

## ECLA EUROPEAN CLASSIFICATION

**F02G** **HOT GAS OR COMBUSTION-PRODUCT POSITIVE-DISPLACEMENT ENGINE PLANTS** (steam engine plants, special vapour plants, plants operating on either hot gas or combustion-product gases together with other fluid [F01K](#); gas-turbine plants [F02C](#); jet-propulsion plants [F02K](#)); **USE OF WASTE HEAT OF COMBUSTION ENGINES; NOT OTHERWISE PROVIDED FOR**

### Note

Attention is drawn to the notes preceding class [F01](#).

**F02G1/00** **Hot gas positive-displacement engine plants** (positive-displacement engine plants characterised by the working gas being generated by combustion in the plant [F02G3/00](#))

- F02G1/02 . of open-cycle type
- F02G1/04 . of closed-cycle type
- F02G1/043 . . the engine being operated by expansion and contraction of a mass of working gas which is heated and cooled in one of a plurality of constantly communicating expansible chambers, e.g. Stirling cycle type engine
  - F02G1/043F . . . [N: the engine being of the free piston type] [N9707]
  - F02G1/044 . . . having at least two working members, e.g. pistons, delivering power output
  - F02G1/044V . . . . [N: Engine plants with combined cycles, e.g. Vuilleumier] [N9702]
  - F02G1/045 . . . Controlling
    - F02G1/047 . . . . by varying the heating or cooling
    - F02G1/05 . . . . by varying the rate of flow or quantity of the working gas
    - F02G1/053 . . . Component parts or details
      - F02G1/053S . . . . [N: Seals or sealing arrangements] [N9707]
      - F02G1/055 . . . . Heaters or coolers
      - F02G1/057 . . . . Regenerators
  - F02G1/06 . Controlling

**F02G3/00** **Positive-displacement engine plants characterised by the working gas being generated by combustion in the plant**

- F02G3/02 . with reciprocating-piston engines

**F02G5/00** **Profiting from waste heat of combustion engines, not otherwise provided for**

- F02G5/02 . Profiting from waste heat of exhaust gases
  - F02G5/04 . . in combination with other waste heat from combustion engines