Operating Manual Fan AV 1600





Perfection is our aim.



EC – Declaration of Conformity

in sense of EC machine directive 2006 / 42 / EWG

Type of the machine		
Fan		
Description:		
AV 1600		
	cted and manufactured in acc ective and low voltage-directiv	
The following harmon	nized standards have been us	ed:
- EN 60335-1 - EN 60335-2	Safety of electrical machines Safety of electrical machines	
Mönchengladbach, 10.01.2017 Place, Date	Signature	Managing Director

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.

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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.

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41 238 Mönchengladbach.

Reservations:

Hans Wilms GmbH & Co. KG reseves 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.

Do not position the fan next to combustable material because this may lead to an explosion.

Never use the fan near petrol nor clean it with petrol.

Do not expose the fan to frost temperatures.

Keep the fan clean.

Use the vacuum cleaner in order to clean the fan.

Never use a high pressure cleaner for cleaning of the fan.

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.

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:

Туре	AV 1600
Voltage	230 V ~
Frequency	50 Hz
Motor	0,19 kW
Current	0,8 A
m³/h	1350 m³
Height mm	345 mm
Width mm	305 mm
Length mm	380 mm
Weight/kg	7,2 kg
Noise level (EN ISO 11201)	69 dB (A)

Trouble Shooting				
Fault	Reason	Solution		
Machine does not start.	 Not connected properly. Switch not on position "on". Switch is defetive. Power cord is defective. 	 Connect plug properly. Check switch. Set switch to position "I". Replace switch. Replace cable. 		
Machine runs, fan makes loud noises.	1. Housing bent, fan touches the housing. 2. Unit heavily dent, deformations on the housing.	Check and align if possible. Replace fan blade. If necessary also the housing.		
Machine runs but vibrates	 The motor shaft is bent by heavy shocks so that the unit vibrates. Fan blade defective. Dirt on one side of the fan blade. 	 Replace motor. If necessary replace fan blade. Clean the fan blades. 		
Machine runs but fan does not move.	 Fan is stuck on the housing. Capacitor cable is defective/loose, Capacitor not working. Housing defective, blocks the fan. 	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	 Motor bearing defective or electrical motor damage. Air inlet- or Air outlet grille blocked. Air channel is too long. 	 Replace motor. Remove the obstacle. Reduce the air channel to the suggested maximum length. 		

Spare Part List AV 1600

Pos.	Order-No.	DESCRIPTION	Qty
1	8003274	Screwing	10
2	8003275	Front Grid	1
2a	8003276	Rear Grid	1
3	8003283	Housing	1
4	8003281	Motor	
5	8003282	Motor Holder	1
6	8003279	Fan Blades	1
7	8003117	Nute	4
8	8003118	Rubber Foot	4
9	8003287	Capacitor	•
10	8003288	Nut	
11	8003289	Seal	1
12	8003290	Switch Board	•
13	8003292	Strain Relief Bushing	•
14	8003291	Switch	•
15	8003286	Connection Cable	,

DRAWING

