

# Silent Hurricane Compressor

## Oil Free

The compressor is perhaps the most crucial part of any dental system as it supplies the valuable air needed to run handpieces and pressurize the water and cooling system.

The regulator/pressure gauge should be set to read 80 psi. The tank pressure gauge should read 110 p.s.i./7.5 BAR. See page 27

### Operating the Silent Hurricane Oil Free Compressor

1. Connect the unit to the appropriate voltage.
2. Check that the air tank on/off valve is closed. See page 24.
3. Switch unit on at the mains (power outlet).
4. Turn unit on at switch situated on top of the pressure switch. See page 24.
6. Motor should now run and will stop running when 110 p.s.i./7.5 BAR. has been reached.
7. Connect the grey air line from dental unit to the compressor and turn air tank valve to the ON position. See page 28

### Identifying Air Leaks

To ensure the Silent Hurricane Compressor Motor is not subjected to higher than normal operating temperatures, each iM3 Dental unit should be checked for air leaks at regular intervals, the easiest way to check for air leaks is to pump the compressor tank up to 110 p.s.i./7.5 BAR. and turn the motor off. Make sure the air line to the dental head is connected and the tank valve left in the open position with the pressure switch for the water bottles also turned on.

Once the tank has been pumped to 110 p.s.i./7.5 BAR., check the pressure in the tank 10 minutes later. If the pressure has dropped more than 10% during that time then the unit is leaking air which should be identified and remedied to ensure the compressor motor does not overheat due to excessive running caused by the air leak.

Model: Silent Hurricane Oil Free compressor

Voltage: 220-240 50Hz

900W

Maximum operating Pressure 110psi (770KPa)

