

## **Owners Manual for Danduct Clean<sup>®</sup> VT4000 Ventilator**



### **Danduct Clean<sup>®</sup>**

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## **1.1 Introduction.**

We are pleased that you have chosen the danduct Clean® VT4000 ventilator for your company.

We are sure that you will be satisfied with the equipment, but would however urge you to read this manual for obtaining a good and trouble free operation of the ventilator.

## **1.2 Guarantee**

The equipment is covered by a 12 months guarantee from the date of delivery to the customer. *The guarantee period comes into force after danduct Clean® having received the signed delivery report.*

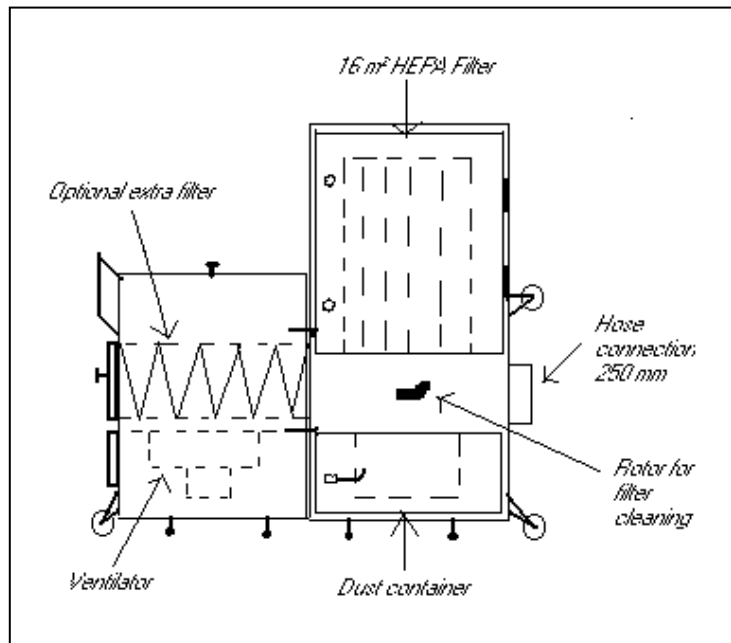
The guarantee covers parts and replacement in our factory, or by our distributor. It is however a condition of the guarantee, that the instructions in this Owners manual has been followed, and that the equipment has been proper maintained.

Our guaranty however is depending on the filled out return of delivery report to our dealer, and the observance of this Owners manual.

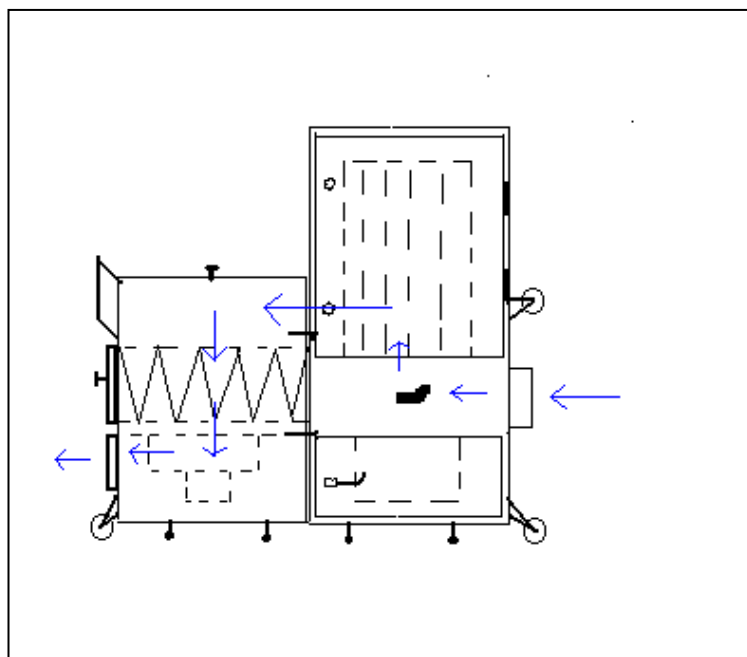
Equipment which has been repaired locally without our written consent, is not covered by this guarantee.

