

**THE ENVIROMAC™  
MOBILE AIR CLEANER  
(107.1020.001)**

**OWNER'S MANUAL**

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## **ABOUT THE PRODUCT**

### **PRINCIPLE OF OPERATION**

The ENVIROMAC™ Portable Air Cleaner is a media type Air Cleaner operating on a two-stage filtration principle. After the contaminant is picked up at the hood of the Snorkvac® Flexible Arm it is then drawn through the arm and through the fan assembly and discharged to the inside part of the paper filter. The filtered air is discharged out the 2 doors. The 2 doors contain charcoal, which eliminates most gases that might be in the filtered air stream. The paper filter collects particulate only and does not filter gases, which is the sole purpose of the charcoal door filters.

### **MAJOR COMPONENTS**

The ENVIROMAC™ Portable Air Cleaner is a self-contained unit comprised of a flexible arm (for source capture), fan and motor assembly, paper filter, (2) carbon door filters, complete cabinet housing and an electrical compartment which also included a Contactor overload.

#### **A) HIGH EFFICIENCY PAPER FILTER**

This filter is a high efficiency paper filter. The suction will deteriorate at the hood as the filter loads up with particulate. Eventually the filter will have to be replaced when the suction is too low. To replace the filter, you must remove the door closest to the front of the machine which is where the switch and nameplate are located. This door is removed by removing the (2) plastic knobs near the bottom of the door and then pulling the door out on an angle so the door is free from the (2) welded bolts. Then pull down on the door to let it slide down from the top of the door. You then remove the filter by lowering the scissor jack with a ratchet. Then slide out the cartridge filter. You can now put the replacement filter back into the machine and tighten the filter by raising the scissor jack. Make sure the filter is

resting on the back of the filter cradle butted up against the tab locators. Make sure that the top of the filter fits inside the top plate that has a 1” lip on it. Make sure the scissor jack is high enough to allow an airtight seal on the top of the filter gasket. Caution should be taken not to apply too much pressure to the filter or you could squash the filter if too much pressure is applied.

#### **B) CHARCOAL FILTERS**

Both doors contain the charcoal filters. They should be replaced 1 or twice a year in a normal welding environment.

#### **C) ELECTRICAL COMPARTMENT**

The unit operates off 120 volts single phase utilizing a 20-amp service outlet. The motor draws about 17.5 amps under full load conditions. There is a contactor and an overload inside this compartment and the overload is set at about 20% above the 17.5 amps. This will automatically shut off power to the motor in the event of an overload. This gives full protection to the motor. The unit has a spring activated on/off dual switch on the front of the panel. There are facilities to put in an optional halogen light in the hood of the arm. This requires a 120 Volt to 24 Volt step down transformer for this option. The halogen light will run off of 24 volts AC.

#### **C) CABINET**

The cabinet is built of 14-gauge steel. There are 2 doors on the unit and the discharge of the clean air is through these 2 doors.

#### **D) BLOWER AND MOTOR SECTION**

The motor is a 1.5 HP TEFC, 120/1/60, 3600 RPM. The fan is a high-pressure fan fabricated out of 14 gauge metal.

#### **E) ADDITIONAL EQUIPMENT FEATURES**

The standard unit comes equipped with a 10 Ft. Snorkvac® flexible arm. The 3 articulated joint sections could be adjusted to suit the operator as to the ease of movement of the 4 different articulations.

### **MAINTENANCE SCHEDULE**

The filter should be replaced when there is inadequate suction at the hood. The charcoal door filters should be replaced once or twice a year.

The Snorkvac® arm has friction discs with washers, which can be adjusted to suit the operator. The unique design of the arm minimizes any problems related to sagging, burn holes in the hose and ease of arm movement. This is a major problem with conventional less expensive arms.

Thank you for purchasing your new ENVIROMAC™ Portable Air Cleaner. The air in your work area will be much healthier to breathe.

FOR A HEALTHIER WORK ENVIRONMENT



**ENVIROFLEX®**

**ENVIROMAC™**

**Return Business Reply Card. Retain Warranty Card.**

Owner's Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_ Zip/Postal Code \_\_\_\_\_

Contact Name \_\_\_\_\_ Contact Email Address \_\_\_\_\_

Installing Contractor's Name \_\_\_\_\_

Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ Date of Installation \_\_\_\_\_

Reasons for Buying:

