

CrystalAir Ultralow Maintenance Protocol

New Powder Pot

When filling the powder chamber, only fill it with $\frac{3}{4}$ of the pot. This means that when you come to refill you will have a $\frac{1}{4}$ to tide you over whilst you order a new pot.

The powder chamber is located at the back of the machine.

1. Turn machine to Standby. Press the de-pressurize button, which is on the pinch valve solenoid in the front.
2. Unscrew the lid.
3. Pour powder into chamber.

DO NOT POUR INTO THE TUBE IN THE MIDDLE – no harm will come, but it causes a mess.

POWDER SHOULD GO NO HIGHER THAN $\frac{1}{2}$ " BELOW THE TOP OF THE TUBE.

4. Re-screw the lid hand tight.

EVERY time you start a new pot of powder, you **MUST** change the pinch tubes located in the front of the machine.

Changing Pinch Valves

There are two oblong black blocks with two silver screws each.

1. Turn machine to Standby. Press the de-pressurize button, which is on the pinch valve solenoid in the front.
2. Unscrew the screws of one of them.
3. Pull the pinch valve off and replace with new pinch tube, with seams running at the top and bottom ie not pointing outwards. If the seam is pointing outwards it can impede the pinch valve function.
4. Place block back over pinch valve, taking care to locate the fittings and screw in the screws, hand tight only.
5. Repeat with the other block.

Big maintenance issues happen when the pinch tubes are neglected.

Emptying the discharge jar

The discharge jar is located in the same compartment as the pinch valves mechanisms, on the left hand side.

1. Turn machine to Standby. Press the de-pressurize button, which is on the pinch valve solenoid in the front.
2. Slide the jar towards you out of its track.
3. Hold the top with one hand and with the other hand, slide down the black plastic bowl lock and rotate the bowl and its metal casing in either direction until they separate.
4. Empty the powder out of the bowl and clean the filter with a soft brush.
5. Re-assemble.
6. **Some models have a plastic bottle. To empty, unscrew lid.**

Nozzles

You should regularly check the threads on the nozzle tip connector fittings and also inspect the nozzle tips for wear. These are the wear items on the machine.

The powder is an abrasive and therefore if there is any present on any of the threads prior to screwing it will destroy the thread.

Therefore you should also tap any excess powder out of the nozzle and blow the nozzle and the swivel arm thread with compressed air.

Hook Nozzles

The dentist and staff should inspect Hook nozzles for damage before and after each use. Be always vigilant!

The top of the curve is where all hook style tips will wear out.

Green tips will wear out the fastest of all because there is less backpressure and therefore the powder goes through the curve at a higher velocity.

Hoses and fittings

About once a month inspect all the hose.

The highest wear point on the hose is about 1.5" from where the hose is connected to the pressure tank. This point will eventually get a hole in it. By eventually we could be talking years.

However, when this does happen you can cut the hose and stick it back onto the fitting.

If you need any assistance, please call Melanie on: 01438 820550

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