Claims to the guarantee from third party is not covered by this guarantee.

**2.1 VT4000 Build-up**

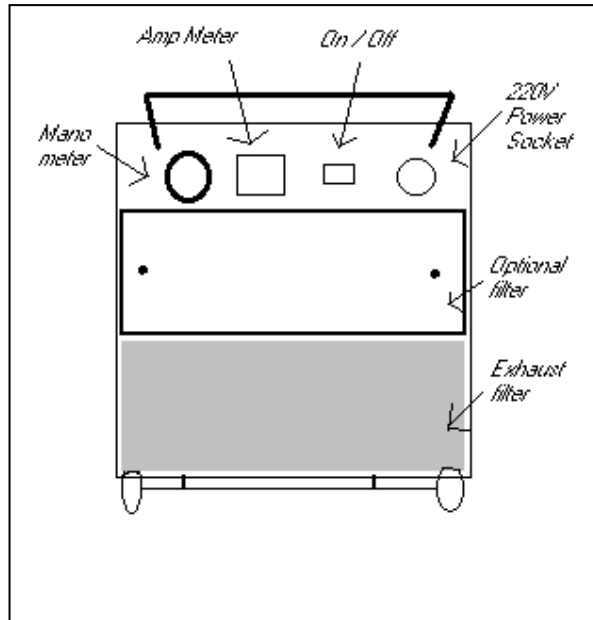


*Description of parts*



**2.2 Description of the ventilator**

Airflow: 4.500 m<sup>3</sup>/h  
Power: 1 x 230V / 50Hz  
Amps: 13,4  
KW: 2,2



### 2.3 Description of the filter(s)

The mobile unit is equipped with a standard 16-m<sup>2</sup> Hepafilter, which allows you to use it even in strict surroundings like a hospital.

For easy cleaning and to minimise downtime the filter unit is equipped with a rotor cleaning system, which will also extend the lifetime of the filter significantly.

The max. airflow through the filters is 5000 m<sup>3</sup> /h

Category C filter with 99,97 % filtration down to 0,3µ (approx. EU 13-14 / DIN 24183)

The 16 m<sup>2</sup> Hepa filter (the pail) is to be used for situations where 99,97% filtration is needed H13

For extra filtration a Hepa filter cassette can be installed. **The Extra filter cassette is only recommended to be used in case of needed extra filtration.**

**The extra filter cassette is used when H14 filtration is needed (99,995 %)**

#### **2.4. Mounting the hose**

A 250mm hose must be connected between the ventilator and the HVAC system to extract the dust. Standard length of the hoses is 6mtr but two hoses can easily be connected as extension.

#### **3.0 Operating the equipment.**

To start the ventilator connect it to 230V and turn the start button to ON.

**In 60Hz conditions the Ventilator VT4000 must ONLY be used in combination with hose connected to the HVAC system and filter connected to the VT4000. The use of filter and hose will create a pressure drop to the airspeed and the Ventilator VT4000 will not over heat because of the 60Hz.**

#### **4.0 Operating environments.**

The Ventilator is designed to be used in dry ventilation ducts. Do not use it with greasy ducts or ducts containing hazardous gases. The use of the ventilator in wet, greasy, explosive, or any other environment which is not dry, may cause damage to the equipment.

The equipment should not be used in temperatures under +0° C and above +60° C. Humidity max. 80 %.

#### **5.0 Maintenance**

The equipment requires a minimum of maintenance. Filters must however be replaced frequently in order to obtain the optimal efficiency.

##### **5.1 Cleaning the Hepa filter**

After use of the ventilator, the Hepa filter might have become very dirty. Simply clean it by rotating the rotor cleaning handle. A rotor will move up and down inside the filter cleaning it. When filter is no longer cleanable by the rotating the flaps it is recommended to change the filter.

The extra filter cassette is not recommended to clean and is however changed when blocked with dirt.

