

# Belt Dryer Calibrate Beltdry

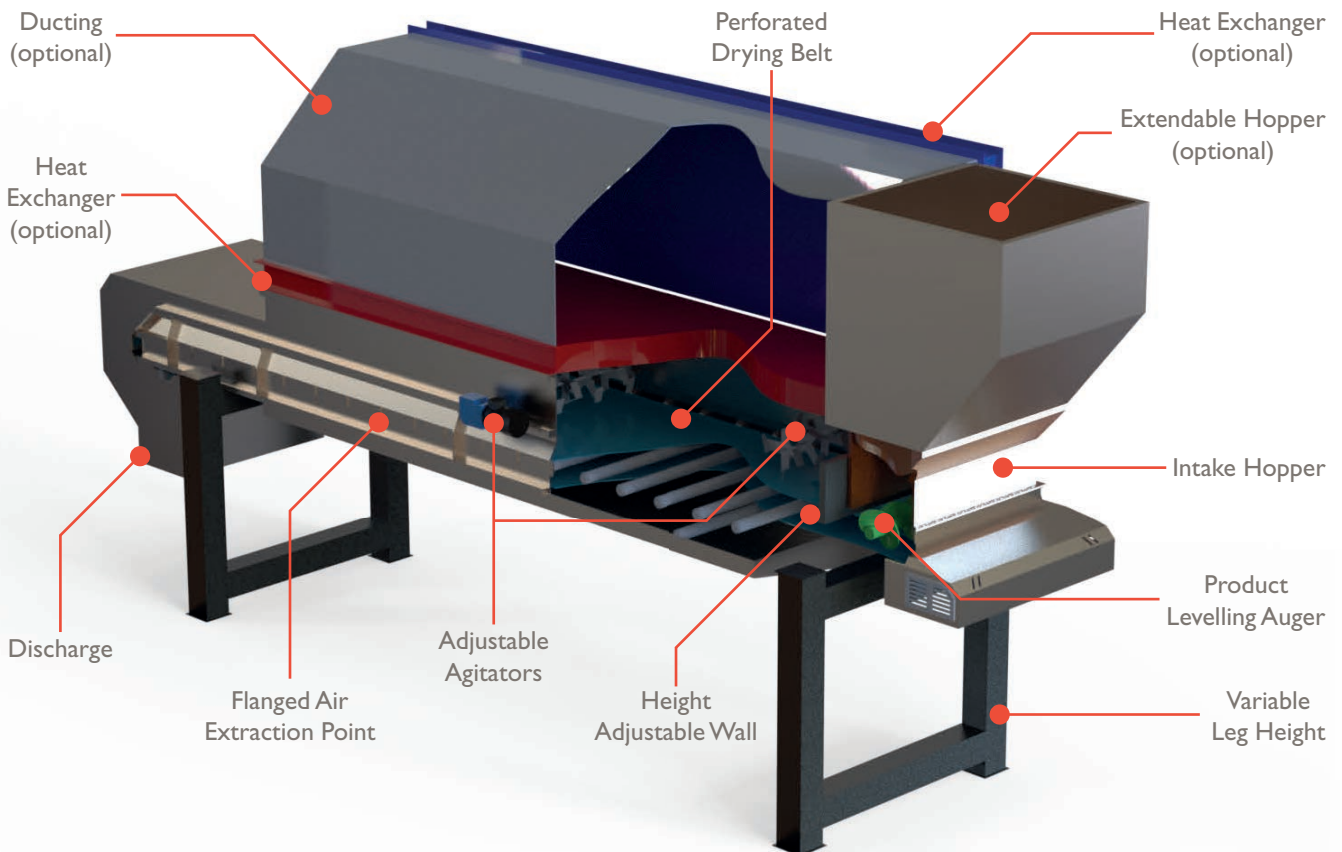
## Technical Datasheet

### About Calibrate

Calibrate Energy Engineering supply intelligent, hands off, commercial heating, chilling and electricity generating solutions to high energy-use industries.

### About Beltdry

The Calibrate Beltdry is a self-contained variable speed-driven meshed belt dryer suitable for any product from food grade through to digestate. It is ideal for many industries including agriculture, wood processing, compost production, recycling and waste management, food and chemicals and ensures the highest product quality is maintained.



All formulas and calculations are derived from industry suppliers and MCS guidelines, it is advisable to have the calculations and formulas checked by a certified mechanical engineer, and as such, Calibrate Inc. Ltd (Company # 08277206) will not be held liable for any incorrect formulas or calculations or any accidental misrepresentation.



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Energy Engineering

## Technical Specification

<b>Product Loading Capacity</b>	1.5 m <sup>3</sup> standard hopper
<b>Dimensions (mm)</b>	Height from 4626 adjustable up to 6126, Length 12206, Width 1952
<b>Drying Bed Surface Area</b>	19m <sup>2</sup> / 3.6m <sup>3</sup>
<b>Product Level Augers</b>	1
<b>Product Agitator Augers</b>	2
<b>Product Moisture Sensor</b>	Yes
<b>Temperature Sensors</b>	8
<b>Thermal Input</b>	250 kW – 1000 kW
<b>Hot Water</b>	1 - 2 exchangers
<b>Inlet / Outlet</b>	Connection size: EN 1092-1 / 11B PN 16 DN 80 - 200
<b>Frost Protection</b>	Recommended for the water circuit to avoid damage of the heat exchangers
<b>Belt Material</b>	Synthetic reinforced mesh

### Required: concrete foundation floor

Dimensions and distances in accordance with the final drawing (tbc)

Note: this is based on design conditions and is guidance only, all data must be checked against final drawings/schematics prior to order.

<b>Air Flow Inlet</b>	44-100,000 cubic metres/hour depending on product
<b>Outlet</b>	Outlet at the 5 exhaust air tubes at approx. 3.1 metre altitude
<b>Electrics</b>	
<b>Conveyor</b>	5.5 kW / VSD Drive
<b>Agitators (2)</b>	5.5 kW / VSD Drive
<b>Levelling Auger</b>	5.5 kW / VSD Drive
<b>Grounding</b>	Every dryer has to be connected to the earth, without grounding the dryer must not be put in operation
<b>Safety</b>	Before each IBN (= start up) of the dryer or a component of the dryer, the instruction manual has to be read and comply with all safety regulations Error messages have to be evaluated and corrected promptly All cleaning and maintenance intervals must be complied with

Estimated time to dry  
1 tonne at 1000kW

30°C | 17min

40°C | 13min

49°C | 11min

Estimated time to dry  
1 tonne at 300kW

30°C | 55min

40°C | 45min

49°C | 38min

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