

The best of REFRIGERATOR RECYCLING

- High recovery rate of CFC, plastic, Fe and Al.
- Low processing costs.
- Tailored to suit your requirements and facilities.
- Low power consumption.

Refrigerator recycling plants and machines

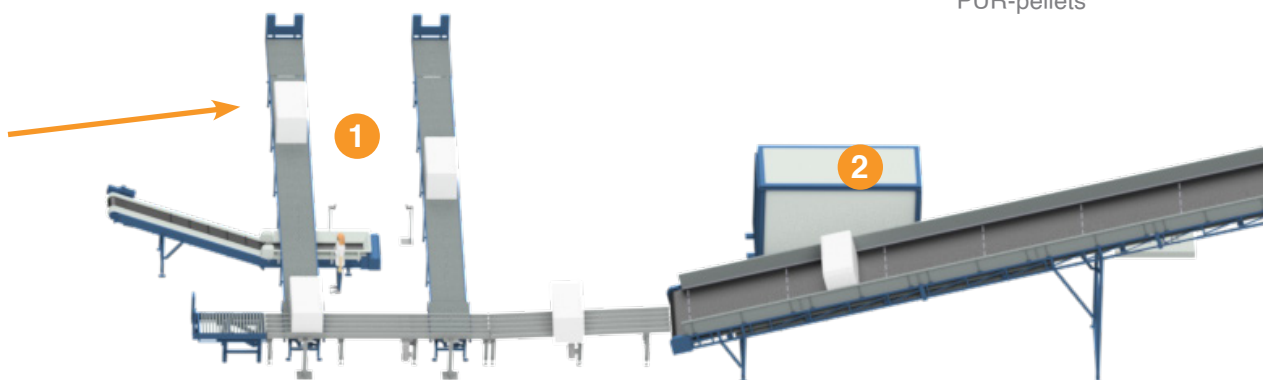
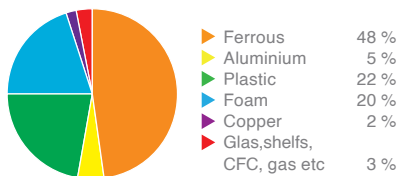
The complete ELDAN refrigerator recycling plant includes everything from pre-chopping to separation.

The refrigerator recycling system is designed for processing refrigerators operating with CFC/pentane gases to prevent harmful substances to evaporate into the atmosphere, and to achieve the most efficient recycling of the solid materials. The plant is constructed for crushing of refrigerators up to a max. size of 2000 x 1200 x 1000 mm (height x width x depth). Bigger appliances can be processed, but must be size reduced prior to processing.

Proven technology

Eldan equipment is designed to meet market requirements, thus the individual machines can easily be adjusted to other fraction sizes, merely by changing the screen size in the machines.

A refrigerator contains



1. Pre-handling. The refrigerators are unloaded and pre-classified. The cords are cut off and the glass inserts are delivered to special containers. This is also where the compressors are dismantled.

2. CFC/Oil Suction Unit (Degasification Stage 1). Oil and CFC/pentane/butane gases are sucked to the CFC/Oil Suction Unit. The gases are separated from the oil and the gases are collected in closed gas vessels. The oil is pumped out into an open vessel.

3. Super Chopper & 4. Multi Purpose Rasper. The fridges are transported to the Fridge Tower through a sluice. The Fridge Tower is a unique, integrated unit, combining the Super Chopper & the Multi Purpose Rasper.

This makes possible ONE inert cutting chamber eliminating the risk of fire and explosion. The output size from the Fridge Tower is approx. 30 mm.

