



ABG AIRDRAULIC BIRCO GROUP PTY LTD

Sydney: Unit 1, 33-35 Gibbes Street, Chatswood NSW 2067
Phone: 61 2 9882 3444 Fax: 61 2 9882 3133
Brisbane: Unit 27, 121 Kerry Road, Archerfield QLD 4108
Phone: 61 7 3255 6188 Fax: 61 7 3255 6199 ACN 002 890 477
Melbourne: 165 Clayton Rd, Clayton VIC 3168
Phone: 61 3 9544 1711 Fax: 61 3 9544 2111 ABN 47 002 890 477
Website: www.abgpl.com.au Email: sales@abgpl.com.au



VAF-12E

Ventilation Manual



DISTRIBUTORS OF:

*Air Hose & Fittings * Drilling Equipment * Osha Safety Valve * Anto-Loaders * Heaters / LPG Static & Mobile * Pedestal & Wall Fans * Blast Hole Plugs * Pneumatic Chain Saws&Pumps * Blowers & Extractors *
Hose Suction & Delivery * Pollution Control Equipment * Impact Wrenches * CP,Hitachi,Kango Tools * Pump Submersibles, End Suction * Compressors * Integral Steels * Reversing Cameras & Alarms * Lubricators *
Camlock & Bauer Type Couplings * Scabbling Equipment * Digger Steels * McDonald Paving Breakers * Selwood Pumps



Dry Air

TECHNOLOGY

Congratulations on your purchase of a new VAF-12E fan by Dry Air Technology, Inc. This Vane Axial Fan has been designed to offer you the reliability, durability and portability you need for the toughest job.

Dry Air Technology designs, engineers, and manufactures lightweight air movers, ventilators, and dehumidifiers. In 1993, Dry Air brought the first portable ventilator made of high-density polyethylene, the VAF-3000, to the marine industry. It has been a technological breakthrough in ventilation ever since. Available in a variety of sizes with positive and negative airflow, these portable ventilators are dependable and perform well under the toughest conditions.

Your new unit was designed to provide the maximum performance. Please read this owner's manual carefully to insure that you get the most from your unit.

SAFETY INFORMATION

CAUTION!

Unit operates on alternating current:
110/120 volt, 60 Hz or 220/240 volt, 50 Hz

Do not operate your VAF series fan with a cut or frayed power cord. Do not unplug your unit by pulling on its cord. Grasp the plug firmly and pull it out of the wall socket or power receptacle. The plug has a safety ground pin installed that must not be removed. If the pin is damaged or missing, have the power cord replaced at once. Visually inspect the power cord before each use. Ignoring these safety precautions may result in a fire or an electric shock.

Never operate electrical equipment in standing water. There is a shock hazard.

Never drop the unit. Sudden and severe impact may result in damage to internal components.

Your VAF fan should never be operated with the safety grills removed. Personal injury may result.

Drop cloths or other loose fabrics can be drawn against the unit thereby restricting airflow. This condition may cause the unit to overheat. Keep the air inlet clear of any obstructions.

Save the shipping carton in case your VAF fan must be returned for repair.

This unit should never be serviced or cleaned while it is plugged into a live electrical power source.

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

OPERATING INSTRUCTIONS

Please inspect your unit upon receipt for any freight damages. Be sure to keep all original packaging. Original packaging will help protect unit from freight damage upon return.

If you discover any damages during inspection, please contact Dry Air Technology.

The unit as packaged is ready to be put into service. If you have a 220v model, attach the appropriate plug for your region.

Inspect the unit completely for any shipping damage. 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

