



Woodworking machinery at its best!

**2HP CYCLONE DUST EXTRACTOR
OWNERS MANUAL
MODEL: C300R**



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GENERAL SAFETY RULES



WARNING: Do not attempt to operate the machine until you have read thoroughly and understood completely all instructions, rules, etc. contained in this manual. Failure to comply may result in accidents involving fire, electric shock, or serious personal injury. Keep this owner's manual and review frequently for continuous safe operation.

1. Know your machine. For your own safety, read the owner's manual carefully. Learn its application and limitations, as well as specific potential hazards pertinent to this machine.
2. Make sure all tools are properly earthed.
3. Keep guards in place and in working order. If a guard must be removed for maintenance or cleaning, make sure it is properly replaced before using the machine again.
4. Remove adjusting keys and spanners. Form a habit of checking to see that the keys and adjusting spanners are removed from the machine before switched it on.
5. Keep your work area clean. Cluttered areas and workbenches increase the chance of an accident.
6. Do not use in dangerous environments. Do not use power tools in damp or wet locations, or expose them to rain. Keep work areas well illuminated.
7. Keep children away. All visitors should be kept a safe distance
8. from the work area.
9. Make workshop childproof. Use padlocks, master switches and remove starter keys.
10. Do not force the machine. It will do the job better and be safer at the rate for which it is designed.
11. Use the right tools. Do not force the machine or attachments to do a job for which they are not designed. Contact the manufacturer or distributor if there is any question about the machine's suitability for a particular task.
12. Wear proper apparel. Avoid loose clothing, gloves, ties, rings, bracelets, and jewellery which could get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
13. Always use safety glasses. Normal spectacles only have impact resistant lenses. They are not safety glasses.
14. Do not over-reach. Keep proper footing and balance at all times.
15. Maintain the machine in good condition. Keep the machine clean for best and safest performance. Follow instructions for lubrication and changing accessories.
16. Disconnect the machine from power source before servicing and when changing the blade.
17. Never leave the machine running unattended. Turn the power off. Do not leave the machine until it comes to a complete stop.
18. Do not use any power tools while under the effects of drugs, alcohol or medication.
19. Always wear a face or dust mask if operation creates a lot of dust and/or chips. Always operate the tool in a well ventilated area and provide for proper dust removal. Use a suitable dust extractor.



Risk of Injury: Never Reach Into A moving Part
Always Wear Eye Protection
Always Wear A Dust Mask
Always Wear Ear Protection

Overview Of C300R Cyclone Dust Extractor



C300R Specification

Motor Power	1500w (2hp) / 240v / 50hz
Fan Diameter	305mm
Inlet Diameter	1 x 125mm or 2 x 100mm
Airflow	1150m3/h
Cartridge Filter Size (Diameter x Height)	340mm X 600mm
Filtration	99% @ 1 micron
Filter Collection Bag (Lay Flat Size: W x H)	600mm x 900mm
Collection Drum Size (Diameter x Height)	500mm x 600mm
Collection Drum Capacity	118 Litres
Drum Collection Bag (Lay Flat Size: W x H)	800mm x 1075mm
Sound Level	77dB(A)
Weight	73kg
Manufacturer's Warranty	1 year
Rating	Light Trade

Rating Description

Light Trade: Suitable for professional woodworkers where the machine will not be in daily use.

Mid-range machines with a heavier build and more power. Typically used by 2 or 3 people within a small business or also for the dedicated hobbyist with a larger budget. It is expected to be used up to the machines maximum limit with occasional long work periods. Suitable for income generation. Expected maximum use of 500 hours annually.

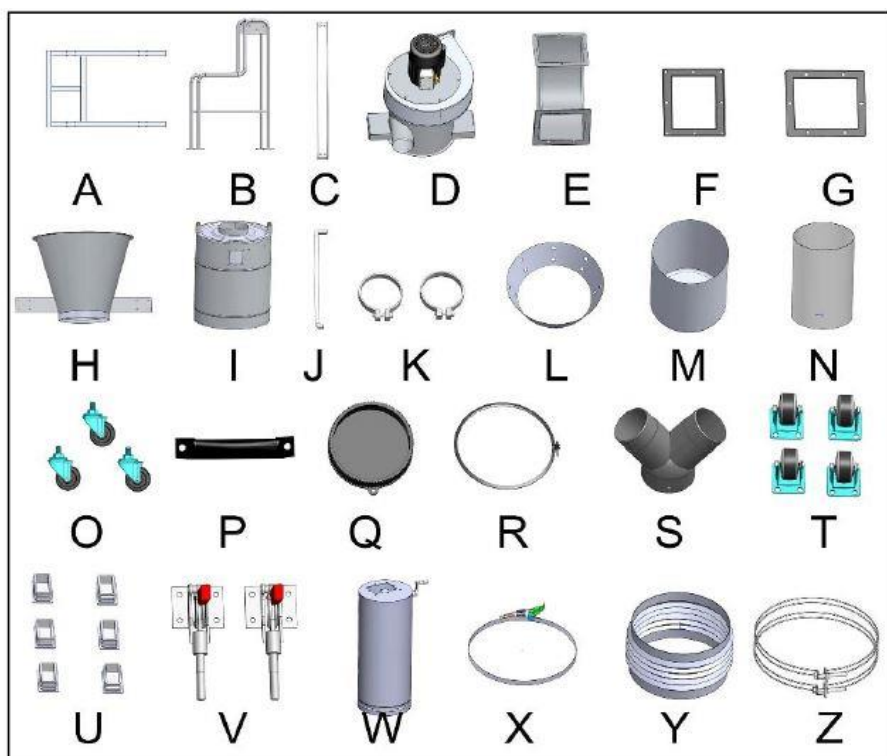
Please Note: **Using a product in excess of its rating will void the manufacturer's free warranty.**

