

Cold Weather System Tips



When your filter and separator are located outdoors and the mercury dips below freezing, what can you do maintain peak performance from your air-conveyed trim and dust collection system?

If your system has an outdoor filter, these four simple operating tips will keep your production lines running when temperatures fall.

1. If it is below freezing outdoors, leave the blower running between shift changes and at lunch to avoid internal condensation in the filter which will cause dust to cake in the filter.
2. If it is below freezing outdoors and the system has been off for a down weekend or down day, run the blower for three or four hours prior to adding production. This will give the filter time to dry out before introducing dust.
3. For temperatures below 34F, the compressed air must have a desiccant type dryer. Many house air dryer systems are refrigerant type. Refrigerant type dryers will produce air that is not dry enough and will condense in a cold (below 34F) outdoor filter. Condensation causes caking of the dust, which leads to plugs. Keep in mind that only the air going to the outdoor filter needs to have the desiccant type dryer. There's no need to replace your whole house air system dryer if it happens to be a refrigerant type dryer.
4. If your facility has indoor humidifiers, be sure that they are set to the minimum required and keep them away from the inlets of the air conveyed scrap and dust collection system. All of the water introduced by the humidifiers eventually ends up going into the filter. If the filter is colder than the dew point of the indoor humidified air, water will condense from the humidifiers in the filter. Even if you can't see it as a mist, remember, all of the water in the air will end up in the filter. The filter has to be warm enough to not allow the water to condense out of the air.

Questions about the cold weather operation of your pneumatically-conveyed scrap collection system? Just give us a call at 615.230.9500 or email us at sales@gfpuhl.com.

