

# TRION<sup>®</sup>

Indoor Air Quality



## **Air Boss<sup>®</sup> T-Series**

*Electronic Air Cleaners*

# Engineered Solutions For Clean Air

The TRION® T-Series is ideal for the removal of smoke, fumes, and oil/coolant smoke and mist. The T-Series has the ability to clean contaminated indoor air and recirculate it back to the work area, reducing energy costs by not having to exhaust conditioned air to the outside. Models T1300, T2600 and T5200 can be installed either unducted or ducted for source capture. Models T1001 and T2002 are designed for in-ducted capture.

## Features

- Solid State Power Supply
- Spiked Ionizing Blades
- Extra Depth Collector Cells
- Totally Enclosed Fan Cooled Motor
- Electrical Component Box Mounted Out of Air Stream
- Optional Multi-Purpose Plenum
- Motor HP Options for Added Static Pressure

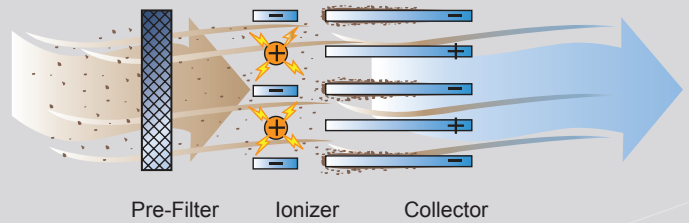
## Benefits

- Self Glazing Ceramic Insulators: Out of Airstream; Impervious to Liquids; Provide Operational Longevity and Power Supply Life; Easy to Clean
- Extra Depth Collector Cell with More Dirt Holding Capacity
- Spiked Ionizer: No Ionizing Wires to Replace, Reducing Maintenance and Replacement Cost
- High Efficiency: Up to 95% on Single Pass and 99% on Double Pass Option
- Permanent Ionizer/Collector Elements: No Filter Replacement Cost; Just Wash, Dry and Reinstall
- Low Pressure Drop: Lower Energy Cost to Operate Compared to Media and Cartridge Units
- Hinged Filter Access: No Tools Required for Quick and Easy Service



## How it Works

The TRION® T-Series utilizes the principle of Electrostatic Precipitation. Air is drawn by the motor/blower through a washable metal mesh pre-filter which traps large dust particles. The remaining particles, some as small as 0.01 microns, pass into a strong electrical field (ionizing section) where the particulate receives an electrical charge. The charged particles then pass into a collector plate section made up of a series of equally spaced parallel plates. Each alternate plate is charged with the same polarity as the particles, which repel, while the interleaving plates are grounded, which attract and collect.



Air Boss® T1001



Air Boss® T2002



Air Boss® T1300



Air Boss® T2600



Air Boss® T5200

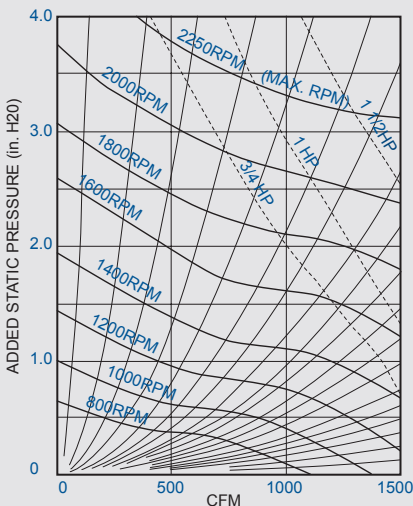


Collection Efficiencies at 0.3 Microns (Per Cell)

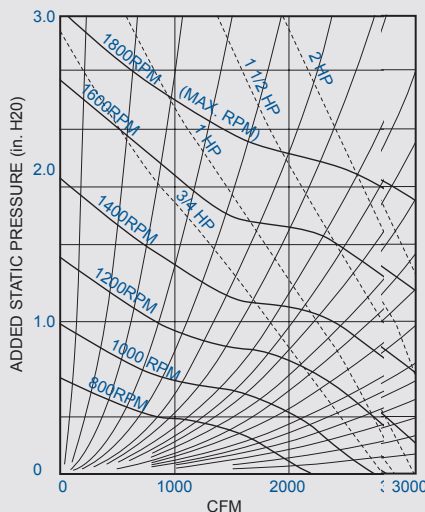
	675 CFM	825 CFM	1200 CFM	1450 CFM	1630 CFM	1875 CFM
Single Pass	95%	90%	-	-	-	-
Double Pass	-	99%	95%	90%	-	-
Triple Pass	-	-	98.7%	97.5%	95%	90%

Certified Third-Party Test Data at 0.3 microns using DEHS Aerosol.