## 5.2 Changing the filters

Turn of the ventilator !

### a) 16 m<sup>2</sup> Hepa filter.

Release the two handles on the door(1) and open the door. Use a screwdriver to take of the metal ring. Lift up the filter and pull it out.

To insert a new one, place it in the same position and fasten the metal ring. Close the door.



### b) Cassette filter

Release the two handles on the small door, under the control panel (3). Take of the door. Push in a filter 61x61x30 cm. Fasten it with the two handles on the top. Close the door.

## 5.3 Emptying the dust bin

To empty the dust bin open the little door on the front (2). Release the two handles, there is one on each side of the container. Pull out bin and empty it.

For easy emptying and cleaning insert a plastic bag.

## 6.0 Technical data

<i>Model:</i>	<b>VT4000</b>
<i>Air flow:</i>	4500 m <sup>3</sup> /h
<i>Motor:</i>	
- <i>KW:</i>	2,2
- <i>Amp:</i>	13,4
- <i>Volts:</i>	230
<i>Filter:</i>	<i>Replaceable 16m<sup>2</sup> Hepa filter</i>
<i>Filter efficiency:</i>	<i>Hepa = 99,97% of all particles over 0,3 microns.</i>
<i>Vacuum unit:</i>	
- <i>L x H x W:</i>	850 x 1150 x 750 cm
- <i>Weight:</i>	118 kg
<i>Filter unit:</i>	
- <i>L x H x W:</i>	900 x 1610 x 750 cm
- <i>Weight:</i>	122 kg
<i>Hose size:</i>	250 mm
<i>Noise:</i>	68 DB



## 7.0 EU Agreement statement

### Supplier:

Company Name: Danduct Clean®  
Address: Teglvænget 63  
7400 Herning  
Denmark  
Phone: +45 97 12 30 30 Fax: +45 97 22 54 44

### hereby declare that

**Machine:** Name: VT4000  
Type: CEM  
Serial no.: 50704000  
Year:

is in conformity with:

the COUNCIL DIRECTIVE of 14 June 1989 on mutual approximation of the laws of the Member States on the safety of machines (89/392/EEC as amended by directives 91/368/EEC, 93/44/EEC and 93/68/EEC) with special reference to Annex 1 of the Directive on essential safety and health requirements in relation to the construction and manufacture of machines.

- COUNCIL DIRECTIVE of 3 May 1989 on the approximation of the laws of the Member States relating to electromagnetic compatibility (89/336/EEC)

- COUNCIL DIRECTIVE of 19 February 1973 on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits (73/23/EEC)

was manufactured in conformity with the following national standards that implements a harmonised standard:

EN 292-1 Safety of machinery-Basic terminology, methodology  
EN 292-2 Safety of machinery-Tech. Principles + specification  
EN 60204-1 Safety -Electrical equipment of machines  
EN 50081-1 Electromagnetic compatibility, Light industry  
EN 50082-2 EMC: Immunity - Industrial environment

Position: Managing Director  
Name: Tim Larsen  
Company: Danduct Clean®

Date

Signature

**8.0 Delivery report.**

Dealer name:  
Owner's name:  
Owner's address:  
Equipment number:

Extent of delivery:

- VT 4000 filter unit with HEPA filter
- 6 mtr 250mm hose

Signed: \_\_\_\_\_  
Dealer

Date: \_\_\_\_\_

Delivery report - to be completed by the end-user.

I have received:

- Operation and maintenance manual for danduct Clean® VT4000

The equipment has been delivered to me in a satisfactory condition, and I fully understand that the warranty is for a period of 12 months after the date of delivery. I accept that neglect of misapplication of the equipment as well as unauthorized modifications shall cause to void this warranty.

End-user's signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Warranty of the above equipment will not be effective before this form has been completed, properly signed and this original returned to

Danduct Clean<sup>®</sup>  
Teglvaenget 63  
7400 Herning  
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within 20 days after delivery.

Comments: \_\_\_\_\_