

Solid Dosage
Processing

UltimaPro™-FZ
Collette™ Single Pot Processing

Efficient Processing of Effervescent formulations

- Suitable for all production methods of effervescent: 2-step and 1-step using solvents, 1-step using water;
- More stable effervescent products thanks to water-based granulation;
- Fast and efficient drying of both water-based and solvent-based formulations;
- Process experience and proven track record;
- Very efficient vacuum system capable of reaching <3 mbar absolute pressure.



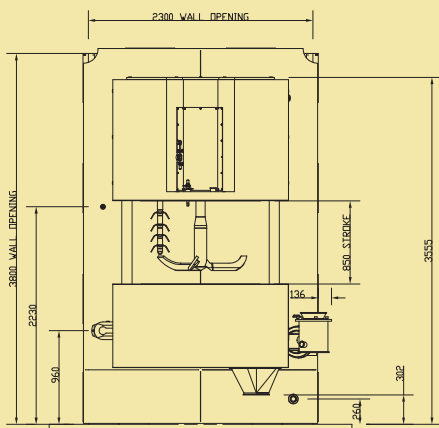
Collette™

UltimaPro™-FZ

Collette™ Single Pot Processing for effervescent production

Typical Dimensional drawing

UltimaPro™ 600



Main benefits of UltimaPro™-FZ

- The flexibility of a Single Pot Processor makes it suitable for all production methods of effervescent: 2-step and 1-step using solvents, 1-step using water.
- For effervescent processes using water, excellent control of the reaction process and more stable formulations can be achieved through fast onset of drying using vacuum (optionally assisted by microwaves for even faster drying times), leak-tight operation and a specially designed, balanced vacuum system.
- The use of vacuum for drying, combined with an inertization system using minimal amounts of nitrogen, allows the use of solvents for processing. The ingenious vacuum system with condenser allows for easy recovery of the solvent, thus minimising solvent emission and reducing waste.
- Single Pot Processing offers extreme flexibility for processing thanks to the different drying options available (vacuum, gas-assisted vacuum and microwaves).
- More than 30 years of process experience, starting with the introduction of the TOPO Processor.
- GEA Pharma Systems is also experienced at integrating PAT solutions for online monitoring of the process using its Lighthouse Probe™ technology.

Suggested configuration for UltimaPro™-FZ

The UltimaPro™-FZ is a Single Pot Processor equipped with a very efficient vacuum system, with a special balanced design for water-based effervescent. The bowl is leak-tight to enable a vacuum level of <math><3\text{ mbar}</math> to be achieved. Recipes can be integrated for standard effervescent formulations. Vacuum drying is the basic drying technology with the option of adding microwaves for even faster processing times, higher yield and more stable end product.

Available sizes

10 l, 25 l, 75 l, 150 l, 300 l, 400 l, 600 l, 900 l and 1200 l.

Test Opportunities

The Single Pot Processing technology can be tested at the GEA Pharma Systems Process Development Center in Wommelgem.

References

GSK, Cipla, Intas, Konimex, Amriya, Polfa Lodz, Hemofarm ...

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