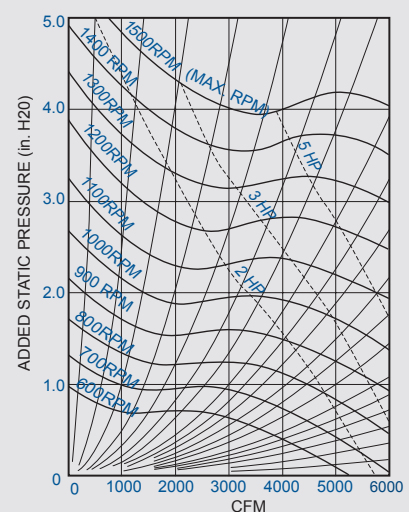
T1300 Curves



T2600 Curves



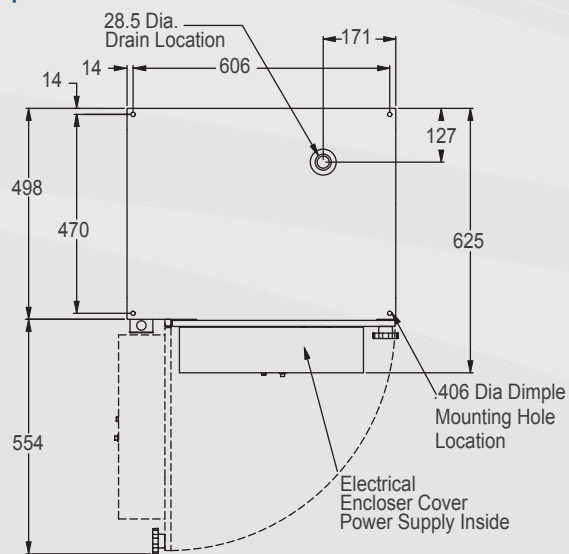
T5200 Curves



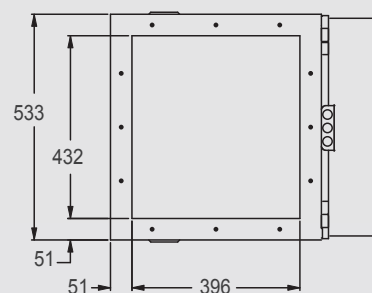
# Air Boss® T1001 Specifications



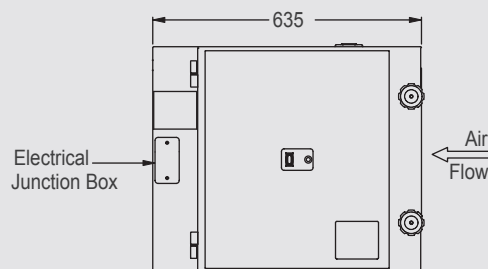
Top View



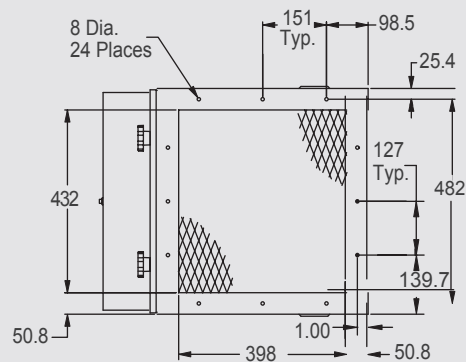
Discharge End



Front View



Intake End



## T1001 Blowerless

<b>Dimensions</b>	25" L x 25" W x 21" H
<b>Installation</b>	Suspended, Wall, Frame or Duct Mounting
<b>Unit Weight</b>	91 Lbs., Shipping Wt. 144 Lbs.
<b>Air Volume</b>	Single Pass: 675 - 825 CFM Double Pass: 825 - 1,450 CFM Triple Pass: 1,450 - 1,875 CFM
<b>Controls</b>	On/Off Switch with Indicating Light
<b>Pre-Filter</b>	Aluminum Mesh Standard 18.4" L x 18.4" W x .88" D Optional Impinger
<b>Primary Filter</b>	Standard Forever Filter — Electronic Ionizer / Collector Cell Optional Bag Filter Optional Absorber Module
<b>After Filter</b>	Optional Disposable Charcoal After Filter 18.4" W x 18.4" H x .88" D
<b>Power Supply</b>	High Frequency Solid State Design
<b>Efficiency</b>	See chart on page 3
<b>General</b>	Multiple Units Can be Joined Together for Increased Volume or Higher Efficiency

