

THE ROCKET B1400 ROCKET COMPOSTER

THE B1400 HAS BEEN DESIGNED FOR THE GREATEST THROUGHPUT IN THE Smallest footprint. A Unique patented "W" shape hull design with twin agitators creates less compression of materials, better air flow and more mixing. The B1400 is an ideal system for food & green waste composting for small scale municipals

The B1400 Rocket, is a continual flow composting system and is capable of continuously processing a maximum of 2.2cubic meters of material per day. An intuitive custom control system fully automates the process, continually monitoring parameters the PLC system will automatically feed from an attached bulk hopper to the composter and control the discharge of the finished compost, minimising operator interaction.

The B1400 has some unique design features, especially important the twin agitator shafts are wholly supported externally, so there's no obstructions to the internal material flow, or needs for maintenance requirements for internally mounted bearings.

Available as a stand alone portable organic waste solution, the B1400 can be specified with bio filtration, pre shredder & automated bulk feed hopper and can also be grouped as 2-3 units fed and controlled by the same PLC and feed hopper unit.

The B1400 Rocket Composters are suitable for the on-site processing of:

- Food wastes including: Cooked / Uncooked Meat, Fish, Fruit & Vegetables
- Effluent Sludges
- Green Wastes / Garden waste / landscaping
- Animal Waste (including some types of bedding)





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TECHNICAL SPECIFICATION

MAIN VESSEL DETAILS:

Size:	Length Width	8.67m 2.9m max			
	Height	2.62m (Excluding any loading conveyor)			
Weight		7000kg (empty)			
		18,000kg (nominal full)			
	Construction: ection Hatches:	304SS—8mm thick wall "W" Shaped hull construction Qty x 2 units 600 x 600mm mounted on vessel roof centreline			
Vessel Fram		V2 Galvanised heavy duty steel support frame with option for			
		load cell fitment (not exceeding 2.9m transport width)			
PRE HEATERS:		Qty x 4 units of 2.0kw heater elements, each equipped with dual RTD Heat sensors			
TEMPERATURE MONITORING:					
INSULATION:		6x 80mm Insertion type RTD sensors mounted in centreline, 1 x ambient air temperature and 1 x exhaust air temperature Insulation to a thickness of 50mm to the main vessel shell and roof and including the front and rear bulkheads. Cladding: 1.2mm steel cladding with a			
		leather grained finish			
PERFORM					
Throughput		2275 litres per day (Determined by feed materials, loading frequency and operating conditions. Contact Tidy Planet for detailed advice)			
Residence time		Approx 8 days			
MIXING SHAFTS / AGITATORS:					
		2 x shaft diameter of 220mm OD 10mm wall thickness 304SS			
	RIVE MOTOR / B	EARINGS AND SEALS:			
Drive:		2.2 kw drive (x2) 1450rpm			
Gearbox:		Planetary Inline Type EQ 4150 1 rpm nominal O/P speed, Torque 16,000Nm			
PROCESS	AIR EXHAUST:				
Extraction F Fan:	Points:	3 x 110mm diameter points mounted on vessel roof centreline Poly Prop Centrifugal fan with external motor.			
Fan Performance:		(MB 14/5M2 – 0.25Kw) 300 m ³ /hr at a total pressure head of 575 Pa			
AIR INJEC	CTION:				
Blower performance:		8 points supplied, easy removed pipework includes connection for compressed air to aid cleaning of nozzles			
		1.5kw side channel blower providing up to 400mb at max 38m3 per hour. Equipped with pressure relief valve.			





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INTEGRATED COMPOST DISCHARGE

Screw Dia:	400 mm
Screw Length:	2000mm
Construction:	304ss trough & hardened mild steel spiral with UHMWPE
	Liner

(OPTIONAL) COMPOST STOCKPILE CONVEYOR

Length:	6000 mm
Width	450mm
Construction:	Heavy duty galvanised steel body, with chevron belt, support
	frame to allow the belt to incline to 30Degrees and stockpile
	the finished compost away from the vessel

CONTROL SYSTEM:

Cabinet:

HMI System:

IP55 Floor standing cabinet, constructed from mild steel, painted, 1600 x 1200 x 400 with plinth. Equipped with cabinet mounted Estop & lockable isolator, USB Port for software upgrades and data downloads

Beijer Technologies X2, with a 10 inch full colour display. IP Rated touch screen interface: **Displays & Capabilities:**

- Current machine operating status
- Vessel temperatures, motor load currents, current weight
- Records and stores trends for temperatures, motor currents, weights*, alarm log and audit trail.
- USB connector to down load data to flash drive mounted on Schneider cabinet
- Programmable automatic transmittal of data by Email through connection to separate communication device







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ANCILLARY OPTIONS



BIN LOADER & LIDDED HOPPER

TIP CYCLE (SPEED)50SEC~TIP WEIGHT100KGBIN SIZE120L



BIOMIXER FEED HOPPER WITH 6M CONVEYOR

CAPACITY Power Supply Configuration 5000KG@0.5BD 415V 50HZ 3PHASE Vertical

(MULTIPLE OPTIONS AVAILABLE)



GLOBAL REMOTE MONITORING PACKAGECONNECTIONWIFI / ETHERNET / 4GCloud Data logging3yrCloud Notify Package3yr





BI400 ROCKET COMPOSTER

ANCILLARY OPTIONS



INTEGRATED STOCKPILE CONVEYOR (SCREW)

LENGIH	b.UM
TIP HEIGHT	2.5M~
CAPACITY	2TONNE /HR
PRICE	EPOA



COMPOST STOCKPILE CONVEYOR (BELT)

LENGTH	6.0M
TIP HEIGHT	2.0M~
SPEED	0.7M/S

(USED IN CONJUNCTION WITH EXISTING 1.1M SCREW OUTFEED)



BIOFILTER SYSTEM Construction Weight

SIZE

304SS~ 400KG 4800L





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DIMENSIONS FOR ILLUSTRATION ONLY





