

# Raychem MI Series Heating Systems (IEC / ATEX)



Raychem Mineral Insulated (MI) heating units have a robust and globally unified design. They come with the best possible protection against moisture and corrosion, and are ATEX/IECEx approved for hazardous area. Optimal system design is easy with Raychem TraceCalc Pro software, which includes the possibility to design with SSR power modulation.

### Construction

#### Power connection

- Extreme moisture resistant pot seal for the harshest ambient conditions
- 300 mm flexible tails with stranded conductors to prevent breaking during repeated manipulation
- Ni-plated brass gland for maximum corrosion protection and M25 size for all variants

#### Heating cable

- Single core or dual core (reducing cable runs - easier to install)

HCC/HCH	Copper
HDF/HDC	Cupro-nickel
HSQ	Stainless steel
HAX	Alloy 825
HIQ	Inconel

- Various sheath material options, depending on application and environment

#### Cold lead + Circuit tag


- Alloy 825 sheath material as standard to ensure max. corrosion protection at exposed parts
- 1.2 m cold lead and 30 cm pigtails for easy connection to power supply
- Stainless steel tag plate, with all approvals info

#### End cap

- Laser-welded or brazed design, fit for purpose

#### Cold/Hot joint

- Laser-welded or brazed design, fit for purpose
- Conical "bell mouth" to eliminate bending stress at weld







### Control and Monitoring – Maximize plant productivity and energy efficiency

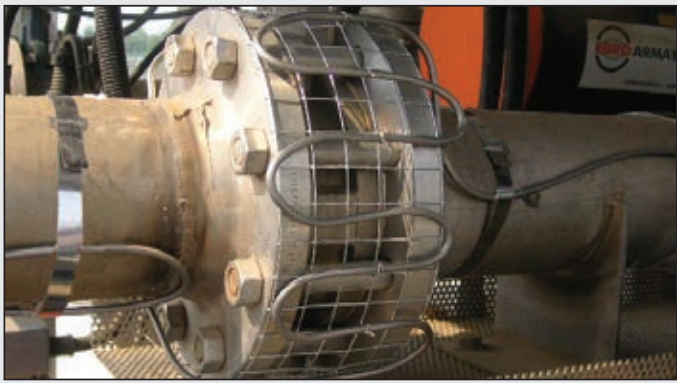
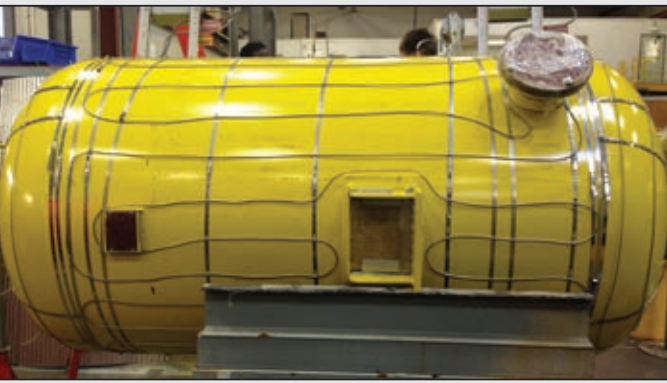
- From simple thermostats to advanced electronic control & monitoring, we offer energy efficient solutions that fit your needs.
- Data integration into your process control system and real-time monitoring of circuit status and integrity give you full visibility, enabling preventive maintenance and minimizing risk and downtime of your plant.



### Complete and proven system

- Designed with TraceCalc Pro, a design software based on decades of heat tracing engineering experience.
- Brazed design up to 550°C, laser-welded design for higher temperatures / higher loads to cover any application
- Compliant with international standards.
- Hazardous area system approvals, eliminating any risk assessment by customers.
- 10 year product warranty extension for complete peace of mind.





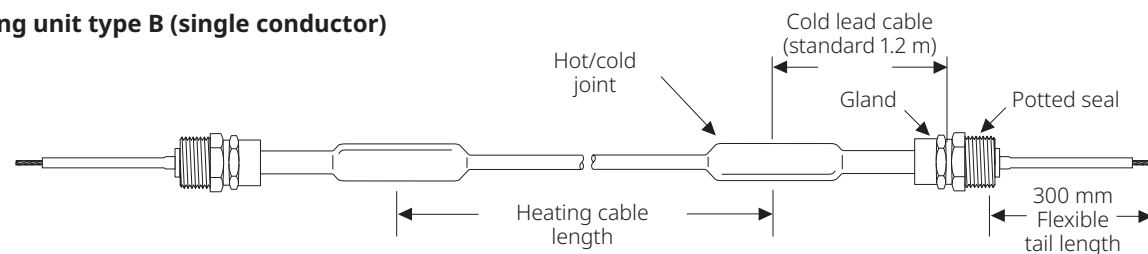
## From the inventor of self-regulating heating technology



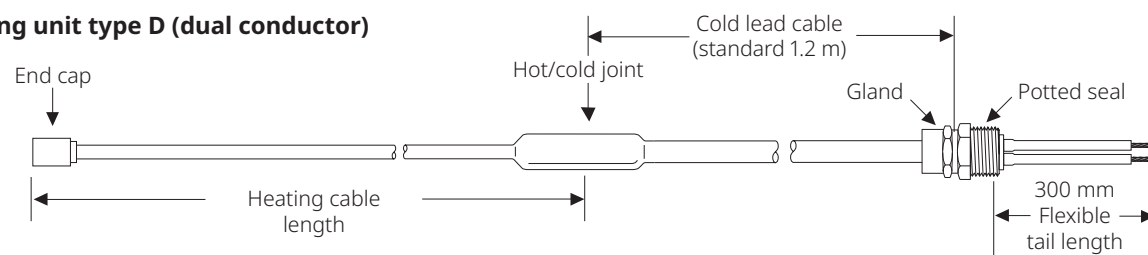
- **Global leader in electric heat tracing**, with wide range of heating cables and technologies
- **75Y** expertise in polymer material science
- **50Y+** in self-regulating technology
- **1.8 Billion ft/ 600.000 km** cable sold since 1972

