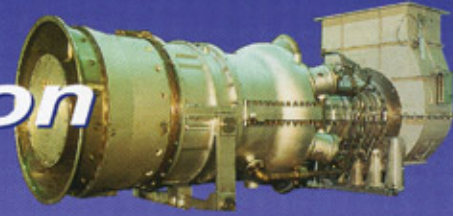


Kawasaki co-generation system

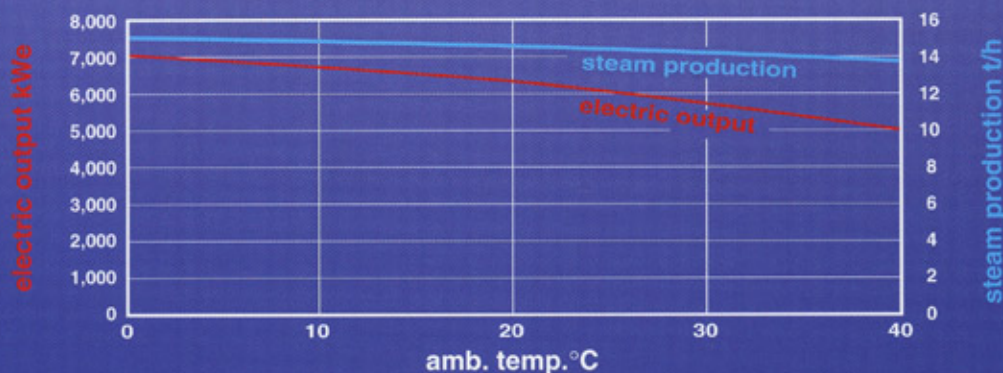


- High efficiency : electric 30%, overall 80%
- Dry low emissions : NOx 25ppmv, CO 50ppmv (O₂=15%)
- High reliability & easy maintenance



GPC70 DLE
Electric Power 7MWe, Steam 15t/h, Dry Low Emissions

● 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)	7,030	23,355	14.99 (10,498)	30.1	45.0	75.1
15 (59)	6,500	21,724	14.66 (10,267)	29.9	47.3	77.2
30 (86)	5,640	19,651	14.14 (9,903)	28.7	50.4	79.1
40 (104)	5,010	18,352	13.80 (9,665)	27.3	52.7	80.0

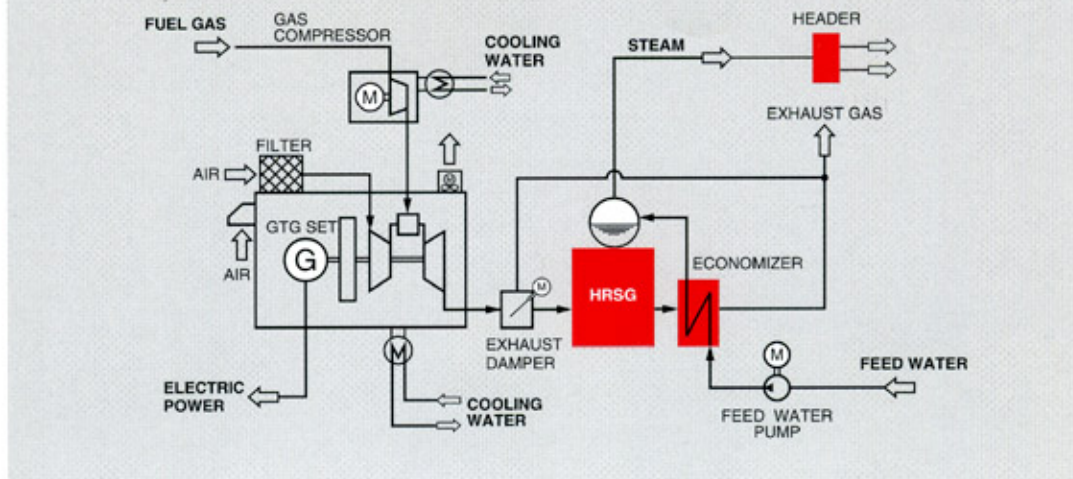
NOTE)

1. Natural gas (LHV=9,940 kcal/ Nm³),
Gas pressure at the inlet of gas turbine : 2.06MPaG
2. Sea level, Intake / Exhaust pressure loss : 100/350 mmAq
3. Generator efficiency : 97%
4. Feed water : 60 °C, Steam pressure / temp. : 0.93MPa abs. / saturated

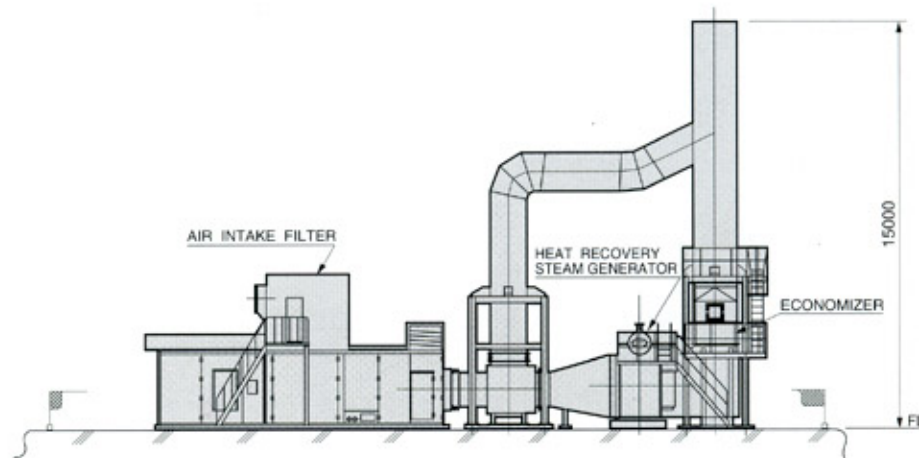
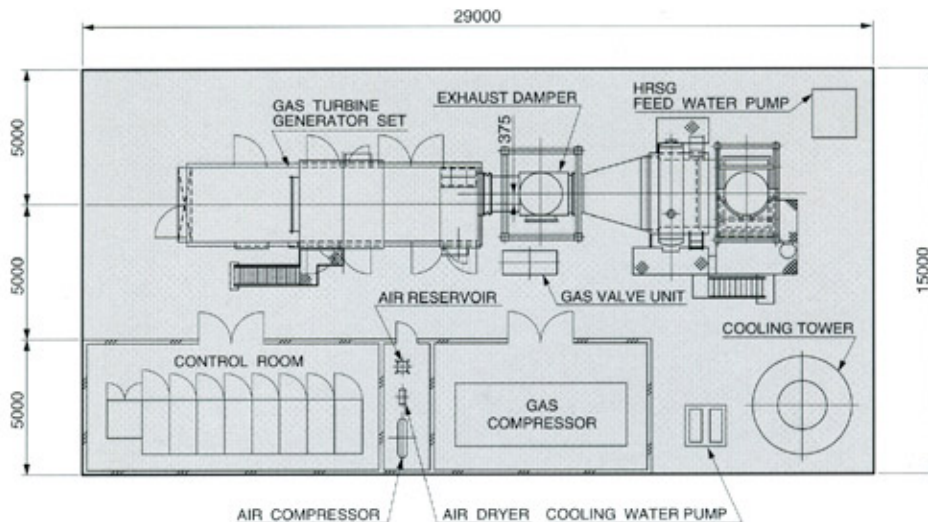
CO-GENERATION SYSTEM

Kawasaki

● Typical system flow (IN CASE OF GAS FUEL)



● 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