Unpacking

The cyclone is packed in a wooden crate and 2 cartons. Unpack them and check all of the contents are present.

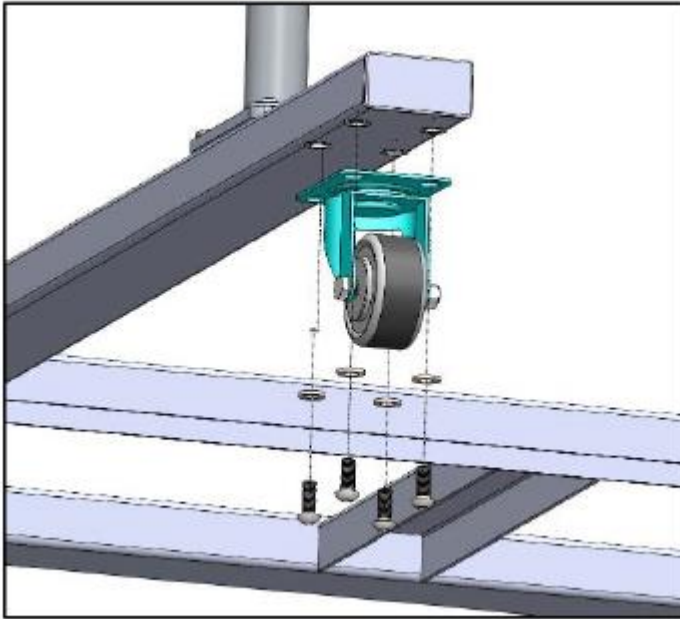
Do not dispose of packaging until the machine has been fully assembled and tested.

In the unlikely event that the product needs to be returned, it will need to be re-packed in the original packaging.



A. Base	J. Vacuum hose	S. Y adapter
B. Bracket	K. Hose clamp	T. Casters for base
C. Connecting rod	L. Vacuum ring	U. End cap
D. Impeller housing	M. Dust bag for drum	V. Quick-locking clamp
E. Elbow	N. Dust bag for filter	W. Canister filter
F. Rubber gasket	O. Casters for drum	X. Bag clamp
G. Rubber gasket	P. Drum handle	Y. Flexible hose
H. Cyclone funnel	Q. Cap for Y adapter	Z. Hose clamps
I. Dust collection drum	R. Steel clamp	

Assembly



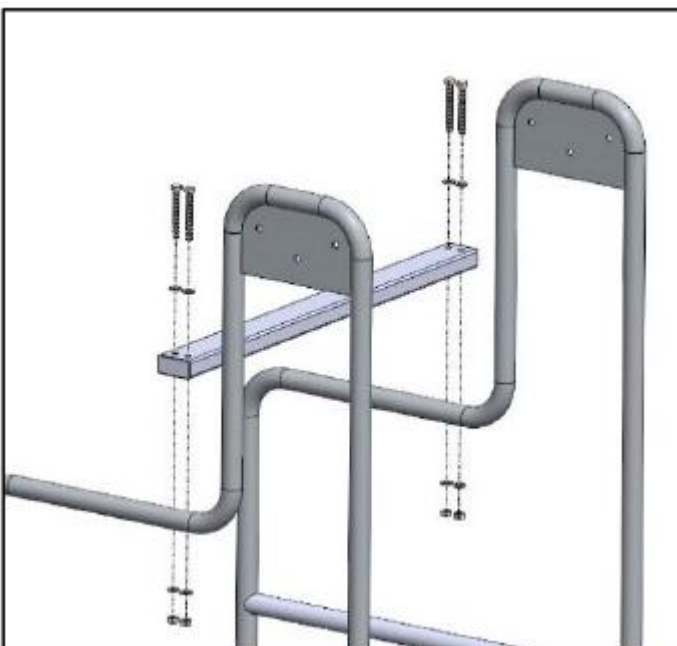
Frame Assembly

Attach the 4 Castors with mounting plates, to the Base, using 16 of the M6 x 15mm dome head bolts and washers.

