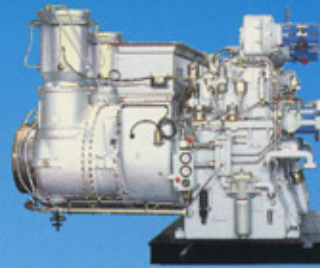


Kawasaki co-generation system



- High efficiency : electric 23%, overall 76%
- Dry low emissions : NOx 25ppmv, CO 60ppmv (O₂=15%)
- High reliability & easy maintenance

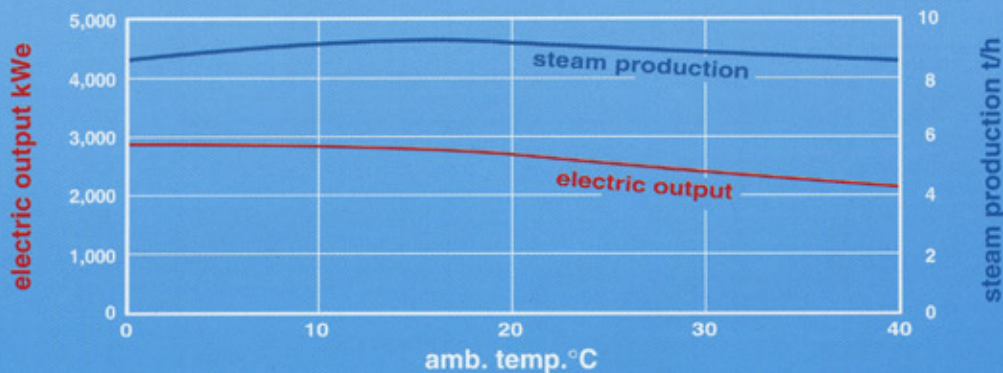


GPC-30 DLE
Electric Power 2.9MWe, Steam 9t/h, Dry Low Emissions

Kawasaki

CO-GENERATION SYSTEM

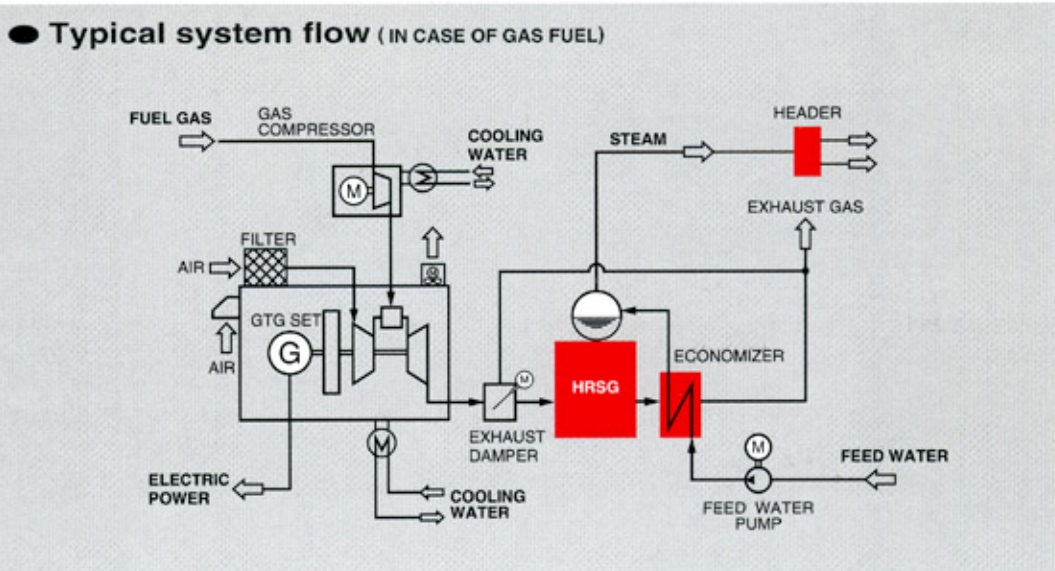
● Nominal Performance (Gas fuel)



