

HAKKOBALL™ AIRFLOW TESTER

INSTRUCTIONS

The HAKKOBALL™ provides a quick and simple means of determining when to change filters in the Hakko HJ3100 fume extractor. The procedure is as follows:

1. Adjust the Loc-Line™ hose and round hood so the hood is oriented as shown in Figure 1 below. Be sure that the second port on the cover is closed - install the yellow cap to close the second port.
2. Insert the HAKKOBALL™ into the hood. If it remains in the hood, airflow is adequate for operator safety (see Figure 1). If it drops (see Figure 2), airflow is restricted and the filters must be checked.

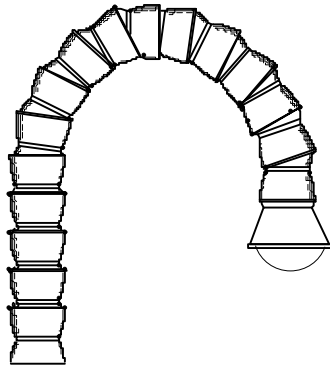


Figure 1

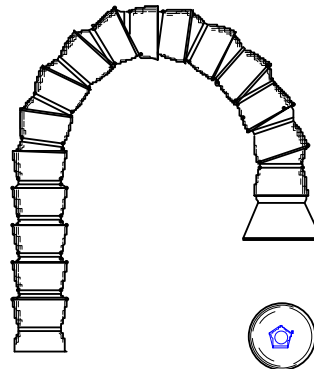


Figure 2

- a) Open the HJ3100 and remove the pre-filter pad. Replace with a clean pre-filter (999-136 pad or 999-201 extended service pre-filter), close the HJ3100, and repeat the check.
- b) If the HAKKOBALL™ still drops, open the HJ3100, remove the main filter (999-137 HEPA/Carbon Combo, 999-178 Particulate, 999-182 Odor) and replace it with a new one. (Whenever the main filter is replaced, always replace the pre-filter.)

HOW IT WORKS

The HAKKOBALL™ operates on the same principle as the familiar floating-ball flow meter. The force exerted on the ball by the fluid passing over it causes it to move.

- i. For the HAKKOBALL™, the force exerted is the suction provided by the HJ3100. When that force is sufficient to hold the ball in the hood, airflow is sufficient to allow an operator to solder with confidence that all fumes will be extracted by the HJ3100, removing this health hazard. When airflow is reduced as a result of clogged filters, the force exerted on the ball is no longer enough to hold it; the airflow has been reduced, and the filters should be replaced.