



• Environmentally Friendly • Oxidation •

Disinfection • Biodegradable • Bleaching • Sterilization •

Odor Elimination • Taste Enhancement •

Solubility • Cleaning • Decoloration •

# PBU 210 Ozone Pump



Shanley Pump & Equipment, Inc.

# Ozone is a stable and powerful oxidizer that has gained increasing popularity in the manufacturing and production field.

Ozone generators have many benefits for use in production including:



#### **Bottling Processes**

Ozone sterilization systems are used in the bottled beverage industry for both the beverages base water supply and container sterilization. Treatment with ozone results in a better quality product with regard to taste and odor.



#### **Water Sanitization**

Ozone's proven ability to kill bacteria and parasites such as giardia and cryptosporidium as well as precipitate heavy metals such as Iron and Magnesium make it an ideal solution in the bottled water production industry.



#### **Food Production**

Ozone has grown in popularity in the food industry over the past decade as a safe, powerful disinfectant that can be used to control and inhibit the growth of bacterial microorganisms without adding chemical by-products.



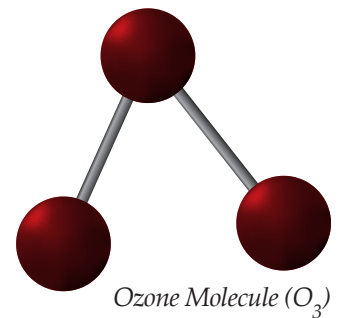
#### **Livestock Production**

Use of Ozone systems can purify and sterilize both the animals drinking water and precipitate the dissolved matter in the waste effluent water that is produced in daily farm operations. After use, the ozone then decomposes back to environmentally safe oxygen.



#### **Electronics**

Ozone is used in the production of delicate electronics such as circuitry and silicon wafer production by sterilizing the cleaning water used in the manufacturing and cleaning process.

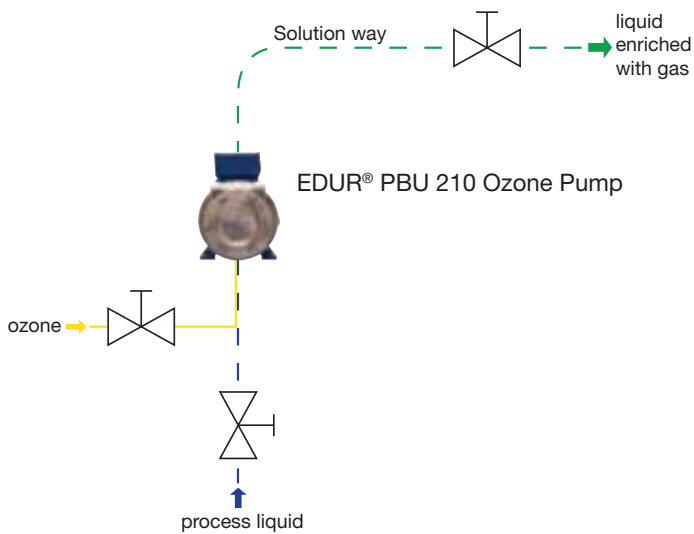


### **EDUR® Ozone Pump Advantages:**

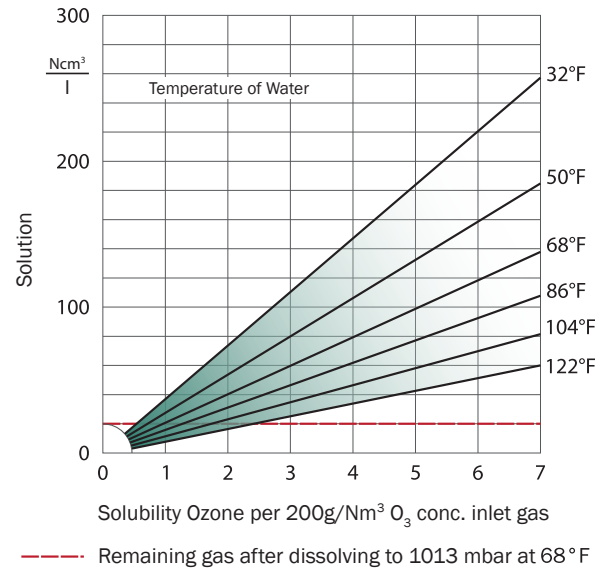
- Single piece of equipment for adding Ozone into a system
- Ozone Flow is simply controlled by varying the pump speed
- No additional tanks, control systems or venturis are required
- Ability to supersaturate system
- Gas content up to 15% possible\*
- Small pump footprint allows for optimal system placement in your facility
- Open Impeller construction of EDUR® Pumps are designed for reliable Ozone entrapment.

\* 30% available upon request

## Ozone-Charging



## Solution of Ozone in Water



**Ozone sterilization** is a well accepted process in industry with highly positive and environmentally friendly benefits. Until recently, the primary drawback was the amount of extra equipment necessary to operate a proper ozonation

system. With the EDUR® PBU 210 Pump for Ozinated Water Generation, you can safely eliminate the additional components and high costs associated with a traditionally installed Ozination system.

The EDUR® PBU 210 allows for direct-gas charging into the suction pipe with your Ozone supply. The necessity of pressure tanks, pumps, control systems, and venturis for feeding are no longer required with the new EDUR® pump.

The open impeller construction of EDUR® ozone pumps allows for reliable ozone entrapment as well

as the capability of achieving gas contents up to 15% in solution for stable transport into your flow system.