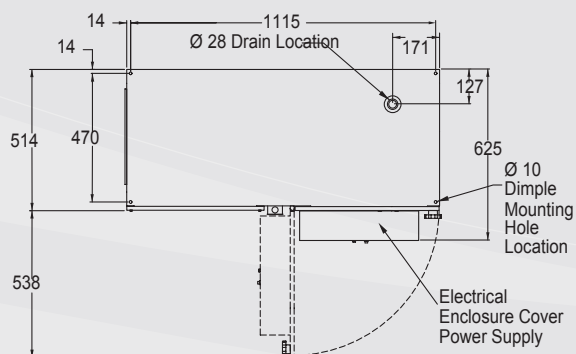
## Standard Specifications for Each Unit

<b>Cabinet</b>	16 Gauge Welded Galvanized Steel
<b>Finish</b>	Blue Epoxy Powder Coat
<b>Air Flow</b>	Horizontal — Standard Right to Left (Left to Right Option)
<b>Accessories</b>	Optional Source Capture Plenum Optional Brass Drain Fitting

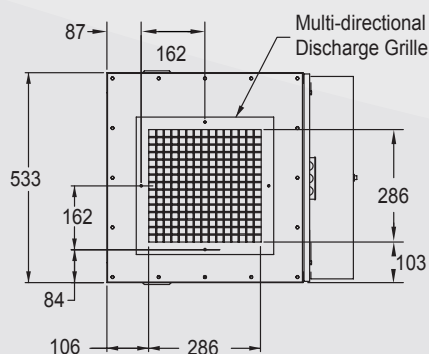
Note: Units can be stacked in configurations up to 8000 CFM.

# Air Boss® T1300 Specifications

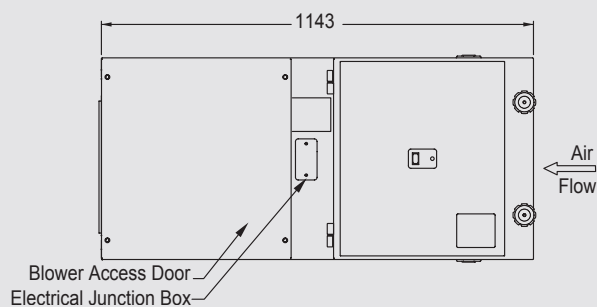
Top View



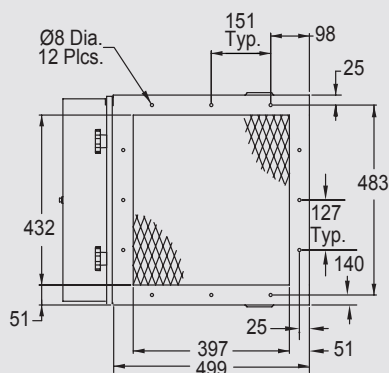
Discharge End



Front View



Intake End



T1300

<b>Dimensions</b>	45" L x 25" W x 21" H					
<b>Installation</b>	Suspended, Wall, Frame Mounting					
<b>Unit Weight</b>	180 Lbs., Shipping Wt. 268 Lbs.					
<b>Motor</b>	TEFC, Sealed Ball Bearings, 1725 RPM, Thermal Protected Continuous Duty, U.L. Listed					
<b>Motor Options</b>	HP	Vac	Hz	Phase	Max Amp	Max Watt
<b>Standard</b>	3/4	120/230	60	1	11.7/6.1	950
<b>Option</b>	1	208/230/460	60	3	3.5/1.8	900
<b>Blower</b>	Belt Driven, Squirrel Cage, Forward Curved, with Sealed Ball Bearings					
<b>Air Volume</b>	Single Pass: 675 - 825 CFM Double Pass: 825 - 1,450 CFM Triple Pass: 1500 Maximum CFM					
<b>Efficiency</b>	See chart on page 3					
<b>Controls</b>	On/Off Switch with Indicating Light Motor Starter (3 Phase Only)					
<b>Sound Rating</b>	67 dBA					
<b>Pre-Filter</b>	Standard - Aluminum Mesh 18.4" L x 18.4" W x .88" D Optional - Impinger					
<b>Primary Filter</b>	Standard Forever Filter- Electronic Ionizer / Collector Cell Optional Bag Filter Optional Absorber Module					
<b>After Filter</b>	Disposable Charcoal After Filter Option 8.4" W x 18.4" H x .88" D					
<b>Power Supply</b>	High Frequency Solid State Design					

