Requirements Document

For FilterCheck

BLDC Fan Blower

# Background

The FilterCheck requires us to use a BLDC fan blower that has a minimum Flow Rate of 200 SLPM.

# Purpose

These components give us the flexibility that is required to achieve a fast & precise PID control loop system. The blower must have variable speed control to be able to oscillate up and down in speed until the required 85 +/- 1.4 SLPM is achieved.

# Requirements – BLDC Fan Blower & Controller

* Required Flow Rate: 200 – 250 SLPM
* Voltage: 12v or 24v (24v Preferred)
* Current: below 1.67A or 2.5A (1.67A Preferred)
* Outlet: Flanged for silicone tube