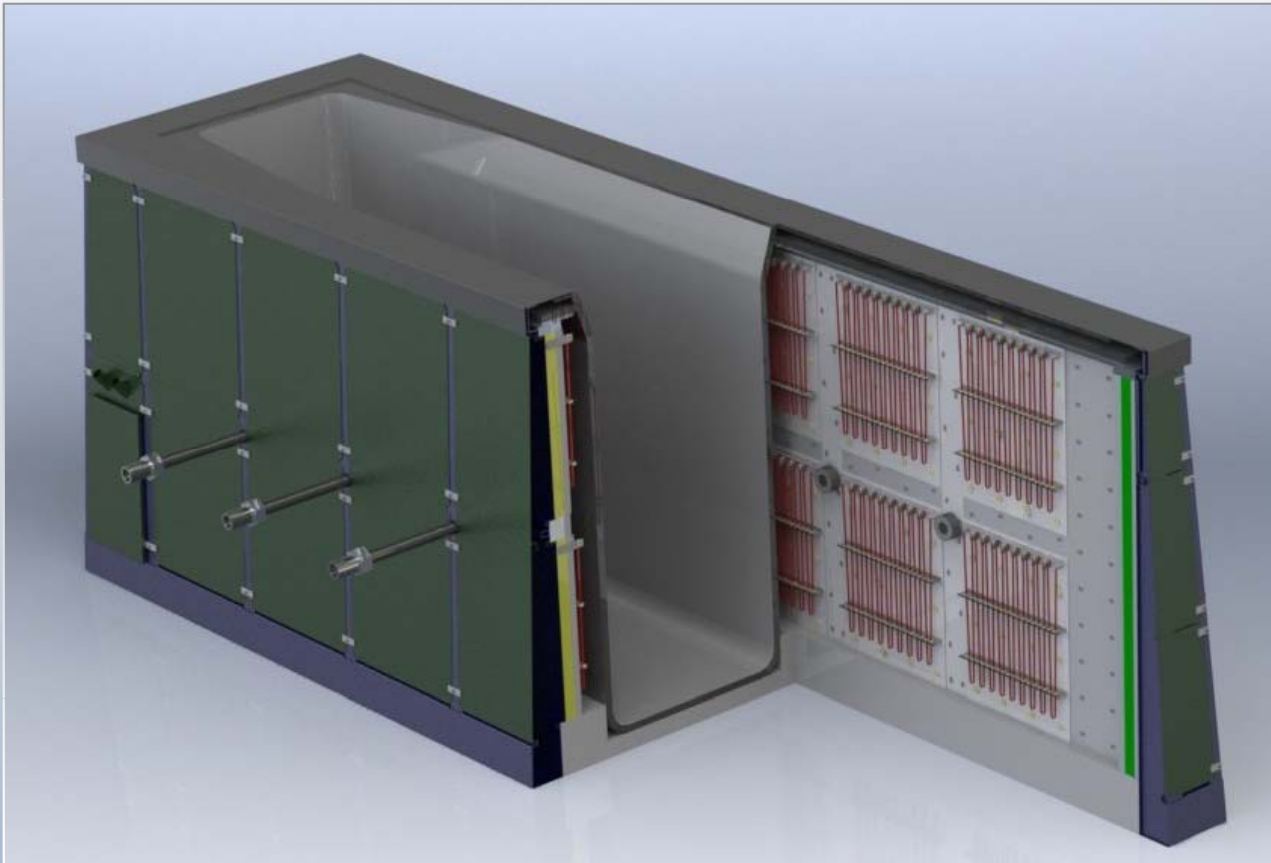




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Electric Resistance Heated Galvanizing Furnace with Radiant Wall



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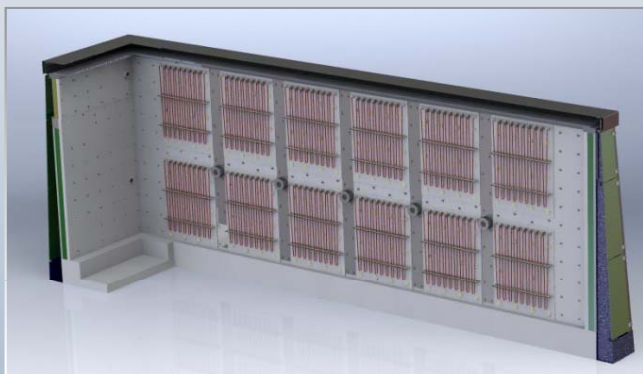
● Removable heating elements

The kettle is heated through a system of separate panels with ribbon heating elements from Cr20Ni80 alloy.

There is one connection terminal only for each panel. The panels can be removed separately for service without much interruption of production.

● Radiant wall with no danger of hot spots

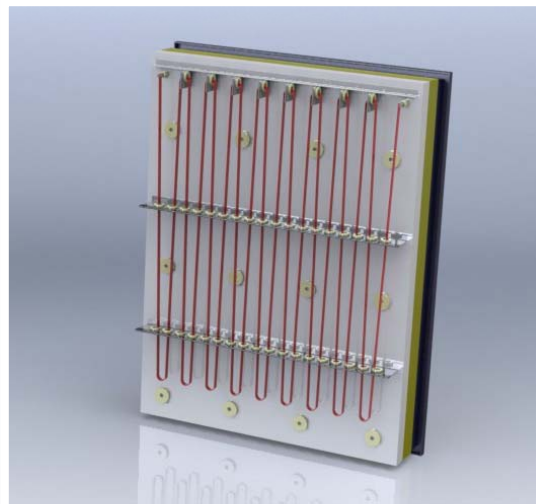
The system of heating panels creates a radiant wall against the kettle. It is therefore no danger of hot spots due to uneven energy loading on the kettle walls, and optimal conditions for extended life of the kettle is obtained.



● Minimum heat losses and high efficiency

The furnace is lined with high temperature ceramic fibre wall, thus heat losses from the outer furnace walls are very low.

The kettle top flange is also insulated in order to reduce heat emission from flange surface. Electric resistance heating results in high thermal efficiency.



There is no energy loss due to cooling equipment as with induction heating and no flue gas heat loss as with combustion heating.

● Furnace and kettle as separate units

The furnace is constructed as a separate unit. The steel kettle can therefore be lifted out without removing the heating system or furnace walls.

● Temperature control on kettle wall

The temperature control is through indirect measurement of the zinc temperature.

● Two zone temperature control

The heating system can easily be divided in two zones, upper and lower zone. This can reduce possible top dross problems.

● Safety features

The control is through a PLC with a GSM modem or internet. There are separate controllers for temperature protection and a Zinc leakage warning system