



WALKING FLOOR  
DRYING OVEN

**ENVIRON**

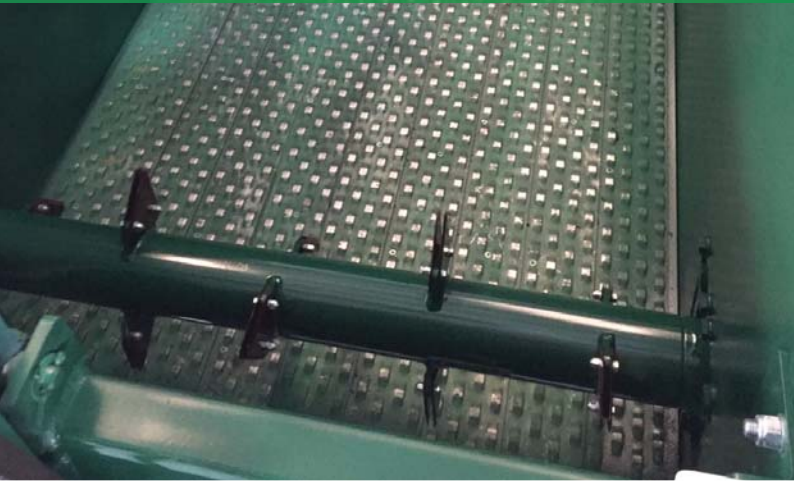
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The Environ drying oven has been developed as a robust, flexible and multifunctional machine capable of drying a wide range of materials whilst providing the flexibility to increase material throughput by modular expansion of dryer capacity. Environ use a range of construction materials which is tailored to the individual application.



## KEY SECTOR APPLICATIONS & MATERIALS

### Agriculture

Grain & seeds  
Corn  
Manure  
Non-woody biomass



### Biomass

Wood chip  
Forestry residues  
Arboricultural arisings  
Compost oversize  
Sawmill off-cuts

### Waste Management & Recycling

Waste quality improvement  
RDF  
SRF



### Sewage Sludge cake

Liquid removal from sewage  
sludge cake

### Anaerobic Digestion & Biogas

Digestate



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# DRYING OVEN FEATURES AND BENEFITS

DRYER FEATURES	FUNCTION	BENEFITS
Metering drum	Provides a consistent material feed rate into the drying oven	Provides constant flow and prevents surges of material
Layer limiter (adjustable moving plate)	Achieve equal bed depth of material	Sets material bed depth to achieve an evenly dried product
Modular system	Avoid use of additional floorspace	Sectional modular vertical design allowing for space optimisation and increase dryer capacity by adding further sectional modules.
Air vented moving floor	In addition to air vented moving floor our unique design bakes the drying product.	Uniform drying of product, optimise use of heat and airflow.
Multi-stage drying oven	Expands drying surface area and mixes material as transferred from one stage to the next	Improves homogeneity of fuel by mixing at each stage transfer.
Hot air inlets at each stage	Allows heat input at each stage	Enables temperature to be controlled at each stage
Multi-functional drying oven	The drying oven can be modified for different material throughput.	No need for separate drying areas.
Electrical Control Unit	Set multiple parameters to control drying operation	Enables different parameters to be established to dry different materials

## Environ offers the following standard equipment included in all projects:

**Product inlet zone - Metering drum, Layer limiter, Height regulation**

**Fully functional moving floor per stage**

**Fully functional hydraulic powerpack**

**2 x Maintenance access doors per stage**

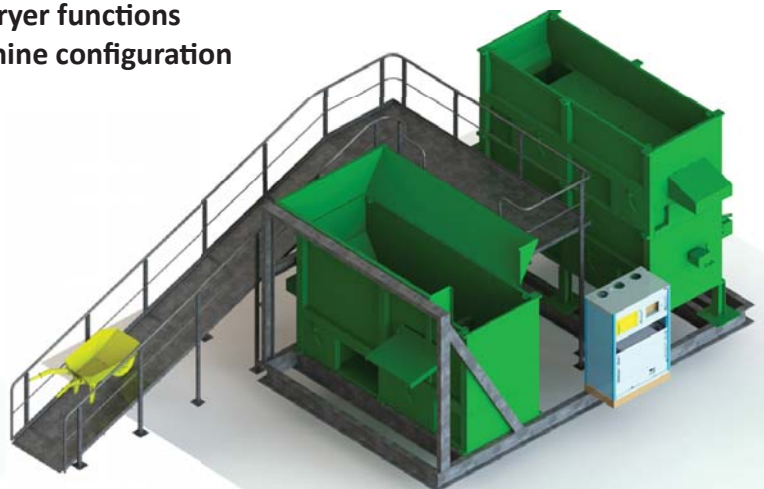
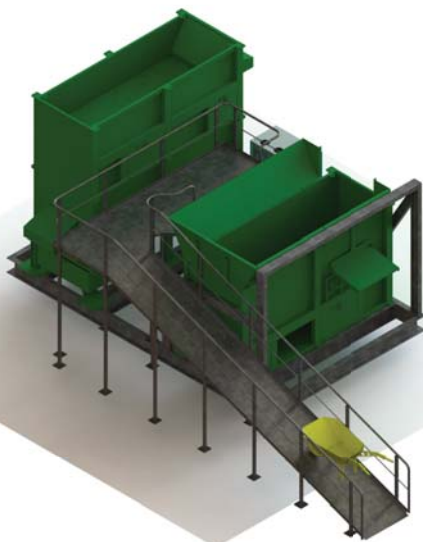
**Air delivered to each stage**

**Product outlet zone**

**Product inlet & temperature control sensors**

**Electrical control system for all dryer functions**

**Optimise layout design and machine configuration**



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## The following options can be designed and specified by Environ:

- Product feed hoper configuration
- Multiple options for feed systems
- Multiple options to heat source
- Heating distribution pipework
- Heat source and power generation – biomass CHP system
- Heat exchangers – water to air & air to air
- Hot air ducting
- Exhaust gas filtration / cleaning and odour treatment systems



## The Environ drying oven represents a modular system:

	Model number	Number of modules	Length (m)	Width (m)	Height (m)	Wood chips	Heat input (kWth)
MINI DRYING OVEN	142-25	1	4	1	2.8	50 kg/hour	20-30
	242-55	2	4	1	4.5	100 kg/hour	50-60
	342-85	3	4	1	5.3	150 kg/hour	80-90
	442-115	4	4	1	6.6	200 kg/hour	110-120
LARGE DRYING OVEN	172-250	1	7.5	2	3.0	500 kg/hour	200-300
	272-550	2	7.5	2	4.25	1000 kg/hour	500-600
	372-850	3	7.5	2	5.5	1500 kg/hour	800-900
	472-1150	4	7.5	2	6.75	2000 kg/hour	1100-1200
	572-1450	5	7.5	2	7.9	2500 kg/hour	1400-1500
	672-1750	6	7.5	2	9.2	3000 kg/hour	1700-1800