

## **Model HU-SOUTHWEST-1480 Gas-Fired Humidaire Unit** *(Product Overview and Specifications)*

Humidaire Southwest is the most powerful gas-fired moist air generator ever designed for cotton ginning. It is capable of vaporizing over 4 US gallons of cool water into heated water vapor at 150 F every 60 seconds at maximum output. At the same time, the design offers stable operation at very low evaporation levels.

The Southwest is a fuel efficient unit, trimming over 10% off of the normal energy required by conventional gas-fired Humidaire Units. The design goal was performance under challenging conditions, economical operation under normal conditions.



Other features include:

Direct fire and water interaction. Hot, dry afternoon conditions in ginning season do not slow this unit down like normal Humidaire Units.

Access to the water tank from both sides during operation. No more stopping to check water and scale conditions.

Heat comes from burning gas fuel. Enjoy saving 100 Btus for every pound of water evaporated using the Southwest.

A 7-1/2 HP, cast stainless water pump offers unmatched performance.

A built-in hydrocyclone water filter eliminates dirt and fiber particles in the spray chamber and tank. It cleans itself automatically.

Real time water evaporation statistics. We make big claims about the evaporative capacity of the Southwest. Don't just take our word for it, watch it in real time during operation during your toughest ginning conditions.



**SAMUEL JACKSON, INCORPORATED**

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## Specifications for HU-SOUTHWEST-1480

Evaporation capacity (max):	4 US gallons/minute
Evaporation capacity (typical):	3 US gallons/minute
Fresh water supply requirement:	7 US gallons/minute
Compressed air required:	None required
Maximum moist air CFM:	5,000 CFM
Heating efficiency:	1530 Btu/pound H <sub>2</sub> O evap
Water purge rate (typical):	.7 US gallons/minute
Std Electrical power configurations:	480/60, 380/50, 415/50
Fuel requirement:	Natural gas or propane gas.
Maximum burner input:	2.5 million Btu/hr.
Recommended gas pressure to unit:	10-15 psi
Typical burner input:	1.5 million Btu/hr.
Natural gas fuel consumption (max):	25 CCF/hour.
Propane fuel consumption (max):	29.7 gal/hour.
Natural gas fuel consumption (typical):	15 CCF/hour.
Propane fuel consumption (typical):	17.8 gal/hour.
Remote control compatibility:	Moisture Mirror II/III
16920 Hot Air Valve Compatible:	No
Access water tank during operation:	Yes, 2 sides
Water pump motor:	7.5 HP
Water temperature graph (real time):	Yes
Water evaporation graph (real time):	Yes
Error/Alarm history:	FIFO, 500 events, date/time
Touch Screen update utility:	USB key
Water tank/nozzles/piping materials:	Stainless steel



*Hydrocyclone filter keeps water tank clean*



*7-1/2 HP cast stainless pump delivers performance*



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