



THE  
**SAFETY SHOWER**  
PEOPLE

# Case Study

## *Corrosive Environment*

### SAFETY SHOWER SOLUTION

Safety showers are an essential piece of safety equipment in chemical processing plants. In particularly harsh environments, in order to ensure they fulfil their role to protect staff, the showers themselves need to be robust enough to withstand the chemicals they may come into contact with. Often, there are other issues the client may not have foreseen to deal with too.

#### ► THE PROBLEM

A chemical processing client needed a large number of tank showers for both indoor and outdoor use in a low temperature environment. The corrosive nature of the environment meant, however, that no brass or copper materials or fittings were permitted. In addition, the showers needed to have a particular flow rate which was not standard for the size of tank shower required. They also wanted to reduce legionella risk and thus maintenance time. They had approached a number of safety shower suppliers but none were able to supply a solution which fully met their requirements.

#### ► THE SOLUTION

The entire SSP range is based on high-quality stainless steel showers. The frame, tank, side panels, fittings and valves are all made from high quality, durable stainless steel so there were no difficulties around brass or copper fittings. While the client had requested 300L tank showers, however, the 90l/min flow rate required was higher than standard. In addition, we advised that, as some showers were required to be positioned on mezzanine floors, tank showers would be heavy.

SSP suggested heated showers as an alternative to tank showers. As well as being fully stainless steel, we were able to supply a 300L version which had the necessary 90 l/min flow rate. These plumbed-in showers were also suitable for outdoor use as a water supply was available and we were able to supply frost-protected versions. As they do not have to support a heavy tank, they are also physically smaller. Finally, the fact that these were not tank showers meant legionella was not a risk factor so maintenance was reduced.



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#### ► CHALLENGES

- Corrosive environment
- No brass/copper
- Low temperature environment
- High flow rate
- Low maintenance

#### ► THE PRODUCT

- Heated showers with local tempered water, as an alternative to tank showers
- Material frame, side panels, piping and tank: stainless steel
- 3kw bath heaters
- Volume flow 35/90 l/min
- 300L

