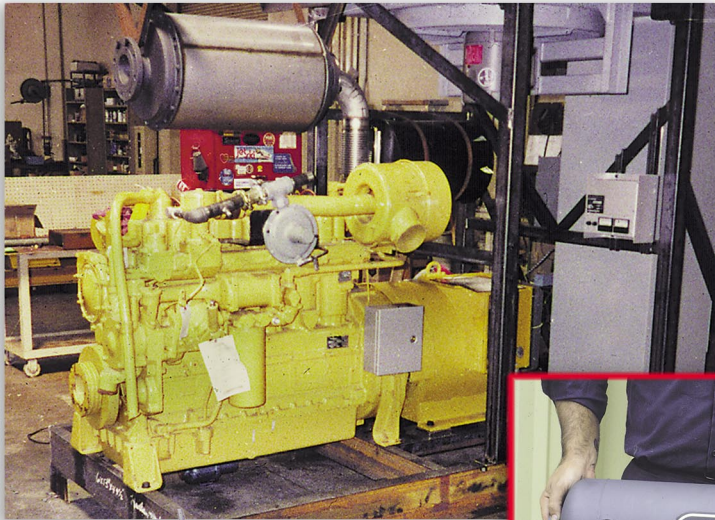




HRSA SERIES



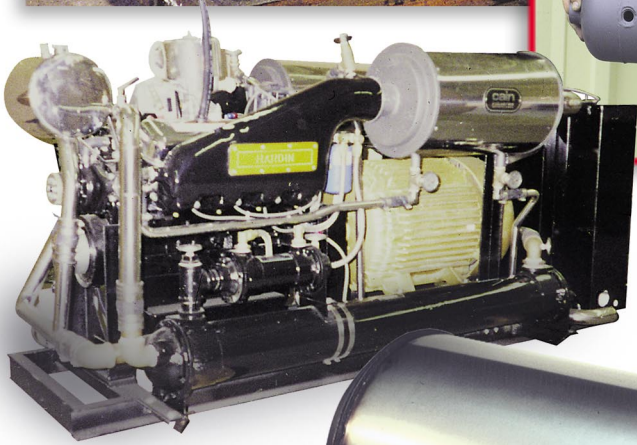
The HRSA Series waste heat recovery silencers are compact cylindrical heat exchangers designed for either dual or single exhaust small engines (15 -150 kW). In addition to lowering exhaust noise, the unique coil-type configuration and optional circulating pump allow for a secondary circulating liquid flow system.

The 1" NPT interconnecting piping, within a main liquid flow loop, provides for simple and less costly piping modifications.



HRSA models are available to accommodate entering gas temperatures from 400°F up to 1,600°F. The required heat transfer surface, coupled with a small diversion of the main flow, adequately recovers desired BTU/hr which lowers the outlet gas temperature

below 250°F as required. The optional internal stainless gas bypass also allows tempering of the exit temperature if required.



The HRSA can be mounted horizontally or vertically, and its compact size and light weight construction allow it to be mounted directly onto the engine.

Typical heat sinks include engine jacket water, process water, boiler water, or glycol.



Seam-Welded .13" Carbon Steel Shell

Exhaust Gas Connections (Flange, Butt or NPT)

Optional Internal Exhaust Gas Bypass

Liquid Inlet/Outlet Connection

Stainless or Carbon Steel Finned Tube Coil (Optional Fixed or Removable)

Stainless Steel Diverter Drum

Condensate Drain

