

NEOMETRIX

Argon Heating and Cooling System

About-

This system is part of IFTM sodium testing at Engineering Hall – III in LCTR loop of FRTG, IGCAR. The operation of Argon heating and cooling system is at 200° C for heating the IFTM parts to 150° C and at 45° C for cooling the IFTM seals. The argon heating system is used to heat the IFTM parts by recirculation of hot argon at 200°C which ensures no solid sodium is present on the rails of the Rotatable Shield Leg (RSL) and shaft of the chain sprocket. The argon cooling system is used to cool the components like inflatable seal, seal of the sprocket shaft to a temperature of less than 45° C.



Neometrix Engineering Private Limited

E-148, Sector-63, Noida India 201301

Email – contact@neometrixgroup.com, Contact No.- +91-0120-4500800, 7777-876-876

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Technical Specification-

Buffer Tank: 3 m³ & 2 m³

Hot Argon Vessel: 12.5 kW

Cooler: 8 kW & 1 kW

Blower (Shaft Sealing arrangement): 280, 2650, 65, 650 m³/hr

Differential Pressure Gauge: 0-100.0-150



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Application-

This machine is used to Research



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Key Features-

1. Process Connection,Cylinder Volume, Cylinder Pressure Available for Piping (line Pressure available to connect System)
2. Flow Rate-65m³/hr Metal Tube Rotameter is not Specified.It is required in Cooling System



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