

AD Cyclone

Fume Extraction System

User Manual

Installation, Operation, and Service Information



This manual contains specific precautions related to worker safety. The hazard alert image denotes safety related instructions and warnings in this manual. DO NOT install, operate, or perform maintenance on this system until you have read and understood the instructions, precautions and warnings contained within this manual.

Donaldson BOFA Technical Service

If a problem arises with your system, please refer to the troubleshooting section of this manual. If the problem is still not resolved, please:

- Visit our website at donaldsonbofa.com for online help.
- Or contact the helpline:
 - ROW: +44 (0) 1202 699 444 (Mon-Fri 9am-5pm GMT)
 - US: +1 (618) 205 5007 (Mon-Fri 9am-5pm CST).
- Email:
 - ROW: bofatechnical@donaldson.com
 - US: bofatechnicalus@donaldson.com

Serial Number

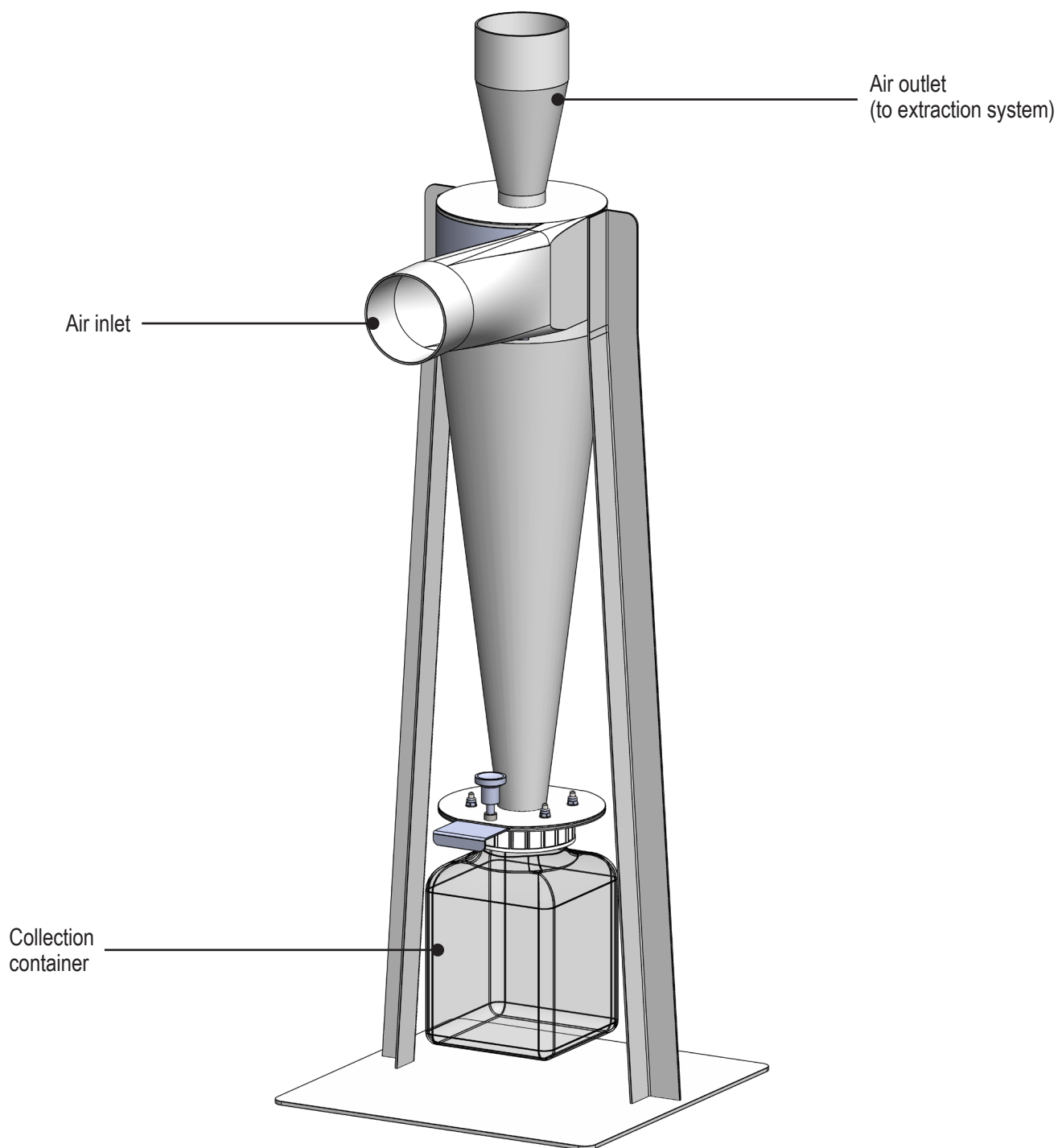
For future reference, fill in your system details in the space provided. The serial number is on the rating label located on the side/rear of the system.

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1 Overview

1.1. Overview of AD Cyclone



2 Before installation



2.1 Packaging removal and system placement

Before installation, check system for damage.

All packaging must be removed before the system is operated.

Please read all instructions in this manual before using this system.

