

# Helium cryostats OMBBC-He5 and OMBBC-He10



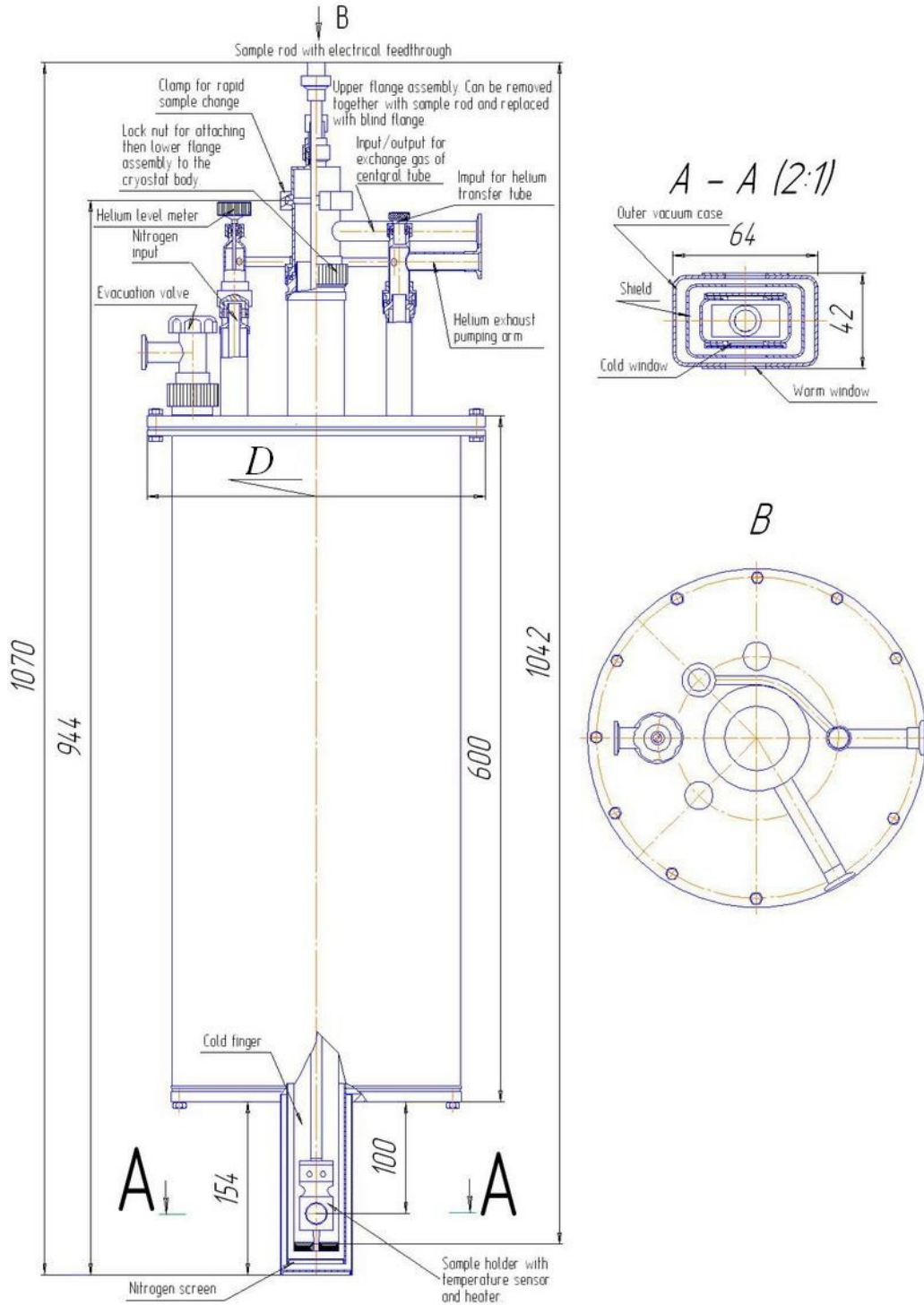
Helium cryostats are intended for optical and mossbauer investigations in the temperature range 4,2 – 300 K. Sample cooling is realized by means of heat exchange between working cell and cryogenic reservoir. Temperature regulation and control are made by using the chain consisting of a heater and a temperature sensor. Horizontal windows are setted in the bottom of the cryostat. For mossbauer measurements, the cryostat can be provided with mylar windows. For optical measurements, windows are made from a transparent to necessary wavelength material.

## Specifications:

|   | <b>OMBBC-He5</b> | <b>OMBBC-He10</b> |
|---|------------------|-------------------|
| - volume of the helium reservoir, dm <sup>3</sup>   | 5,1              | 10                |
| - volume of the nitrogen reservoir, dm <sup>3</sup> | 8,4              | 17                |
| - duration of the liquid helium keeping, honors     | 36               | 72                |
| - duration of the liquid nitrogen keeping, honors   | 60               | 90                |
| - internal section of the working cell, mm          | 18x38            | 18x38             |
| - warm windows diameter, mm                         | 18               | 18                |
| - cool windows diameter, mm                         | 16               | 16                |
| - diameter of top flange D, mm                      | 300              | 400*              |

\*in case of need volume of the helium reservoir 10 dm<sup>3</sup> can be created by means of cryostat height change at D=300 mm.

# Construction of helium cryostat



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