



H2P[®]
Heat to Power engines



TECHNICAL DATASHEET H2P 2,5 to 20 kW_e

Generate electricity and useful thermal energy from industrial waste heat

What is waste heat ?

Waste heat is the residual thermal energy produced by industrial processes usually released into the environment

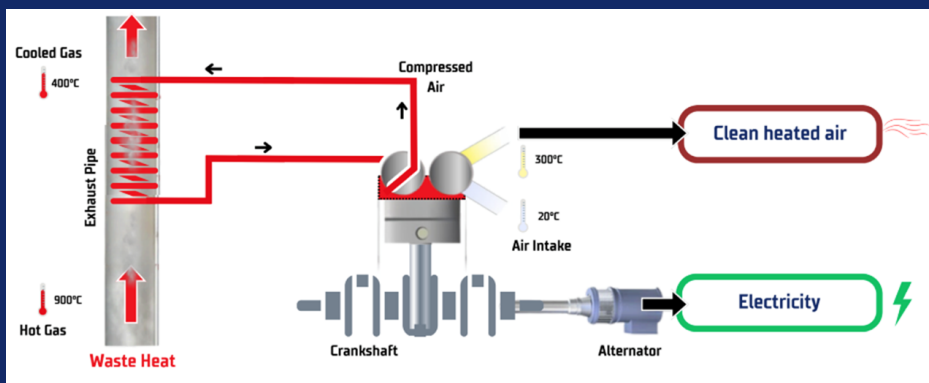
What is H2P ?

TURBOSOL is one of the turnkey solutions developed by HEVATECH to help industries lower their carbon footprint and energy costs.

Waste heat recovery is made through a heat exchanger heating an engine air circuit.

The H2P engine operates on a 4-strokes cycle and creates its mechanical energy from the expansion of heated air in the heat exchanger.

The residual heat recovered at the engine outlet can be utilized at temperatures up to 300°C.



Heat recovery potential: 600–1000°C

Possible uses of recovered energy :

Combined heat and power (CHP) generation to meet on-site energy needs (process integration, drying processes, facility heating...) or to supply nearby heating and cooling networks.



- **Operational reliability**
 - Working fluid: air only
 - Low pressure system
 - Rotational speed <1500 rpm
- **24/7 remote monitoring and control**
- **Power modularity: 2,5 kW_e to 20 kW_e**

Reduce your electricity and gas bills and your carbon footprint

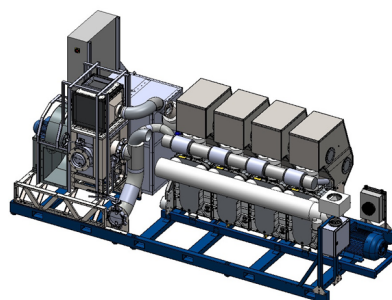
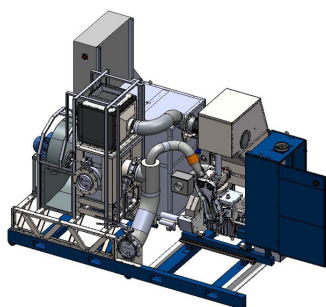




**Applications
visées**

H2P modules : product range & features

	H2P-2,5	H2P-5	H2P-10	H2P-15	H2P-20
Number of H2P modules	1	2	4	6	8
Net power output	2,5 kWe	5 kWe	10 kWe	15 kWe	20 kWe
Cogeneration thermal production	jusqu'à 33kWth d'air chaud à 350°C	jusqu'à 67kWth d'air chaud à 350°C	jusqu'à 135kWth d'air chaud à 350°C	jusqu'à 155kWth d'air chaud à 350°C	jusqu'à 270kWth d'air chaud à 350°C
H2P engine dimensions	1.20 x 0.90 x 2.30m	1.80 x 0.90 x 2.30m	3.00 x 0.90 x 2.30m	4.20 x 0.90 x 2.30m	5.40 x 0.90 x 2.30m
Waste heat source	From 60kWth, 600 to 1000°C	From 115kWth, 600 to 1000°C	From 230kWth, 600 to 1000°C	From 340kWth, 600 to 1000°C	From 450kWth, 600 to 1000°C
Work fluids	Ambiant Air				
System control	Schneider PLC (Siemens or other options available) Flexible communication protocols (EtherCAT, Profinet, etc.) 24/7 remote monitoringing				
Installation	Available for indoor installation or as a containerized system				
Standards	Machine Directive 2006/41/EG Pressure Equipments Directive 2014/68/EU Electrical norms 2014/35/EG, ...				



Prepare for future environmental norms



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