

The first step
to smarter processing.



Smart processors understand the importance of proper brine and marinade preparation.

Dissolving ingredients correctly and precisely is key, and often the first step in many food processing applications – from injection and massaging to tumbling and marination.



Wolf-tec crafts a variety of Polar Dissolver brine and marinade mixing, chilling and transfer equipment for processors of all sizes. Our dissolvers range from basic configurations to often completely customized and fully automated systems. The systems include the following equipment:

- Dissolvers and mixers
- Holding tanks
- Heat exchangers

The Polar Dissolver is a mixing tank designed to mix, chill and transport brines and marinades. It dissolves ingredients under precisely controlled conditions so that the solution will have the best possible impact on your

product, while giving you batch-after-batch consistency.

The Polar Dissolver features a touch screen controller to give you complete control over every step in your recipe while eliminating operator error. It prompts the operator for each required ingredient and weight, as well as each process step. It manages the order in which ingredients are added, the temperature, the mixer shear and velocity, and the mixing time. Automatic water metering is standard. Optional controls for recipe programming are also available.

The tanks are chilled with ammonia or glycol via an ASME-certified cooling

jacket. The cooling jacket is insulated and covered with a stainless steel skin to guarantee optimum cooling of the solution (and not the room), and to prevent condensation on the outside of the tank.

A stainless steel transfer pump moves the finished solution to the required destination, and a modular piping design enables additional units to be added seamlessly.

A companion holding tank is also available to store and transfer solutions in combination with the mixing tank. A range of tank sizes is available, including 250, 500 and 800 gallon capacities.

Polar Dissolver Advantages

- 100% temperature-controlled process
- Unmatched sanitary design and construction
- Touch screen control and recipe management eliminates costly errors by operators
- Process management provides step-by-step instruction on ingredient addition, when and how
- Fast, effective dry ingredient loading directly into liquid stream without clumping
- Completely modular design, ability to expand with flexible tank sizes of 250, 500, 800 gallon and more
- Dissolver mixer tank can be supplied with a high shear mixer
- Dissolver hold tank can be supplied with a foil mixer
- Water meter measures the flow of incoming water
- Automated valves control the opening of the educator to allow dry ingredients to be sucked into the liquid flow
- Automated valve directs the contents to a transfer point – either to a hold tank or to a circulation pipe to an injector or massager
- All contact surfaces fully accessible for sanitation
- Compact footprint

Optional Features

- Weight verification with load cells
- Operator ID for security
- Bar code scanning of ingredients
- Automated liquid ingredients delivery
- Data acquisition and batch reporting
- CIP ball for internal rinsing
- Dissolver grate for educator
- Installation kit
- Stair and platform



Touch screen controller provides complete recipe and process management while eliminating operator error.



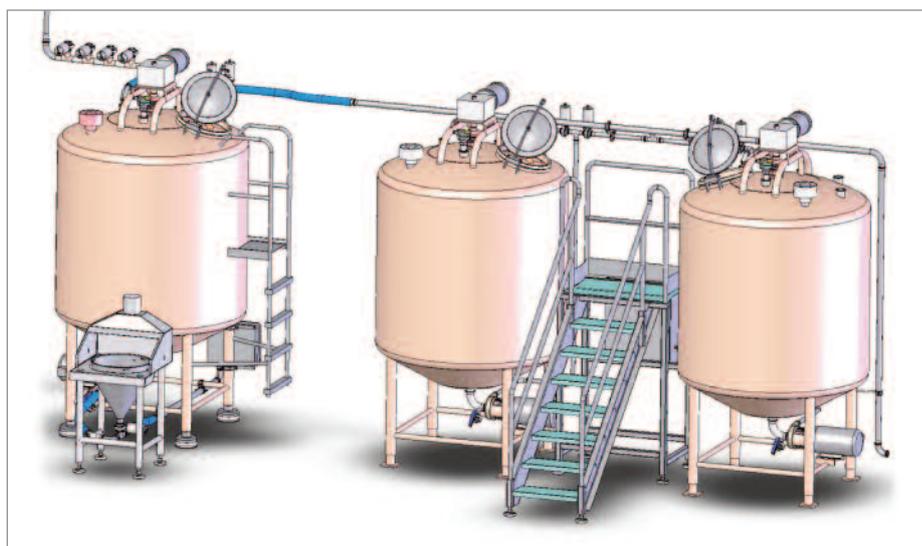
The optional high shear mixer head provides powerful mixing options for challenging ingredients such as starches and gums.



