

Turnbull & Scott™
Trusted.

fabdec



Hot Water from Waste Heat sources

Heated water is used extensively in both commercial and industrial operations and we offer two distinct heat recovery solutions to heat water from flue gases, steam or process air and from refrigeration systems.

Recovering Waste Heat from Refrigeration Systems

Heating water from waste heat recovered from a refrigeration system is a great energy conservation measure for those who operate a chiller system and also have demand for hot water.

Refrigeration systems are used extensively in food and drink production and in hospitality and retail businesses to cool and store products and materials. Many of these very same operations often have a demand for hot water for general hygiene purposes, deep cleaning or for use elsewhere in their operations commonly supplied via a gas boiler.

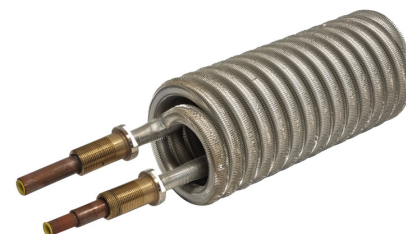
The SPAR-HEAT refrigeration heat recovery system, designed and manufactured by our supply partner Fabdec, is the ideal energy saving solution for those operations that have both a chilling and hot water requirement.

The SPAR-HEAT product:

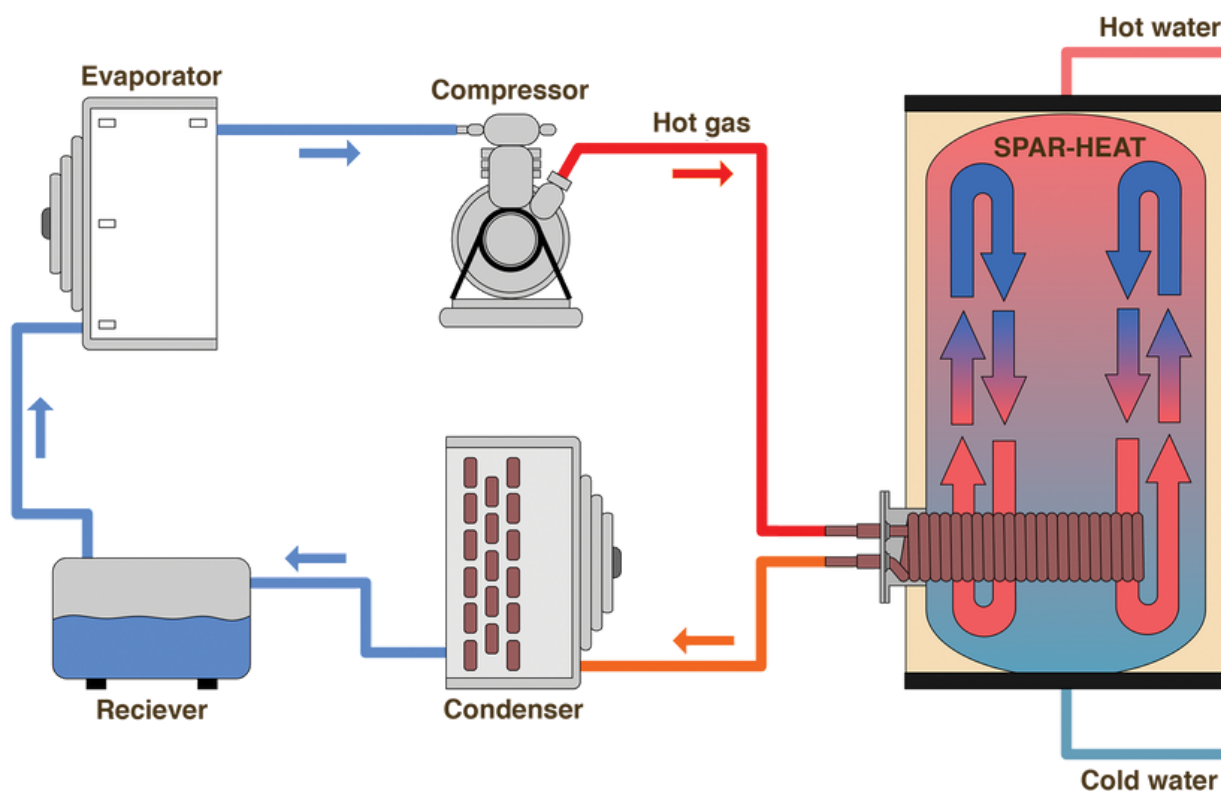
- Compatible with a wide range of refrigerants: R-404A, R-449A, R407F, R-407C, R-410A, R-452A, R-134A
- 130 -3000 litre hot water capacities
- Heats potable water up to 60°C
- Immersion bosses for boosting water temp up to 85°C
- Durable duplex stainless steel

The logo for SPAR-HEAT features the brand name in a bold, white, sans-serif font. The text is centered within a rectangular background that has a gradient from red at the top to orange at the bottom, with a subtle, abstract pattern of light-colored, flame-like or smoke-like shapes.

SPAR-HEAT is a durable stainless steel cylinder with double-walled spiral heat exchangers designed to recover waste heat from a refrigeration system in a safe and efficient manner, generating potable hot water at temperatures of up to 60°C. For those with a demand for hot water at temperatures above 60°C immersion bosses are in place for the installation of heater elements can to boost temperatures up to 85°C.



How SPAR-HEAT fits into the refrigeration circuit



Benefits for the customer

A typical restaurant cold-room with cooling capacity of 4kW will produce in excess of 5kW of waste heat which could generate up to 100L of hot water every hour by utilising heat recovery. That's a saving of just over £1.00 per hour if your water heater is currently electric, up to £4,000* a year of energy savings.

*Based on £0.30/KWh unit cost and 365days



Burnfoot Industrial Estate
Roxburghshire
Scotland, TD9 8SL

www.turnbull-scott.co.uk
+44 (0)1450 372 053