Standard Specifications for Each Unit

<b>Cabinet</b>	16 Gauge Welded Galvanized Steel
<b>Finish</b>	Blue Epoxy Powder Coat
<b>Air Flow</b>	Horizontal — Standard Right to Left (Left to Right Opt)
<b>Accessories</b>	Optional Source Capture Plenum Optional Brass Drain Fitting

# Air Boss® T2002 Specifications



## T2002 Blowerless

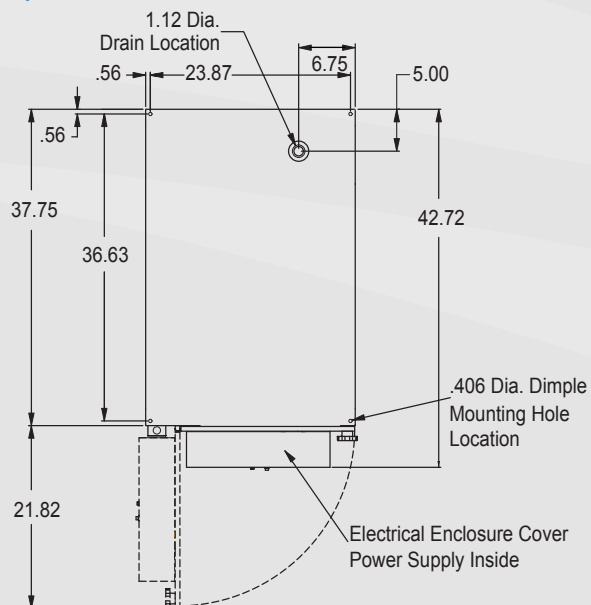
<b>Dimensions</b>	25" L x 43" W x 21" H
<b>Installation</b>	Suspended, Wall, Frame Or Duct Mounting
<b>Unit Weight</b>	148 Lbs., Shipping Wt. 221 Lbs.
<b>Air Volume</b>	Single Pass: 1,350 - 1,650 CFM Double Pass: 1,650 - 2,900 CFM Triple Pass: 2,900 - 3,750 CFM
<b>Controls</b>	On/Off Switch with Indicating Light
<b>Pre-Filter (2) Required</b>	Aluminum Mesh Standard 18.4" L x 18.4" W x .88" D Optional Impinger
<b>Primary Filter (2) Required</b>	Standard Forever Filter - Electronic Ionizer/Collector Cell Optional Bag Filter Optional Absorber Module
<b>After Filter (2) Required</b>	Optional Disposable Charcoal After Filter 18.4" W x 18.4" H x .88" D
<b>Power Supply</b>	High Frequency Solid State Design
<b>Efficiency</b>	See chart on page 3
<b>General</b>	Multiple Units can be Joined Together for Increased Volume or Higher Efficiency

## Standard Specifications for Each Unit

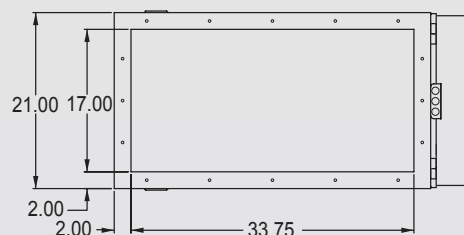
<b>Cabinet</b>	16 Gauge Welded Galvanized Steel
<b>Finish</b>	Blue Epoxy Powder Coat
<b>Air Flow</b>	Horizontal — Standard Right to Left (Left to Right Option)
<b>Accessories</b>	Optional Source Capture Plenum Optional Brass Drain Fitting

Note: Units can be stacked in configurations up to 16000 CFM.

