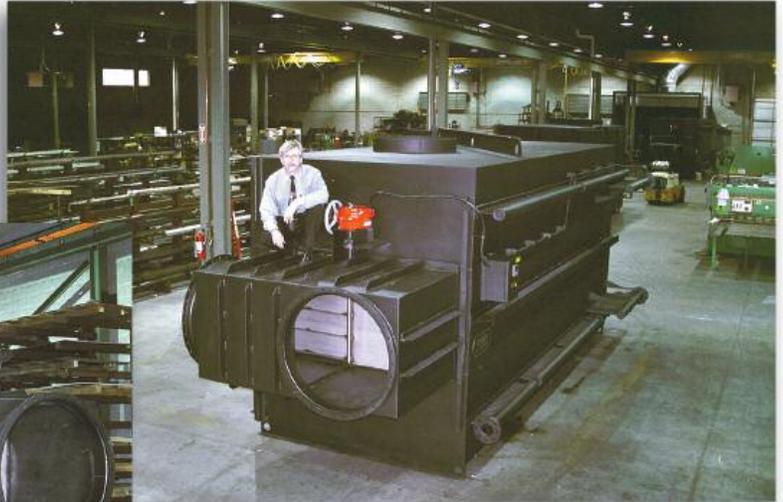




# HRSR SERIES

The HRSR Series is designed to receive total liquid flow, reduce gas temperatures to desired levels, and lower exhaust noise reducing the need for a muffler. The modulating exhaust bypass assembly will allow the tempering of exit temperatures to achieve optimal heat recovery. The radial design allows finned tube access for cleaning and inspection. A single row of finned tubing with optional removable Swagelok™ compression fittings, provides maximum thermal efficiency and easy access for cleaning, inspection or replacement.

The HRSR is engineered for vertical or horizontal operation, combustion capacity up to 4000kW, and entering gas temperature up to 1,250°F to match the needs of your specific application.



### **HRSR-472H28CSS**

Metro Airport Detroit, Michigan  
Recovering Exhaust Heat from (3) Wartsila 5.7 Megawatt, Engine Generators; cooling 18,373 SCFM from 698°F to 320°F; and heating 175 GPM of water from 250°F to 350°F.



### **HRSR-3Z2H22.6CSS**

Federal Research Center,  
Silver Spring, Maryland  
Recovering exhaust heat from  
Wartsila 5.8 mW engine  
generator; cooling 15,857  
SCFM from 716°F to 310°F;  
and heating 210 GPM of water  
from 194°F to 270.8°F.



# HRSR SERIES

The HRSR Series is designed to receive total liquid flow, reduce gas temperatures to desired levels, and lower exhaust noise reducing the need for a muffler. The modulating exhaust bypass assembly will allow the tempering of exit temperatures to achieve optimal heat recovery. The radial design allows finned tube access for cleaning and inspection. A single row of finned tubing with optional removable Swagelok™ compression fittings, provides maximum thermal efficiency and easy access for cleaning, inspection or replacement.



- Full Exhaust Bypass with Damper Assembly
- Modulating Actuator
- Liquid Manifold with Removable Compression Fittings
- Control Panel Assembly
- ASME Stamp (optional)
- Factory Insulation, Carbon Steel Exterior, Stainless Steel Interior
- Structural Support



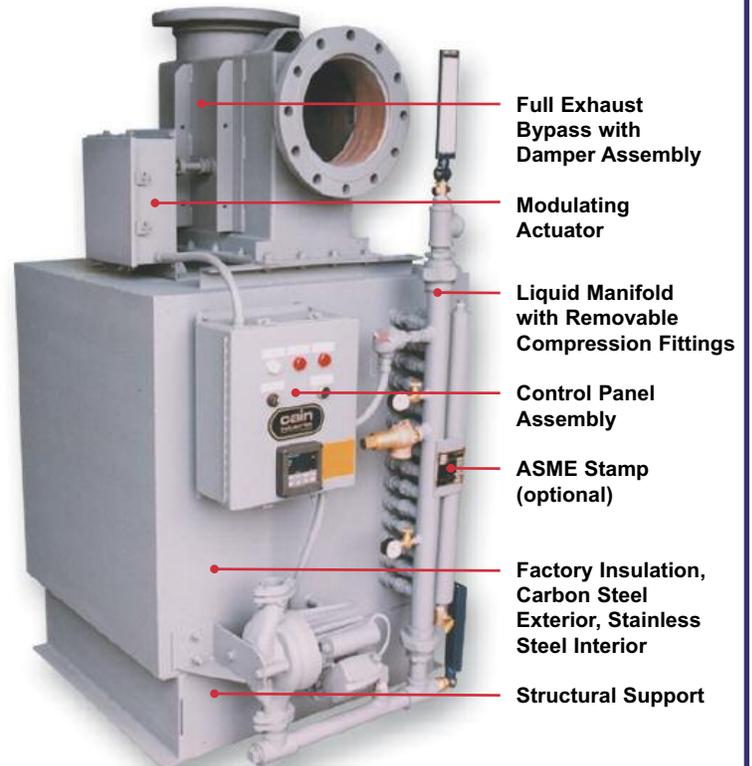
The HRSR is engineered for vertical or horizontal operation, combustion capacity up to 4000kW, and entering gas temperature up to 1,250°F to match the needs of your specific application.