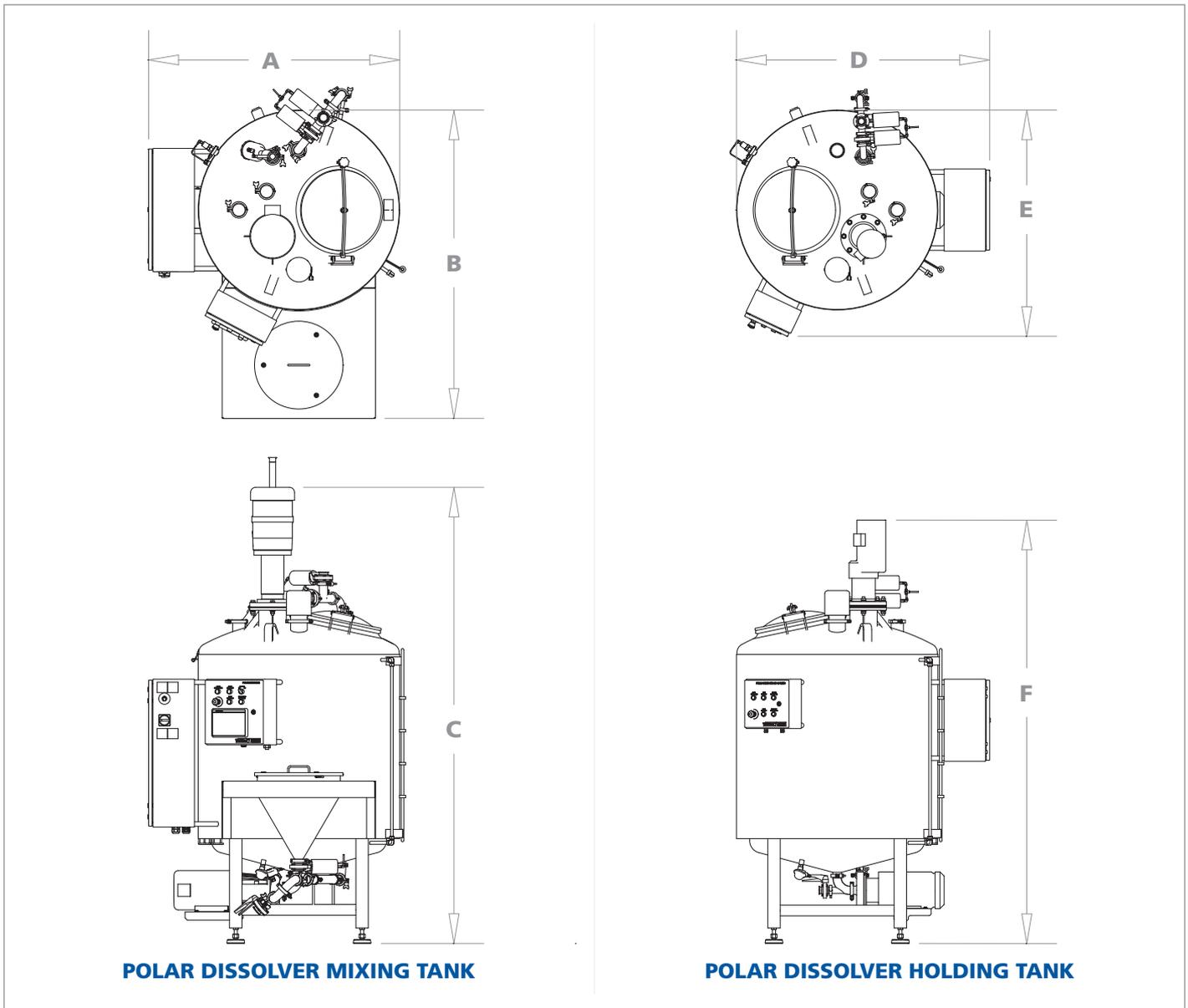
All contact surface areas are highly polished, while the tank's outer walls are insulated and covered with a stainless steel shell to prevent condensation.



The educator introduces ingredients directly into the liquid stream, allowing effective mixing without clumping.



The Polar Dissolver's modular design allows custom configurations.



Polar Dissolver Mix	PDM250	PDM500	PDM800
Solution Capacity	250 gallons	500 gallons	800 gallons
Overall Width (A)	61" (1549 mm)	71" (1803 mm)	79" (2007 mm)
Overall Length (B)	75" (1905 mm)	85" (2159 mm)	123" (3142 mm)
Overall Height (C)	112" (2845 mm)	130" (3302 mm)	166" (4216 mm)
Polar Dissolver Hold	PDH250	PDH500	PDH800
Solution Capacity	250 gallons	500 gallons	800 gallons
Overall Width (D)	62" (1575 mm)	73" (1854 mm)	81" (2057 mm)
Overall Length (E)	56" (1422 mm)	65" (1651 mm)	75" (1905 mm)
Overall Height (F)	104" (2642 mm)	117" (2972 mm)	132" (3353 mm)

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