

LAGUNA
CIRCULATOR • 1400

**Air Filtration
System Manual**

MDCCIRC1400-0145

Safety Rules

As with all machinery there are certain hazards involved with the operation and use. Using it with caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result. If you have any questions relative to the installation and operation, do not use the equipment until you have contacted your supplying distributor.

Read carefully before operating the machine.

1. Keep the working area clean and be sure adequate lighting is available.
2. Do not wear loose clothing, gloves, bracelets, necklaces or ornaments. Wear face, eye, respiratory and body protection devices as indicated for the operation or environment.
3. Be sure that the power is disconnected from the machine before tools are serviced or an attachment is to be fitted or removed.
4. Never leave the machine with the power on.
5. Do not use dull, gummy or cracked cutting tools.
6. Be sure that the keys and adjusting wrenches have been removed and all the nuts and bolts are secured.

Table of contents

	Page number
Safety Rules	3
Limited warranty	4
Specification sheet	6
Noise emission	6
Receiving your filtration system	6
Parts of the filtration system	6
Unpacking your filtration system	7
Where to locate your filtration system	7
Filtration system preparation	7
Operating the Air filter.	7
Air Filter Maintenance	8
Exploded view drawings and parts lists	10

Limited Warranty

New woodworking machines sold by Laguna Tools carry a one year warranty from the date of shipping. Laguna Tools guarantees all new machines sold to be free of manufacturers defective workmanship, parts and materials. We will repair or replace without charge, any parts determined by Laguna Tools, Inc. to be a manufacturer's defect. We require the defective item/part returned to Laguna Tools. In the event the item/part is determined to be damaged due to lack of maintenance, cleaning or misuse/abuse the customer will be responsible for the cost to replace the item/part, plus all related shipping charges. This limited warranty does not apply to natural disasters, acts of terrorism, normal wear and tear, product failure due to lack of maintenance or cleaning, damage caused by accident, neglect, lack of or inadequate dust collection, misuse/abuse or damage caused where repair or alterations have been made or attempted by others.

Laguna Tools, Inc. is not responsible for additional tools or modifications sold or performed (other than from/by Laguna Tools, Inc.) on any Laguna Tools, Inc. woodworking machine. Warranty may be voided upon the addition of such noted tools and/or modifications, determined on a case-by-case basis.

Normal user alignment, adjustment, tuning and machine settings are not covered by this warranty. It is the responsibility of the user to understand basic woodworking machinery settings and procedures and to properly maintain the equipment in accordance with the standards provided by the manufacturer.

Parts, under warranty, are shipped at Laguna Tools, Inc's cost either by common carrier, UPS Ground service or similar method. Technical support to install replacement parts is primarily provided by phone, fax or email. The labor required to install replacement parts is the responsibility of the user.

Laguna Tools is not responsible for damage or loss caused by freight company or other circumstances not in our control.

Only **new** machines sold to the original owner are covered by this warranty. For warranty repair information, call 1-800-332-4094.

Copyright 2010 Laguna Tools, Inc

** Warning – no portion of these materials may be reproduced without written approval from Laguna Tools, Inc.

All documentation subject to change without notice

Specification	
Filtration	Inn-Bag Filter: 1 micron Outer Pre-Filter: 5 micron
Dimensions	Wide 510mm [20"]X Long 775mm [30 ½"] X high 420mm [16 ½"]
Motor 110V 1 Phase	1/3HP
Weight	N.W.: 33 KGS G.W.: 34 KGS CUFT: 8.2'
Wire supplied	1.9 mt [6 ft]

Noise emission

Notes concerning noise emission

Given that there exists a relationship between noise level and exposure times, it is not precise enough to determine the need for supplementary precautions. The factors affecting the true level of exposure to operators are clearly the amount of time exposed, the characteristics of working environment other sources of dust and noise etc. For example, adjacent machines, in other words the level of ambient noise. It is possible that exposure level limits will vary from country to country.

Receiving your machine.

Note. It is probable that a third party will deliver your machine.

Before you unpack your machine you will need to first inspect the packing, invoice and shipping documents supplied by the driver. Insure that there is no visible damage to the packing or the machine. You need to do this prior to the driver leaving. All damage must be noted on the delivery documents and signed by you and the delivery driver. You must then contact the seller [Laguna Tools] as soon as practical. If damage if found after delivery, contact the seller as soon as practical.

Parts of the machine.

The Air filter consists of a fan the sucks air through two filter systems [Outer and inner filters].

There is a control panel that has three LED'S to indicate if the filters are becoming blocked. Once all three LED'S are lit the filters must be cleaned.

There is a 3 amp protection fuse.

There is a on / off / remote control switch.

There is a power cable.

Note there may not be a plug fitted to the power lead, as the type of plug you need to suite your electrical system may vary.

Filter LED'S Power cable



On / off/ remote control switch

Fuse

Unpacking your machine.

