

High temperature molten salt pump for solar power generation

Overview. Currently, there is a major effort to operate Concentrated Solar Power (CSP) plants at peak temperatures above 700 °C. In this temperature range, supercritical CO₂ (SCO₂) cycles are slated to reach ~50% efficiency, which is ...

At the University of Wisconsin, alongside a FLiBe natural circulation loop (Britsch et al., 2019), a high-temperature molten salt flow loop with 316 stainless steel tubing was constructed, ...

The high-temperature molten salt pump (MSP) is the core equipment of the thermal storage system for concentrating solar power plants, which circulates the molten salt of the thermal storage medium.

FASTR is a versatile high-temperature molten chloride salt facility designed for temperatures greater than 700°C and for a variety of testing in support of the Gen3 CSP molten salt pathway. FASTR and the accompanying research will ...

Molten salt circulation pumps circulate the primary heat transfer fluid (molten salt) through the solar receiver to heat it up and to either feed the solar steam generator, store the energy during the high sun radiation hours (cold salt ...

Since completion of the Solar Two molten-salt power tower demonstration in 1999, the solar industry has been developing initial commercial-scale projects that are 3 to 14 ...

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Tobee ® TY100-250 High Temperature Vertical Molten Salt Pump with 1.5m submerged length is ready for shipping. This Molten Salt Pump is made from heat resisting cast steel, The Molten Salt is Pottassium nitrate + ...



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