PixMax™ Illusion Airbrush Set

Instruction Manual

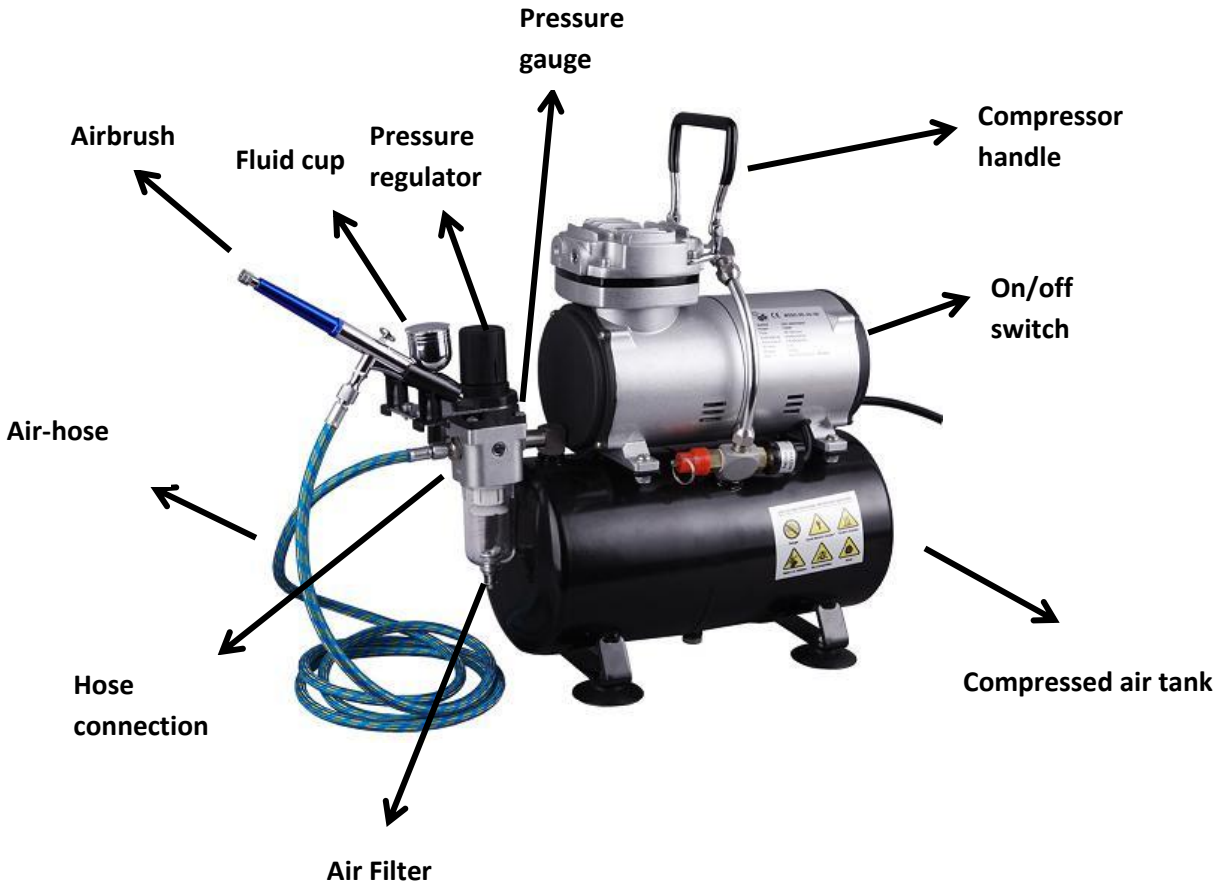


Figure 1: PixMax™ Illusion airbrush set components

Functions and Features

Air pressure gauge and air filter are pressure adjustable.

Piston type: Oil-free.

Starts with pressure, works continuously and powerfully.

Thermally protected.

Low Noise: 47 dB.

Auto-start and auto-stop function.

