

CPA Blending tank

When innovation meets tradition



PIERRE GUERIN
TECHNOLOGIES

TOGETHER BRING LIFE TO YOUR PROJECTS

ISO 9001
BUREAU VERITAS
Certification



CPA, blending 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

- incorporation (*dispersion and dissolution*) of powder ingredients into liquid phase: milk or milk derivatives powders reconstitution, egg powder, chocolate or ingredient with cacao base, sugar, salt, flour, texturizing agents...

This vessel is well adapted for milk or eggs reconstitution, premix preparation, mix desserts, syrups...

It can be used both for batch and continuous process.

Design

- capacities: 400 up to 6 000 litres
- Clean-In-Place stainless steel cylindrical tank, without retention zone
- insulation by non-hydrophilic Mineral Wool with water-proof stainless steel cover

With the basic atmospheric design, this tank can be, on request, equipped with an Ultra-Clean vent to maintain the product under pressure with filtered air, or can be designed for vacuum powder introduction to avoid foam generation.

Performance & Innovative agitation system

- HTA (*Heli-Turbo-Agitator*) type agitator, combines a saw-turbine SC for the dispersion of the powders with the patented three bladed HTPG4 impeller providing the pumping effect. The HTA functions even at the minimum working volume while keeping to maximum efficiency of products with high final dry material content.

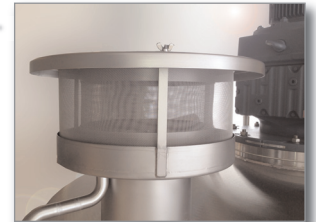
Main features

- cylindrical and vertical tank standing on a load weight-spreading frame
- 15° conical cover and bottom
- stainless steel adjustable legs with floor plates
- insulation by non-hydrophilic Mineral Wool with water-proof stainless steel cover
- materials: all parts made of stainless steel EN 1.4307 (AISI 304L) including insulation cover, frame, feet, etc...
- all welds in contact with the product are made under inert gas atmosphere, rolled, ground and polished:
 - internal surfaces finish: $Ra \leq 0.8\mu m$
 - all external welds are brushed
 - external surfaces finish: polished grit 120.



Accessories

- 1 HTA type agitator on the cover, eccentric mounting (*frequency inverter to record*)
- 1 man-hole on the cover \varnothing 400 minimum, without retention area, with opening safety grill (*EEC standards*)
- 1 atmospheric vent with anti-mosquito screen, sized for CIP
- 1 set of cleaning devices including 2 static spray balls fitted on the cover
- 1 powder inlet with large diameter
- 1 liquid inlet and (or) recirculation
- 1 set of nozzles for instruments (*temperature probe, low and high level switches, continuous level probe*)
- 1 plain end outlet with welded anti-vortex.



Atmospheric Vent



HTA Agitator

Options

- on request, jacket on wall-side and bottom by forced circulation of hot or cold water on all surfaces in contact with product. Large heat exchange surface
- stainless steel agitator drive motor cover
- Cleaning-in-place sample valve or membrane sampling probe
- sight and light glass
- EN 1.4404 (AISI 316 L) stainless steel for all parts in contact with the product
- circular safety rail, intermediate rail and kick plate, EN 1.4307 (AISI 304L) stainless steel
- walkway support bracket
- CIP pipework assembly
- ultra-clean vent to keep the product under sterile filtered air
- tank calculated to be used with full vacuum with large dished band radius cover and 30 or 45° conical bottom for vacuum powder introduction to avoid foam generation.
- legs with spacer for loadcell mounting
- flush-fit cleaning device to clean surfaces below the HTA saw disc turbine.



Circular Safety Rail



Sample Valve

Dimensions - Weight - Sizes

Nominal Volume (l)	Useful Volume (l)	Internal Diameter (mm)	External Diameter (mm)	Wall Height (mm)	Total Height (mm)	Total Weight (kg)
400	460	792	930	880	2 430	260
700	700	951	1 086	925	2 470	327
1 000	1 156	1 111	1 246	1 140	2 750	480
1 500	1 625	1 153	1 288	1 500	3 200	590
2 000	2 370	1 390	1 524	1 500	3 250	720
2 500	2 755	1 390	1 524	1 750	3 500	800
3 000	3 130	1 390	1 524	2 000	3 700	880
4 000	4 125	1 590	1 730	2 000	3 800	1 030
5 000	5 800	1 788	1 930	2 000	3 800	1 200
6 000	6 500	1 988	2 130	2 000	4 000	1 350



Flush-Fit Cleaning System



Ultra-clean Vent

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