## Heating unit configurations

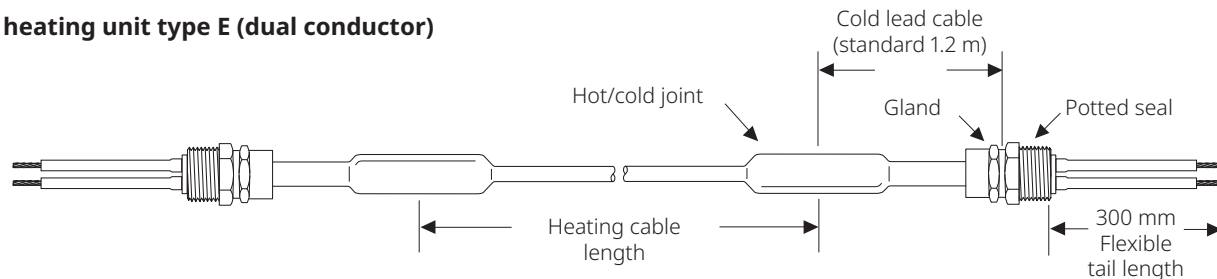
MI heating unit type B (single conductor)



MI heating unit type D (dual conductor)



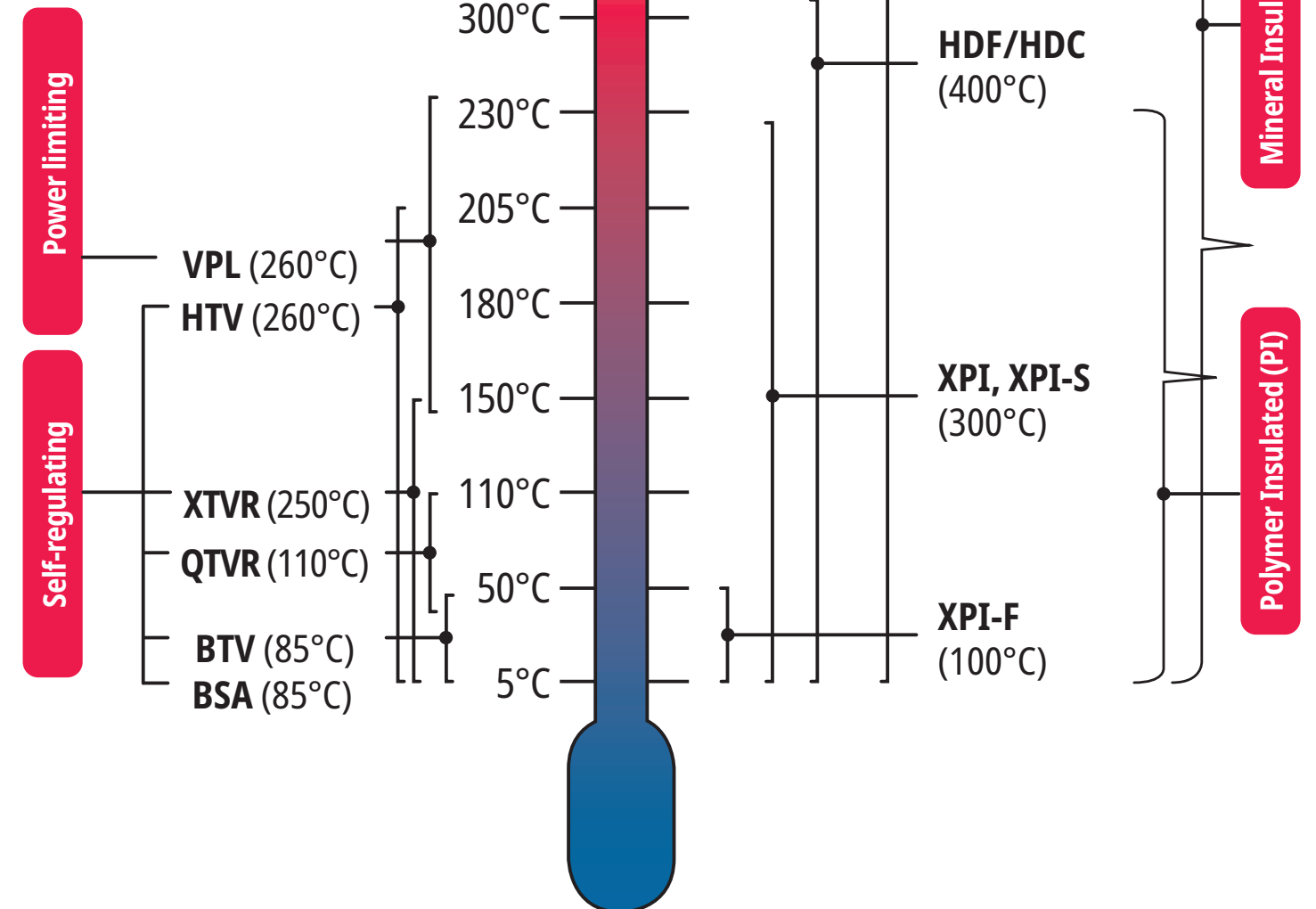
MI heating unit type E (dual conductor)



## Typical continuous operating temperature

Parallel heating cable  
(max. exposure T)

Series heating cable  
(max. exposure T)



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