



**Rhondair**<sup>TM</sup>  
Aerosol Capture System

## Instructions for Use

### Table of Contents

Important Safety Instructions	1
Rhondair System Diagram	2
Assembly Instructions	3-5
How to use the Rhondair System	6-8
Technical Specifications	9
Filter Replacement	10-11
Maintenance and Troubleshooting	12
Warranty	13-14
Re-ordering	15

For the most up to date version visit:

[www.rhondium.com/rhondair-ifu](http://www.rhondium.com/rhondair-ifu)

Rhondium Dental Laboratories

[www.rhondium.com](http://www.rhondium.com)

# Important Safety Instructions

Read the Instructions for Use and Important Safety Instructions carefully. Failure to follow these instructions could cause a malfunction of the Rhondair System or unsatisfactory performance. Follow a regular service and maintenance schedule for efficient operation.

To reduce the risk of electric shock, fires, and/or injury:

- Do not use the Rhondair System in wet or damp locations
- Do not use outdoors
- Do not use at ambient temperature of above 95°F/35°C
- Do not use fabrics or other material to cover the inlet and outlet of the unit
- Do not allow children to operate or play with the unit

For safety reasons and to prevent electric shock, unplug the power cord from the electric outlet socket under the following conditions:

- When not in use for a long period of time
- When cleaning, servicing the machine or during replacement of filters
- When moving the Rhondair System

To prevent electric shock, do not dismantle, repair or modify this product.

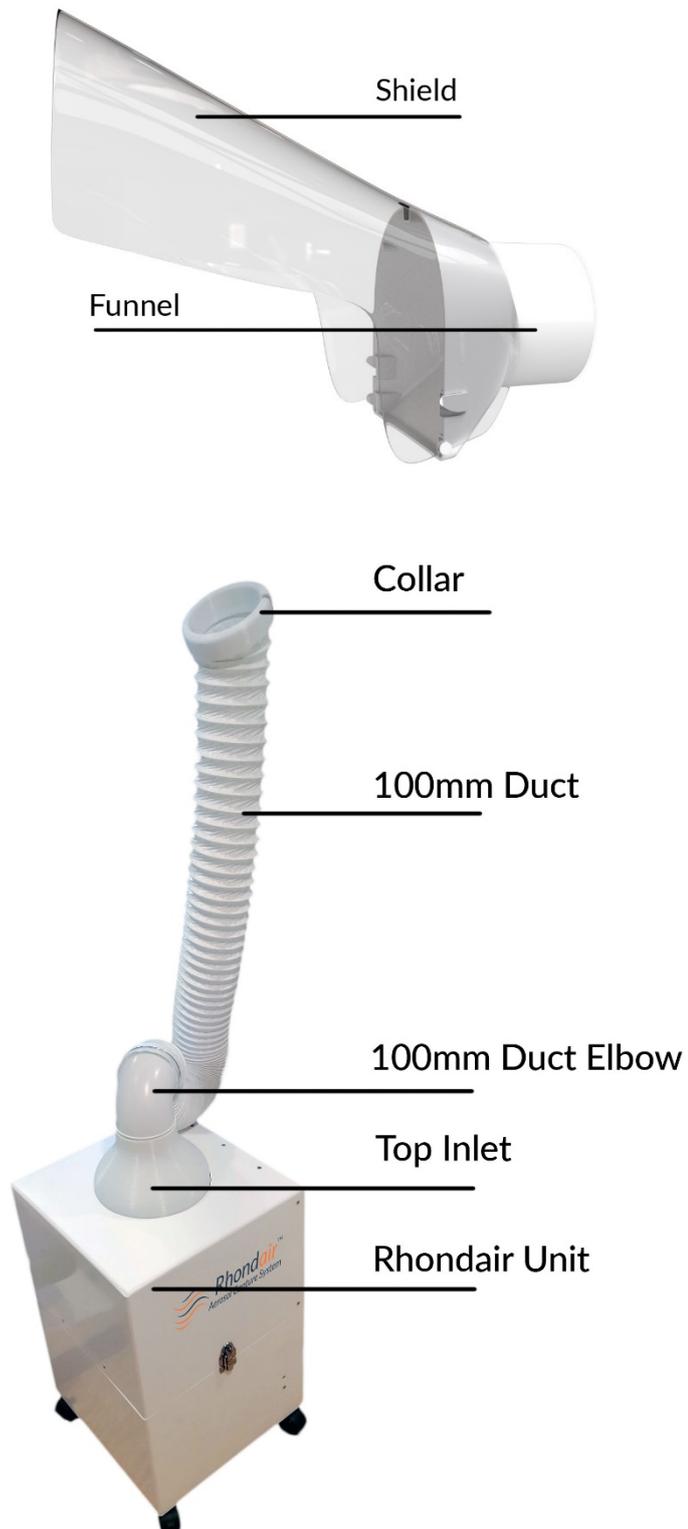
Maintenance and cleaning instructions should be followed exactly as directed in this manual. In case of malfunction, please contact an authorized distributor or Rhodium Dental Laboratories for service instructions.

