

CFP Mix storage tank

When innovation meets tradition



PIERRE GUERIN
TECHNOLOGIES

TOGETHER BRING LIFE TO YOUR PROJECTS

ISO 9001
BUREAU VERITAS
Certification



CFP, mix storage tank on legs



Pierre Guerin, specialist of stainless steel processing, design and manufacture of stirred vessels and complete process lines for major clients whose reputation depends on bacteriologic quality of their dairy and food products.

With more than 60 years of experience, **Pierre Guerin** is the preferred partner of many Food & Beverage companies. We provide a wide range of storage and process vessels manufactured in our factories in Niort (France) and Burgos (Spain).

Applications - Functionalities

- _ hydration of powders after incorporation and homogeneous product-hold of your recipe preparations
- _ this type of tank is typically used downstream as a mixing tank for powder-incorporation processes.

Design

- _ capacities: 2 500 up to 50 000 litres
- _ Clean-In-Place stainless steel cylindrical tank, without retention zone
- _ insulation by non-hydrophilic Mineral Wool with water-proof stainless steel jacket, fitted to avoid watering and permitting material expansion without damage
- _ bottom shape from 30 to 45° to provide complete drainability without powdered product retention zone.

Performance & Innovative agitation system

- _ centre top-mounted agitator (*without bottom guide*), with patented upper-mounted HTPG4 impeller(s) plus one turbine fitted on the lowest part of the shaft. The absence of a mechanical guide in the tank bottom allows for an optimum cleaning-in-place and avoids any abrasion from the product.

This agitation system allows for a regular mixing at lower speed with an excellent pumping effect. It provides a minimum shearing in order to maintain compatibility with fragile product structures.

A cleaning-in-place anti-vortex baffle located the length of the wall-side ensures a homogeneous mixing of the powdered product throughout the tank.

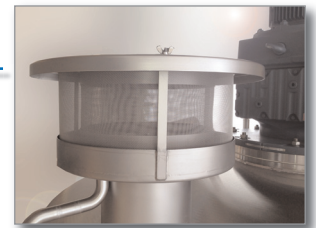
Main features

- _ 15° conical cover and conical bottom from 30 to 45°
- _ stainless steel adjustable legs with floor plates (*from 3 to 6 depending on capacity*)
- _ all parts, included frame support, legs and insulation jacket are made of stainless steel EN 1.4307 (AISI 304 L)
- _ finish:
 - internal: welds are rolled, ground and polished Ra<0.8 µm and cold roll mill
 - external: welds are brushed and polished surfaces Grit 120.

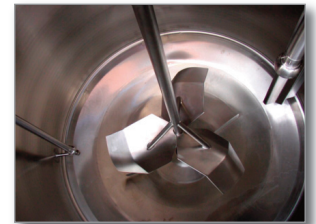


Accessories

- 1 centred, top mounted three bladed HTPG4 type impeller with one turbine fitted on the lowest part of the shaft (*without bottom guide*) - frequency inverter to record
- 1 anti-vortex baffle
- 1 man-hole \varnothing 400 minimum on the cover, without retention zone
- 1 atmospheric vent with anti-mosquito screen sized for clean-in-place
- 1 plain end outlet with welded anti-vortex
- 1 set of nozzles for instruments (*temperature probe, low and high level switches, continuous level probe*)
- 1 set of cleaning devices including 2 static spray balls on the cover (*not submerged*) and one set of flush-fit cleaning devices on the wall side (*one for each three bladed impeller*). **Pierre Guerin** flush-fit cleaning systems are switched by pilot valve (*with the possibility to have proximity detectors*) and run independently from the pressure of CIP piping.



Atmospheric Vent



HTPG4 Agitator



Circular Safety Rail

Options

- stainless steel agitator drive motor cover
- cleaning-in-place sample valve, or membrane sampling probe
- circular safety rail, intermediate rail and kick plate, EN 1.4307 (AISI 304L)
- walkway support bracket
- ultraclean vent to keep the product under sterile filtered air
- jacket on bottom and wall side (*total or partial*) by forced circulation of hot or cold water to maintain product temperature during all the period of hydration phase of the powders
- insulation of cover.



Sample Valve

Dimensions - Weight - Sizes



Flush-Fit Cleaning System

Nominal Volume (l)	Useful Volume (l)	Internal Diameter (mm)	External Diameter (mm)	Wall Height (mm)	Total Height (mm)	Total Weight (kg)
2 500	2 790	1 390	1 530	1 750	4 800	900
5 000	5 235	1 590	1 730	2 500	5 800	1 200
10 000	12 255	2 186	2 326	3 000	6 270	1 500
15 000	16 005	2 186	2 326	4 000	7 270	1 900
20 000	21 860	2 863	3 003	3 000	6 470	2 650
25 000	26 695	2 863	3 003	4 000	7 470	3 350
30 000	35 140	3 181	3 321	4 000	7 585	3 750
40 000	43 680	3 578	3 719	4 000	7 700	4 600
50 000	53 735	3 578	3 719	5 000	8 700	5 100

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