



Merris WX-7

Air Curtain Burner Advanced Data Sheet

Details

Manufacturer	Merris
Model	WX-7
Category	Air Curtain Burners

Overview

The Merris WX-7 Wood Waste Incinerator, a cutting-edge solution to wood waste disposal, engineered with sustainability and efficiency at its core. At the heart of the WX-7 lies a robust 18'6" x 5' x 6' refractory-walled FireBox, meticulously designed to withstand extreme temperatures and ensure the highest levels of combustion performance. Equipped with advanced air curtain technology, the WX-7 generates a powerful, high-velocity airflow over the burn chamber. This innovative feature effectively traps particulates and smoke, allowing for thorough combustion while significantly minimizing emissions and environmental impact. The system expertly reburns particles until they are completely combusted into hot gases, ensuring exceptionally clean burning of wood waste. Beyond its impressive environmental credentials, the Merris WX-7 is highly portable and remarkably easy to deploy. This makes it the perfect choice for a wide range of applications, from forestry and land management to construction sites and remote locations, where efficient and eco-friendly disposal of wood waste is required. One of the most exciting benefits of the WX-7 is its ability to produce valuable biochar, a byproduct that further enhances its eco-friendly appeal by offering a sustainable solution to waste disposal needs. With the capacity to burn up to 6 tons per hour. The Merris WX-7 Wood Waste Incinerator represents a significant leap forward in waste management technology, delivering performance, sustainability, and convenience in one powerful package.

Processed Materials

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

Recommended Use

Best For

Forestry and land management projects where large volumes of wood waste need efficient and environmentally friendly disposal. Similar to the X6, ideal for large-scale wood waste disposal and biochar production, with enhanced capacity and features for larger projects.

Good For	Construction and demolition sites with significant wood waste generation seeking a convenient on-site disposal solution. More intensive applications like land clearing operations.
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. Applications that don't require high-capacity wood waste disposal.
Best Loader	Large/medium excavator with grapple/thumb

Specifications

Transport Size (L x W x H)	27' X 7' X 7'
Weight	22,000 lb
Tank Capacity	33 gallon
Fuel Consumption	3 gal/h
Engine Power	47 hp
Ton per hour	5 - 8 tph
Feed Height	6'2"
Firebox Dimension	18'6" X 5'5" X 6'
Engine Type	Yanmar or Kohler
Working Size (L x W x H)	27' X 7' X 7'

Features

- ✓ Efficient disposal of large wood waste volumes
- ✓ Portable and easy to deploy
- ✓ Clean burning with minimal emissions
- ✓ Air curtain technology for containment
- ✓ Versatile use in remote or inaccessible locations
- ✓ Suitable for forestry and land management
- ✓ Cost-effective and environmentally friendly solution
- ✓ High-tech refractory walled FireBoxes
- ✓ Production of valuable biochar
- ✓ Biochar production after screening
- ✓ Ideal for construction and demolition sites

Add-Ons

Rollon-rolloff chassis

Frequently Asked Questions

What are the main differences between the WX-6 and the WX-7?

The WX-7 achieves a processing capacity of up to 6 tph, surpassing the WX-6, thanks to its larger burn chamber, which enhances efficiency.

What is the Merris WX-7 air curtain burner?

The Merris WX-7 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-7 air curtain burner instead of open burning or grinding?

The Merris WX-7 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-7 help fight climate change?

The Merris WX-7, 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-7 burn?

The Merris WX-7 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-7?

There are two types required to operate the Merris WX-7; 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-7 air curtain burners carbon neutral?

Yes, with the Merris WX-7, burning clean vegetative waste, the process is considered carbon neutral under EPA guidelines.

Where's the Merris WX-7 air curtain burners commonly used?

The Merris WX-7 is ideal for municipalities, landfills, parks, forestry operations, and land clearing projects.

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