

# SPIILVAC™



## OPERATIONS MANUAL MODELS SV-60,100,120,200

***Hi There, Welcome to the Spilvac range of products designed & manufactured in Australia, we hope our products give you the best quality & performance that we can create for your needs, if at any time you are not satisfied please contact us, we are here to help you in your work place.***

***The Directors***

**“Spilvac Technology Group Pty Ltd”**

Compressed Air Powered Vacuum Cleaners are not new, in fact they have been around since the 60”s, however one thing is common between all of the manufacturers of this type of product, they are simple to use. We say simple because the supply of compressed air to the vacuum system is to simply turn the supply of compressed air Off or On & you will have instant vacuuming power via a trigger or a simple OFF/ON Ball valve.

However the real art is in the design of both the internal Venturi Tube & the method in which compressed air is fed into the bore of the Venturi Tube and there are many ways to create both the venturi tube & the feed of compressed air.

This is what prompted us to work on new ways to incorporate the 2 principles using very modern engineering methods of manufacturing; our Aims were to use engineering techniques to obtain Higher Vacuum, Less Energy Used, Greater Air Flow & Lower Decibel Exhaust Noise. At the same time we wanted to reduce the amount of raw material, which can be recycled, to build our products.

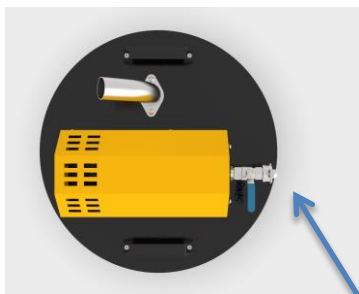
It’s our belief that for the first stage of our business model we have achieved these engineering targets.

Our Models are split into 2 types:

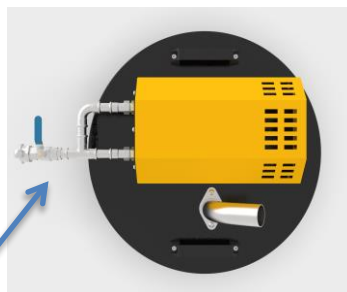
Single Head:- SV-30, SV-60 & SV-100 These have single compressed air entry pipes to the internal Air Jet Nozzle

Dual Head:- SV-120 & SV-200 These have dual compressed air entry pipes to the internal Air Jet Nozzle

(see photos below)



Single air entry



Dual air entry

In each model type the compressed air supply is controlled Off/On by the  $\frac{3}{4}$ " Ball valve as shown above.

The compressed air supply line should be

$\frac{1}{2}$ " (13mm) for Model SV-60 & SV-100

$\frac{3}{4}$ "-1" (19-25mm) for Model SV-120

1"-1.1/2" (25-38mm) for Model SV-200

Providing the air hose length is 20 meters or less

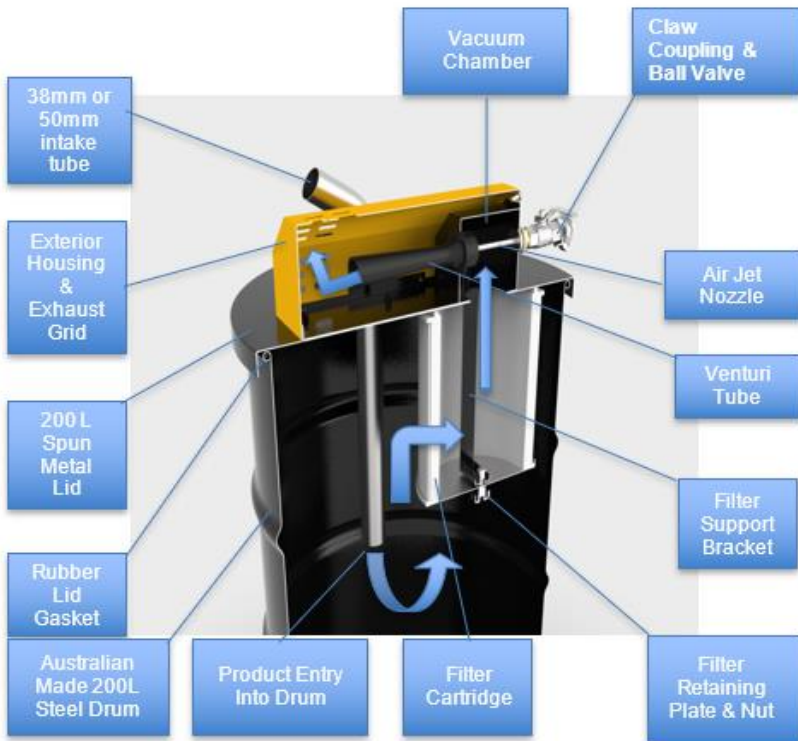


All our models are fitted with Chicago Claw Couplings; these allow maximum airflow to occur, hence greater performance of vacuum & suction power, please ensure you use this type of coupling to connect to your compressor. We are able to supply compressed air lines pre fitted with these couplings.