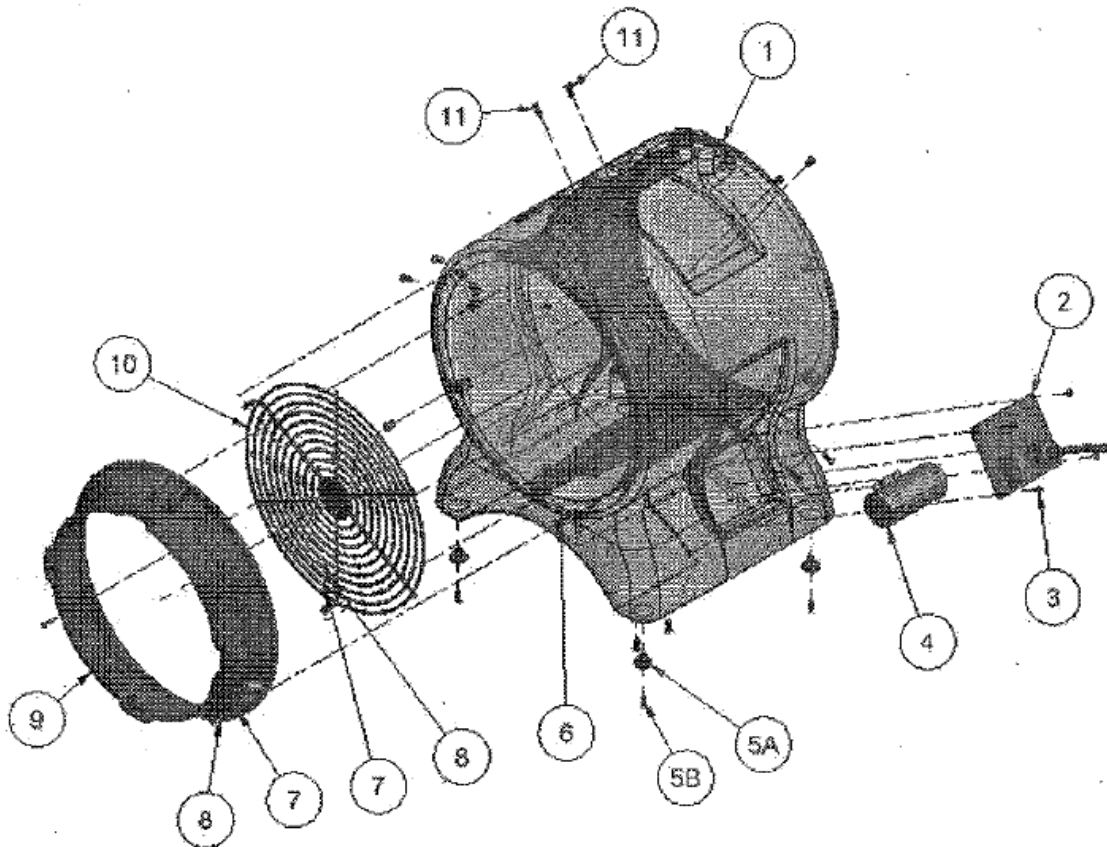
Warning

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 buildup of foreign material. When the unit is first turned on, check for excessive vibration, which could indicate a major problem. If the unit vibrates, have a service technician inspect the unit for the problem.

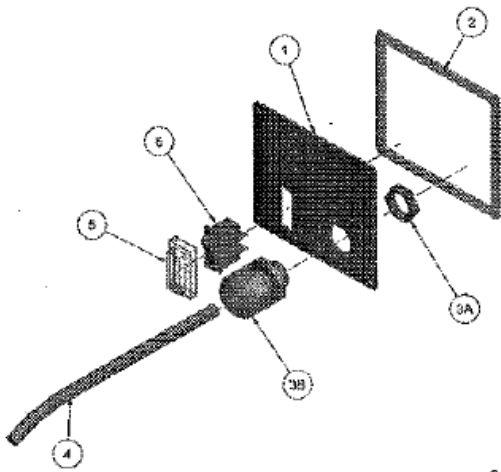
SPECIFICATIONS

VOLTAGE	110/120V	220/240V
FREQUENCY	60 HZ	50HZ
MOTOR	1 HP	1 HP
CURRENT	7 AMPS	4.9 AMPS
RPM	3325	2750
CFM	2200	2200
MAX SP	3"	2.5"
HEIGHT	20 ¼"	20 ¼"
WIDTH	14.8"	14.8"
LENGTH	18.7"	18.7"
WEIGHT	34 lbs	15.4 kg



