



November Newsletter



Education Station:

Last month we introduced you to the

BlowHard Design Trifecta:

High Flow Jet Technology

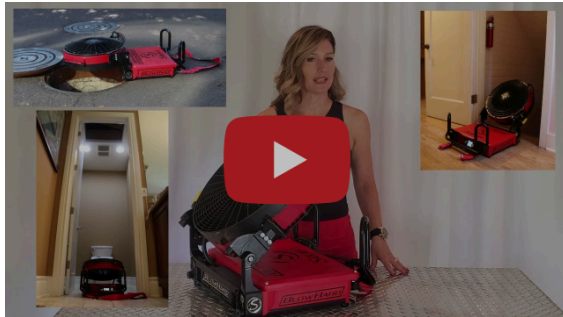
Three important designs and technologies that give a BlowHard fan the ability to be highly powerful yet small and compact.

The first video was [High Flow Jet Technology](#).

This month we bring you Phase II...

Ergo-Fold:

video:



Ergo-Fold is more than just a convenient folding fan! The Commando, Quickee and Squirt all have a true 180 degree of operation and stay stable even on a steep incline/decline!

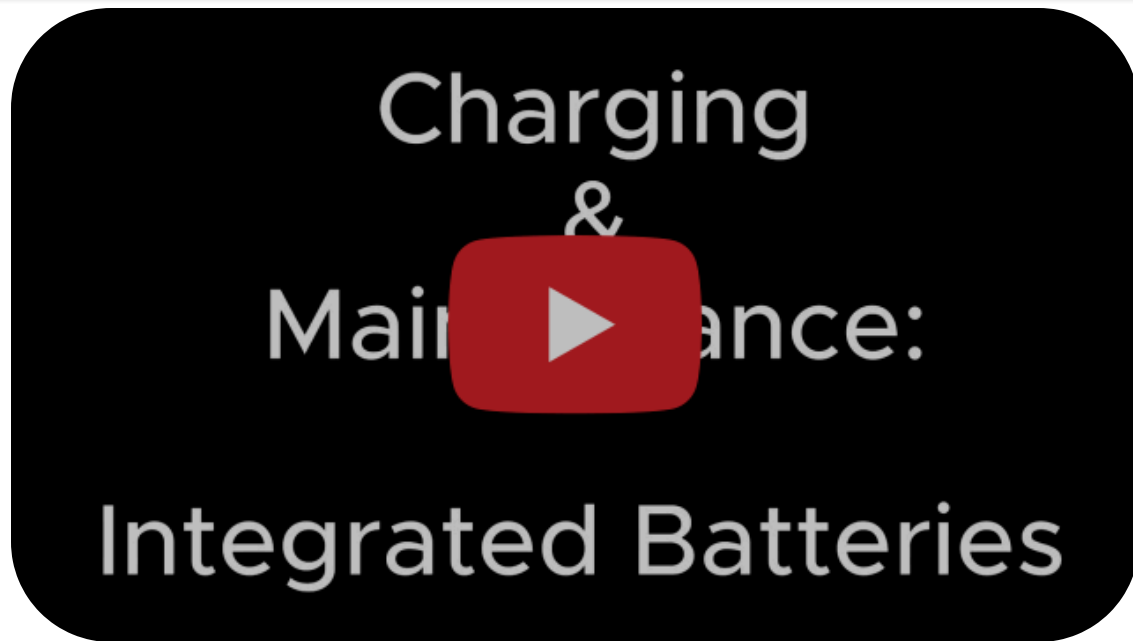
Did you know...

Apparatus shorelines have high-power cycling which can cause repeat charging and damage to batteries (ex: swappable batteries on the market today).

However, BlowHard batteries are specially engineered to work WITH shoreline power, so will not repeatedly charge or damage the batteries when kept plugged into shoreline power.

In fact, BlowHard fans are designed to be plugged in at all times, as it's after the charging is complete that the BMS (Battery Management System) goes to work on all battery maintenance and cell balancing which extends the life and health of the battery.

BlowHard fans are designed to be easy...
Just Love'em and Leave'em (plugged in)



**In case you missed last month's
Newsletter...**

High-Flow Jet Technology

**BlowHard has separated from all other PPV fan manufactures
who have only a Cone or Jet airstream.**

High-Flow Jet is an Expansion Jet engineered by BlowHard.
Our big batteries drive a huge amount of energy into the airstream
to give it high pressure.

Upon exiting the fan, the airstream expands beyond the
size of the shroud, increasing air entrainment to seal the door.

Because High-Flow Jet increases *air entrainment*, this means:
1) You don't need a huge set back
2) The airstream doesn't lose power/energy by the time it gets to the
door and through it!

****Swappable batteries simply don't have enough power
to achieve this!**

Watch this video to learn about it...



Welcome the **Brand New**

BlowHard Squirt

“Everybody’s Little Buddy”



So Little. So Powerful.

BlowHard strikes again by decreasing the size of the fan yet keeping the power, increasing the runtime, AND increasing the battery life!



Squirt Specs:

Blade Size	17" (432mm)	Battery	Li-ion
Size	17.75"x18.1"x10.5" (451mm x 460mm x 267mm)	Battery Cycle Life	Up to 1000 full discharges.
Weight	38 lbs (17.7kg)	Dual-Powered	Dual-Powered Run on battery or AC, seamless automatic switching.
Max CFM	11,200 AMCA equivalent (19,028 m3/h)	Ingress Protection	IP-67
Control System	Smart-Tec by BlowHard	Noise	82Db @ 10 ft (3m) 88Db @ 40in (1m)
Runtime	55+ minutes at 11,200 CFM (19,028 m3/h), 6+ hours at 6,000 CFM (10,194 m3/h)	Head Tilt	Ergo Fold 0 – 180 degrees
Charge Time	0% – 90% in 2 hours. Complete charge time 3 hours. No memory.	2-Year Warranty	All our fans come with a 2-year warranty protection.



Understand that when you purchase a BlowHard fan, you can do so proudly!

BlowHard is an OEM (Original Equipment Manufacturing) business. We do not buy any “off the shelf” stock parts as our competitors do.

Each fan model has more than \$1,000,000 into its design, R&D, molds, casting, prototypes, & testing. We literally engineer and design all major parts of our fan to achieve maximum performance which stock parts cannot provide.

We believe only BlowHard can claim this enormous feat!

We are also family owned & operated and work hard to get it all done right here in Oregon!

Why do we design from scratch? Because we don't want to simply purchase stock parts, stick them together to make a fan that blows air, then market it for firefighting.

It is backwards to create a product based on a mix of parts which leads to ineffective component compatibility. BlowHard always starts with the laws of physics, math, airflow dynamics, and fan-law to create PPV fans that are compact, powerful, and innovative.

BlowHard fans are designed for Firefighters!

*We created the first battery operated PPV fans and still the only ones to have powerful, integrated batteries.

*We deigned the first folding PPV fan.

*We created PPV fans light enough for single-person deployment.

*We invented High-Flow Jet Technology.

*We engineered the only fan with Smart-Tec.

THANK YOU for being part of BlowHard's mission to progress the industry and save lives!



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