Technical Information

Type: Single Cylinder Piston Compressor

Power: 1/6 HP

Speed: 1450/1700 RPM

Air Flow: 20-23 L/Min

Auto-stop at the 4 Bar (57 Psi), and Auto re-start from the 3 Bar (43 Psi)

Pressure adjustment range: 0-4 Bar

Suitable for airbrush with nozzle size: 0.2-1.0 mm

Net Weight: 5.2 Kg

Dimension: 310X150X310 mm

Operation Instructions

1. The outlet thread size of the air compressor is 1/8'' BSP. If you need the 1/4'' BSP or any other NPT screw thread you will need an adapter to connect to the compressor.

2. The air hose contains rubber airproof material but can be made airtight by hand to improve performance. If you are using a different air hose, the connection between the hose and compressor may not be entirely airtight. This will cause a problem as the auto stop function will only work if the connection is 100% airtight. Thread seal tape can be used to help prevent leakage.

3. Connect the air hose and airbrush (or other air tools) to the air compressor and plug it into the mains supply. Press the on/off switch and the air compressor will start to work. The pressure gauge will show the maximum pressure. The pressure can be adjusted on the regulator.

4. When checking for air leakage, do not use any air tools before the compressor reaches the maximum pressure. Check whether the compressors auto-stop function is working properly. If the compressor doesn't auto-stop, then switch the compressor off and check the index on the pressure gauge. If it is steady it means the connection is airtight. If the index drops quickly it means there is an air leak in the connection. Check the connection and make it airtight as any small leakage will affect the performance of the compressor. (It may frequently auto-stop and auto-start).

5. **The difference between maximum pressure and working pressure**: The compressor's maximum pressure is the highest pressure it can build up to and the working pressure is the constant pressure the compressor can maintain whilst airbrushing. The level of the working pressure depends on the nozzle diameter of the airbrush to which it is connected. For a larger nozzle diameter, more air is required to efficiently air brush meaning that the compressors working pressure is lower, whereas a smaller nozzle diameter requires less air and therefore the working pressure is higher.

6. At the bottom of the regulator & filter is the water release valve. You can open the valve to release the water at any time.

7. The compressor's air tank stores compressed air before delivery to the airbrush. The advantages of this are:

a. The Tank provides a reservoir of pressurized air that you can draw from while you're spraying.
b. You can draw air at a regulated pressure from the tank instead of the average pressure of the piston cylinders.
c. Because you're drawing air from the tank, it can eliminate the tiny pulsation in the air supply caused by the physical motion of pistons pressurizing the air.
d. The compressor engine is preserved because it makes air as the tank needs, instead of constantly being on.
e. Tanks are great first line moisture traps.

Caution

1. The user should select the correct air compression with suitable air flow and pressure according to the work being carried out.
2. Before plugging in the compressor, check the mains voltage is compatible with the machine.
3. Please follow local electrical and safety rules. Ensure the socket you use is earthed.
4. Never leave the appliance exposed to dust, acids, vapours, explosive or flammable gasses or left outdoors.
5. The vacuum pump must be used in suitable environments (well-ventilated, with an ambient temperature between +5℃ and +40℃)
6. Do not allow children near the compressor.
7. Ensure the machine is operated correctly; misuse can cause injury.
8. Ensure the work area is well ventilated. It is recommended that a spray mask is worn to prevent breathing in any spray.

Operating the Pressure Regulator

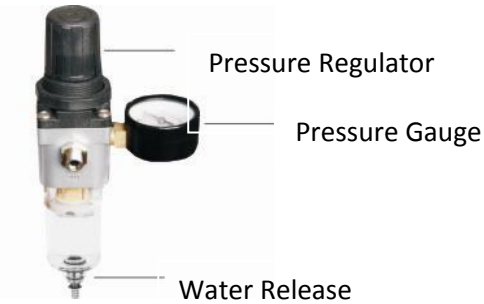


Figure 2: Pressure regulator and air filter

Characteristics:

This component is an in-line low pressure regulator with a 100 Psi gauge and moisture trap. The regulator gives the user control of operating pressure as well as providing clean, dry and regulated air.(**Fig. 2.**).

Operation:

1. The gauge reflects the working pressure of the air tools.

2. To operate the pressure regulator turn it clockwise to increase the pressure and counter-clockwise to reduce the pressure.

3. Turn the pressure regulator to get the right working pressure required and fix it in position. Do not turn the regulator when it is fixed in position.

