



**TRAVIS COUNTY ESD #5
MANCHACA FIRE RESCUE
Department Memorandum**

M2019-006

Effective: 9/26/2019

Expires: NA

From: C. Poole

New PPV Fans

MFR has recently placed into service two new battery operated electric PPV fans. One has been placed on ENG501 and the other will go on the new ENG511. Below is a quick reference guide as to the features and operation of the fans.

The SuperVac V18-BD PPV fan operates on two Dewalt rechargeable batteries and weighs approximately 50 pounds.

It has the following features:



Controls: Fan speed control dial (On/Off and speed adjustment)

LED light switch: Fan control dial must be on

LED Light



Transport handle release: Pull to release transport handle from deployed position to stowed position

Lock Handle: Holds carry handle in stowed position and allows fan to be tilted when released



Battery: Fan uses 2 batteries. They must be the same rating (20V/12 Ah). This battery will provide approximately 45 minutes of runtime at max speed.



Installing Battery: They slide in to the fan assembly behind the control dial/switch. Depress the button on the battery to ease installation. The button on the battery must be depressed to remove the battery



Spare Batteries: In the near future, we will be providing spare batteries in the chargers on the bay workbench. Changing out batteries will be incorporated into the weekly apparatus check.





Fan Tilt: The airflow direction can be adjusted by releasing the lock handle and tilting the fan shroud assembly. The fan is capable of rotating 180 degrees from straight up to straight down.

To hold the fan tilt position, reengage the lock handle.

Airflow vs. Setback: The chart below provides guidance on the angle of tilt for a typical door opening vs. the distance the fan is set back from the door. In addition, the approximate airflow in CFM is indicated along the bold line at the top of the graph. Note that best performance is found with a 15-foot setback; however, the fan shows good performance from the 9 to 18 foot setback range.