Regulating compressed air is important; we recommend the use of an "Air Regulator" to control the flow of compressed air to your Spilvac unit, over supply or "non regulated" is simply wasting compressed air & will change the performance of the Spilvac



## Understanding Your Spilvac Vacuum Unit



This is an easy & simple system to understand, compressed air entering into the vacuum chamber, is reduced in volume & fired through an Air Jet Nozzle under high pressure, this nozzle determines the actual air consumption, Atmosphere within the steel drum is then drawn into the mouth of the venturi tube causing a vacuum within the drum at the same time raw material (product) is drawn into the drum via the Intake Tube along with atmosphere (airflow). The Airflow now enters the filter cartridge, shedding & trapping the raw material, continuing through the centre of the Air Filter Cartridge & into the mouth of the Venturi Tube, its within the Venturi Tube where high vacuum & high airflow is created. Both compressed air & atmosphere is then exhausted via the Exhaust Grid

## **Start up procedure Check List for New Unit.**

- Ensure that the operator is wearing Safety Glasses & Ear Protection prior to commencing
- Mount your Spilvac unit onto the top of the supplied drum or onto your own drum, check that the rubber lid gasket is in good order & will provide a seal between the lip of the drum & the underside of the Spilvac Lid.
- Attach your selected compressed air line to the Spilvac Unit Chicago Claw Coupling, and fit the safety pin that is supplied with the Spilvac Unit, check that the Ball Valve is in an Off position prior to attachment.
- Now connect your selected suction hose to the intake tube & attach your desired vacuum cleaner tool (vacuum wand & floor tool)
- Connect the other end of your compressed air line to the compressed air source (the air compressor) or inline air regulator. **MAKE SURE YOU USE A LOCKING PIN BETWEEN THE CHICAGO FITTINGS**
- Check the pressure reading on the Air Regulator Gauge, it should read between 6 & 7 Bar pressure, 80-100 psi
- Return to the Spilvac unit & open the ball valve slowly, re check your air pressure supply.
- You are now in the position to commence vacuum clean-up
- To shut down turn off the Spilvac ball valve & reverse the procedure above
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### **Safety Warning:**

**If the material or product you wish to vacuum up is prone to create static electricity, please ensure you use or have fitted our Anti Static Kit complete with earthing wire to ensure Operator Safety.**

## Trouble Shooting:

Due to the simple design of our Spilvac units not much can go wrong that would prevent the item from working, so here is a check list of possibilities:

- **Drop in Vacuum Power-** this would be the main issue in any situation, so check that the rubber lid gasket is in good condition so there are no vacuum leaks- Check your filter cartridge is clean, a blocked filter cartridge will reduce the vacuum power, check your compressed air supply, small air lines & quick release fittings reduce the volume of air required to develop full vacuum, likewise low pressure supply will also reduce the performance of the SpilVac vacuum unit. Your suction hose could be suffering from a blockage which would limit the vacuum power, so check your vacuum hose is in good condition & is not punctured anywhere over its length.
- **Filter Cleaning-** Its important that your filter cartridge is maintained, it will need cleaning from time to time, although our Standard Filter Cartridge is designed as a throwaway, we do have washable Polyester cartridges as well as HEPA cartridges, these have a longer life span, however they are also more expensive. In most cases filter cleaning can be a simple blow down with a compressed air Blow Gun, please ensure you are wearing a suitable Dust Mask & Safety Glasses, when performing this task.
- **Vacuum Hose-** The type of Vacuum hose supplied with Spilvac Units has been supplied as a “Smooth Bore” type, it’s again important that smooth bore type hose is used as it allows a smooth flow from the point of vacuum all the way through to the drum. Internal corrugated hose disrupts the air and product flow causing turbulence within the suction hose, further more product will become trapped within the corrugations & reduce the flexibility of the vacuum hose.
- **Anti-Static Vacuum Hose-** In the case whereby the raw material may create Static Electricity, Spilvac provide a smooth bore hose with a copper wire embedded into the construction of the hose, this allows a earthing connection to be made to the vacuum wand & to the inlet tube, at which point a earthing wire is supplied that extends from the inlet tube to a grounding location, our earthing wire is fitted with a spring clamp to allow grounding connection to take place.

## Filter Bundles-

The life of any Vacuum Cleaner depends of the filter supplied, it's like changing the oil on your vehicle. The Spilvac unit is no different its filters need changing from time to time, with this in mind we have created a Filter Bundle to help you & there is nothing worse when you need our vacuum cleaner if it can't be used because the filter hasn't been changed



Standard Paper Cartridge part # SV-SCF-4 available in packs of 4  
Washable Polyester part #SV-WP-4- available in packs of 4  
HEPA Cartridge part # SV-HP-2- available in packs of 2

We also provide cotton over bags to give the filter cartridge a longer life as well as an additional filter area, they are designed as a throw-away cover, packed in lots of 10 they are great value.

Part Number-SV-FCDB-10



# **SPILVAC**<sup>TM</sup>

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