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C3Po1G-06 [42]: Overview of the distribution system of the SHINE cryogenic test facility

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The Shanghai high repetition rate XFEL and Extreme light facility (SHINE) cryogenic test facility main consists of 11 test cryostats, a 1 kW@2K cold box, and the distribution system. This paper provides an overview of the distribution system which includes 11 distribution valve boxes, 2 end valve boxes, and several hundred meters cryogenic transfer line. According to requirements of the 11 end users, the 11 distribution valves boxes are divided into 5 types. The major transfer lines are 5-channel cryogenic pipe lines, based on the design of cold boxes. The operating model of the distribution system is also introduced.

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