Ozone flow into the pipe is controllable with two options, through the controlled gas supply and via the pumps speed allowing for high accuracy in concentrations of Ozone to the system. The inclusion

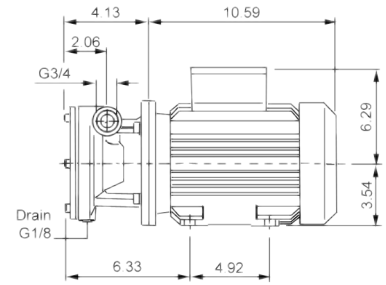
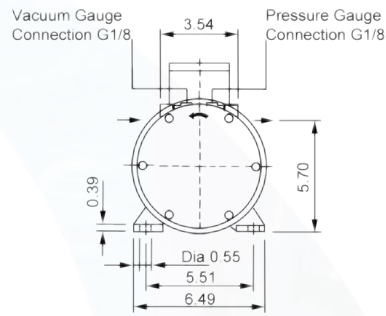
of the ozone into the system after the pressure release produces very fine "white water" that allows for an extremely large reaction surface and long retention time for the Ozone in the water, greatly increasing your sterilization capability as compared to using the ozone-generation components as a traditional ozonation system.

*Contact a Shanley Pump and Equipment representative today for more information about the EDUR® PBU 210 Multiphase Pump for Ozinated water generation.*

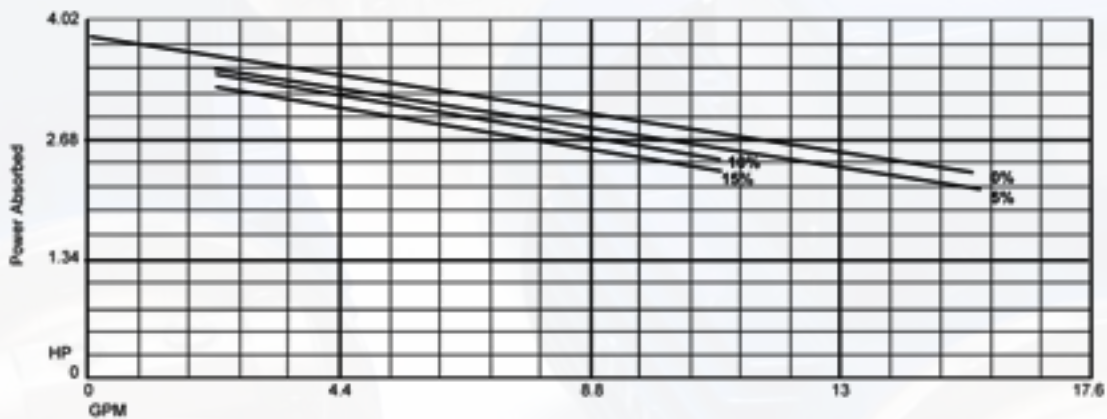
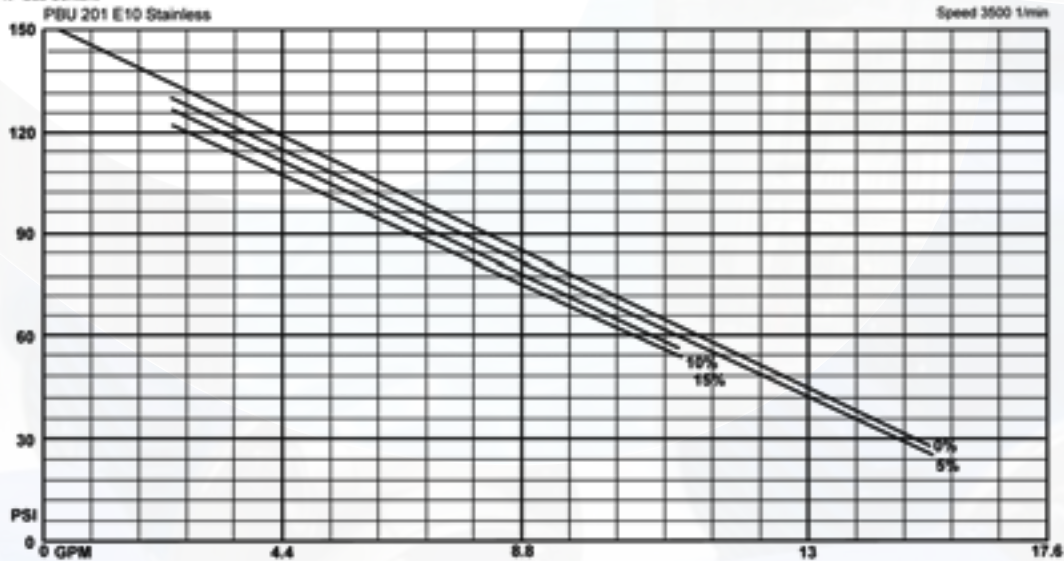


## PBU 210 E10

- Casing: 316SS
- Impeller: 316SS
- Shaft: 316SS
- Single Mechanical Seal - Silicon Carbide Seal Faces / Viton Elastomers
- 3 Phase Motor
- Power: 3 HP
- Voltage: 230/460
- Frequency: 60 Hz
- Enclosure: TEFC
- Insulation: Class F
- RPM: 3500
- Number of Stages: 1
- Inlet/Outlet: 3/4" NPT Female
- Max Pressure Outlet Branch: 230 psi



Characteristic curves EDUR® centrifugal pumps for liquid with specific gravity of 1.0 / Viscosity  $\nu=1$  centistoke / Temperature  $t=70^\circ\text{F}$  %Gas Content



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