To reduce the risk of electric shock, the equipment has a grounding type plug that has a third (grounding) pin. This plug will only fit into a grounding type power outlet. If the plug does not fit into the outlet, contact qualified personnel to install the proper outlet. Do not alter the plug in any way.

To reduce the risk of electric shock, do not pull the cord to remove the plug from its outlets. Protect the cord against heat, oil and sharp objects. Do not run any appliance over the cord. Do not pull or carry by the cord, use cord as a handle, close a door on the cord, or pull cord around sharp edges or corners.

To reduce the risk of injury, do not insert anything into the top inlet unless the power cable has been detached.

# Rhondair System Diagram



# Assembly Instructions

Tools you will need: Phillips screwdriver, or 10mm Socket, Wire cutters or pliers.

- (1) Unpack your Rhondair System.
- (2) Check you have the following components:

- 1 x Main Rhondair Unit
- 3 x Rhondair Funnel and Mesh Grating.
- 1 x 100mm Duct Elbow
- 1 x 100mm Duct(5m) with Collar attached.
- 1 x 100mm Duct Clamp
- 1 x Foot Pedal
- 1 x 3 Pin Power Cable
- 3 x Velcro Strap
- 1 x Box of Rhondair Shields (50)
- 1 x 25m Roll of Sleeves

- (3) Place main Rhondair Unit near dental chair or other desired location.
- (4) Remove the duct clamp and plastic from the top inlet. Insert the 100mm duct elbow into the top inlet of the Rhondair Unit.

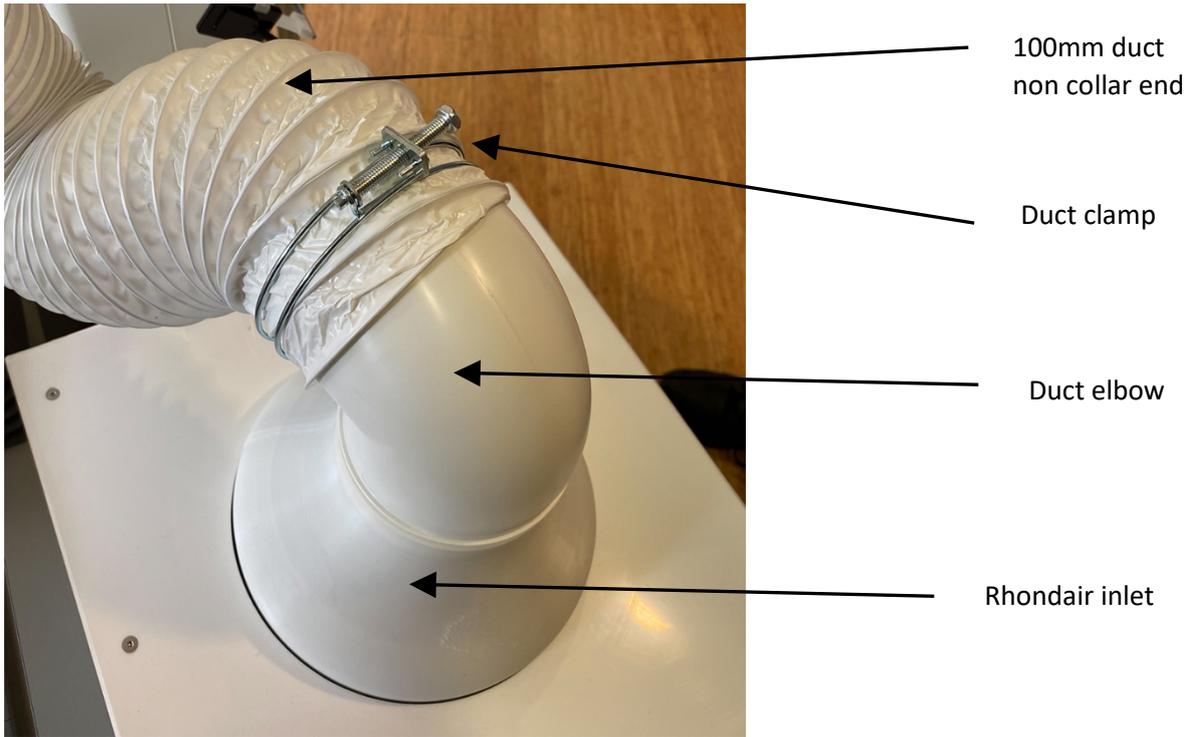


- (5) Extend the 100mm duct(collar end) to the dental chair headrest and back to the 100mm elbow.



