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## HUMIDIFICATION

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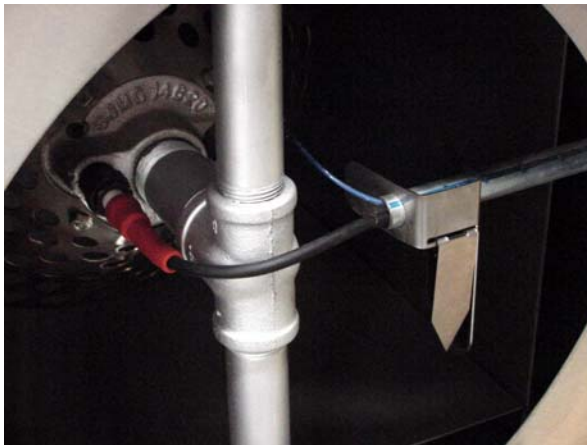
### Air Shutter Adjustment Tool for Humidaire Units

The most important task in setting up a gas-fired Humidaire Unit is finding the right balance between the moist air volume, the low-fire adjustment, and the flame quality. Most field technicians are not equipped with the specialized tools we use in the Samuel Jackson factory to do this with precision, therefore we field guys make the best guess we can. The 21101 Air Velocity Vane is a simple, easy-to-use tool to help those of us in the field find this balance easily and precisely. Taking the time to adjust this gives the right volume of moist air for optimum system performance, saves fuel, and increases the life of a Humidaire Unit.

The indicator is easily mounted onto most Samuel Jackson gas-fired Samuel Jackson Humidaire Units manufactured since the early 1970's. It installs in less than 5 minutes with no tools required. It will normally be left on the unit, as it slides along the existing conduit to the side of the burner duct, conveniently out of the way until the next time adjustment is desired.



*The swinging vane should float between the two lines in the area marked "OK"*



*The indicator is quickly mounted to the conduit by the burner head. It slides out of the way after the adjustment process is finished.*

In a typical adjustment scenario, the operator will set the gate valve regulating the air volume from the Humidaire Unit's outlet for the moist air volume they want for their application. (This volume will vary depending on whether the application is a lint slide grid, conditioning hoppers, a moisture condenser, a Steamroller, or some combination of those devices.) When the air volume is satisfactory, the operator will need to adjust the air shutters on the Humidaire Unit to maintain the correct air velocity across

the burner head. That is where the 21101 Air Velocity Vane Tool comes in handy. The operator will open or close the air shutters to position the swinging vane in the area marked "OK" between the two lines. Following adjustment of the air shutters to achieve this vane position, the operator will adjust the low-fire valve for reliable ignition with the smallest flame possible.

The Air Vane Indicator is standard on all new Samuel Jackson Gas-Fired Humidaire Units and is available as part number 21101 for older units.



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