

Salt Recovery Unit Type SRU for the recovery of quenching salts

Our Salt Recovery Units (SRU) are specifically designed for the recovery of quench salts for application in heat treatment shops. The SRU is energy-efficient, operates with low maintenance and can be easily integrated into fully-automated lines if required. The remarkable thing about our SRU's unique process is that it not only recovers the quench salt from the washing water, but also cleans it during the recovery process and eliminates most carbonates and other impurities.

Characteristics of the SRU

- Recovery of 100 % water free clean quench salt
- Carbonates and other impurities are removed from the salt and collected in the SRU
- Washing water is cleaned and is nearly salt free

Costs Savings and Environmental Advantages

- Eliminates the disposal costs for contaminated waste water
- Recovered Salt is reusable for quenching reducing raw material cost
- Condensate or water recovered is environmentally clean and reusable
- Extremely low energy consumption due to heat recovery system
- No air pollution

Maintenance

- Easy to clean through front door open access
- All parts that are in contact with media made of stainless steel
- Continuous free flow of quench salt, no special pump needed

Operation and Installation

- Fully automated 24/7 continuous treatment
- Can be integrated into continuous working heat treatment systems or offline
- Delivery of fully tested units, ready for connection



Standard sizes

- SRU 35 with recovery capacity of 35 l/h brine
- SRU 50 with recovery capacity of 50 l/h brine
- SRU 80 with recovery capacity of 80 l/h brine

Recovery Options

Depending on the selected options, there are different ways to retrieve the quench salt which is recovered from the washing water:

- Liquid salt – discharge into collecting tray located under the SRU
- Liquid salt – redirection directly into the quenching bath
- Dry salt – collected in a tray

Further Optional Accessories

- Heated discharge pipe for liquid redirection into the quenching bath
- Dry discharge system
- Enhanced condensate tank with condensate pump
- Salt collecting trays
- Door-switches to switch off the heating when door is opened
- Measurement and control of salt content in washing water
- Tanks and intermediate reservoir for brine and condensate

Energy Efficiency

The system is equipped with high efficient heat exchangers, which allow the use of the process heat for pre-heating of the brine. Those heat exchangers in combination with an excellent insulation make it possible to minimize the needed amount of energy for heating of the brine.

The overall efficiency and low operating cost to recover salts compared to the disposal of contaminated water and purchase of new salts yields a remarkably short payback period for the capital investment in addition to the environmental advantages for a win-win result!