There are 2 lockable castors which should be fitted to the open end of the Base.



Attach the Side Frames to the Base using 8 of the M6 x 15mm dome head bolts and washers.



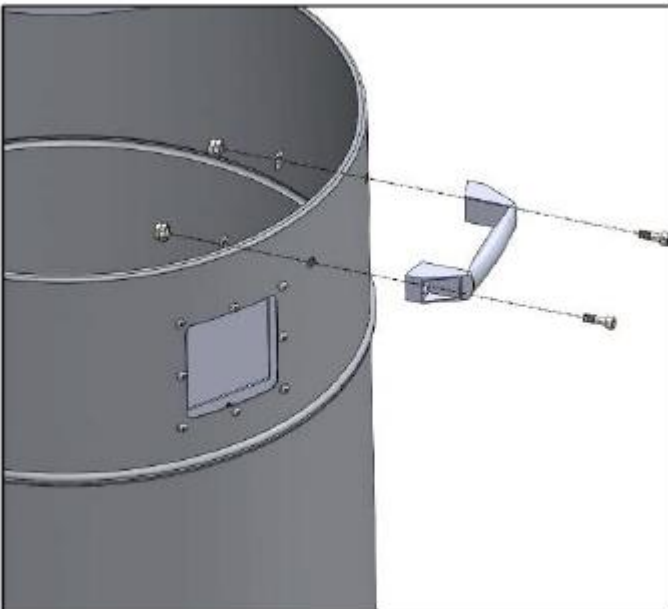
Attach the Frame Brace to the two Side Frames using 4 of the M8 x 70mm cap head bolts, flat washers and nuts.



Drum Assembly

Install 3 castors to the bottom of the collection drum, adding a thin nut to each threaded shaft.

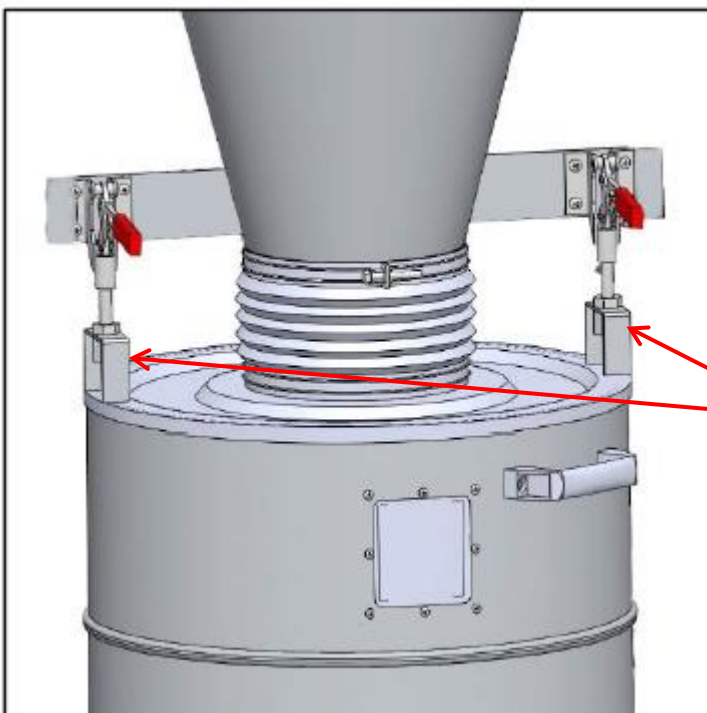
The thin nuts can be used to adjust the height of the castor.



Install the handle to the side of the drum using 2 of the M8 x 20mm bolts, with washers and nyloc nuts.

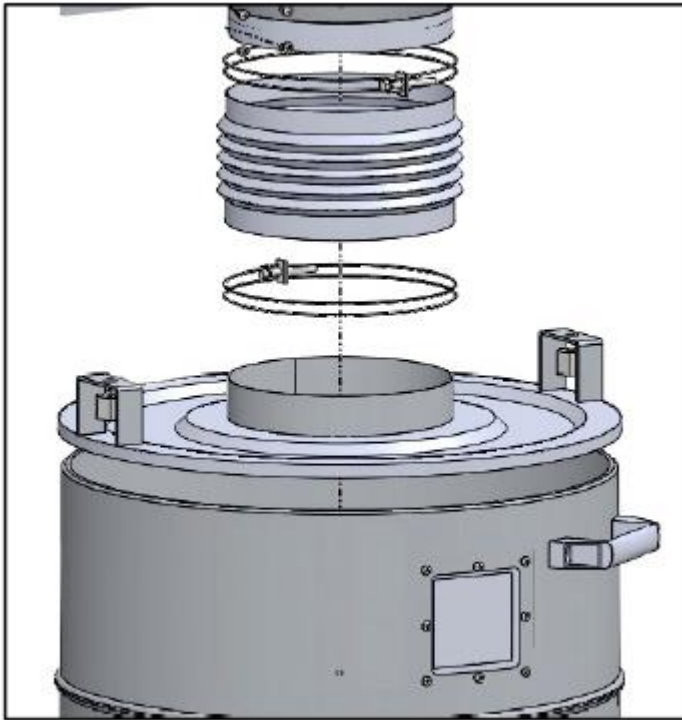
Ensure the Drum Cone is sitting in the bottom of the Drum.