1. Dismantle the box and lift the box off the pallet [If fitted].
2. Using the knife, cut the plastic wrap [if fitted].
3. Remove all the parts that have been packed with the machine.

Note. If you have any doubt about the described procedure, seek professional assistance. Do not attempt any procedure, that you feel is unsafe, or that you do not have the physical capability of achieving.

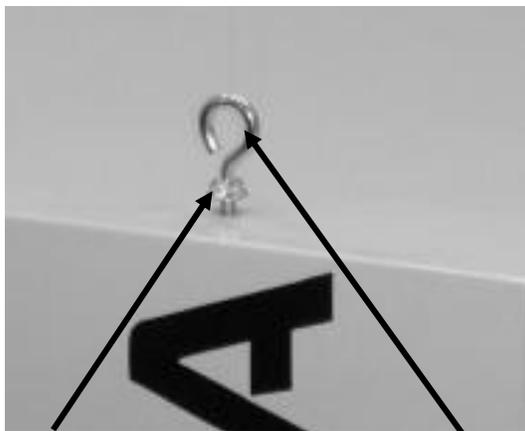
Where to locating your Air filter.

There are no hard and fast rules for its location, but below are a few guidelines: It must have un-obstructed air flow both the front and back of the air filters. It should be located in a convenient position to conduct regular maintenance. You will have to clean the filters regularly. It should be suspended above head height. You don't want to hit your head. It should be located in a central position to allow optimum air movement around your shop.

Filtration system preparation

Unpack your air filter and assemble the lock nuts to the eyebolts, and insert the 4 eye bolts into the threaded holes at the corners of the air filter.

Using a 10mm wrench tighten the lock nut against the cabinet.



Eye bolt lock nut Eye bolt



Eye bolt in each corner

Suspend the air filter from a suitably strong overhead support. [Roof joist or something similar]. Ensure that the suspension method is strong enough to support the unit.

Operating the Air filter.

The air filter can be operated either by remote control or manually. If the selection switch is in the Off or On position, the remote control will not function.

Manual Operation of the Filtration System

Switch the On / Off / Remote control switch to the On position.

Remote Operation of the Filtration System

Switch the On / Off / Remote control switch on the air filter to the remote control position.

Pressing the On / Hr switch on the remote control, turns the air filter switches on and it will not switch off until the remote control off switch is pressed.

To select a specific run time, press the On / Hr switch multiple times until the required run time is indicated [**2, 4, 6, or 8 hours**] The system will automatically shut off after the selected hour setting has elapsed.

Choosing a Fan Speed

Select the speed of the blower by pressing the right or left arrows on the remote control, directly above the On/Hr and Off buttons LED's which indicate the currently selected run time as well as fan speed.

Note. Fan Speeds

It is not possible to be specific on selecting the correct fan speed, but sanding operations usually require the fastest fan speed. This will vary depending on individual shops and machines in operation. Experience is the best guide and you will soon learn which setting to select. It is preferable to use the lowest speed possible while getting the best possible results.



Remote control

Air Filter Maintenance

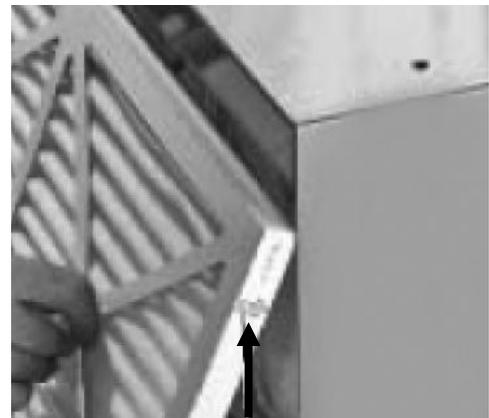
DANGER: Before attempting to clean either of the two air filters, isolate the air filter from the power.

1. Carefully remove the outer "Pleated" Filter by gently lifting and applying a light pulling force. Pull the filter out at an angle.

Note. When reassembling pleated filter ensure that the airflow direction arrows [on the side of the pleated filter] are pointing in the correct direction [in towards the three pouch filter]

2. If necessary remove the Inner "Three pouch filter by gently lifting and applying a light pulling force. Pull the filter out at an angle.

3. Both filters can be cleaned by shaking over the waste bin or into a plastic bag. If there is still dust clinging to the filters they can be cleaned with a



Air flow direction arrow

long soft brush. If the filters are cleaned with a brush, extreme caution must be used as you could damage the filters, and have to replace them.

Note. Never use any other method to clean the filters. If compressed air, water or a vacuum cleaner are used, there is a high probability that the specialized filter pores will be damaged and the filters will have to be replaced.

4. To reinstall the filters reverse procedures 1 & 2 taking care that the air direction arrow on the outer pleated filter is pointing in the correct direction [in towards the inner filter].

5. After changing the filter, push the OFF button on the remote for 10 seconds until you hear a BEEP sound.

Scheduled maintenance.

Both the inner and outer filters should be cleaned and checked for damage and wear every month.

