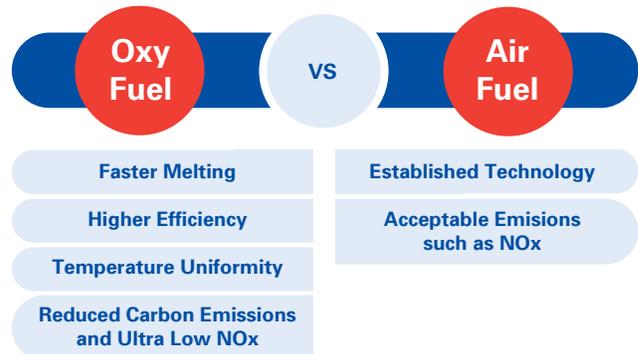


Boost Melt Rates When You Need It

Greater Throughput. Reduced Emissions. Higher Efficiency. OXIPYR® LEAF.



Metal producers are challenged to respond quickly to increasing demand, improve plant margins, and meet decarbonization targets. At the same time, in a downturn scenario, producers need to reduce operating costs. Messer's flameless OXIPYR LEAF burners enable recyclers to easily switch from air-fuel to oxy-fuel only when they need it.



“

“OXIPYR LEAF burners on our furnace have resulted in significant improvements in our operations, Messer’s team was extremely helpful in training our operators on how to best use the new technology, allowing us to achieve our production targets.”

— Joseph Wetzel,

Plant Manager at Custom Alloy Sales, Inc.

”



Why OXIPYR LEAF? Only Use the Oxygen You Need

- Increase metal production by up to 40%.
- Improve decarbonization by reducing fuel consumption by up to 40%.
- Typical payback in 1-2 years.
- Turnkey solution that includes comprehensive safety and operator training.

Now, processors can add oxygen as necessary. With user-selectable burner performance and economics, it's easy to adjust from flame to flameless based on variables like scrap shape and type, throughput requirements and furnace load. LEAF's uniform heat distribution reduces hot spots, overheating, oxidation, dross formation, and yield loss.

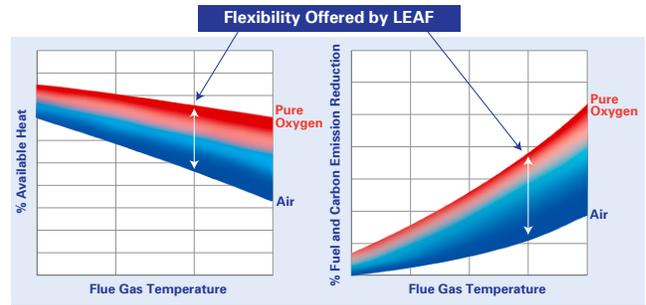
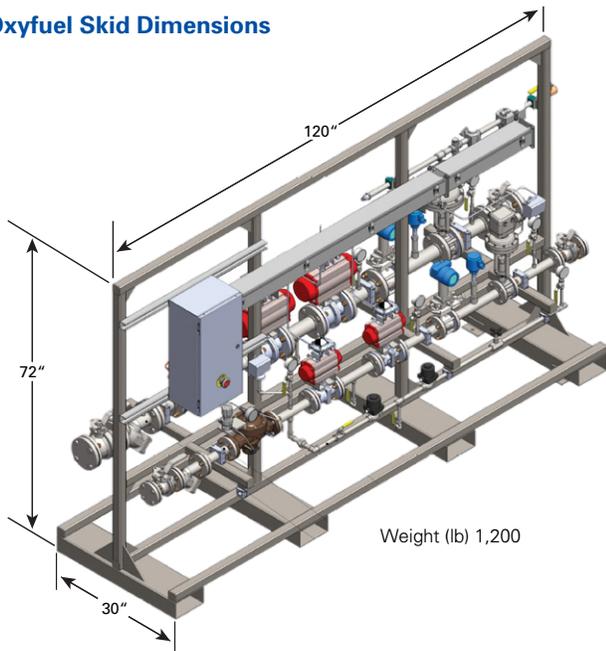
OXIPYR LEAF System

The OXIPYR LEAF system includes the proprietary OXIPYR LEAF burner, oxygen and combustion air flow skid.

| | |
|--|-----------------------|
| Nominal Power Rating (mmBTU/hr)* | up to 15 |
| OXIPYR LEAF Burner Operational Flow Ranges (SCFH) | |
| Oxygen | up to 30k |
| Natural Gas | up to 15k |
| Combustion Air | up to 50k |
| Utilities | |
| Electrical Requirement | 120 VAC |
| Control Voltage | 24 VDC |
| Instrument Air | > 65 PSIG |
| Control System | AllenBradley Controls |

* Please contact Messer if your specification needs are different.

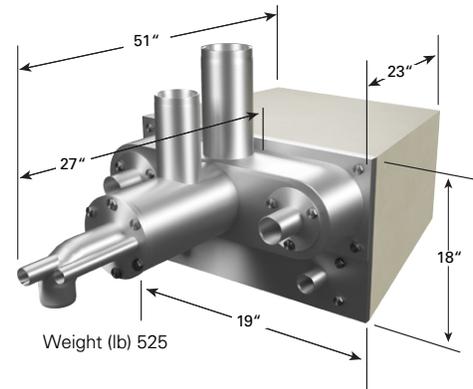
Oxyfuel Skid Dimensions



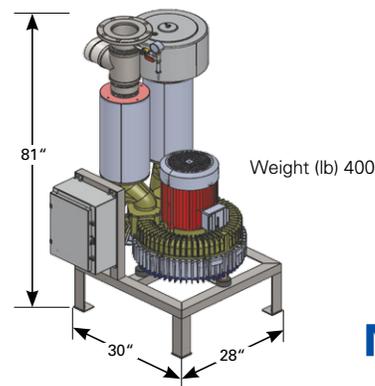
At Messer, you matter.

Our experienced, responsive combustion team puts your success first. They work with you to fine tune and optimize your furnaces to increase productivity, temperature uniformity, refractory life, and yield. Through audits, thermal imaging, Computational Fluid Dynamics modeling of your furnaces or lab furnace testing, our team finds a solution that meets your specific production and sustainability goals.

OXIPYR LEAF Burner Dimensions



Combustion Air Skid Dimensions



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Scan here to schedule a site visit to see OXIPYR LEAF in action.

