BluePower BP-200

smf Poland

BP-200 is a generating set three-phase AC generator with parameters adapted to the needs of users. The team shall, high-speed, synchronous AC generator and turbine compressor drive motor having axial-radial combustion chamber connected to a compressed air cylinder and radial-axial turbine.

Turbogenerator BP-200 may be configured in a cogeneration system with an external heat exchanger membrane, in which the exhaust gas heats the turbogenerator any technological medium, such as. water.

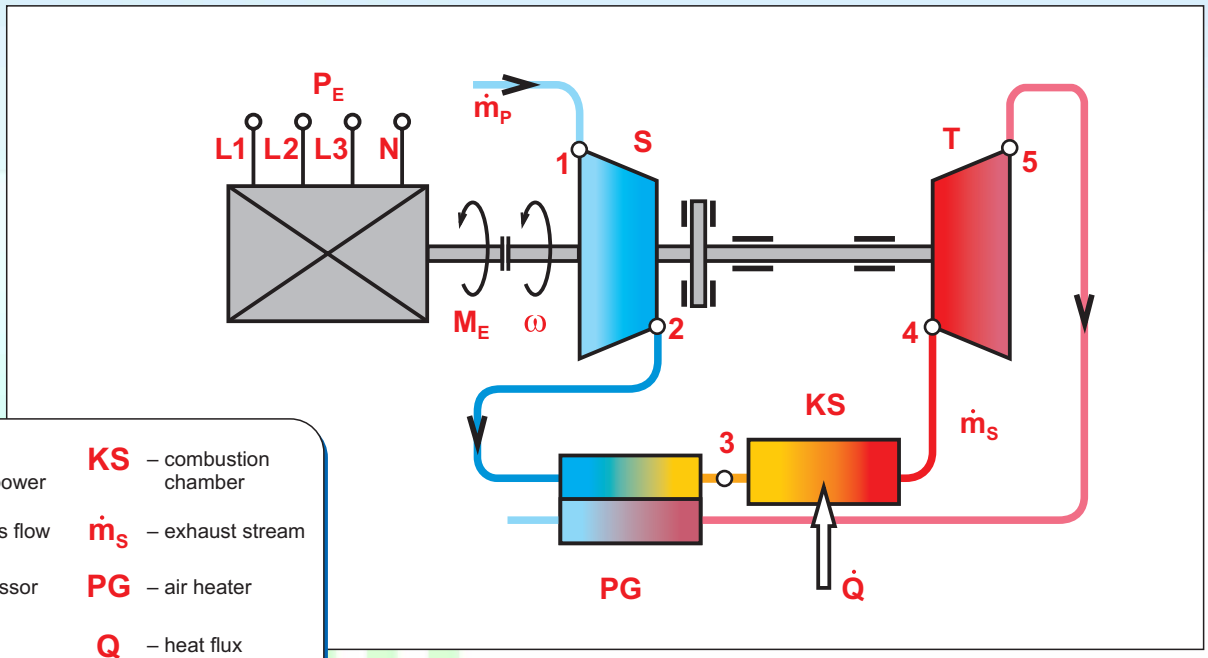
BENEFITS:

- Simple construction
- Small weight and dimensions
- Steady power transfer
- Simple lubrication system
- Low cost of ownership
- Easy electrical installation and starting
- Reliability operation
- Durability
- No break-in period
- Optimized operation in low temperature range
- Very low the exhaust emissions

TURBOGENERATOR

Turbogenerator has become an important feature of the utility providing a source of electrical current in areas with no access to the electricity grid. It can also be used as a power source in case of a network failure, eg. In hospitals, factories, etc. continuous production. In addition, the possibility of using waste heat provides benefits in the form of savings due to lower costs for the use of energy.

SCHEME OF OF THE TURBOGENERATOR



P_E – current active power
KS – combustion chamber
$\dot{m}_P$ – air mass flow
$\dot{m}_S$ – exhaust stream
S – compressor
PG – air heater
T – turbine
Q – heat flux

POSSIBILITY OF USING:

1. Stationary source of the electrical current (housing estates, villages);
2. Emergency source of electrical current (hospitals, banks, computer centers, stock exchanges, areas affected by natural disasters);
3. The peak generators (power plants).

TECHNICAL PARAMETERS	
Power installed	65 kW (+/– 5kW)
Working range	400V, three-phase (max.40A)
Exhaust temperature	271˚C
Total energy of exhaust	275 000 kJ
Noise level	65dB @ 10m
Electrical performance	26,5 % *(comparizon with gas)
NOx	< 9ppmV
Fuel	Natural gas
Dimensions (L×W×H)	2190×1110×2050 mm