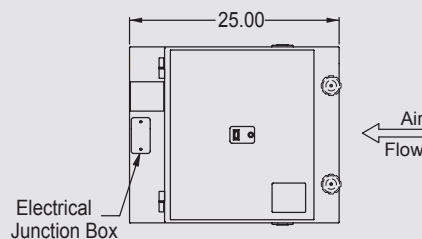
## Top View



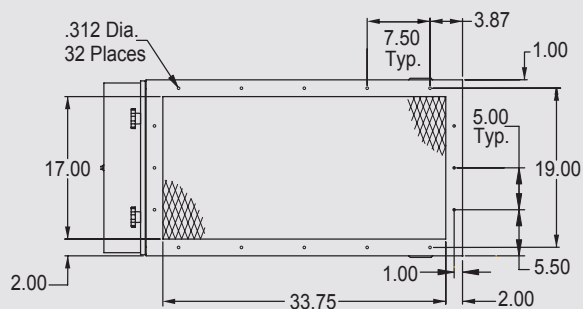
## Discharge End



## Front View



## Intake End



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# Air Boss® T5200 Specifications



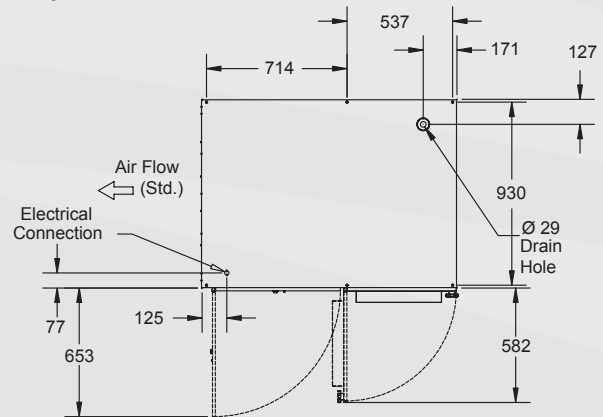
## T5200

<b>Dimensions</b>	51" L x 41" W x 42" H					
<b>Installation</b>	Suspended, Wall, or Frame Mounting					
<b>Unit Weight</b>	600 Lbs., Shipping Wt. 730 Lbs.					
<b>Motor</b>	TEFC, Sealed Ball Bearings, 1725 RPM, Thermal Protected Continuous Duty, U.L. Recognized					
<b>Motor Options</b>	HP	Vac	Hz	Phase	Max Amps	Max Watts
<b>Standard</b>	2	230 / 460	60	3	6.8 / 3.4	1564
<b>Option 1</b>	3	230 / 460	60	3	9.7 / 4.0	2937
<b>Option 2</b>	5	230 / 460	60	3	14.7 / 7.2	4687
<b>Blower</b>	Belt Driven, Squirrel Cage, Forward Curved, with Sealed Ball Bearings					
<b>Air Volume</b>	Single Pass: 2,700 - 3,300 CFM Double Pass: 3,300 - 5,800 CFM Triple Pass: 6,000 Maximum CFM					
<b>Efficiency</b>	See chart on page 3					
<b>Controls</b>	On/Off Switch with Indicating Light — Motor Starter					
<b>Sound Rating</b>	76 DBA					
<b>Pre-Filter (4) Required</b>	Standard Aluminum Mesh 18.4" L x 18.4" W x .88" D Optional Impingers					
<b>Primary Filter (4) Required</b>	Standard Forever Filter- Electronic Ionizer / Collector Cell Optional Bag Filters Optional Absorber Modules					
<b>After Filter (4) Required</b>	Optional Disposable Charcoal Filter 18.4" L x 18.4" W x .88" D					
<b>Power Supply</b>	High Frequency Solid State Design (2 Required)					

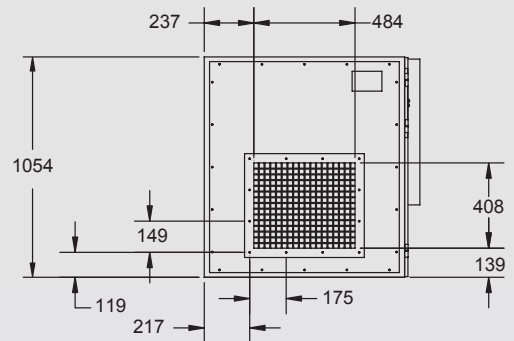
## Standard Specifications for Each Unit

