



Merris WX-5

Air Curtain Burner Advanced Data Sheet

Details

Manufacturer	Merris
Model	WX-5
Category	Air Curtain Burners

Overview

The Merris WX-5 Wood Waste Incinerator, an innovative approach to managing wood waste, is designed with sustainability and efficiency at its forefront. Central to the WX-5 is its durable 13' x 4'7" x 6' refractory-walled FireBox, crafted to endure extreme temperatures while delivering high combustion efficiency. Featuring advanced air curtain technology, the WX-5 produces a strong, high-velocity airflow across the burn chamber. This unique technology captures particulates and smoke, enabling complete combustion and drastically reducing emissions for a lower environmental footprint. The system efficiently reburns particles, achieving exceptionally clean combustion of wood waste. Not only does the Merris WX-5 boast remarkable environmental benefits, but it's also highly portable and easy to set up. It's ideally suited for various settings, including forestry, land management, construction sites, and remote areas, where effective and environmentally responsible wood waste disposal is necessary. A standout feature of the WX-5 is its capability to generate valuable biochar, offering a sustainable waste disposal solution that aligns with its eco-friendly advantages. With the ability to process up to 3 tons per hour, the Merris WX-5 Wood Waste Burner marks a significant advancement in waste management technology, combining efficiency, sustainability, and convenience in a compact package.

Processed Materials

Green Waste, Pallets, Palm Trees, Tree Roots, Wood

Recommended Use

Best For	Efficient and environmentally friendly disposal of large volumes of wood waste in forestry, land management, and construction sites.
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Good For	Construction and demolition sites with significant wood waste generation seeking a convenient on-site disposal solution. Burning in remote or inaccessible locations due to its portability and ease of deployment.
Not Built For	Incinerating non-wood materials or hazardous waste, as air curtain burners are specifically designed for clean burning of wood and organic waste.
Best Loader	Large/medium excavator with grapple/thumb

Specifications

Transport Size (L x W x H)	22'6" X 7'2" X 7'2"
Weight	18,000 lb
Tank Capacity	23 gallon
Fuel Consumption	1 gal/h
Engine Power	24 hp
Ton per hour	3 - 6 tph
Feed Height	6'2"
Firebox Dimension	13' X 5'5" X 6'
Engine Type	Yanmar or Kohler
Working Size (L x W x H)	22'6" X 7'2" X 7'2"

Features

- ✓ Pulley guards are installed on fans to enhance safety
- ✓ Air curtain technology for containment
- ✓ High-tech refractory walled FireBoxes
- ✓ Clean burning with minimal emissions

- ✓ Production of valuable biochar
- ✓ Efficient disposal of large wood waste volumes
- ✓ Ideal for construction and demolition sites
- ✓ Cost-effective and environmentally friendly solution
- ✓ Portable and easy to deploy
- ✓ Suitable for forestry and land management
- ✓ Versatile use in remote or inaccessible locations
- ✓ Biochar production after screening

Add-Ons

Rollon-Rolloff integrated chassis

For easy transport

Hinged rear doors

To access and clean out the burn chamber

Box iron steel frame

Stronger box and extra safety

Reinforced engine mounts

For increased durability and improved vibration control.

Pulley guards installed on fans

Enhanced safety

Frequently Asked Questions

What is the Merris WX-5 air curtain Incinerator?

The Merris WX-5 air curtain burner, also known as an air curtain incinerator, is a machine that cleanly burns wood and vegetative waste by blowing a curtain of air over the fire to reduce smoke and emissions.

Why use the Merris WX-5 air curtain burner instead of open burning or grinding?

The Merris WX-5 air curtain burner is environmentally friendly and emits far less black carbon and CO₂ compared to open burning or grinding, which are highly polluting.

How does the Merris WX-5 help fight climate change?

The Merris WX-5, drastically reduces black carbon emissions—one of the top contributors to climate change—air curtain burners offer a fast and effective climate solution.

What kinds of waste can the Merris WX-5 burn?

The Merris WX-5 is designed for clean vegetative waste, such as branches, logs, and brush, not mixed or hazardous materials.

What permits are needed to operate the Merris WX-5?

There are two types required to operate the Merris WX-5;

Temporary Use: Local permits for short-term projects like land clearing or fire prevention.

Stationary Use: May require a Title V permit from your state's air quality office for long-term use.

Is the Merris WX-5 air curtain burners carbon neutral?

Yes, with the Merris WX-5, burning clean vegetative waste, the process is considered carbon neutral under EPA guidelines.

Where's the Merris WX-5 air curtain burners commonly used?

The Merris WX-5 is ideal for municipalities, landfills, parks, forestry operations, and land clearing projects.

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