

BATCH PROCESS TANKS

For Applications That Require – No Heat, Heating, Mixing, Agitating, Degassing, Metering, Pumping

SPECIFICATIONS

	2-GALLON	5-GALLON	10-GALLON	15-GALLON	30-GALLON	60-GALLON	75-GALLON	100-GALLON	250-GALLON
MECHANICAL SPECIFICATIONS									
Actual Tank Volume (to the lip of the tank)	2.7 Gallons	8.4 Gallons	12.1 Gallons	18.8 Gallons	34.6 Gallons	63.8 Gallons	78.8 Gallons	102.3 Gallons	265 Gallons
Vacuum Rating (cold-rolled steel or stainless steel tank)	Full Vac.@ 650°F	Full Vac.@ 650°F	Full Vac.@ 650°F	Full Vac.@ 650°F	Full Vac.@ 650°F	Full Vac.@ 650°F	Full Vac.@ 650°F	Full Vac.@ 650°F	Full Vac.@ 650°F
Pressure Rating (cold-rolled steel or stainless steel tank)	110 PSI.@ 650°F	110 PSI.@ 650°F	110 PSI.@ 650°F	110 PSI.@ 650°F	110 PSI.@ 650°F	110 PSI.@ 650°F	110 PSI.@ 650°F	110 PSI.@ 650°F	110 PSI.@ 650°F
Over-Pressure Relief Valve (preset at 70 PSI)	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Fill Port (inside diameter)	Available	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"
Floor Space Required	16 in. x 16 in.	2 ft. x 2 ft.	2 ft. x 2 ft.	2 ft. x 2 ft.	3 ft. x 3 ft.	4 ft. x 4 ft.	4 ft. x 4 ft.	4 ft. x 4 ft.	5 ft. x 5 ft.
Tank Diameter	9 inches	14 inches	14 inches	14 inches	24 inches	24 inches	24 inches	24 inches	36 inches
Overall Height (with long legs - to the top of the agitator)	45 inches	51 inches	57 inches	67 inches	67 inches	82 inches	89 inches	102 inches	132 inches
Tank Height (with long legs - to the lip of the tank)	25 inches	27 inches	33 inches	42 inches	38 inches	54 inches	61 inches	70 inches	104 inches
Output Valve Height (from floor - with long legs)	10 inches	10 inches	10 inches	10 inches	15 inches	15 inches	16 inches	16 inches	20 inches
Output Valve - Standard Ball Valve Sizes	¾" NPT	1" NPT	1" NPT	1" NPT	1", 1-1/2", 2" NPT	1", 1-1/2", 2" NPT	1", 1-1/2", 2" NPT	1", 1-1/2", 2" NPT	1", 1-1/2", 2" NPT
ELECTRICAL SPECIFICATIONS									
Heaters - 230V, 50/60 Hz (440V Available)	Rated @ 600W	Rated @ 2100W	Rated @ 2300W	Rated @ 2300W	Rated @ 4400W	Rated @ 6200W	Rated @ 6200W	Rated @ 6200W	Rated @ 15100W
Control Circuit - 115V, 50/60 Hz	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Digital Readout Controller 1/16 DIN, PID, Auto Tune	285°F Max.	285°F Max.	285°F Max.	285°F Max.	285°F Max.	285°F Max.	285°F Max.	285°F Max.	285°F Max.
Over-Temperature Alarm (user presettable)	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Over-Temperature Thermostat (factory preset)	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Over-Temperature Cut-Out (fusible link)	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Type-J Thermocouple Sensor — Thru the Lid (±1°F)	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard

Notes:

1. When vacuum degassing is required, suggested tank size is 1/3 to 1/2 larger than the quantity of material inserted. Bubbles need freeboard space to break (e.g., degas 10-gallons of resin in a 15-gallon tank.)
2. All of these tanks are available as room-temperature tanks—without heat and temperature control. Temperature control higher than 285°F is optionally available.
3. Tanks larger than the 250-Gallon are available.
4. Stainless Steel Tanks and/or tanks with special coatings (i.e., teflon, epoxy) are optional.
5. APT tanks are often used to gravity-feed heated, air-free materials for hand-batching. Additionally, output pumps or nitrogen gas over-pressure—from 10 to 60 PSI—are required to feed material from these tanks to downstream automatic meter-mix-dispense equipment. Our constant-vacuum tanks (Continuous Thin-Film Degassers) deliver on-the-fly, thin-film heating and degassing at 8 to 40 lbs/min.
6. Vacuum levels (for air-bubble-free material) are typically held at 5-mmHg to 2-mmHg (29.80" to 29.92" Hg)
7. Vacuum levels to better than 0.5 mmHg (29.98" Hg) for high-quality vacuum-casting applications, are available.

**Need to Degas On-The-Fly?
See our Continuous Thin-Film Degassers.**

