



Plant for carbon dioxide gas feeding "MINI".

Plant "MINI" is designed for small consumers of carbon dioxide gas: non-alcoholic beverage filling lines with low capacity: medium or strongly sparkling drinks up to 3000 bottles/hour with volume of 1.5 liters, beer, equipment for bubbly chocolate production, etc.

Plant "MINI" consists of rotating device with sufficient place for **eight 40-liter cylinders, heater, gearbox for carbon dioxide gas, and automation system.**

During plant operation, gas from cylinders enters heater to avoid gearbox freezing while gas throttling through it.

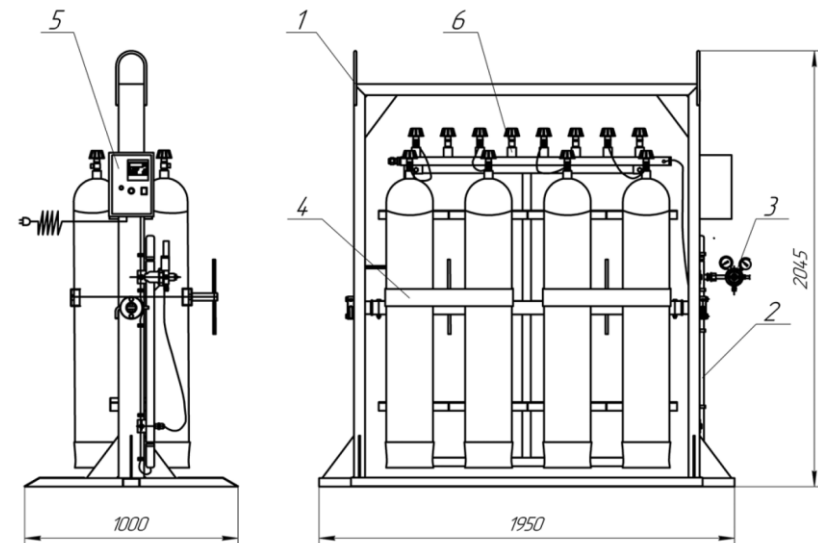
Tubular electric heating element is used as a heater.

Control signals on actuation/shutdown of tubular electric heating element are sent from control unit to maintain **constant gas temperature at the outlet** while monitoring temperature sensor readings.

If carbon dioxide gas flow is 25 kg/h, **continuous operation period** of the plant will be **8 hours**. The plant control unit includes pressure monitoring system in bottle battery and system of alarming about this pressure decrease down to allowable value while notifying about soon discharge of cylinders.

To resume gas feeding, it is necessary to replace empty cylinders with full ones. Duration of this operation is not more than 30 minutes.

Guaranteed service life is 1 year.



Plant for carbon dioxide gas feeding "MINI". Dimensional drawing.

1 - Frame, 2 - Evaporator, 3 - Carbon dioxide gearbox, 4 - Rotating device, 5 - Control unit, 6 - Gas collecting main.

Technical characteristics

Capacity, kg/h	Up to 30
Number of cylinders arranged, pcs.	8
Cylinder type	High pressure cylinders with capacity of 40 L, GOST 949-73
Consumed power, kW	Not more than 2.5
Power – industrial network	220 V, 50 Hz
Peak pressure in front of gearbox, kgf/cm ²	150
Peak pressure behind gearbox, kgf/cm ²	8
Gas temperature at the outlet, °C	Up to +15
Ambient temperature, °C	+5 ... +40
Overall dimensions (without cylinders), mm	Not more than 2000 x 1000 x 2050 (h)
Weight without cylinders, kg	Not more than 200