)	3.230 (82.000)	4.020 (102.000)	0.830 (21.000)	0.470 (12.000)	20.0 (9.1)	n/a			
PD 300	5.670	2.240	4.410	1.100	0.750	39.0	27.0			
	(144.000)	(57.000)	(112.000)	(28.000)	(19.000)	(17.7)	(12.2)			
PD 350	5.670	2.240	4.410	1.100	0.750	40.0	29.0			
	(144.000)	(57.000)	(112.000)	(28.000)	(19.000)	(18.1)	(13.2)			
PD 400	7.560	2.910	5.980	1.540	0.940	79.0	59.0			
	(192.000)	(74.000)	(152.000)	(39.000)	(24.000)	(35.8)	(26.8)			
PD 450	7.560	2.910	5.980	1.540	0.940	83.0	63.0			
	(192.000)	(74.000)	(152.000)	(39.000)	(24.000)	(37.6)	(28.6)			
PD 450/52	TBD	TBD	TBD	TBD	TBD	TBD	TBD			
	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)			
PD 500	10.200	3.860	8.190	2.170	1.650	226.0	179.0			
	(260.000)	(98.000)	(208.000)	(55.000)	(42.000)	(103.0)	(81.0)			
PD 501	TBD	TBD	TBD	TBD	TBD	TBD	TBD			
	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)			
PD 550	10.200	3.860	8.190	2.170	1.650	235.0	188.0			
	(260.000)	(98.000)	(208.000)	(55.000)	(42.000)	(107.0)	(85.0)			
PD 551	TBD	TBD	TBD	TBD	TBD	TBD	TBD			
	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)			
PD 575	10.200	3.860	8.190	2.170	1.650	245.0	198.0			
	(260.000)	(98.000)	(208.000)	(55.000)	(42.000)	(111.0)	(90.0)			
PD 575	10.200	3.860	8.190	2.170	1.650	245.0	198.0			
	(260.000)	(98.000)	(208.000)	(55.000)	(42.000)	(111.0)	(90.0)			
PD 576	TBD	TBD	TBD	TBD	TBD	TBD	TBD			
	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)	(TBD)			
PD 600	17.100	5.510	12.200	TBD	2.760	410.0	310.0			
	(435.000)	(140.000)	(310.000)	(TBD)	(70.000)	(900.0)	(680.0)			
PD 602	17.100	5.510	12.200	TBD	2.760	410.0	310.0			
	(435.000)	(140.000)	(310.000)	(TBD)	(70.000)	(900.0)	(680.0)			
PD 650	17.100	5.510	12.200	TBD	2.760	441.0	341.0			
	(435.000)	(140.000)	(310.000)	(TBD)	(70.000)	(970.0)	(750.0)			
PD 652	17.100	5.510	12.200	TBD	2.760	441.0	341.0			
	(435.000)	(140.000)	(310.000)	(TBD)	(70.000)	(970.0)	(750.0)			
PD 675	17.100	5.510	12.200	TBD	2.760	226.0	179.0			
	(435.000)	(140.000)	(310.000)	(TBD)	(70.000)	(103.0)	(81.0)			
PD 677	17.100	5.510	12.200	TBD	2.760	226.0	179.0			
	(435.000)	(140.000)	(310.000)	(TBD)	(70.000)	(103.0)	(81.0)			

GEAR PUMP DIMENSIONS									
Model	Α		B		C		D		
	mm	in	mm	in	mm	in	mm	in	
GP 200/07	37.000	1.460	13.000	0.510	36.000	1.420	12.700	0.500	
GP 200/10	35.000	1.380	17.000	0.670	32.000	1.260	50.800	2.000	
GP 275/22	57.000	2.240	21.000	0.830	56.000	2.200	25.400	1.000	
GP 275/38	54.000	2.130	26.000	1.020	51.000	2.010	38.100	1.500	
GP 300	52.000	2.050	32.000	1.260	58.000	2.270	25.400	1.000	
GP 300/28	TBD	TBD	TBD	TBD	TBD	TBD	#VALUE!	TBD	
GP 350	58.000	2.260	39.000	1.520	63.000	2.480	38.100	1.500	
GP 350/40	TBD	TBD	TBD	TBD	TBD	TBD	#VALUE!	TBD	
GP 375	62.000	2.440	46.000	1.810	68.000	2.660	50.800	2.000	
GP 375/52	TBD	TBD	TBD	TBD	TBD	TBD	#VALUE!	TBD	



GP (Gear Pump) Series



PD(Lobe Pump)Series: 200-275



PD(Lobe Pump)Series: 300-677











Unibloc brings Tier 1 performance to the world's most demanding pump processing applications. In the daily battle against downtime and sanitary compliance, Unibloc stands shoulder-to-shoulder alongside its customers to solve their problems. Meet every deadline. And drive total cost of ownership performance better than any other vendor in the plant.

The company's "Four Pillars of Performance" is embedded in every corner of Unibloc, making it possible to achieve this uncommon level of service and product quality:

#### **Proven Under Pressure**

Unibloc customers experience less downtime with our precision-engineered products that outperform competitive pumps.

#### **Sanitary Assurance**

With a focus on food safety and compliance, Unibloc products are designed around a FoodFirst philosophy to meet the rigorous demands of the food and beverage industry.

#### **Relentless Focus on TCO**

Driven by design innovation and outrageous reliability, Unibloc customers enjoy greater total cost of ownership from their Unibloc investment than with any other competitive offering.

#### **Embrace Every Deadline**

The "Solve-It-Now" imperative embedded throughout the company gives customers the confidence that they'll get the parts they need, the pumps they need, and the service they have to have from the industry's most dependable pump manufacturer.



Unibloc Hygienic Technologies provides a broad portfolio of powerful solutions for companies around the world.



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