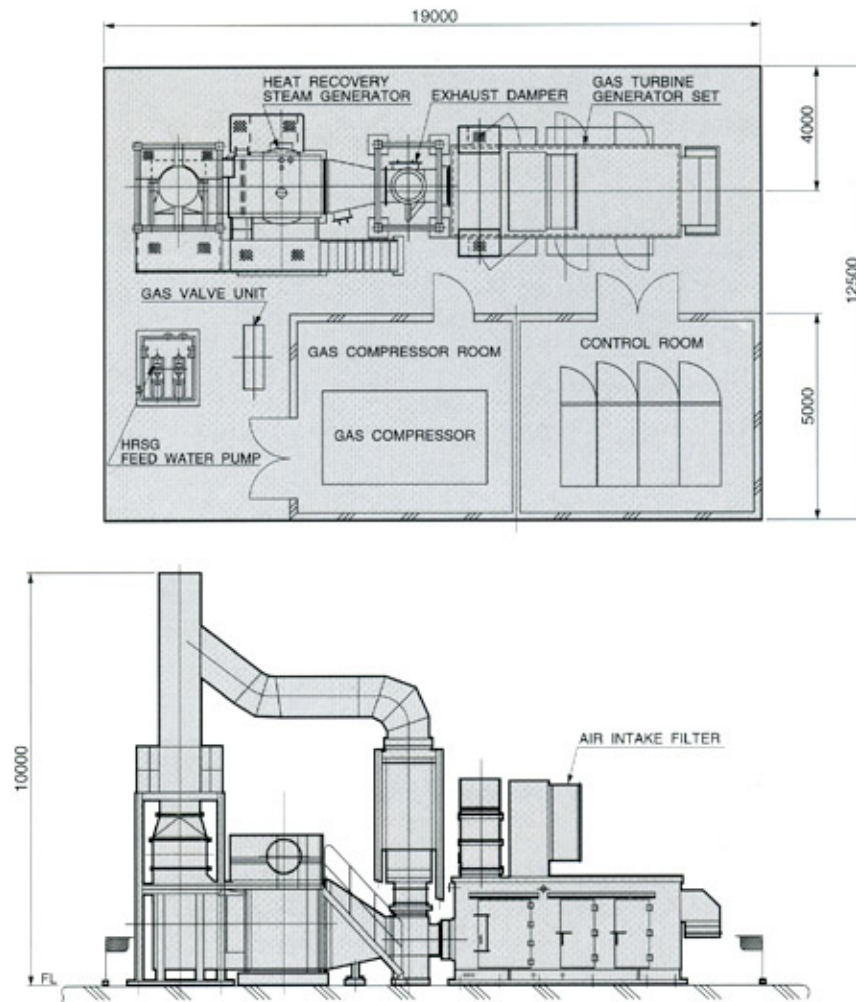
amb.temp. °C (°F)	electric output kWe	fuel consumption kJ/s	steam production t/h (kJ/s)	electrical efficiency %	heat recovery efficiency %	overall efficiency %
0 (32)	2,897	12,344	8.66 (6,062)	23.5	49.1	72.6
15 (59)	2,825	12,166	9.17 (6,421)	23.2	52.8	76.0
30 (86)	2,409	11,046	8.83 (6,185)	21.8	56.0	77.8
40 (104)	2,135	10,344	8.62 (6,035)	20.6	58.3	78.9

NOTE)

1. Natural gas (LHV=9,940 kcal/Nm³),
Gas pressure at the inlet of gas turbine : 1.42 MPaG
2. Sea level, Intake / Exhaust pressure loss : 100/250 mmAq
3. Generator efficiency : 95%
4. Feed water : 60 °C, Steam pressure / temp. : 0.93MPa abs. / saturated



● Typical layout (Unit:mm)



KAWASAKI HEAVY INDUSTRIES, LTD.
 Industrial Gas Turbine Division
 1-1, Kawasaki-cho, Akashi-city
 673-8666, Japan
 TEL: +81-78-921-1335
 FAX: +81-78-913-3344 / 923-3780

KAWASAKI GAS TURBINE EUROPE GmbH (KGE)
 Max-Planck-Strasse 21A
 61381 Friedrichsdorf, Germany
 TEL: +49-6172-7363-0
 FAX: +49-6172-7363-55