



## Low-temperature Device 670.4

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Flat powder samples can be investigated at temperatures between approximately 12 to 350 K. Similar to the standard Sample Holder 670.1, the powder is held between two mylar foils.

The complete geometry of the cooling head is designed for a transmission angle of  $45^\circ$ . The sample is enclosed in a cooled Cu-block, which is in turn surrounded by two cooling shields. The sample is oscillated by a rotating bar magnet located outside the cryostat housing.

An air-cooled compressor supplies the closed cycle He-cooling system. The temperature is controlled by Si-diodes and a heating element in the cooling head.

The regulating system is controlled by a PC and RS232/IEEE488. It is supplied with a complete vacuum pump system and all necessary equipment.

