

CFU Starter tanks

When innovation meets tradition



PIERRE GUERIN
TECHNOLOGIES

TOGETHER BRING LIFE TO YOUR PROJECTS

ISO 9001
BUREAU VERITAS
Certification



CFU, starter 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

- _ media pasteurization
- _ preparation and storage of leaven for the dairy and cheese industry.

Design

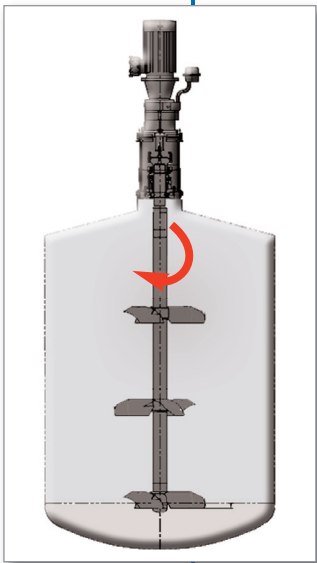
- _ capacities: 10 000 up to 50 000 litres
- _ Clean-In-Place stainless steel cylindrical tank, without retention zone
- _ insulation by non-hydrophilic Mineral Wool with water-proof stainless steel cover
- _ jacket on wall-side and bottom, by forced circulation of steam, superheated water or cold water on all wetted surfaces of the tank
- _ with the basic atmospheric design, this tank can be, on request, equipped with an Ultra-Clean vent to keep the product under a blanket of sterile filtered air.

Performance & Innovative agitation system

- _ centred and top-mounted agitator (*without bottom-guide*) with patented HTPG4 impeller(s) and one turbine fitted on the lowest part of the shaft. This agitation system ensures a regular mixing at lower speed with an excellent pumping effect. It achieves a minimum shearing in order to maintain compatibility with fragile product structures.

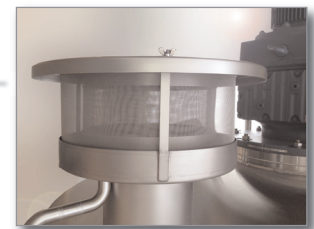
Main features

- _ cylindrical and vertical tank standing on a load weight-spreading frame
- _ 15° conical cover and bottom
- _ stainless steel adjustable legs with floor plates
- _ material: all parts made of stainless steel EN 1.4307 (AISI 304L)
- _ 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.

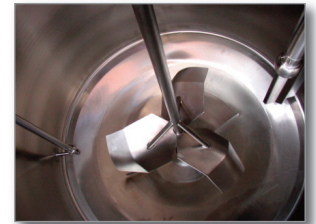


Accessories

- 1 centre top mounted HTPG4 type impeller(s) with one turbine fitted on the lowest part of the shaft (*without bottom guide*) - 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 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



Sample Valve



Flush-Fit Cleaning System

Options

- stainless steel agitator drive motor cover
- cleaning-in-place sample valve, or membrane sampling probe
- sight and light glass
- welded anti-foam inlet product and removable
- EN 1.4404 (AISI 316L) stainless steel for all parts in contact with the product
- circular safety rail, intermediate rail and kick plate, EN 1.4307 (AISI 304L)
- walkway support bracket
- CIP pipework assembly
- ultra-clean vent to keep the product under sterile filtered air.

Dimensions - Weight - Sizes

| Nominal Volume (l) | Useful Volume (l) | Internal Diameter (mm) | External Diameter (mm) | Wall Height (mm) | Total Height (mm) | Total Weight (kg) |
|--------------------|-------------------|------------------------|------------------------|------------------|-------------------|-------------------|
| 200 | 244 | 691 | 770 | 750 | 2 250 | 230 |
| 300 | 380 | 792 | 930 | 730 | 2 280 | 245 |
| 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 |
| 1 200 | 1 360 | 1 153 | 1 288 | 1 250 | 2 950 | 535 |
| 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 |
| 7 500 | 8 050 | 1 988 | 2 130 | 2 500 | 4 500 | 1 450 |
| 10 000 | 11 625 | 2 386 | 2 526 | 2 500 | 4 600 | 1 735 |

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