



PROPANE-AIR MIXING EQUIPMENT MATRIX

AQUA-BLEND®[®], MOD-JET™[™] and VAPOR-JET®[®] Venturi Mixer	AQUA-AIRE™[™] and AQUA-MOD-JET™[™] Blower Assisted Venturi	AFC™[™] Proportional Mixer
Very minor electrical power consumption	Moderate electrical power consumption from blower motor	Highest electrical power consumption from air compressor motor
Lowest capital system cost	Medium capital system cost	Higher capital system cost
Simple controls operation with limited flexibility	Moderately simple controls with flexibility	Sophisticated controls with large flexibility
Minimal adjustability of calorific value of mixed gas	Moderate adjustability of calorific value of mixed gas	High flexibility with excellent automatic adjustability of calorific value of mixed gas
Low PROPANE-AIR Pressure ~6 PSIG Butane/air ~12 PSIG Propane/air	Medium to High PROPANE-AIR Discharge Pressure 50 PSIG PROPANE-AIR butane or propane/air	Highest PROPANE-AIR Discharge Pressure >300 PSIG PROPANE-AIR
Typically used for Industrial plants; seldom for utility	Typically used for larger Industrial plants; seldom for utility	Typically used for Utility, CityGas or large industrial plants
Feedstock sensitive; control of Wobbe value is via manual adjustments to system.	Feedstock sensitive; control of Wobbe value is via manual adjustments to system.	Not feedstock sensitive; calorimeter feedback loop can maintain stable CV with varying flows and feedstock compositions.
Air quality cannot be controlled; atmospheric air	Air quality cannot be <i>easily</i> controlled	Air quality control is easily controlled with dryers and filters.
		Easy interface to PLC's etc.
Low to moderate PROPANE-AIR flow rate use	Low to large PROPANE-AIR flow rate use	Low to very large PROPANE-AIR flows and high PROPANE-AIR pressure capabilities
Cannot effectively provide low Wobbe Value gases.	Can provide low lower Wobbe gases <i>with limitations</i> . Control capability of Wobbe is limited but possible	Very efficient with "eccentric" gas replacements (i.e. coal gas, coke gas, etc.) Can produce very low Wobbe gases with extremely stable and accurate control