

TECHNICAL SPECIFICATION

VARIABLE DENSITY EXTRUSION AND SPHERONIZATION KIT



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VARIABLE DENSITY LABORATORY EXTRUDER

The bench-top Caleva Variable Density Extruder is designed to give you the ability to produce experimental formulation applications with different densities. It is a novel screw extruder design with options for both axial and radial head configurations.



- ✓ Develop Pellets of Variable Density
- ✓ Increase Your Development Options
- ✓ Axial or Radial Extrusion options
- ✓ Batch Sizes from 150g to 1kg*

Output range: Batch sizes of 150g to 1kg

Size: Approximately 730w x 375h x 580d mm

Weight: Approximately 42 Kg

Cabinet: Brushed type 304 stainless steel

Product Contact: 316 stainless steel

FDA food approved plastics

Screw speed: 10 to 90 rpm (operator controlled)

Product feed: Manual with loading tray

Product output: Extrudate density can be modified using additional optional dies with different hole diameter to depth ratios

Configuration: Axial or Radial extrusion

Standard axial die: Hole diameter (\varnothing) 1mm, hole depth 1mm

Other die options are available from hole diameter (\varnothing) 0.4-8mm, hole depth 0.5-20mm

Standard radial screen: 1 mm diameter : 1 mm deep

Other die options are available from hole diameter (\varnothing) 0.5-2mm, hole depth 0.8-1.2mm

Safety: Fully safety interlocked

Water Jacket: On screw chamber as standard

Motor power: 750 W AC motor

Electrical supply: 110/120 or 220/240 Volts AC (Voltage to be selected at time of order)



Certificate Number: 1503

*Formulation dependent



Axial configuration



Radial configuration



MULTI BOWL SPHERONIZER 250/120

Interchangeable bowls on the Caleva Multi Bowl Spheronizer allows you to process different batch sizes of pellets and understand your scale up potential. If your batch size requirements change in the future you have more flexibility, save money and maximise your development effectiveness.



- ✓ Flexible Batch Size Spheronization
- ✓ Understand Your Formulation Scale Up
- ✓ Batch Sizes Between 150g to 1kg
- ✓ 4 Different Sized Compatible Bowls

Batch size capacity guide: 250 mm diameter bowl - 150g to 1kg

120 mm diameter bowl - 15g to 150g

Inserts for use in the spheronizer 120 bowl to take

discs sizes of either $\varnothing 60\text{mm}$ (from 1g) or $\varnothing 85\text{mm}$ (5-15g)

Size: Approximately 500w x 300h x 520d mm

Weight: Approximately 45 Kg

Cabinet: Brushed type 304 stainless steel

Product Contact: 316 stainless steel and polycarbonate

Standard disc: One 3 mm x 3 mm cross hatch pattern spheronizer disc supplied as standard.

Other disc patterns available as required

Product feed: Manual through easy load funnel

Product discharge: Manually operated discharge door

Safety: Fully safety interlocked

Water Jacket: Fitted as standard

Automatic run timer: Fitted as standard

Fines air control: Fitted as standard

Non stick coating: Optional for use with sticky products

Motor power: 220 W AC motor

Electrical supply: 110/220VAC, 50-60 Hz, 1 phase voltage to be selected at time of order



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