Open the plastic Collection Bag, 800mm x 1075mm, and put it inside the drum with the top 50mm folded down outside the rim of the drum.



Attach the 2 Drum Lid Locking Levers to the Cyclone Funnel using 8 of the M5 x 8mm screws.

Remove the 2 large hex nuts from the end of the threaded stud.

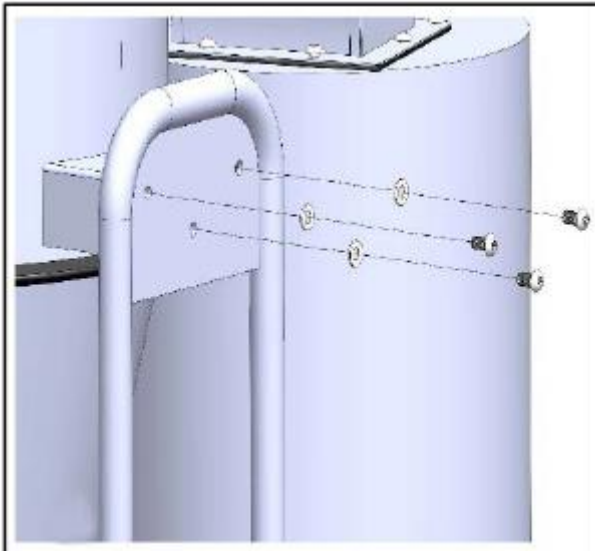


Place the Drum Lid on top of the Drum. Then fit the Flexible hose securing with a hose clamp.

Fit the second hose clamp over the flexible hose and then the Cyclone Funnel. Align the Locking levers so the threaded stud goes through the brackets on the Drum Lid.

Refit the 2 large hex nuts to the clamps.

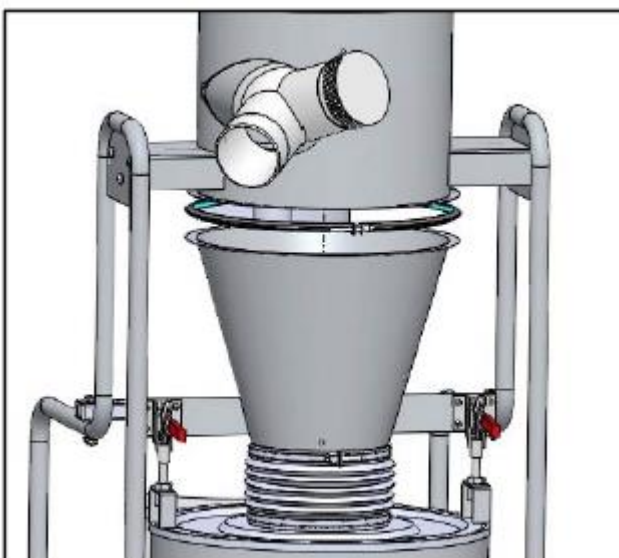
Tighten the upper hose clamp.



Impellor Assembly



Requires 2 people: Lift the motor and impellor assembly up to the assembled frame. Align the fixing holes with the top of the Side Frame. Use 3 of the M8 x 16mm Screws and washers on each side.

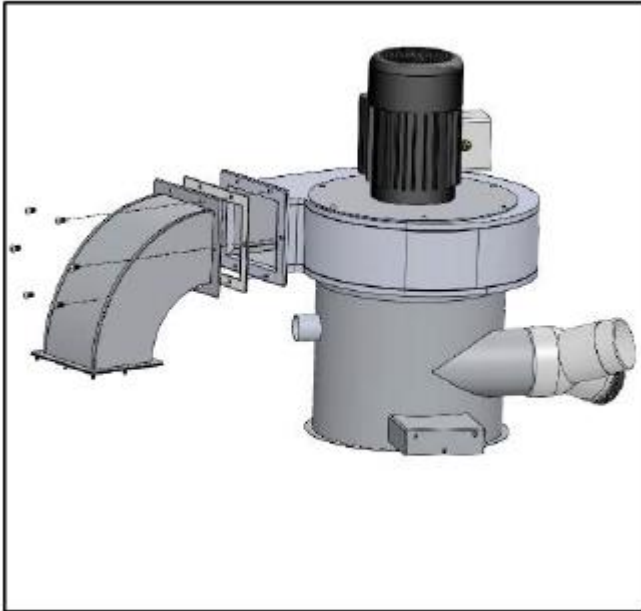


Move the Drum and Cyclone Funnel into position underneath the Cyclone Body.