- (6) Attach the Velcro strap to your dental arm supporting the duct (optional).
- (7) Trim any excess duct length off the non- collar end.
- (8) Attach the duct to the elbow with the supplied hose clamp.





(9) Attach a hook to your dental chair to hang up the collar when not in use (optional).



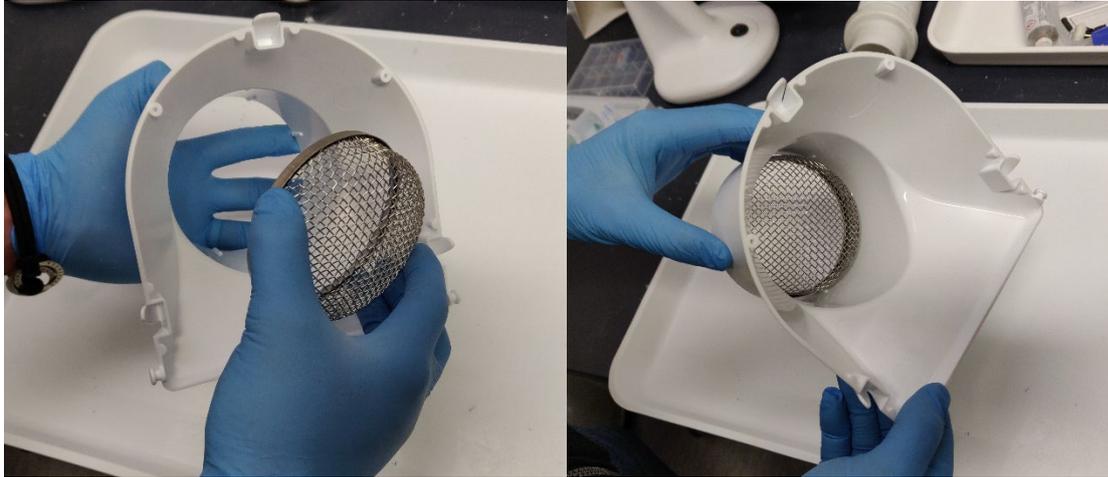
(10) Align and plug in the foot pedal.

(11) Attach the power cable and plug in.

Your system is now ready to use.

## How to use the Rhondair System

- (1) Carefully insert mesh into funnel through funnel opening until mesh is firmly wedged in place (concave of mesh facing up).



- (2) Attach shield to funnel (Multiple can be setup prior to appointments). Attach onto middle tab first, then do the side tabs.



- (3) Cut off a length of sleeve and apply to the ducting. Tuck a small amount of sleeve into the collar (make sure you do not block the duct).



- (4) Press and twist the tapered funnel end into the collar.



- (5) Turn on the Rhondair System.
- (6) Place the funnel onto the patient's bib a few inches below the patient's chin.



- (7) Complete your dental procedures as normal. (you can move the shield and funnel up or down the patient's bib)

**After use**

- (8) Remove funnel and shield, then discard shield and sleeve.
- (9) Sterilize funnel (Cold sterilizing, autoclave or dishwasher).
- (10) Spray one squirt of disinfectant down the duct while still on. Note: Leave system on for 1 hour to dry the ducting.

## Technical Specifications

	Rhondair System
Hepa-grade filter class	H13
Noise level	52 dB
Flow rate	4,000 L/Min or 141CFM
Weight	15kg (33lb)
Dimensions	400 x 400 x 750 - 15.7" x 15.7" x 29.5"

# Filter Replacement

Note that only manufacturer supplied Rhondair Replacement Filters are compatible with Rhondair Aerosol Capture Systems. No other replacement filters are to be used with this unit. This is important as the Rhondair filter has been specifically designed to fit with the enclosure box. This ensures no air escapes prior to going through the filter. Using another type of filter could result in the Rhondair system not performing the function it was designed to perform. The improper use of non-manufacturer supplied filters will void any potential warranty claim.