4. Pull the water-release valve to release the water.

Airbrush Operation

Specification:

- Nozzle diameter: 0.35 mm
- Fluid cup capacity: 22 cc

Application:

Use for commercial arts, illustration, photo retouching, hobbies and craft, stencilling etc…

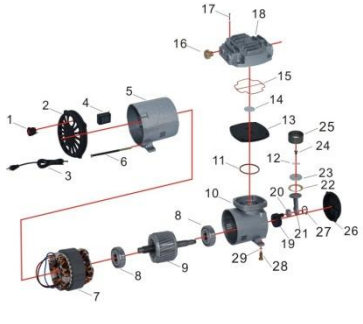
Instructions for spraying

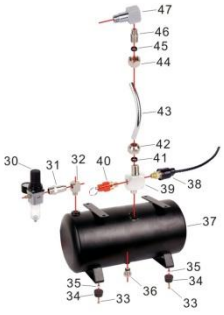
1. Ensure the hose is correctly connected between the air brush and the compressor. Mix the paint with the correct amount of **paint thinners** to ensure the paint obtains the correct consistency for spraying.
2. Hold the airbrush lightly in your hand. By gently pressing the lever a stream of air will emerge from the nozzle. Draw the lever back gradually to allow the paint to release into the air stream.
3. The spray pattern depends on the distance between the airbrush and the work surface. To get a fine line spray, remove the needle cover and hold the airbrush close to the work surface.

Maintenance:

1. When finished with the air brush, remove and empty the fluid cup and wash it thoroughly with paint thinners to ensure that all paint is removed.
2. Fill the cup with paint thinners and re-attach to the air brush. Block the needle with one finger and press the lever to spray. The air will flow backwards through the nozzle and remove any remaining paint. **Note: This is important to prevent paint clotting and affecting the next use.**

Spare Parts Index





NO.	PARTS NO.	DESCRIPTTON	Q TY	NO.	PARTS NO.	DESCRIPTTON	Q TY
1	AS-186 #01	POWER SWITCH	1	25	AS186--#25	CYLINDER	1
2	AS186--#02	REAR COVER	1	26	AS186--#26	FRONT COVER	1
3	AS186--#03	WIRE	1	27	AS186--#27	RETAINER RING	1
4	AS186-#04	CONDENSER	1	28	AS186--#28	SCREW	4
5	AS186--#05	REAR BODY	1	29	AS186--#29	NUT	4
6	AS186--#06	SCREW	4	30	AS186--#30	PRESSURE REGULATOR	1
7	AS186--#07	STATIONARY MOTOR	1	31	AS186--#31	INLET VALVE ROB1	1
8	AS186--#08	BEARING	2	32	AS186--#32	INLET VALVE ROB2	1
9	AS186--#09	ROTARY MOTOR	1	33	AS186--#33	SCREW	4
10	AS186--#10	FRONT BODY	1	34	AS186--#34	RUBBER PAD	4
11	AS186--#11	O-RING	1	355	AS186--#35	NUT	4
12	AS186--#12	VALVE PLATE	1	36	AS186--#36	WATER-DRAIN VALVE	1
13	AS186--#13	CYLINDER BLOCK	1	37	AS186--#37	AIR TANK	1
14	AS186--#14	O-RING	1	38	AS186--#38	PRESSURE SWITCH	1
15	AS186--#15	O-RING	1	39	AS186--#39	AIR SPLITTER	1
16	AS186--#16	AIR-INLET CAP	1	40	AS186--#40	SAFETY VALVE	1
17	AS186--#17	SCREW	4	41	AS186--#41	O-RING	1
18	AS186--#18	HEAD CYLINDER	1	42	AS186--#42	COMPRESSION SCREW	1
19	AS188--#19	COUNTERWEIGHT	1	43	AS186--#43	HOSE	1
20	AS186-#20	BEARLING	1	44	AS186--#44	COMPRESSION SCREW	1
21	AS186--#21	LINK	1	45	AS186--#45	O-RING	1
22	AS186--#22	COMPRESSION RING	1	46	AS186--#46	OUTLET VALVE ROB2	1
23	AS186--#23	BLOCK	1	47	AS186--#47	OUT-LETS VALVE	1
24	AS186--#24	SCREW	1	48	AS186--#48		