<b>Cabinet</b>	16 Gauge Welded Galvanized Steel
<b>Finish</b>	Blue Epoxy Powder Coat
<b>Air Flow</b>	Horizontal — Standard Right to Left (Left to Right Option)
<b>Accessories</b>	Optional Source Capture Plenum Optional Brass Drain Fitting

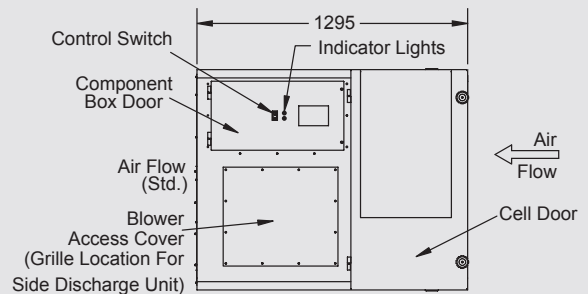
Top View



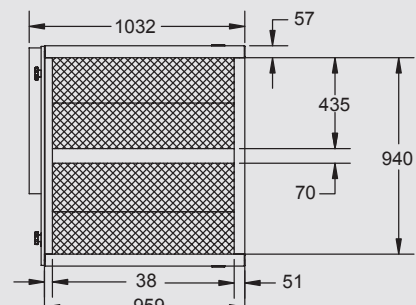
Discharge End



Front View



Intake End



## Extended Range Products

**T4002**



**T6002**



**T8002**



The Model T4002 is a duct-mounted unit with air movement provided by an external source, such as an exhaust fan or air handler. The T4002 consists of two T2002 Modules stacked vertically, and contains four washable Ionizing/Collecting Cells with Stainless Steel Spiked Ionizers and Self Glazing Ceramic Insulators. Air volume range is 3200-6400 CFM.

The Model T6002 is a duct-mounted unit with air movement provided by an external source, such as an exhaust fan or air handler. The T6002 consists of three T2002 Modules stacked vertically, and contains six washable Ionizing/Collecting Cells with Stainless Steel Spiked Ionizers and Self Glazing Ceramic Insulators. Air volume range is 4800-9600 CFM.

The Model T8002 is a duct-mounted unit with air movement provided by an external source, such as an exhaust fan or air handler. The T8002 consists of four T2002 Modules stacked vertically, and contains eight washable Ionizing/Collecting Cells with Stainless Steel Spiked Ionizers and Self Glazing Ceramic Insulators. Air volume range is 6400-12800 CFM.

Model	T4002	T6002	T8002
Dimensions (L x W x H)	25" x 42.7" x 42.3"	25" x 42.7" x 63.5"	25" x 42.7" x 84.8"
Installation	In-Duct		
Unit Weight	300 Lbs.	450 Lbs.	600 Lbs.
Voltage	120/60/1; 240/60/1; 460/60/3		
Air Volume	3200-6400 CFM	4800-9600 CFM	6400-12800 CFM
Efficiency	See chart on page 3		
Controls	(2) On/Off Switches with Indicating Lights	(3) On/Off Switches with Indicating Lights	(4) On/Off Switches with Indicating Lights
Power Supply	(2) High Frequency, Solid State	(3) High Frequency, Solid State	(4) High Frequency, Solid State
1" Mesh Prefilter - Qty.	4	6	8
Ionizing/Collecting Cell - Qty.	4	6	8
After Filter (Option) - Qty.	1" Charcoal After Filter (4) Required 1" Mesh Filter (4) Required	1" Charcoal After Filter (6) Required 1" Mesh Filter (6) Required	1" Charcoal After Filter (8) Required 1" Mesh Filter (8) Required

### Standard Specifications for Each Unit

Cabinet	16 Gauge Welded Galvanized Steel
Finish	Blue Epoxy Powder Coat
Air Flow	Horizontal — Standard Right to Left (Left to Right Option)
Accessories	Brass Drain Fittings; Drain Trays between Modules; Refillable Carbon Modules for Odor Control

Note: T2002 Modules can be stacked up to 5-high and 2-wide for 32000 CFM.



Our Electronic Air Cleaners come with a three-year limited warranty.



**Air Boss MP600M**

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