# HRSR SERIES

The HRSR Series is designed to receive total liquid flow, reduce gas temperatures to desired levels, and lower exhaust noise reducing the need for a muffler. The modulating exhaust bypass assembly will allow the tempering of exit temperatures to achieve optimal heat recovery. The radial design allows finned tube access for cleaning and inspection. A single row of finned tubing with optional removable Swagelok™ compression fittings, provides maximum thermal efficiency and easy access for cleaning, inspection or replacement.



The HRSR is engineered for vertical or horizontal operation, combustion capacity up to 4000kW, and entering gas temperature up to 1,250°F to match the needs of your specific application.

## HRSR-436D28SSP

Northrop Grumman, Palmdale, California  
Recovering Exhaust Heat from a natural gas engine generator; cooling 3,016 SCFM from 1,195°F to 401°F; and heating 253 GPM of water from 325°F to 350.1°F.

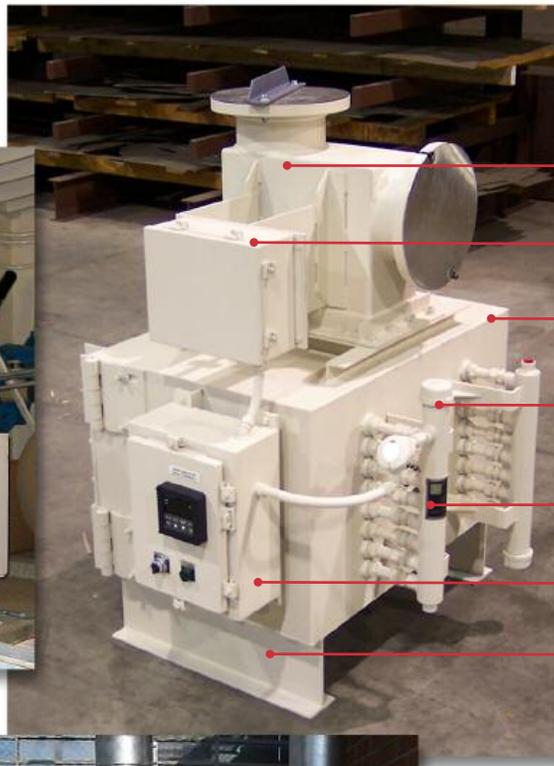


# HRSR SERIES

## MICRO COGEN

The HRSR Series is designed to receive total liquid flow, reduce gas temperatures to desired levels, and lower exhaust noise reducing the need for a muffler. The modulating exhaust bypass assembly will allow the tempering of exit temperatures to achieve optimal heat recovery. The radial design allows finned tube access for cleaning and inspection. A single row of finned tubing with optional removable Swagelok™ compression fittings, provides maximum thermal efficiency and easy access for cleaning, inspection or replacement.

The HRSR is engineered for vertical or horizontal operation, combustion capacity up to 4000kW, and entering gas temperature up to 1,250°F to match the needs of your specific application.



- Full Exhaust Bypass with Damper Assembly
- Modulating Actuator
- Factory Insulation, Carbon Steel Exterior, Stainless Steel Interior
- Liquid Manifold with Removable Compression Fittings
- ASME Stamp (optional)
- Control Panel Assembly
- Structural Support

**HRSR-116826.5ALS** (above)  
Murrieta High School, Murrieta, California  
Recovering Exhaust Heat from a natural gas 60kW micro turbine; cooling 856 SCFM from 580°F to 289°F; and heating 40 GPM of water from 75°F to 90.2°F.

**HRSR-116826.5ALS** (right)  
Fontana High School, Fontana, California.  
Recovering Exhaust Heat from a natural gas 60kW micro turbine; cooling 856 SCFM from 580°F to 289°F; and heating 40 GPM of swimming pool water from 75°F to 90.2°F. Designed for outdoor use.

