

SPECIFICATIONS FOR DriAll Model ACD-28 Air Curtain Destructor

The Air Curtain Destructor as described should be used with a combustion pit which measures 28 ft. long x 8 ft. deep.

PORTABLE DESIGN

The Air Curtain Destructor shall be self-contained and wheel mounted. It shall be designed so that the entire 28 foot nozzle assembly can fold back parallel to the barrel assembly for towing, without the necessity of disassembling individual nozzle or barrel sections.

The unit shall be equipped with fenders and hitch. The unit shall include on axle with two steel belted radial tires (load range D,) and wheels suitable for transport at expressway speeds.

STATIONARY DESIGN

Two skid support structures shall run the entire length of the barrel assembly connected by at least two cross braces. A skid shall also be provided under the motor mount.

Capacity: 5 to 9 tons per hour (*variation depends on waste composition and moisture*)

Nozzle Length: 28 feet long

Nozzle Air Flow Per Foot of Pit Length: At least 800 CFM per foot

Total Nozzle Air Flow: 22,400 CFM

Nozzle Air Velocity: 10,000 feet per month

Nozzle Can Diameter: 34 inch

Body Can Diameter: 34 inch from fan to nozzle

Overall Dimensions: 28 ft. wide x 14 ft. long (*operating*) minimum
8 ft. 6 in. wide x 42 ft. long (*towing*) minimum

FAN ASSEMBLY

The unit shall include a single stage 12 blade vane axial fan assembly which is 34 inches in diameter.

NOZZLE CAN AND NOZZLE ASSEMBLIES

Barrel and nozzle assemblies shall each be fabricated of minimum of 1/8" steel plate. Nozzle assemblies shall be truss reinforced over the entire length. Nozzle erection sections shall be Z-braced internally and reinforced externally by heavy steel, welded top and bottom. The nozzle shall be cooled by internal heat dissipating plates.

Specifications for DriAll Model ACD-28 Air Curtain Destructor, *cont'd*

The nozzle assembly shall provide an unbroken air curtain across the entire length of the combustion pit, with no air gaps where one section of the nozzle connects to another.

INCLUDED FEATURES

The Air Curtain Destructor shall include the following items:

- Universal engine mount
- Driver sheaves and belts
- Belt safety guard
- Lifting hooks
- Air intake protection screen
- Battery tray
- Cummins, or John Deere 4 cylinder diesel engine
- Rockford or twin disc side load over the center hand clutch
- Murphy safety shut-down system with high temperature, low oil pressure shut-down
- Hour meter
- Tachometer
- 30 gallon remote fuel tank with 2 inch dot cap
- 2 inch military (pintle) type towing hitch
- Two coiled safety cables
- Trailer lights and wire
- Electric brakes

UNITS EQUIPPED WITH ELECTRIC MOTORS

Air velocity control sleeve—a moveable sleeve to regulate the amount of air ingested into the barrel during start-up of the unit.

PAINT

The Air Curtain Destructor shall be covered with a primer and painted with an industrial enamel.

 **Air Curtain**
destructor