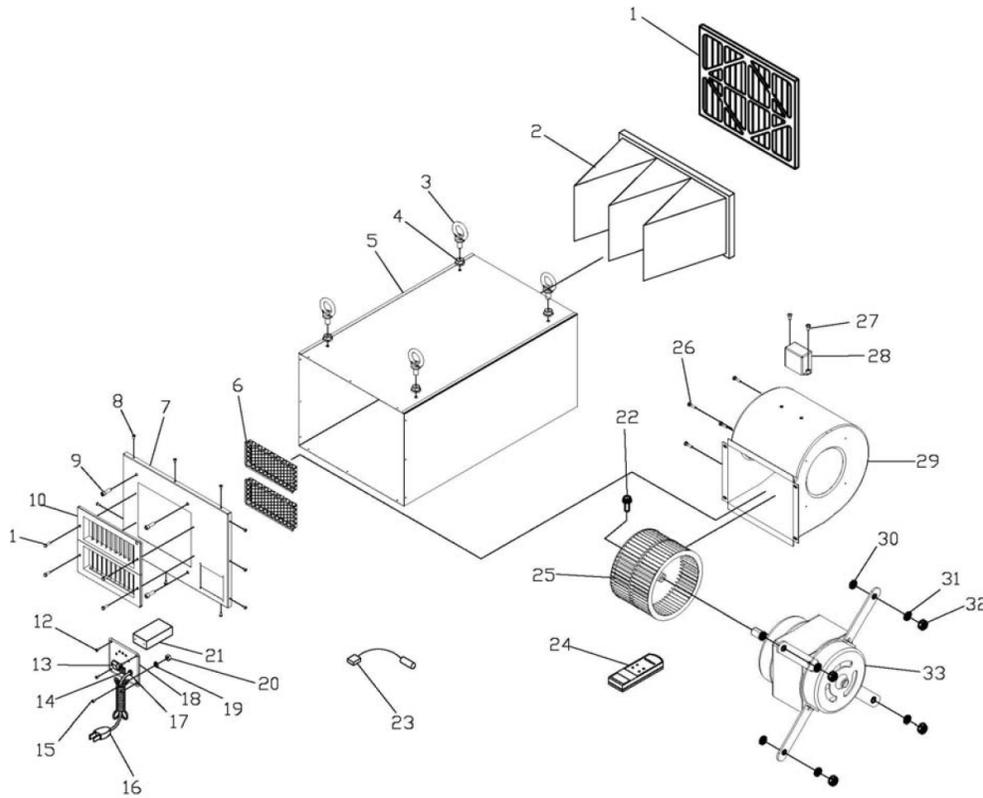
If damage or holes are detected in the filters, they must be replaced.

The outer filter should be replaced every 4 months but this will be dependant on use. The inner filter should be replaced every year but this will be dependant on use.

Note. If the inner filter fills with dust quickly this is an indication of the outer filter is either not fitted correctly or is damaged.

Note. After changing or cleaning the filters. Connect the circulator to the power and then push the off button on the remote control for 10 seconds until you hear a "beep". This will reset the circulator.

Exploded view drawing and parts list



ART LIST:

<u>NO.</u>	<u>Description</u>	<u>Specification</u>	<u>Q'TY</u>	<u>NO.</u>	<u>Description</u>	<u>Specification</u>	<u>Q'TY</u>
1	Outer Pre-Filter	5 micron	1	18	Switch Plate		1
2	Inn-Bag Filter	1 micron	1	19	Washer	M4	1
3	Hanger	1/4"	4	20	Nut	M4	1
4	Flange Nut	1/4"	4	21	LED Light		1
5	Cabinet		1	22	Hex. Head Bolt	M8*20	1
6	Outlet Safety Grill		2	23	Connector		1
7	Outlet Cover		1	24	Remote Control Bar		1
8	Screw	M4*8	12	25	Fan		1
9	Cap Screw	5/16"*1/2"	4	26	Hex. Head Bolt	1/4"*1"	4
10	Vent		2	27	Phillips Head Screw	3/16"*1/2"	2
11	Phillips Head Screw	3/16"*3/8"	4	28	Anti-Fire Switch Box	1/4"	1
12	Screw	M4*8	4	29	Blower Housing	1/4"	1
13	Exchange Switch		1	30	Rubber Motor Mount		4
14	Circuit Breaker		1	31	Washer	1/4"*25	4
15	Phillips Head Screw	M4*12	1	32	Lock Nut	1/4"	4
16	Power Cord		1	33	Motor		1
17	Bushing		3				

LAGUNA

2072 Alton Parkway. Irvine, CA 92606
Ph: 800.234.1976 | www.lagunatools.com

Laguna Tools is not responsible for errors or omissions.
Specifications subject to change. Machines may be shown with optional accessories.

© 2018, Laguna Tools, Inc. LAGUNA® and the LAGUNA Logo® are the
registered trademarks of Laguna Tools, Inc. All rights reserved.