Undo the locking nut on the Steel Hoop to allow it to expand.

Lift the Cyclone Funnel up and place the Steel Hoop over the lip of both parts to secure them together.

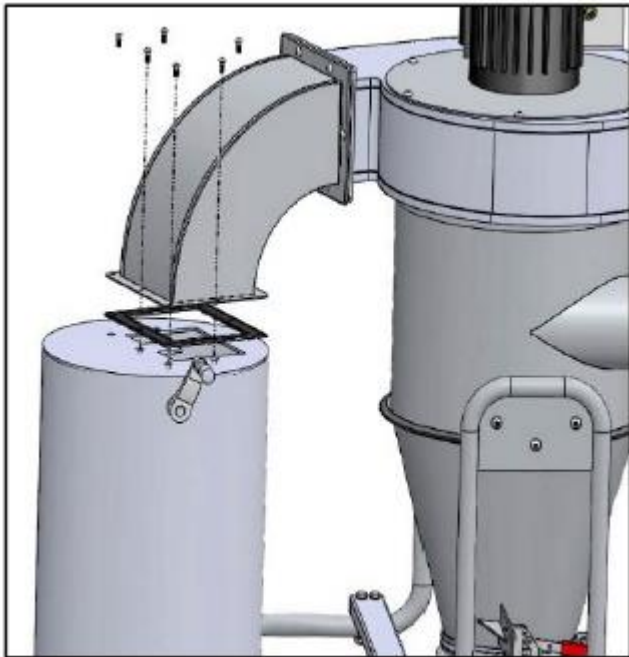
Tighten the Steel Hoop locking nut.



Attach the 90 Degree Elbow to the Impellor Housing with a Rubber Gasket in between the 2 parts.

Secure it with 8 of the M8 x 16mm bolts.

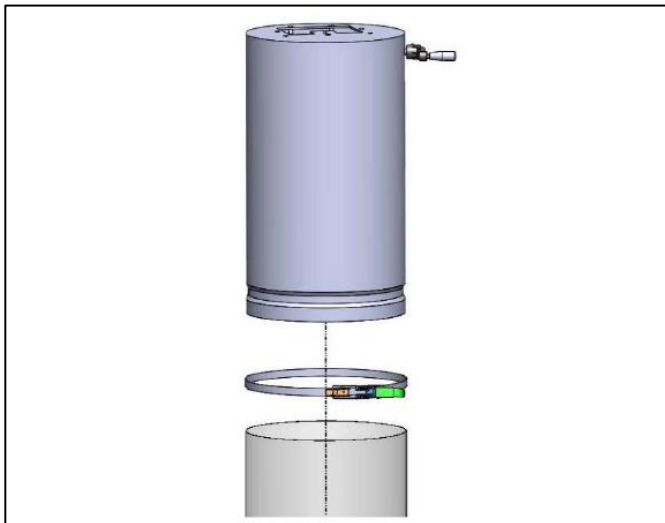
Mount the On/Off switch box onto 3 of the bolts just fitted. Secure with 3 of the M8 Nuts.



Filter Assembly

Attach the Cartridge Filter to the end of the Elbow, with a Rubber Gasket in between.

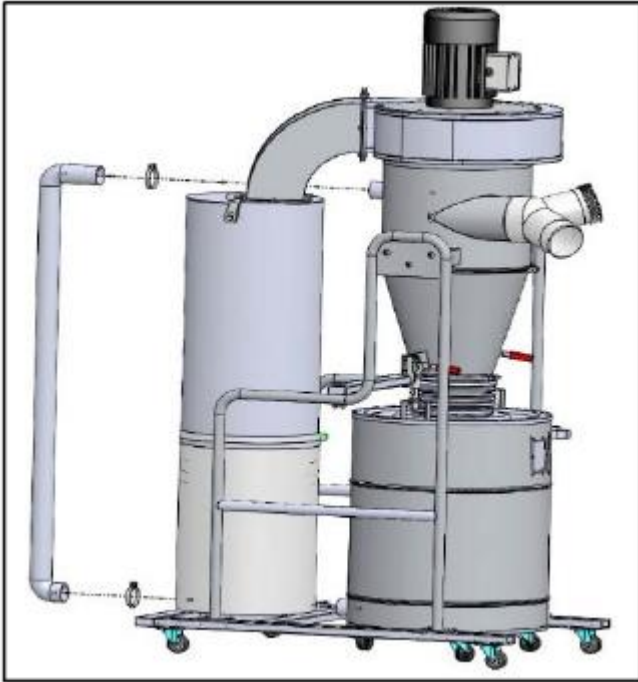
Use 7 of the M6 x 15mm dome head bolts and washers.



Secure the Filter Collection Bag, 600mm x 900mm, to the Cartridge Filter with the Quick Action Bag Strap.

The plastic bag goes over the outside of the rubber cuff on the filter.

