



## Vacuum magnetodynamic plant for casting applying low combined pressure

### Purpose of the plant

- ✓ Preparation of alloys with melt down of component and simultaneous electromagnetic mixing of alloy.
- ✓ Heating and thermal regulation of liquid alloys with its electromagnetic mixing
- ✓ Vacuum refining of liquid with its electromagnetic mixing.
- ✓ Inoculation of alloys its electromagnetic mixing
- ✓ Regulated program pouring of alloy in mould at influence of electromagnetic pressure.
- ✓ Crystallization of casting with combined influence of electromagnetic and pneumatic pressure for crystallized alloys.
- ✓ Thermal regulation of liquid alloy in crucible during the crystallization of casting.



### Specifications

Useful capacity of crucible, kg - 400

Output during casting (metal consumption) kg/s, not less that - 6

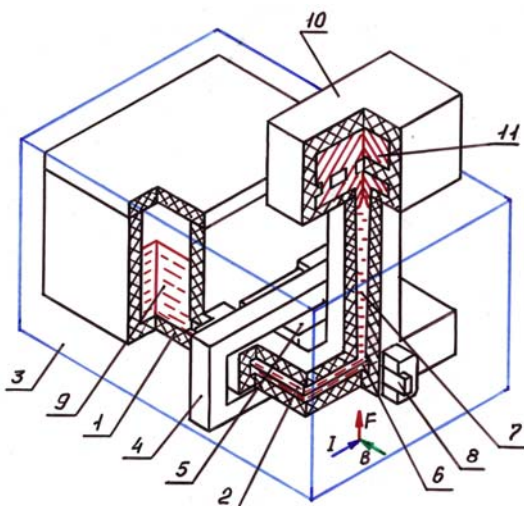
Maximum metal temperature, °C - 750

Power of electromagnetic system under conditions of thermal regulation, kVa - 13

Working vacuum, kPa (mm. mercure column) - 0,133 (1)

Maximum working pneumatic pressure kPa (kg/cm<sup>2</sup>) - 50 (0,5)

Maximum electromagnetic pressure, kPa (kg/mm<sup>2</sup>) - 20 (0,2)



The plant is furnished with processor for control and regulation of parameters of technological processor.

### Construction of device:

1 - crucible; 2 - horizontal ring channel; 3 - chamber; 4 - magnetic circuit of inductor; 5 - inductor coil; 6 - working zone; 7 - metal conductor; 8 - field of electromagnetic effect; 9 - liquid melt; 10 - crystallizer; 11 - solidified castings

**Please forward your proposals and suggestions to:**

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