

Operating Manual

Fan

AV 3105



Perfection is our aim.



EC – Declaration of Conformity

in sense of EC machine directive 2006 / 42 / EWG

Type of the machine

Fan

Description:

AV 3105

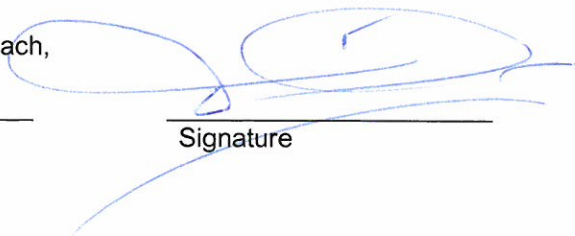
is designed, constructed and manufactured in accordance with the above-mentioned directive and low voltage-directive 2006 / 95 EWG.

The following harmonized standards have been used:

- EN 60335-1 Safety of electrical machines
- EN 60335-2 Safety of electrical machines

Mönchengladbach,
10.10.2016

Place, Date



Signature

Managing Director

Title

Introduction

This manual describes the handling of the Wilms Fans.

Attention!!!

It is the responsibility of the operator to read and understand this service manual and to use the correct operation procedure.

Read the entire manual before the initial start-up of the machine. It is important to know the correct operating procedure for the unit and all safety precautions to prevent the possibility of property damage and/or personal injuries.

Contents:

The service manual covers the following topics:

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General:

Introduction:

This section will give you a description of the machine and the function.

Target Group:

The target group for this service manual is the technicians who install, maintain and exchange parts on the units.

Copyright:

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Reservations:

Hans Wilms GmbH & Co. KG reserves the right to make changes and alterations to the product and the service manual at any time without prior notice or obligation.

Safety Information!

Attention!!! This unit is suitable for connection to 230 V – 50 Hz.

Never use the unit with a defective cable.

Do not pull the plug by the cable out of the socket but hold the plug with your hand instead and pull it then out of the socket.

Check the cable before every use.

Disobeyance of these safety precautions may lead to dangerous situations.

Do not use this unit in connection with water. **Increased electrical endangering!!!**

Do not drop the unit because this may have consequences to the inner components.

Never use the unit without suction- or air outlet grille because this may lead to injuries.

Make sure that the fan does not draw any loose materials because this may lead to a limited air movement. This however may result in overheating of the unit.

Pay attention that the air stream is not blocked.

Save the carton so that the fan can be send in the original packing in case a repair is required.

Never clean or maintain the fan while it is connected to an electrical outlet.

Warning: Ignoring these safety precautions may result in serious personal injury.

Operating instructions:

Inspect your unit upon receipt for any freight damages in order to avoid later claims.

Be sure to keep all original packaging. Original packaging will help to protect unit from freight damage upon return.

If you discover any damages during inspection, please contact:
Hans Wilms GmbH & Co. KG - Erftstrasse 34 - 41 238 Mönchengladbach.

The unit is ready to be put in service immediately, connect the plug with the socket.

Place the unit on the ground or on a very stable platform.
Plug the unit into a grounded alternating current circuit and switch the unit on.

The unit is equipped with a built-in hour meter.

Maintenance

Disconnect the unit from the power supply before cleaning or servicing.

Before each use the unit should be inspected for damage, clogged inlet or outlet, or any excess build-up of foreign material.

When the unit is first turned on, check for excessive vibration, which could indicate a major problem. If the unit vibrates, it must be carefully checked.

Technical Data:

Type		AV 3105
Voltage		230 V ~
Frequency		50 Hz
Motor		0,66 kW
Current		2,9 A
m ³ /h		3100 m ³
Height mm		515 mm
Width mm		375 mm
Length mm		470 mm
Weight/kg		14,5 kg
Noise level	1 m	84 dB (A)
(EN ISO 11201)	3 m	79 dB (A)

Trouble Shooting

Fault	Reason	Solution
Machine does not start.	<ol style="list-style-type: none"> 1. Not connected properly. 2. Switch not on position „on“. 3. Switch is defetive. 4. Power cord is defective. 	<ol style="list-style-type: none"> 1. Connect plug properly. Check switch. 2. Set switch to position „ON“. 3. Replace switch. 4. Replace cable.
Machine runs, fan makes loud noises.	<ol style="list-style-type: none"> 1. Housing bent, fan touches the housing. 2. Unit heavily dent, deformations on the housing. 	<ol style="list-style-type: none"> 1. Check and align if possible. 2. Replace fan blade. If necessary also the housing.
Machine runs but vibrates	<ol style="list-style-type: none"> 1. The motor shaft is bent by heavy shocks so that the unit vibrates. 2. Fan blade defective. 3. Dirt on one side of the fan blade. 	<ol style="list-style-type: none"> 1. Replace motor. 2. If necessary replace fan blade. 3. Clean the fan blades.
Machine runs but fan does not move.	<ol style="list-style-type: none"> 1. Fan is stuck on the housing. 2. Capacitor cable is defective/loose, Capacitor not working. 3. Housing defective, blocks the fan. 	<ol style="list-style-type: none"> 1. Take motor out and check. If necessary replace fan blade. 2. Repair/Replace cable and capacitor if necessary. 3. Replace housing if necessary.
Machine runs shortly, fan switches off, because of overload	<ol style="list-style-type: none"> 1. Motor bearing defective or electrical motor damage. 2. Air inlet- or Air outlet grille blocked. 3. Air channel is too long. 	<ol style="list-style-type: none"> 1. Replace motor. 2. Remove the obstacle. 3. Reduce the air channel to the suggested maximum length.

Spare Part List
AV 3105

<u>Pos.</u>	<u>Order-No.</u>	<u>DESCRIPTION</u>	<u>Qty.</u>
1	8003111	Screw	6
2	8003112	Air Outlet Grille	1
3	8003129	Nut	1
4	8003130	Washer	1
5	8003113	Fan Blade	1
6	8003114	Washer	1
7	8003115	Motor	1
8	8003116	Rivet	10
10	8003117	Rivet	4
11	8003118	Rubber Foot	4
12	8003119	Housing	1
14	8003120	Capacitor	1
15	8003133	Nut	1
16	8003121	Seal	1
17	8003122	Switch Board	1
18	8003134	Screw	4
19	8003123	Strain Relief Bushing	1
20	8003124	Switch	1
21	8003125	Power Supply Cable	1
22	8003126	Suction Grille	1
23	8003111	Screw	6
24	8003136	Hour Meter	1

Exploded View Drawing

AV 3105