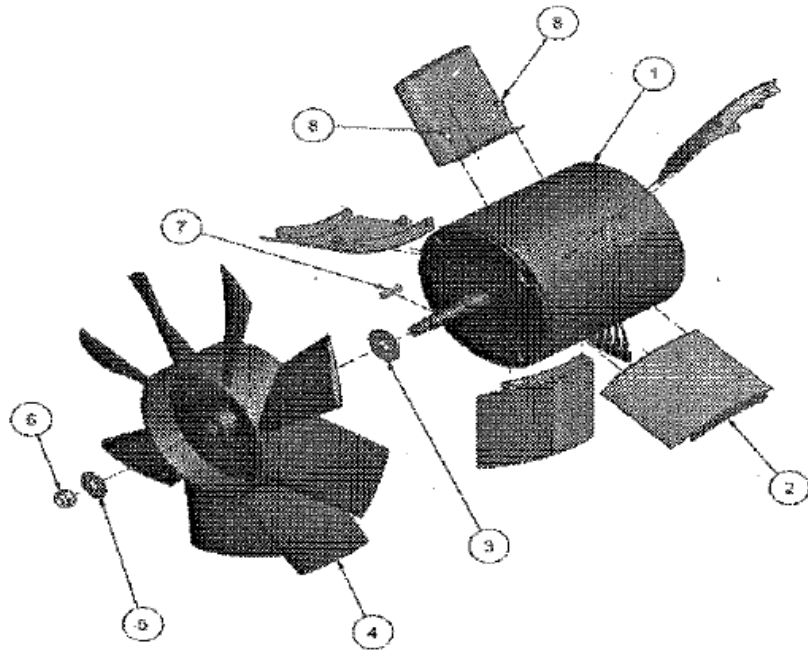
PARTS LIST

Item	Qty	Part Number	Description
1	1	AF-00C-P4A20555	12" Shell
2	1	AF-03E-M3A10365	Switch Plate Assembly
3	4	CF-00F-S2AN0003	#8x1/2" Phil Pan T/S 18-8 SS
4	1	AF-00E-PNA10227	Capacitor, 3770 VAC/40UF
5A	4	GN-00C-RNN10006	Tempest/Axial Foot, Foot
5B	4	GN-00C-RNN10006	Tempest/Axial Foot, Pin
6	12	AF-00F-R4B10029	M3-.5 Metric Well Nut
7	12	FL-00F-S5AN0025	#6 Flat Washer, 18-8, SS
8	12	AF-00F-S3B10010	M-3 .5Px20MM, Hex Head Bolt
9	2	AF-00C-P6A10353	Duct Ring, VAF 12E
10	2	AF-00C-M5A10354	Grill, VAF 12E
11	10	GN-00F-A1A10203	Aluminum Rivets



PARTS LIST

Item	Qty	Part Number	Description
1	1	AF-00C-M3A10359	Switch Plate, VAF 12E/16R
2	1	AF-00C-R6A10360	Gasket, Switch Plate, VAF 12/16
3A	1	AF-00E-PNN10015	Strain Relief-LQ TIGHT
3B	1	AF-00E-PNN10015	Strain Relief-LQ TIGHT
4	1	CF-00E-N4A10004	Power cord 20' 16/3 SJT-WA CEE
5	1	GN-00C-R3MM0335	Cover, Rocker Switch
6	1	GN-00E-P3B10218	ON/OFF Rocker Switch, BLK



PARTS LIST

Item	Qty	Part Number	Description
1	1	AF-00M-N1A1-203	1HP 110V 48 Frame Motor
2	5	AF-00C-M2A10361	Vane Motor Mount
3	1	AF-00F-S5BN0204	1/16 Blade Backing Washer
4	1	AF-00M-P4A10238	12" Fan Blade, VAF 12E
5	1	AF-00F-S5AN0007	3/8 Flat Washer 18-8 SS
6	1	AF-00F-S4AN0008	3/8-16 Nylock Nut L/N 18-8 ST
7	1	AF-00C-M6NN0378	Key 4mm x 19mm
8	10	AF-00F-S2AN0041	8-32 x 1/4" HWH Vane to Motor

Trouble Shooting

Problem	Cause	Solution
Unit will not run.	<ol style="list-style-type: none"> 1. No power to unit. 2. Switch not on. 3. Switch is faulty. 4. Faulty/broken cord or motor wire. 	<ol style="list-style-type: none"> 1. Plug unit in. Check circuit breaker. 2. Place in "ON" position. 3. Replace switch. 4. Perform continuity check, using volt/amp meter. Repair/replace faulty broken wire.
Unit runs but fan makes loud scraping noise.	<ol style="list-style-type: none"> 1. Unit has been severely jolted causing fan to rub against housing. 2. Unit has been severely jolted causing housing to deform. 	<ol style="list-style-type: none"> 1. Remove motor and replace damaged motor mounts. 2. Replace fan blade.
Unit runs but vibrates excessively.	<ol style="list-style-type: none"> 1. Severe jolt has bent motor shaft causing unit to be out of balance. 2. Fan blade damaged. 3. Dirt build up on one side of fan blade. 	<ol style="list-style-type: none"> 1. Remove and replace motor. 2. Replace blade if necessary. 3. Clean fan blade.
Unit runs but fan does not turn.	<ol style="list-style-type: none"> 1. Fan is jammed against housing. 2. Capacitor wire has broken/come loose, capacitor has failed. 3. Housing has been damaged such that it presses on fan blade. 	<ol style="list-style-type: none"> 1. Remove motor and replace damaged motor mounts. Replace fan blade if necessary. 2. Repair/replace wires/capacitor as necessary. 3. Replace housing/unit as necessary.
Unit runs briefly, then shuts off on overload.	<ol style="list-style-type: none"> 1. Motor bearings are failing or motor has developed an internal electrical fault. 2. Intake grill and/or exhaust grill is obstructed. 3. Excessive duct length. 	<ol style="list-style-type: none"> 1. Replace motor. 2. Remove obstruction. 3. Reduce duct length to recommended maximum.