



Gas Optimizer Mixer for CC Series Burners

The Gas Optimizer is a mixer that premixes air and gas, maximizing the molecular ratio for more complete combustion. More complete combustions helps reduce the “burn-out” or “muting” of more exotic colors. By premixing the gas, the optimizer decreases the BTU capacity per cubic foot of a specific fuel. In order to produce the same amount of heat, a greater volume of gases must be passed through the burner. As flows are increased, the resulting gases travel faster. Keeping the gas velocity high results in significantly less heat transfer back into the burner allowing the burner to run much cooler.

The Carlisle Gas Optimizer was designed and developed to meet the growing concern for rising glass working production costs. In response, our R & D Department has brought to market an optimizer that precisely premixes compressed air with the fuel gases to an optimized mix. The results are highly favorable. There are multiple benefits to having compressed air mixed into the gas line.

Premixing air and gas maximizes the molecular ratio for more complete combustion than purely surface mixed burners. More complete combustion helps reduce the “burn-out” or “muting” of more exotic colors. Maximizing the combustion mix reduces both gas and oxygen consumption.

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Using compressed air as an accelerant, lower pressures of both gas and oxygen can be realized. Reducing the gas and oxygen requirements provide financial benefits. The return on investment for this product is exceptional. Try it. The optimizer can be fitted to your existing CC product.

Carlisle recommends a compressor with at least a 25 lb. reserve tank. Regulate to 2 to 3 lbs. of air pressure to optimizer inlet.

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