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putting
safety
and the
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first

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The concept

After successfully utilizing flameless technology in its own fleet of nitrogen pumpers, steamers and boilers Leader is meeting customer demands to capture their wasted energy and reinvest it in their facilities. Leader provides patent-pending produced water evaporators that are powered by compressor engine exhaust gas. Depending on compressor engine horsepower and engine manifold heat, these systems can evaporate 4 to 8 cubic metres of process water every 24 hours.

The difference

The disposal of process water is a major cost associated with producing natural gas. Process water is normally hauled away using third party vacuum/tank trucks to water disposal wells located off-site. Leader's Flameless Evaporators decrease the volume of water that needs to be disposed of by traditional means.

The method

These systems capture excess waste exhaust heat from natural gas-fired compressor engines without impacting your current operations. These fully automated systems have an estimated useful life of 20 years. Operating costs are minimal because of the Evaporator's reliance on heat that would otherwise be expelled directly into the atmosphere.





Flameless Evaporators

Patent Pending

safe

no open flame required

self-contained unit

efficient

heat retrieved from compressor exhaust

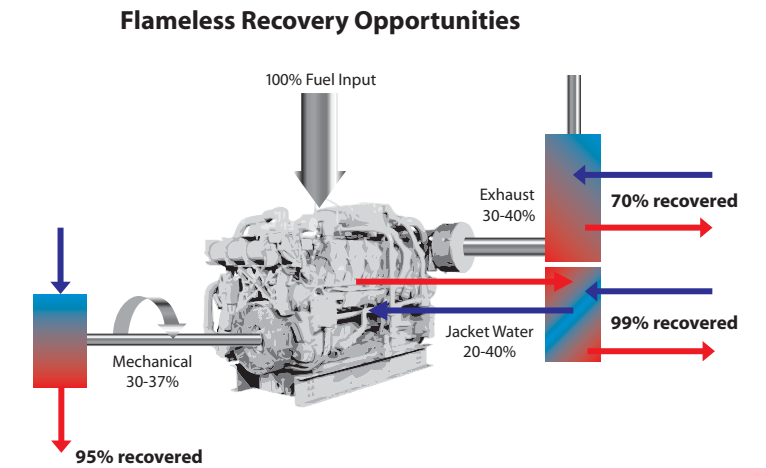
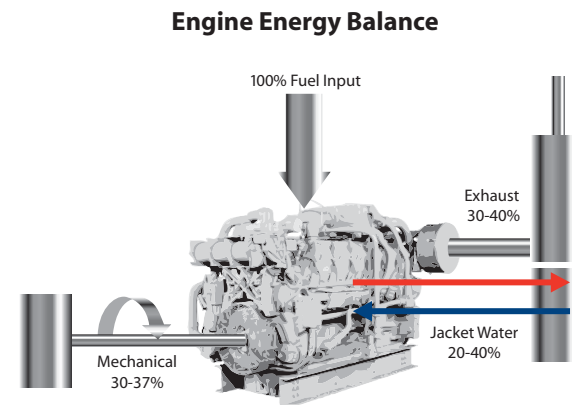
process water disposal costs dramatically reduced

clean

no uncontrolled combustion

air pollution considerably reduced

compared to open flame systems



Manufacturer	Model	HP	Usable Exhaust Energy [MMBTU/hr]
Caterpillar®	G3612	3,500	4.5
Caterpillar®	G3606	1,775	2.4
Caterpillar®	G3512	1,025	1.1

Numbers are based on third party technical data. Field numbers may vary.

The evaporation unit, powered by exhaust from a 100% loaded 1000 HP engine, is able to evaporate 7.5 m³ in 24 hours (47 US barrels).

Evaporator Specifications

Holding Capacity:

4.5 cubic meters double walled tank

Flow wetted parts:

stainless steel 316/metallized coating

Electrical:

ENTECLA (equal to C.S.A.)/UL Listed • Class 1 Div.2 CD T3.

Power to customer's specs.

Ancillary equipment:

Electronic pumps, air/gas driven pump, blower, oil skimmer, level controllers, level switches and PLC controller

Heat Transfer Efficiency 84%