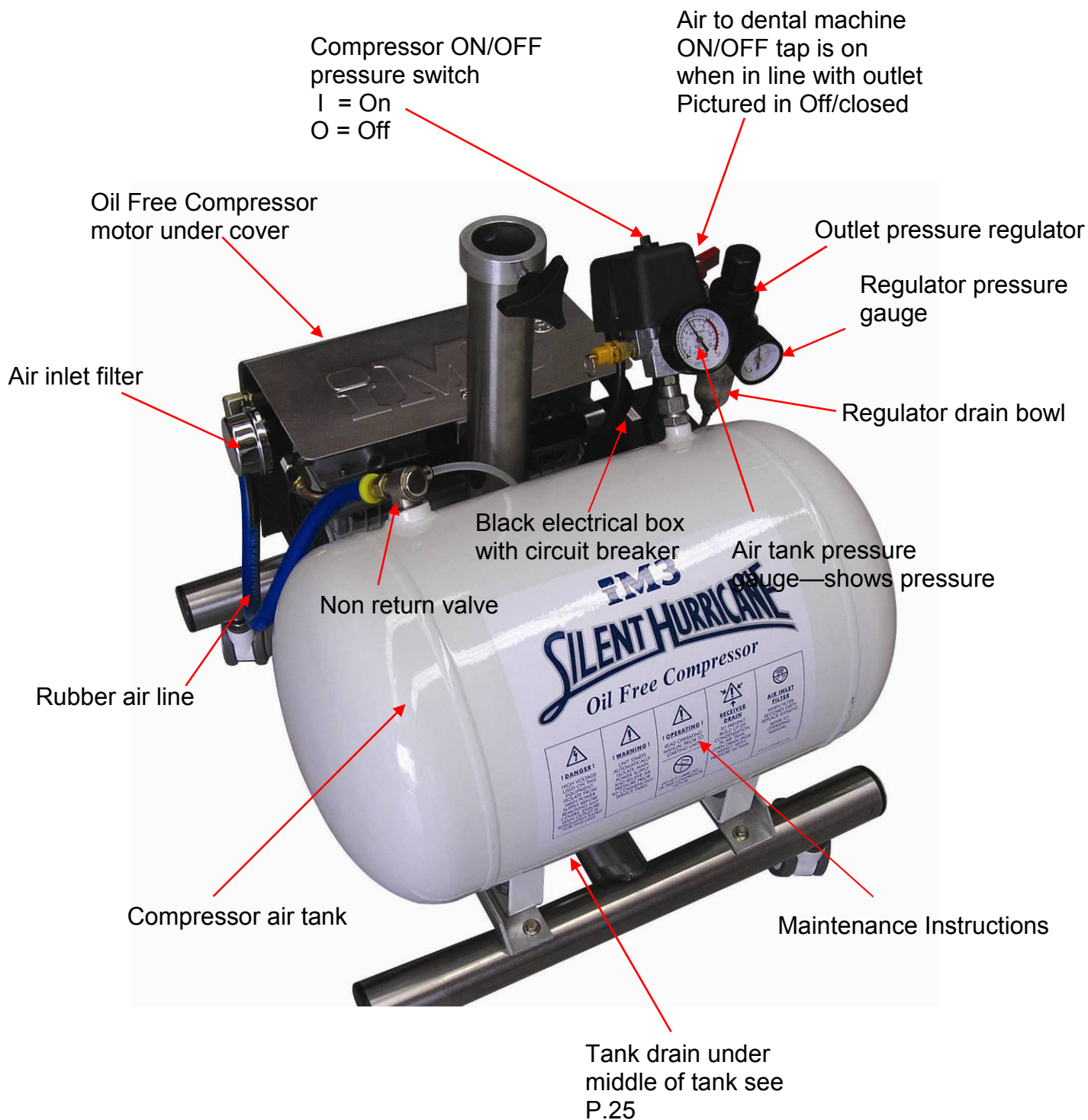


Manufactured By: iM3 Pty Ltd, Sydney Australia.

**iM3 Dental Systems**

## iM3 Silent Hurricane Oil Free Compressor

**Circuit breaker located on the side of Black electrical box.  
Push to Reset**



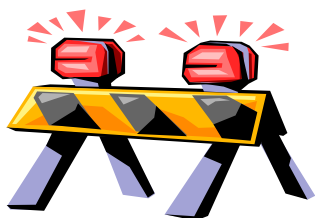
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### Adjusting Regulator Air Pressure

With the Dental Unit pressurised and air lines turned ON, the black knob on top of the regulator is pulled up from the locked to the free position to adjust air pressure (see picture page 25). Depress the black knob after setting to lock pressure adjustment.

The regulator gauge registers working or air line pressure which may be increased by turning clockwise and lowered by turning anti clockwise.

The pressure air line gauge will register the working pressure, which should be 80 psi. The large gauge to the left indicates the pressure in the white air tank. The pressure in the tank will read 0psi when empty to 110psi when full.



#### **Warning**

Unit starts automatically. Isolate power supply and relieve air pressure by opening tank ON/OFF valve prior to commencing non electrical service tasks.

**"This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety."**



#### **Danger**

High voltage used on this equipment.  
Isolate from mains before removing any covers, which should only be carried out by a qualified electrician .  
Ensure power outlet is adequately rated for this unit.

Feature	Daily	Weekly	Monthly	Yearly
<b>Silent Hurricane Compressor</b>		To drain condensation, first reduce air pressure in tank to 10psi by opening air ON/OFF valve to dental unit. (pictured below left) Drain moisture from main compressor tank by opening the valve in the bottom of the white tank slowly to prevent the moisture from spraying.		Change air inlet filter on compressor motor.
<b>Regulator - Auto Drain Filter</b>	Automatic, when tank drained of moisture			Replace regulator filter.
<b>Regulator - Air Pressure</b>	Check that correct air pressure is being delivered. 80psi			
See Adjusting Regulator Air Pressure on Page 24.				
<b>Contact iM3 for your yearly compressor service kit.</b>				

Compressor air regulator adjustment knob



Air ON / OFF (valve pictured in ON or open position)



Air inlet quick disconnect line, supplying air to dental machine

Compressor tank drain, located under white air tank—**open slowly**