Typical Applications and Specifications

QUADRO® LIQUIDS PROCESSING **Ytron Z Emulsifier**

COSMETIC/ PERSONAL CARE	FOOD & BEVERAGE	PHARMACEUTICAL	CHEMICAL
Perfumes Toothpastes Hair Dyes Creams & Lotions Shampoos Soaps	Yogurt Salad Dressings Mayonnaise Cheese Sauce Condiments Creams BBQ Sauce Spreads	Antibiotics Topical Creams & Gels Ointments Injectables Suppositories Nutritional Drinks Oral Suspensions	Asphalt Emulsions Fungicides & Insecticides Toners Pigments Lacquers Resins

		MODEL		
		Z1	Z3	Z5
POWER (Maximum)	HP (kW)	10 (7.5)	25 (18.5)	60 (45.0)
CAPACITY*	gpm (lpm)	30 (115)	100 (380)	300 (1150)
RPM		6000	3600	1800
ROTOR & STATOR SETS		1 to 3	1 to 3	1 to 3
OPERATING PRESSURE	psi (bar)	0 - 120 (0 - 8)	0 - 120 (0 - 8)	0 - 120 (0 - 8)
INLET & DISCHARGE FITTING	in (mm)	1.5 (38)	2 (50)	3 (75)

*Actual capacities may vary depending on inlet pressure, tooling selection and product characteristics.





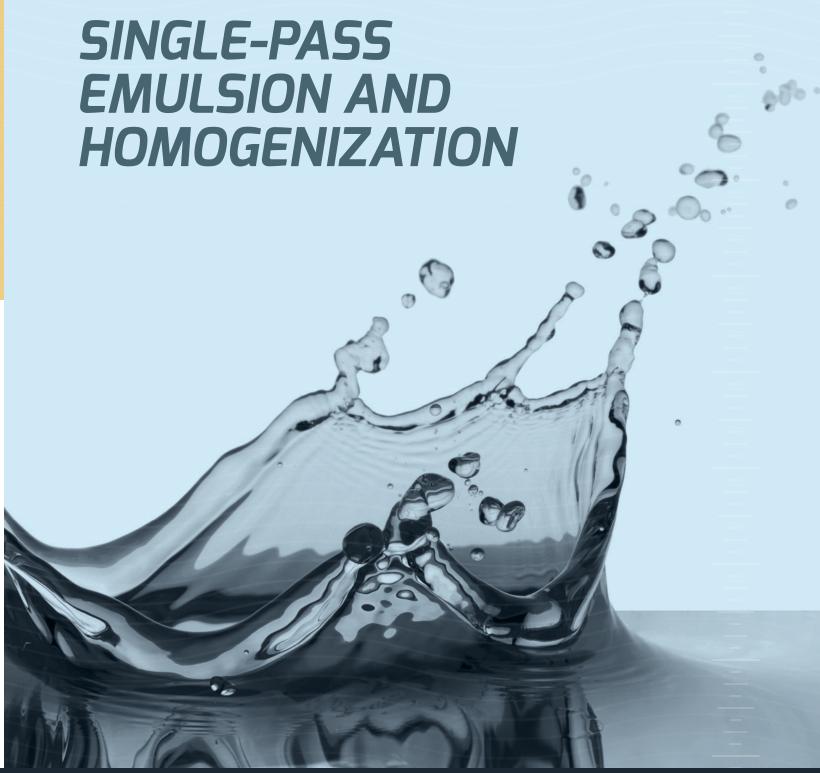
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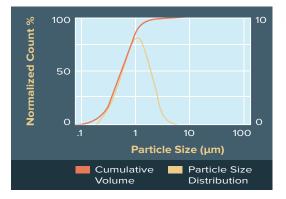
SINGLE-PASS **EMULSION AND** HOMOGENIZATION

HIGH SHEAR PROCESSING

The Quadro Ytron[®] Z Emulsifier delivers unparalleled consistency and control of high shear process applications such as immiscible phase emulsifying/homogenizing, wet grinding, deagglomeration and fine solids dispersing.

ENHANCED YTRON Z PERFORMANCE

In a single-pass, the Z Emulsifier achieves tight particle size distribution with typical d₉₀ distributions between 1-5 micron.



High differential velocities

Incorporating up to three sets of toothed rotor/stator heads, the Z Emulsifier processes product while passing multiple shear zones in a single pass. The result is consistent, repeatable quality at capacities exceeding conventional multi-pass technology.

Tooling flexibility

Rotor/stators for the Z Emuslifier are available in a variety of slot sizes which allows for a high degree of fine tuning. Through tooling selection aided by our application engineering team, as well as varying rotor tip speed, the amount of shear can be precisely controlled.

G QUADRO YTRON

Close tolerance tooling.

FEATURES

- **1** Sanitary design with clamped housing, easily dismantled for cleaning; CIP and SIP options available. Meets 3A® standards.
- 2 All stainless steel construction.
- 3 Single and double mechanical seals provide for high-temperature, high-pressure performance.
- 4 Single-speed drive with variable speed options.
- 6 Stainless steel base with portable, locking casters.

Unmatched performance. Exceptional service.

Scalable throughput

Four sanitary models are available from pilot plant capacities to >300 gpm (1136 lpm). Throughput can be scaled without altering product characteristics, texture or particle size distribution with the unique implementation of Quadro's turbulent kinetic energy model.



DYNAMIC PRINCIPLES

- Product enters housing axially under pressure, typically fed from a processing pump.
- One or more liquid phases and suspended particles are then pumped through 1, 2 or 3 sets of toothed rotor/stators.
- · Controlled, high-intensity shear is delivered equally to all fluid elements.