

CSN® Ex flow heater type 912Ex

DESCRIPTION

Our CSN® Ex flow heaters are designed for outputs of up to 500 kW and are ideal for heating liquid and gaseous media. These electric instantaneous water heaters are specially designed for use in potentially explosive environments and provide a reliable and efficient heat source. Thanks to their integrated temperature monitoring, you can precisely control the operating temperature and thus ensure a safe working environment.



PRODUCT BENEFITS

- Mining approval (device group I)
- Type of protection Ex d
- Version with replaceable heating elements possible
- Integrated temperature monitoring
- Extremely robust design

TECHNISCHE DATEN

Authorisation Zone I, additionally mining (equipment group

I)

Certification ATEX
Temperature class TI to T6

Ambient temperature range Standard -20°C to +40°C

Power (kW) up to 500 Voltage (V) up to 1000

Protection class IP 54

Medium Liquid and gaseous

Process data Medium, pressure and temperature

according to specification

Housing / inlet and outlet nozzles Flange connections and other

Heating elements Tubular radiators

Cartridge radiators

High-performance cartridge heaters

Housing materials Steel;

1.4404 (AISI 316L); 1.4541 (AISI 32I); 1.457I

(AISI 316 Ti)

Heating element materials Steel;

1.4404 (AISI 316L); 1.4541 (AISI 321); 1.4571

(AISI 316 Ti);

1.4876 (Incoloy 800); 2.4858 (Incoloy 825)

Material of connection cover Steel (painted)

Installation length of heating elements 300 - 3500 for tubular radiators

(mm) up to 6000 for cartridge radiators

up to 7000 for high-performance cartridge

radiators

Temperature monitoring (version via PTI00 internal (standard)

intrinsically safe circuits (Ex i))

Internal thermocouple (optional)

External temperature controller (optional)

External temperature limiter (optional)

Execution 912F = for liquids

912GB = for gases, Ex zone on heating

element

912GN = for gases, no Ex zone on the heating

element

Customised versions on request

Durchlauferhitzer Typ 9I2EX



