

MZR-750

PYROTEK ZINC RECOVERY SYSTEM

Pyrotek's zinc recovery system makes in-house recovery a viable option for galvanizers and zinc processors. This system is a thermo-mechanical device that separates free zinc from material mixtures and top drosses. The system is able to recover nonferrous metal from industrial process wastes and top drosses, including: hot-dip skimmings and dust, continuous galvanizing top dross and primary and secondary zinc refining operations. The recovered zinc is both technically and commercially acceptable for direct reuse into the process, and any zinc oxide (ZnO) residues can be sold. This system has a capacity for 750 kilograms (1650 pounds) of skimmings.

The European Commission Integrated Pollution Prevention and Control (IPPC) recognized Pyrotek MZR technology as the best available technique for dross waste management. The MZR-750 model of the recovery system reduces the total volume of waste for disposal, as well as 90 percent of the transportation required for virgin zinc and waste products.



BENEFITS

- Approximate 6-month return on investment when calculating for 180 tonnes of dross per year
- Low operational cost; does not require dedicated staff
- No London Metal Exchange (LME) premium on recovered zinc
- Reduces the volume of residual skimmings for disposal
- Reduces the volume of virgin zinc purchased at LME rates
- Value in residual skimmings after zinc removal

PRODUCT SPECIFICATIONS

Drum Skimmings Capacity— kg (lbs)	750 (1650)
Gas Operational Costs— m ³ (ft ³)	25 (880)
Oil Operational Costs— L (gal) optional	25 (6.6)
Labour Operational Costs— minutes per burn	30
Barrel Operational Costs— number of burns (based on usage)	100–200
Zinc Recovery Averages (by weight)	General hot-dip: 60–80% Spin/tube: 80%

