

## Samuel Jackson Humidaire Performance and Efficiency Comparison\*\*

Model	Fuel Type	Max CFM	Max Burner Input	Typical Burner Input	Fuel Consumption Max	Fuel Consumption Typical	Heating Efficiency Btu/lb water	Max Evap	Typical Evap	Purge Rate Typical	Typical Power Type
<b>Breeze</b>	Kero*	1000	500,000	400,000	3.8 Gal/hr	3.1 Gal/hr	1290	.9 gal/min	.7 gal/min	.1 gal/min	230/50 1 Phase
<b>Zephyr</b>	Diesel*	2500	1 Mil	680,000	7.4 Gal/hr	5 Gal/hr	1230	1.5 gal/min	.8 gal/min	.3 gal/min	220/50 1ph and 380/50 415/50
HU-60	Kero*	4000	1.5 Mil	800,000	11.5 Gal/hr	6.2 Gal/hr	1400	2 gal/min	1.1 gal/min	.5 gal/min	380/50 415/50
<b>Sahara Lite</b>	Kero*	4000	2 Mil	900,000	15.4 Gal/hr	6.9 Gal/hr	1170	3 gal/min	2 gal/min	.6 gal/min	380/50 415/50
<b>Sahara</b>	Kero*	5000	2.5 Mil	1.5 mil	19.2 Gal/hr	11.5 Gal/hr	1160	4 gal/min	3 gal/min	.7 gal/min	380/50 415/50
<b>Valuaire</b>	N Gas LPG*	2500	1.5 Mil	800,000	15 CCF/hr	8 CCF/hr	1600	2 gal/min	0.8 gal/min	.3 gal/min	120 1ph and 480/60
HU-60	N Gas LPG*	4000	1.5 Mil	800,000	15 CCF/hr 17.8 gal/hr	8 CCF/hr 9.5 gal/hr	1700	2 gal/min	1.1 gal/min	.5 gal/min	480/60 380/50 415/50
<b>Southwest Lite</b>	N Gas LPG*	4000	2 Mil	900,000	20 CCF/hr 23.7 gal/hr	9 CCF/hr 10.7 gal/hr	1530	3 gal/min	2 gal/min	.6 gal/min	480/60 380/50 415/50
<b>Southwest</b>	N Gas LPG*	5000	2.5 Mil	1.5 mil	25 CCF/hr 29.7 gal/hr	15 CCF/hr 17.8 gal/hr	1530	4 gal/min	3 gal/min	.7 gal/min	480/60 380/50 415/50

\*Calculations for these values were performed using heating values of 84,240 Btu/US gallon for propane, 130,000 Btu/US gallon for Kerosene and 136,310 Btu/US gallon for Diesel.

\*\*This data covers efficiency of the moist air generator only. For total moist air system efficiency, the application apparatus efficiency must be considered.