The metal strap sits over the top of the plastic bag, located in a groove. A spring clamp locks it in place.



Negative Pressure Tube Assembly

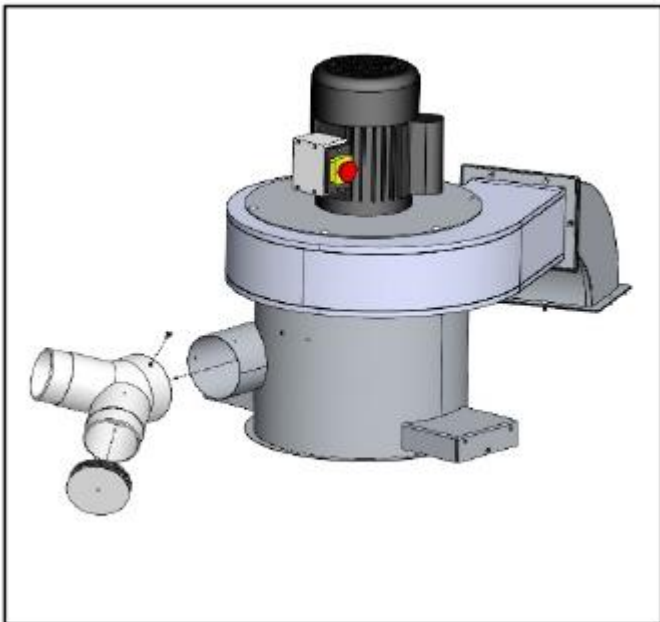
Place a 50mm Hose Clamp over one end of the Flexible Hose.

Secure it to the inlet on the Cyclone Body.

Place a 50mm Hose Clamp over the other end of the Flexible Hose.

Secure it to the outlet in the Dust Collection Drum

The function of the negative pressure hose is to suck the plastic bag to the bottom of the drum.



Fit the Blanking Cap to the Inlet.

Fit the 2 Way Inlet to the Cyclone Body.

Put the locking screw through the end of the Blanking Cap chain then into the Inlet and the Cyclone Body.

Setting Up



Sealing the Drum Lid

The 2 red clamp levers are used to raise and lower the drum lid. When in the lowered position there needs to be a good seal between the Drum and the Drum Lid.

Lower the 2 clamps and check the seal. If there is a gap, adjust the upper and lower nuts on the threaded stud to adjust the height of the lid.



For Optimum Performance

Keep the hose length as short as possible. The ridges inside flexible hose create resistance and slow the airflow. Maximum recommended hose length is 7m.

Keep the hose as straight as possible. A gradual change in direction is more efficient, for example a 45 degree turn is better than a sharp 90 degree turn.

Using The Cyclone



Starting the Cyclone

When connected to a power supply, the green LED will be illuminated on the control box.

Press 'On' and wait around 15 seconds to allow the airflow to build up before producing any dust.

Press 'Off' to stop the cyclone. The cyclone should be left running for 30 seconds after the last dust has been produced to clear the hoses.

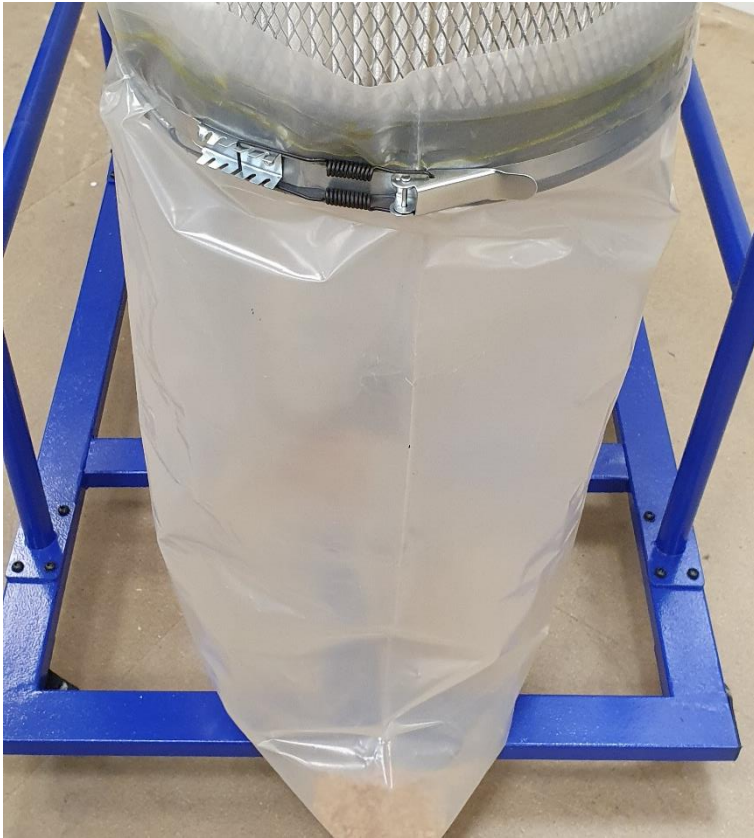


Emptying The Collection Drum

There is a window provided in the collection drum. When the dust level reaches the window, it needs to be emptied.

