

## Blower Problems

### My blowers are squealing and running hot, what needs to be done to quiet them down?

Generally it is one of two things that will create a blower problem: blowers starving for air or blowers not able to expel the air at a rate that falls within its operating curve.

The blowers are mounted in an airtight blower sound box either below the conveyor or on top of the cabinet. The access doors for these are sealed with a gasket so all air feeding the blow off action must pass through the filters.

The filters are in place to keep the blowers running clean. The filters used must be a 2-ply type filter, rather than your standard home furnace filter. The inexpensive filters do not keep oil mist and dust from entering the blower. . If the filters become coated with debris and oil and dust, then they limit the airflow to the blowers. By limiting the airflow we are, in a sense, starving the blowers of air. This will cause them to stress and run hot, eventually burning up the blower motor.

Solution #1: Change your blower filters regularly or you will be changing your blower regularly.

At the other end of the action, blower air knives become coated with dried cleaning compound when they displace the solution from the parts. Some applications use a cleaning compound with such a heavy blend of solids that within a few weeks the inside of the blow off cabinet resembles the Kentucky caverns with their hanging stalagmites.

Whether your blow off manifold uses square tubing and brass hose barbs or a stainless steel air knife, the entire cabinet needs to be power sprayed and air orifices cleared on a regular basis\*. If they are not, then the pressure to send air through closed orifices will also stress the blower motor and cause it to run hot. The operator should be alerted to the dirty filter or plugged orifices by a warning fault of some kind, (either text on touch screen or with a light on top of the electrical panel) The key to saving your blower and quieting the squeal of the motor is to pay attention to the fault and take action to correct it rather than making electrical changes that allow the fault to be ignored.

\*Be very careful not to let pressure wash water into the lower header in the cabinet. When spraying the interior, the opening should be sealed or the blower will fill with water.

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Because Crown is here to help I hope this helps get you up and running.  
I do however realize not every problem can be solved online.  
Please don't hesitate to call or email me for further assistance.  
Crown is here to help.

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