

The Predator Hawk II

The Hawk has been introduced to the market as a natural derivative of the standard Predator products.



- Unlike the standard Predator machines the Hawk has no collection hopper, Gantry, towing 'A' frame or wheels. The performance of the Hawk is the same as for the Predator machines and is designed to attach to the customers own Trailer or appropriate other suitable receptacle.
- The choice of Engine for the Hawk is very much the same as the choice of Engine for the Predator machines and depends on workload envisaged and the power of the vacuum required. To this end a choice of three Briggs and Stratton engines are available, 13hp and 15.5hp
- Both models are fitted with a 10 litre separate larger petrol fuel tank for extended use.
- With respect to the vacuum induction aspect of the Hawk it is identical to the Predator machines. The combination of the engine and the induction system makes the Predator and Hawk products the most powerful on the market and are ideally suited for the exacting job of collecting debris in the worst of conditions.

Guidelines for choice of engine

13.5hp-engine - A well proven and tested engine. Extensively used by most, if not all, of the manufacturers using such engines. Typically to date products such as Lawn Mowers of all descriptions have long since installed these engines.

15.5hp-engine – Maximum vacuum power is created. The engine drive shaft is coupled to the fan axle using twin high performance pulleys and drive belts. The additional power developed by this engine enables us to use an even higher gearing ratio to the Fan thus developing maximum vacuum power.

- We have trial tested one for over a year on our Predator vacuum machines and have been very impressed to the point we think the 13hp OHV engine is as good if not better than any so called equivalent engine available from any other manufacturer. We have been installing them on all new machines since 2003.
- Ideally suited for use with longer than normal hose lengths as used in the game bird breeding industry. (Up to about 12-16 metres depending on application).
- Heavy prolonged workloads collecting other debris such as Horse and Camelid droppings.
- Large garden/estate general cleaning up of leaves and other suitable garden refuse.
- The most powerful vacuum machine on the market** for such applications.
- The Briggs and Stratton engine engine comes with a 2year warranty.
- It is especially important as it addresses several issues applicable to the application of vacuum machines.



- **It has lower noise characteristics.** Lower noise is not that important as most of the noise comes from the fan anyway. But
- **It has a higher torque capacity.** Higher torque is great as the fan speed is better maintained when under high load such as wet heavy dropping hitting the fan. Sustained speed means sustained vacuum power – much less chance of ever blocking the vacuum machine.
- **It has anti-vibration technology.** Anti-Vibration is great as the engine runs smooth, better longevity for the engine and the vacuum machine. It also means the engine is working less hard and helps towards a better fuel consumption.
- **It has an oil pressurised bottom bearing** Pressurised bottom bearing means that the bearing through which the engine crankshaft passes, is force lubricated. With the crankshaft rotating at 3600 rpm this is important especially on hilly terrain.

- **It is an overhead valve 4 stroke engine.**

All of the benefits of OHV technology relate mainly to engine efficiency and improved performance.

- **With the 13 hp we fit a large outboard fuel tank.**

The out boarded fuel tank which has a 10 Litre capacity allows for extended usage before having to refill. Typically you can expect to run the engine for up to 4-5 hours before filling up.

- **Exhaust.**

The exhaust venting is vertical to air. Means the fumes are not being breathed by the operator.

- **Advisory thoughts**

To connect the Hawk to a trailer or similar receptacle is very simple. The machine comes with suitable holes drilled in a mounting plate such that the Hawk can be bolted to the front, side or rear of a trailer. It is best if the top of the trailer is covered with a suitable material or at least the top, nearest where the Hawk is fitted, is covered over completely. The vacuum from the Hawk machine is very powerful so any debris passing through the vacuum unit will exit the Hawk into the trailer at an amazing speed. Clearly you will need a method of stopping the debris 'flying all over the place'.

- **Manufacturing**

Fabricated in Mild Steel using high grade metal and finished in a quality powder coat paint. The paint finish is designed to offer extended life. Logo lettering is in 7-year vinyl and completes the appearance of the machine to a highly professional level.

The twin Pulley drives are of high precision quality and designed to avoid belts jumping off pulleys or frequent adjustment of tension. The belt drives alone will offer protection to your engine and for such applications it is advised this professional engineering practice be seriously considered.

- **Notes:-**

The Predator Hawk in terms of vacuum performance is identical to the equivalent standard Predator machines.

They have the same pick up hoses and in all respects are very suitable to view during a demonstration. It is not practical to keep stock Hawk machines in all configurations plus for a demonstration the Hawk needs bolting to a trailer which may or may not be very practical for the purposes of a demonstration.

