



Fume Extractor Operations Manual

Applicable to the X-Tract Fume Extractors series 200 & 500

Contents

| | |
|----------------------------|----|
| Safety..... | 3 |
| Safety Symbols | 3 |
| OSHA..... | 4 |
| General Situation | 6 |
| Installation..... | 7 |
| Working Principle | 7 |
| Usage Method..... | 8 |
| Maintenance..... | 9 |
| Common faults..... | 9 |
| Warranty | 10 |
| Product Certification..... | 11 |

Safety

Safety Symbols



This sign indicates that there is a danger of electric shock. Electric shock is likely to cause casualties.



This sign indicates caution or warning, indicating that you should pay attention to some problems.



This sign indicates moisture resistance, and may lead to electrical accidents when neglected.



This indicates that rollover prevention may lead to life-threatening or fatal accidents.



This sign indicates that the equipment is upwards and may cause machine failure when neglected.

OSHA

Personal safety precautions

1.1 Electrical

Single phase or three-phase power supplies are used in the system, this is potentially dangerous to humans. Care is to be taken when working on the system.

- a. Check whether the terminals are in good contact with each other regularly.
- b. If the damaged electrical components are found, the components shall be isolated prior to repair or replacement.
- c. Check that the case is well sealed so as to prevent water ingress.
- d. Only qualified electrical technicians are allowed to perform inspection and repair work.

1.2 Mechanics

- a. Please do not put tools, screws and other devices on the device, so as not to cause electric shock risk.
- b. Make sure the equipment is adequately fixed and supported. After opening the motor, check carefully to ensure the stable operation of the equipment

1.3 Start stop

Check the power supply of the system before turning on , Shut down the main power supply after shutdown , Other operations must be carried out in order to ensure safety of staff.

1.4 Passageway

Adequate access and lighting shall be provided around the system for the safety of operation and maintenance.

1.5 Safety equipment

Gloves and goggles must be worn when the operator is performing cleaning operations.

1.6 Safety check list

- a. Attach all emergency calls and emergency handling measures to a clear position.
- b. Ensure all operators are familiar with safety related to the equipment.
- c. Be familiar with the closing position of all power supplies.
- d. Ensure smooth and adequate lighting around the equipment.
- e. Keep the equipment clean.
- f. Provide adequate ventilation when needed.
- g. Correct protective equipment must be worn.

Operation Notes

1. To achieve the purpose of mobile devices, Do not pull the suction arm forcibly.
2. Please turn it off when you move the device, Make sure the power cord and the compressed air line are of sufficient length.
3. Before the circuit and gas path are completely disconnected, It is strictly prohibited to change filter core, repair machine and open machine shell.
4. **Disconnecting circuit method:** Unplug the power plug , Try starting the machine, If the device cannot be started, the device is in a power off state.
5. **Closed gas path method:** Unplug the windpipe , Or turn the oil-water separator counter-clockwise, Until the barometer pointer is on "O" scale.
6. If necessary, repair the blower, Please open the casing after two minutes of shutdown Due to the action of inertia, The high speed rotating fan impeller stops completely and takes time.
7. The distance between the air outlet of the machine and other barriers shall be greater than 50 cm.
8. When cleaning or replacing the filter core or maintaining the machine, Wear protective equipment (Dust masks, goggles, overalls, gloves)

General Situation

The X-Tract series of movable welding fume purifier is an economical and efficient product for cleaning and dedusting. The basic structure of the equipment consists of the box, fan, filter element, suction arm, electrical control and other parts, The product is simple and practical, stable in performance and convenient for use and maintenance. The suction arm can be rotated at 360 degrees, which is flexible and convenient, easy to approach the dust spot, and effectively ensures the cleanliness of the air. It is especially suitable for cleaning and dedusting in the welding workshop.



1. Organized discharge vent
2. Ventilation net
3. Activated carbon cotton
4. Observatory/differential gauge
5. Matters needing attention
6. Flange seat of suction arm
7. Sealed rubber ring
8. Laryngeal hoop



9. Vacuum hood
10. Vacuum hood handle
11. Laryngeal hoop
12. Inspiratory arm
13. Filter cover handle
14. Filter cover
15. Power Indicator Lamp
16. Equipment switch
17. Nameplate
18. Cardan wheel

Installation



Working Principle

The welding dust first passes through the protective net of the dust suction port, to intercept sparks and other large particles suspended, and then dust gas into the box, filtered by the filter core. The purified gas is further purified and removed by activated carbon cotton, Finally, the purified gas is discharged through the draft fan and can be discharged directly into the room or out of the room. With the host working continuously, dust on the filter core surface increases continuously. With the continuous operation of the main engine, the dust on the surface of the filter element increases continuously, remove the filter element for manual ash removal to restore the filter ability.