- 1) Improved Air Quality
- 2) Welding Smoke Removal
- 3) Other \_\_\_\_\_

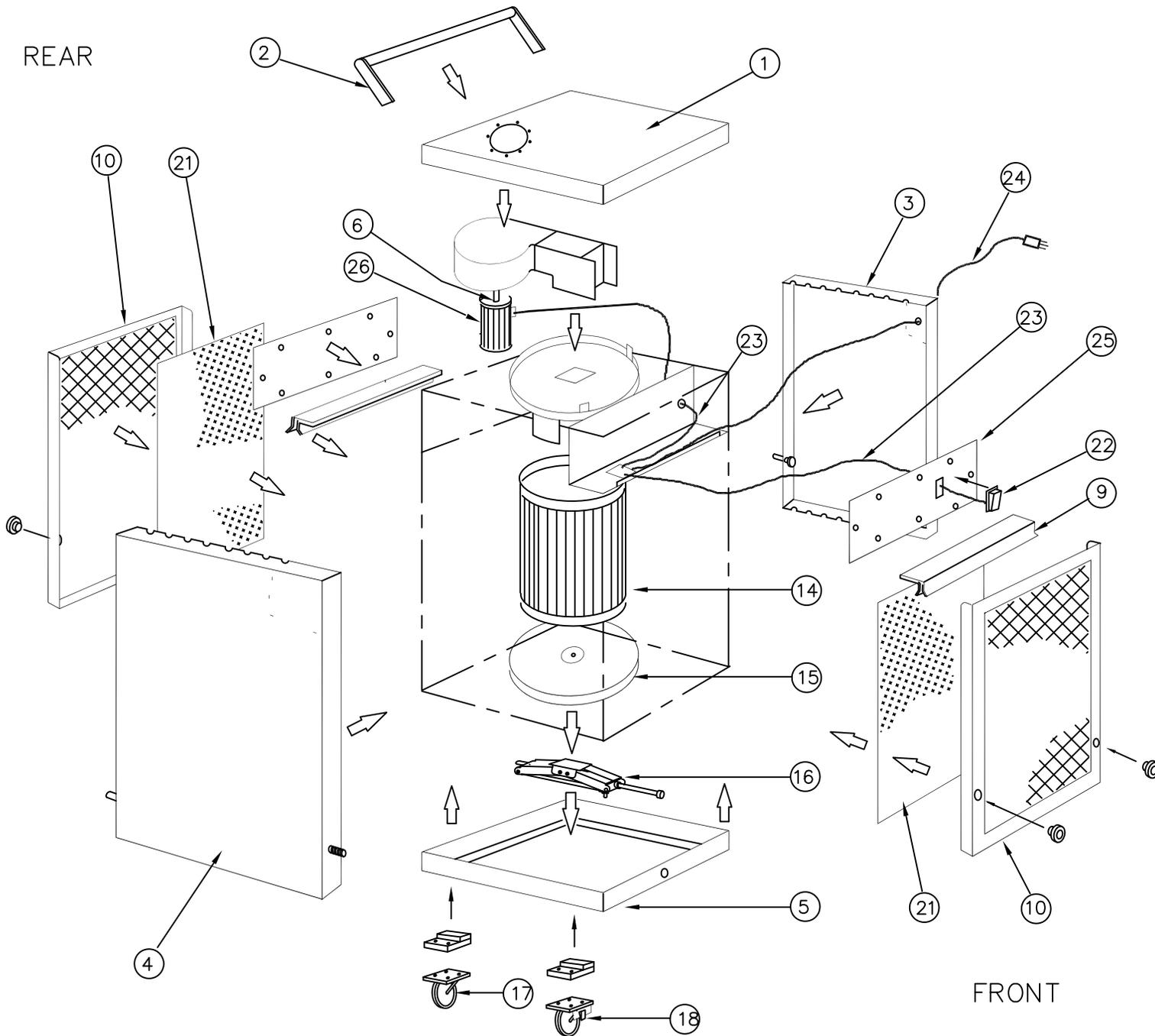
Where did you hear about this unit?

- 1) Newspaper or Magazine?
- 2) Telephone Directory
- 3) Trade Directory
- 3) Enviroflex® Distributor
- 4) Friend
- 5) Another company
- 6) Trade Show
- 7) Other \_\_\_\_\_

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# MAC1(107,1020.001) C/W SNORKVAC FUME ARM



ITEM	PART No.	DESCRIPTION
1		TOP PANEL
2		TOP PANEL HANDLE
3	14-104	SIDE PANEL (LEFT)
4		SIDE PANEL (RIGHT)
5		BOTTOM PANEL
6	11-153	IMPELLER
7	-	-
8	-	-
9	14-104	DOOR HOLDER
10	14-105E	VENTILATION DOOR
11	-	-
12	-	-
13	-	-
14	10-169P	WASHABLE FILTER
15	14-105	FILTER HOLDER
16	14-105F	SCISSOR JACK
17	14-109	CASTERS FIXED
18	14-110	CASTER SWIVEL WITH FRONT LOCK
19	-	-
20	-	-
21	14-128	CHARCOAL MEDIA
22	14-117	ON/OFF CONTROL SWITCH
23		C/W POWER CABLE
24	14-113	POWER CABLE CORD
25	14-113A	90°C RATING INSIDE BOX FROM MOTOR TO CONTROL PANEL
26	11-181C	FAN MOTOR

NOTE:  
DESCRIPTIONS ARE LOOKING FROM "REAR"