With the machine at rest, lift the drum lid up and slide the drum forward.

Close the plastic bag up and lift it out of the drum. If you are emptying the bag into a larger bin, it can be re-used or fit a new bag.



Emptying The Filter Collection Bag

Some fine dust particle will be collected in the cartridge filter collection bag. Since the bag is transparent it can be monitored easily and should be emptied when it is 50% full.

Undo the bag strap and remove it. Empty or replace the collection bag. Refit the clamp ensuring it sits in the groove of the rubber cuff.



Countdown Timer

When running in normal mode the red LED will display 'L'

Press the yellow 'Time' button to cycle the timer mode between 2, 4, 6, & 8 hour countdown. The next press returns the cyclone to normal mode 'L'



Remote control

The remote control handset can be use to start and stop the cyclone. It can also be used to set the countdown timer.

It is fitted with a 23A, 12V battery

Maintenance



Filter Cleaning

To ensure the filter stays unclogged without any deterioration in performance the filter includes an internal cleaning device. Gently rotating the handle, moves the internal paddle which cleans the inside of the filter and prevents clogging.

How Often Should It Be Cleaned?

To maintain optimum performance, we recommend: Every time the extractor is turned off, or every 15 minutes during prolonged periods of running. It can be cleaned whilst the extractor is still running.

What Is A Cleaning Cycle?

Rotate the handle 2 full turns in each direction.



What Are The Symptoms Of A Clogged Filter?

1) Because the air cannot escape from inside the extractor there is a build-up of pressure inside. Air will be forced out of joins and seals which are normally airtight. Dust might be seen leaking out from unexpected places.

2) There will be a significant drop in airflow, and therefore collection performance, of the extractor.

Troubleshooting

Problem	Cause	Remedy
Machine does not start, Green light not lit	Power supply not connected	Check connection is live
	Blown fuse in plug	Replace fuse
	MCB tripped	Reset breaker on fuseboard
	Fault in Control box	Replace control box
Machine does not start, Green light is lit	Start capacitor failed	Replace start capacitor
	Motor failed	Replace motor
Machine does not start using remote handset	Out of range	Move closer to the cyclone
	Dead battery	Replace battery (23A, 12V)
	Fault in handset	Replace handset
Machine cuts out when running	Motor overheated	Wait 20 minutes
Deteriorating performance	Ducting blocked	Check and clear blockages
	Collection bags are full	Empty both collection bags
	Filter is clogged	Clean filter
Poor general performance	Hose length is too long	Keep hoses as short as possible
	Hose diameter is too small	Keep diameter at 100mm wherever possible. Use minimum lengths of smaller diameter hoses.
	Too many ports are open	Try closing ports to concentrate the airflow where it is needed
	Not enough ports are open	The cyclone can be starved of air. Try opening unused ports to help increase airflow.



Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.



Do not dispose of electric tools together with household waste material!
In observance of European Directive 2002/96/EC on waste electrical and electronic equipment (EEE) and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

Your local refuse amenity will have a separate collection area for EEE goods

Declaration of Conformity for CE Marking

Charnwood Declare that Cyclone Dust Extractor, Model C300R

Conforms with the following Directives: Machinery Directive 2006/42/EC
EMC Directive 2014/30/EU

