

Republic Blower Systems Airknife Installation Guidelines

1. Assure that the blower is working properly per owner's manual and troubleshooting guidelines, and that it is rotating in the correct direction.
2. The blower should not be more than 25 feet from the drying system. Hard piping is preferred because flex hose will cause a pressure loss. Cracks and holes in flex hose will allow air leaks, reducing the performance and possibly over-amping the motor.
3. The blower must be free from external vibration sources.
4. Mount Airknives as close to the product as possible. You may need to cut rails on conveyor. ¼" to ½" is the preferable distance.
5. Make sure that the airknife mounting, or support, brackets are firmly bolted to the conveyor framework. If the assembly is not bolted in a solid position, the high velocity air will cause a deflection in the bracket assembly. A deflection would change the impingement angle, or distance from the product you are trying to dry.
6. Guide rails should be cut to allow for un-obstructed airflow to the product being dried.
7. Make sure the filter element remains clean. A dirty element will greatly decrease the blower life.
8. Do not adjust airknife gap without consulting Republic or your local distributor. Increasing the flow will increase the motor amp draw and destroy your motor.
9. Make sure the airknives are not spraying water/liquid on the blower because that would greatly reduce the life of the blower.

