REGENERATIVE BURNERS

DESIGNED INDUSTRY LEADING FUEL EFFICIENCY AND ZnO YIELD

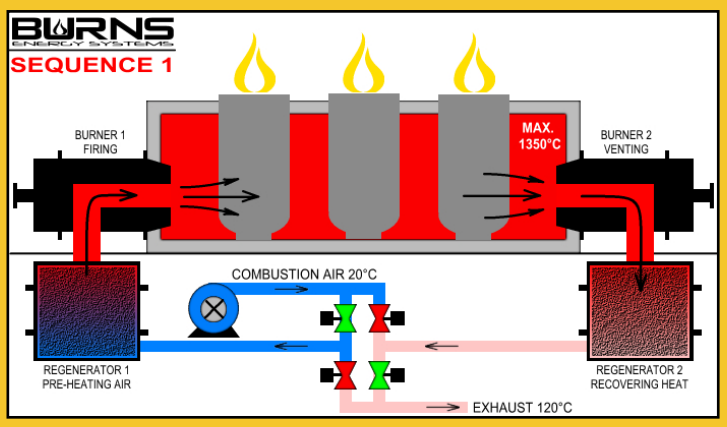
BURNS vaporizing furnaces are designed with regenerative burner systems. One burner fires while the other exhausts waste gas from the furnace via a regenerator, where it gives up most of its heat to the ceramic media inside. After a pre-set time has elapsed, the burners switch. The firing burner receives its combustion air via the regenerator, where it is preheated to about 90% of the furnace temperature. The energy absorbed by the media during the exhaust phase is returned to the furnace via the high temperature combustion air, leading to 90% heat recovery.

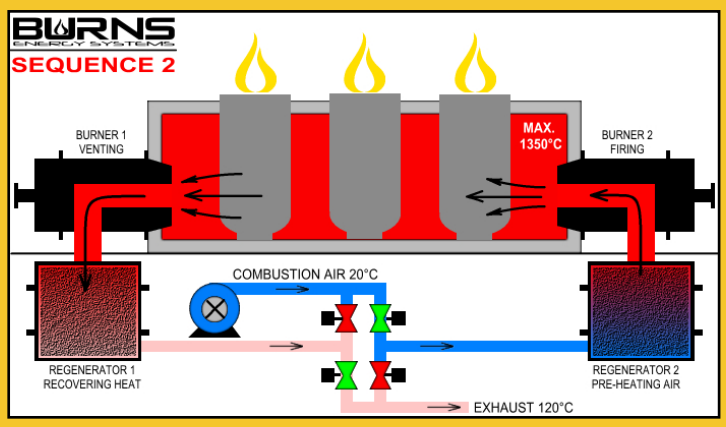
FEATURES

- High reliability in operation
- 85% actual combustion efficiency
- High velocity flames ensure good heat transfer to the crucibles and excellent temperature uniformity
- Electronic mass-flow control is standard
- Systems diagnostics built into the operator interface
- Optional post-combustion system for sub-stoichiometric firing (required for some crucible glazes)
- Burner set-up is performed electronically
- Maintenance alarms provide recommended actions to prevent down time

REGENERATIVE BURNERS

SPECIFICATIONS





- The system is supplied as a number of pre-fabricated and pre-tested panels.
- Valves and transmitters are set up and calibrated prior to shipment.
- The system we have developed for the Vaporizer and may be regulated by temperature or by energy input
- Installation packages are available to make the system easy to install and fast to get into production
- Extensive use of HART, Profibus and Modbus communications with sensors and controls reduces field wiring, improves reliability and provides enhanced system diagnostics when troubleshooting
- System is designed for local and remote monitoring and operation.

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