Usage Method

1. Starting method

Press the start-stop button, The button is locked, At the same time, the indicator light is on.

2. Stopping method

Press the start-stop button again, The button is released, Meanwhile, the indicator goes out.

3. Ash cleaning method

Press the clean button, Complete one cleaning process.

4. The oil separator pressure gauge should be between 0.4Mpa and 0.5Mpa
5. Oil separator water should be cleaned regularly, and the water should not exceed 2/3 of the capacity of the water cup
6. Press the clean button periodically according to the working condition and clean the dust drawer

Maintenance

Common faults

The whole machine does not work and the indicator light is not on

1. Check that the power plug is in place
2. Open the machine housing, find the fuse, replace the fuse core

The power indicator is on and the fan does not start

1. Does the start and stop button press and the indicator light turns on
2. Open the machine housing, find the motor, protect the circuit breaker and switch it on

Alarm buzzer flashing

1. Press the clean button and clean the filter core
2. Remove the filter element and clean thoroughly
3. Change filter core

Poor vacuuming effect

1. Keep the distance between the hood and the workpiece 30cm
2. Cleaning filter
3. Change filter core

Air volume is low

1. The fan speed may be set too low, check the fan speed
2. The air hose may not be correctly sealed or may be dirty

Fan fails to start

1. Check the power supply
2. Check the wiring for damage or a short circuit
3. Motor circuit breaker may have tripped, close the circuit breaker again

Fan is loud

1. The fan may be reversing, exchange any two-phase sequence of power supply
2. Ensure the fan is clean
3. Check that the fan is not loose



Please clean the dust on the surface of the filter element periodically. It can be cleaned manually with compressed air or washed by water. If not cleaned in time, it will cause damage to the fan impeller and motor. This damage is not in the scope of quality guarantee.

Warranty



The product warranty period is one year, in the warranty period, The warranty covers issues such as product failure, the original device quality or production problems. In these situations, the company provides free maintenance and parts replacement.

The following causes of damage to the product are not within the scope of warranty:

1. Failure to use and install in accordance with the specifications.
2. Any man-made or accidental product damage.
3. Without the company's approval of maintenance, modification or product sealing stickers broken.
4. Aging, dents and scratches on the surface of the product.

After the expiration of the warranty, the user may still get the company to provide repair services, but to pay the appropriate costs .

Product Certification

| | |
|---|----------------------------------|
|  <p>X-TRACT Fume Extraction Systems</p> | X-TRACT Purifier |
| CERTIFICATE | Product name: |
| Date: 2020. 02 | Fume Extraction system |
| Inspector: | Product number: |
| Qualified Inspection | X-TRACT200 |
| | Product type: |
| | Environmental protection product |
|  | |



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EC Examination Certificate

This is to certify that

Inductaflex Limited

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Has had a range of Industrial Smoke Purifiers examined to the Machinery Directive 2006/42/EC, as amended and the Low Voltage Directive 2014/35/EU.

With reference to model **X-TRACT350**

Manufactured by:

Inductaflex Limited

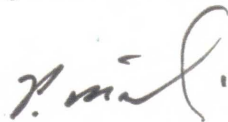
Unit 1, Highbridge Court, Telford, TF3 3BD, United Kingdom

1. The technical file contains all the relevant information.
2. Having verified that the appropriate tests have been conducted.
 - 2.1. The standards and transposed standards have been applied correctly.
 - 2.2. The example representing series production of the item, complies with the essential health and safety requirements of the Directive 2006/42/EC, as amended.
 - 2.3. The technical file contains all the information to include the following models in the certification X-TRACT70, X-TRACT120, X-TRACT200, X-TRACT280, X-TRACT220FA, X-TRACT290, X-TRACT300, X-TRACT350, X-TRACT400, X-TRACT500, X-TRACT800, X-TRACT1000 and X-TRACT2000.
 - 2.4. Compliance with EN 60204-1:2018 gives compliance with the Low Voltage Directive 2014/35/EU.

Certificate Number: 8283071119

Date: 19/11/2019

Signed for Safenet Limited



Peter McNicol
Technical Manager

This Document remains the property of Safenet Ltd and will be returned to them if so requested. Safenet will review the continued compliance of the machinery on a 5 yearly cycle to check for changes in the state of the art.