1. Move the system to the location where it is going to be installed and remove the outer packaging.
This system should be installed in a well-ventilated area.

	CAUTION	Due to the weight of the system, suitable lifting equipment should be used and appropriate safety precautions taken (see system specification section for product weight detail).
	CAUTION	Under no circumstances should the exhaust outlet/s be covered as this will restrict the airflow and cause overheating.

3 Installation

The AD Cyclone installation process is quick and simple. Follow the diagram below to install your system.

Donaldson BOFA recommends that the installation of its AD Cyclone is undertaken by a competent person. Air monitoring and health surveillance programmes must be considered at installation sites.



4 Maintenance

4.1. Maintenance UK

It is a legal requirement, under regulation 9 of the COSHH regulations, that all local exhaust ventilation systems are thoroughly examined and tested at least once every 14 months (typically carried out annually). The approved code of practice recommends that a visual check should be carried out at least once a week.

COSHH requires the annual inspection and testing to be carried out by a competent person and specifies that documentation results are recorded in a log.

Contact the seller for more information about inspection and certification.

4.1.1. Maintenance general

User maintenance is limited to cleaning the system and filter replacement, only a suitably qualified or experienced personnel are authorized to carry out component testing and replacement. Unauthorized work or the use of unauthorized replacement filters may result in a potentially dangerous situation and/or damage to the extraction system and will invalidate the manufacturer's warranty.

4.1.2. Cleaning the extraction system

The stainless steel systems should be cleaned with a proprietary stainless steel cleaner, in accordance with the manufacturer's user instructions.

The cooling inlets and outlets should be cleaned once a year to prevent build-up of dust and overheating of the extraction system.

4.2. Disposal of AD Cyclone collection containers

Full AD Cyclone containers should be treated and handled as potentially hazardous waste. Full containers generated by industrial activities must be disposed of by a hazardous waste company (bagged and marked as such using the required PPE/RPE, see above). Most waste companies will be able to provide a special bin for this purpose. Donaldson BOFA recommends that the AD Cyclone collection containers are:

- Bagged
- Hazard taped
- Marked
- Entered into a hazardous waste log
- Placed in a hazardous waste bin

5 System specifications

System: **AD Cyclone**

Typical airflow range: < 118 cfm (200 m³/h)

Weight: 15 lbs (7 kg)

Size:

	Imperial (inches)	Metric (mm)
Height	31.5	800
Width	11.8	300
Depth	5.5	140

6 Contact information

Donaldson BOFA head office – UK & ROW:

19-20 Balena Close
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62088 USA

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Email: bofasalesus@donaldson.com

7 Inspection record



Inspection Record

Local Exhaust Ventilation System

Health & Safety at Work Act 1974 - Control of Substances Hazardous to Health - Regulation 9 (2002) Thorough Examination and Testing of Local Exhaust Ventilation Systems

Company:	System Designation:	System Installation Date:
Designated Person:		

Inspection and Maintenance Schedules

1. Daily checks.
2. Weekly inspection of process enclosure, extract offtake, hose/ducting, and extraction system.
3. Monthly inspection of process enclosure, extract offtake, hose/ducting, and extraction system.
4. Yearly inspection/testing.

Process enclosure, extract offtake(s), hose/ducting, and extraction system.

Inspection and Maintenance Record

1. Daily inspection

Inspection of the process to ensure extract devices/nozzles/enclosures/hoses are in place and correctly positioned. Examination of the extraction system to ensure it is running. This to be carried out by the operator. Daily inspection not recorded.

2. Weekly inspection

Weekly inspection by supervisor of physical condition of extract devices/nozzles/enclosures/hoses and extraction system for damage, change (parts added or removed) and correct operation, etc. Check also that daily inspections have been completed. Tick boxes to confirm system ok/change. Add details of any changes.

Report changes to Engineering Manager. Record any remedial actions taken.

Week number	Date	System ok	System change	Details of change/repairs, etc.	Initial
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

Weekly inspection by supervisor of physical condition of extract devices/nozzles/enclosures/hoses and extraction system for damage, change (parts added or removed) and correct operation, etc. Check also that daily inspections have been completed. Tick boxes to confirm system ok/change. Add details of any changes.

Report changes to Engineering Manager. Record any remedial actions taken.

Week number	Date	System ok	System change	Details of change/repairs, etc.	Initial
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
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51					
52					

Process enclosure, extract offtake(s), hose/ducting, and extraction system.

Inspection and Maintenance Record

3. Monthly inspection

In addition to weekly checks, disconnect hoses and check for blockage and smooth operation of fan, signs of dust or vapor/gas/odor carry over. Tick boxes to confirm system ok/change. Add details of any changes. Report changes to Engineering Manager. Record any remedial actions taken.

Week number	Date	System ok	System change	Details of change/repairs, etc.	Initial
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

4. Yearly inspection

	Comments	Supervisor signature:	Date:
Annual service to include all regular checks, inspection of filter condition, blower, and electrical system, and a filter replacement (if not changed within the previous 12 months).			
Annual thorough inspection and testing of LEV system in accordance with C.O.S.H.H. regulation 9 (max interval 14 months) including reporting.			