When the unit has been in operation for 400-hours the filters must be replaced as follows:

**Note:** Depending on usage and contaminants in the environment, the filter may need to be replaced before the 400-hour default cycle expires. Contact a representative to determine if you need to replace the filter more frequently.

- (1) Turn off unit and disconnect the power cable.
- (2) As the filter will contain bio-contaminants, wear appropriate PPE.
- (3) Turn Rhondair Unit onto the solid flat side. (b)



- (4) Undo the side clips and slide the bottom section off.



- (5) Dispose of the HEPA filter as you would hazardous waste.  
(6) Wipe chamber between fan and filter with disinfectant wipe.  
(7) Place a new filter into the filter slot.



- (8) Align and slide the bottom section back on. (Note: The locating clips on the side also need to be aligned, make sure the wheels are not preventing the section lying flush on the ground)  
(9) Fasten the clips and turn the Rhondair Unit back upright.  
(10) Reconnect the power cable.

# Maintenance and Troubleshooting

## The unit doesn't power on

If the unit fails to power on, the issue may be the result of one of the following causes. In some cases, the unit will require service by the manufacturer or a professionally licensed electrician.

Possible Cause	Solution
Blown Fuse	Replace the Fuse

## The unit powers on but doesn't operate

If the unit powers on but the fan fails to operate, the issue may be the result of a faulty motor and will require service by the manufacturer or a professionally licensed electrician.

Possible Cause	Solution
Fan/Motor malfunction	Replace the Fan/Motor
Possible obstruction in the fan	Remove obstruction

## The unit operates but suction is low

If the fan/motor is properly functioning, but the unit exhibits reduced airflow and/or reduced particulate collection efficiency the issue may be the result of one of the following causes and may require filter replacement.

Possible Cause	Solution
Integrated Filter is fully loaded	Replace Integrated Filter
Possible obstruction in the fan	Remove obstruction

## Warranty

Rhodium Dental Laboratories only makes this 1-Year Limited Warranty ("Limited Warranty") to the original retail purchaser who submits the enclosed Warranty Registration form within the 10 days of receipt by email to [info@rhodium.com](mailto:info@rhodium.com)

This Limited Warranty applies only to the repair or replacement of any manufactured or supplied part of this product which, upon inspection by Rhodium Dental Laboratories authorized personnel, proves to have failed in normal use due to defects in material or workmanship.

The sole responsibility of Rhodium Dental Laboratories under this Limited Warranty is, in its sole discretion, to either repair or replace a duly registered product (or defective part thereof) with the same or a comparable model within a reasonable period of time, subject to the following exclusions, limitations, statutory rights and warranty claim procedures.

This Limited Warranty is exclusive, and Rhodium Dental Laboratories expressly disclaims all other or additional warranties, whether written or oral, expressed or implied, including, but not limited to, warranties of merchantability, workmanship, or fitness for a particulate purpose.

Retain proof of purchase.

### Exclusions to the Warranty

This Limited Warranty does not apply, or is void, to any product or part damaged by (1) accident, misuse, abuse, or lack of reasonable care or normal maintenance; (2) installation or operation under conditions other than those recommended by Rhodium Dental Laboratories; (3) subjecting the product to any but the specified voltage; (4) servicing or disassembly by unauthorized personnel; (5) removing or defacing the serial number; or (6) modifying the original factory-assembled unit in any way.

This Limited Warranty does not apply to shipping charges for product shipped to or from the manufacturer or designated distributor in connection with warranty claims nor does it apply to any damages that occur during such shipment.

This Limited Warranty does not apply to installation, removal, reinstallation, and/or related expenses. This Limited Warranty does not apply to replacement filters.

# 1-Year Limited Warranty

## Product Registration Form

Please complete the Product Registration Form and submit it to Rhodium Dental Laboratories within ten (10) days of the original purchase, to validate the 1-Year Limited Warranty.

Submit a scanned image or photograph of the completed form via email to [info@rhodium.com](mailto:info@rhodium.com).

Name:	
Business Name:	
Street Address:	
City, State, Zip:	
Phone Number:	
Email Address:	
Date of Purchase:	
Purchased From:	

## Re-ordering

To re-order sleeves, shields, funnels or ducts, contact our helpful sales team by:

Email: [info@rhondium.com](mailto:info@rhondium.com)

Website: [www.rhondium.com](http://www.rhondium.com)

Phone NZ: 0800 743 634

Phone AUS: 1800 449 282

Phone UK: 0800 680 0636

Phone US: 1800 875 6246