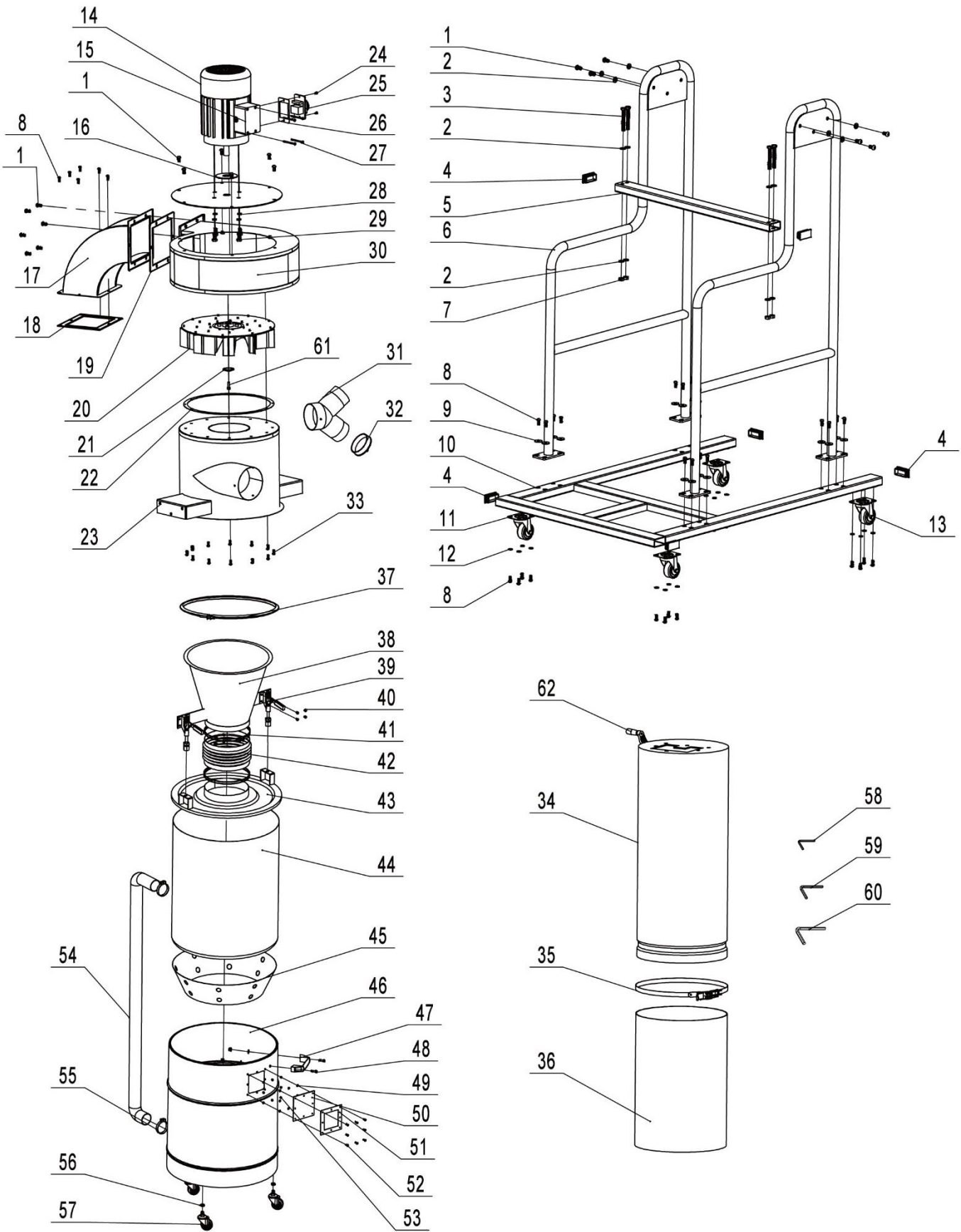
And further conforms to the machinery example for which the EC type examination Certificate No. AM 50478796 and AE 50398634 have been issued by TUV Rheinland LGA Products GmbH, Tillystrasse 2, 90431 Nurnberg, Germany.

I hereby declare that equipment named above has been tested and found to comply with the relevant sections of the above referenced specifications. The machinery complies with all essential requirements of the directive.

Signed:  Dated: 01/06/2024 Location: Leicestershire

Richard Cook, Director

C300R Parts Drawing



C300R Parts List

Part No.	Description	Part No.	Description
01	Hex Screw M8 x 16	32	Blanking Cap
02	Flat Washer M8	33	Hex Screw M6 x 10
03	Hex Screw M8 x 70	34	Cartridge Filter
04	End Cap	35	Hose Clamp
05	Frame Brace	36	Filter Collection Bag 600 x 900mm
06	Side Frame	37	Steel Hoop
07	Hex Nut M8	38	Cyclone Funnel
08	Countersunk Nut M6 x 15	39	Drum Lid Locking Lever
09	Washer	40	Screw M5 x 8
10	Base	41	Steel Clamp
11	Castor	42	Flexible Hose
12	Flat Washer M6	43	Drum Lid
13	Castor	44	Drum Collection Bag
14	Motor 1500w / 240v / 50hz	45	Drum Cone
15	Screw M4 x 60	46	Dust Collection Drum
16	Rubber Gasket	47	Handle
17	90 Degree Elbow	48	Hex Screw M8 x 20
18	Rubber Gasket	49	Flat Washer
19	Rubber Gasket	50	Plastic Plate
20	Impellor / Fan	51	Rubber Gasket
21	Retaining Ring	52	Screw M4 x 12
22	Rubber Gasket	53	Hex Nut M4
23	Cyclone Body	54	Flexible Hose 50mm Diameter
24	Screw M4 x 12	55	50mm Hose Clamp
25	Control Box with Switches	56	Hex Nut Thin M10
26	Junction Box	57	Castor
27	Screw M4 x 60	58	N/A
28	Spring Washer	59	N/A
29	Hex Bolt M10 x 20	60	N/A
30	Impellor Housing	61	Hex Screw M6 x 20
31	Inlet 1 x 125mm to 2 x 100mm	62	Filter Cleaning Handle
CAP	Motor Capacitor 50uf,450V	REM	Remote Handset
PB	Drum Collection Bag 800 x 1075mm		



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Updated July 2024

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