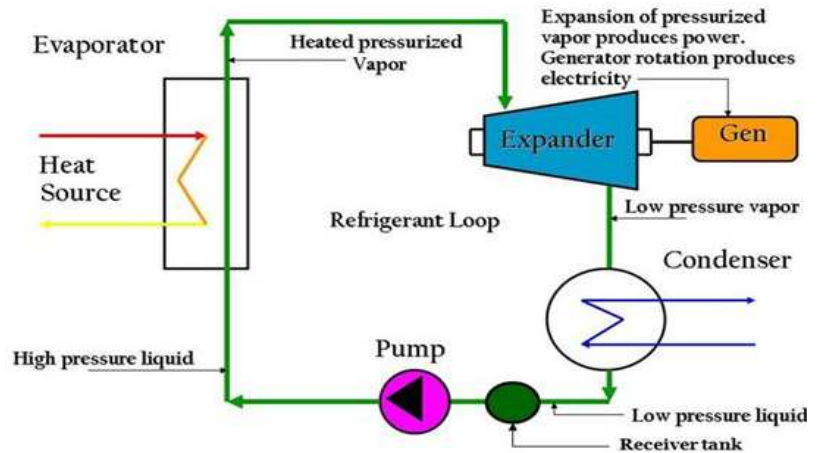


BEP 50 kW ORC powered by ELECTRA THERM™

Converting waste heat into **green energy** *Sustainable Energy Solutions*

Machine Technology

- Organic Rankine Cycle powers generator
- Use of ET's robust twin screw expander
- Skid mounted, plug-and-play installation
- Stainless Steel piping, CE-conform
- Low maintenance, good service
- Modular and scalable design
- Cost effective, economically viable
- Clean, emission free energy production



50 kW System - low waste heat temperature

Technical data		
Waste heat temperature	90 till 130 °C	
Electrical connection	400VAC ~ 50Hz	
Heating / cooling connections	4 x 3" flange	
Efficiencies	Expander	75%
	Generator	91%
	Overall	6 to 12%
Working fluid	Manufacturer	Honeywell
	Type	R245FA
	Charge	185 l
Dimensions	W x H x D [mm]	2300 x 1830 x 1525



Typical case - Hot liquid to Green energy

Electrical Output	Waste heat conditions			Condensing Conditions	
	Inlet T	Outlet T	Energy In	Inlet T	Condensing load
50 kWe	95 °C	80 °C	572 kW _{th}	20 °C	492 kWh _{th}
500 kWe	95 °C	80 °C	5.72 MW _{th}	20 °C	4.84 MWh _{th}

