

AQUAREG Crystal 70

RECOVERY OF BATHS BY COLD CRYSTALLIZATION

Cold crystallisation (freezing) equipment for the removal of undesirable substances whose solubility decreases significantly with decreasing temperature.

Typical examples of such substances are Sodium Carbonate ($\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$) or Iron Sulphate ($\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$).

Recovery by cold crystallization is particularly suitable for:

- > alkaline NaOH-based cyanide-free plating baths
 - Zn-Ni
 - Zn-Fe
 - zinc coating
- > cyanide Sodium salts-based plating baths
 - copper coating
 - zinc coating
 - cadmium coating
 - brass coating
 - bronze coating
- > baths for etching of steel in Sulphuric acid



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- > operation in the bypass to the process tank without interrupting the process tank operation
- > automatic control with minimal operator requirements
- > touch panel control
- > compact and mobile
- > different material designs for alkaline baths and acid baths
- > possibility to increase performance (especially at higher bath temperatures) by installing a pre-cooling tank

Benefits of recovery

- > extending the life of the bath
- > maintaining a constant bath composition guaranteeing stable working conditions and consistent surface quality of the parts to be treated
- > lower power consumption and possibly lower costs for cooling the bath in the case of coating processes
- > lower consumption of chemicals
- > reduction of line shutdown
- > reduced maintenance costs associated with bath replacement and equipment maintenance
- > savings in waste bath disposal costs
- > obtaining a reusable product in case of $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$

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