5. Zig-Zag Wind Separator. The PUR foam is separated out and transported to the Pelletizer/Pellet Press (PUR).

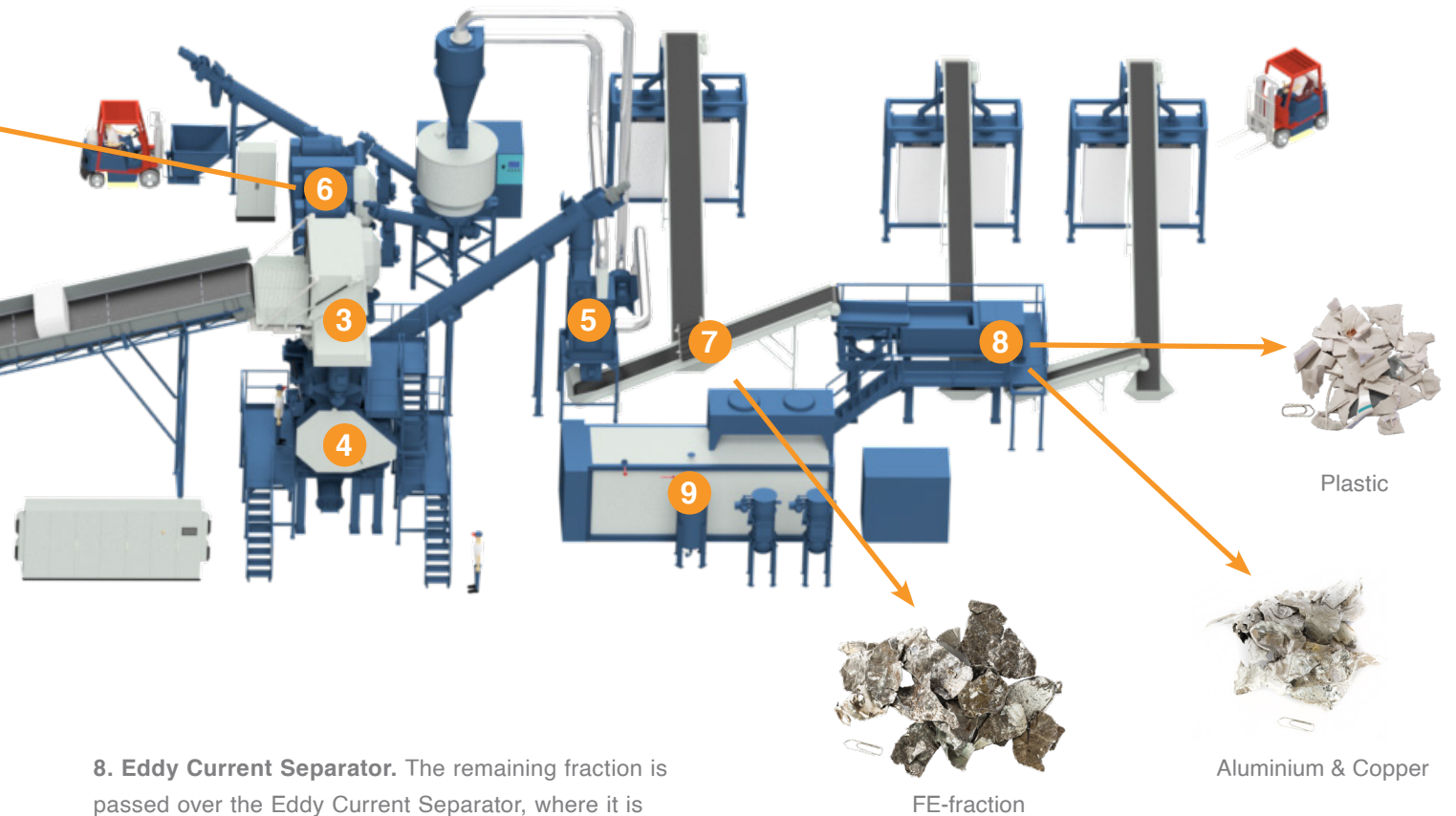
6. Pelletizer & Pellet Press (PUR). The PUR foam is pressed into pellets. At the same time the remaining CFC gas is sucked out into the CFC/Pentane Liquefaction System.

7. Overband magnet. The Fe-particles are separated out by the Overband Magnet.

Benefits

- Completely closed system.
- High recovery rate of CFC, plastic, Fe & Al.
- High performance.
- Low processing costs.
- Low power consumption.
- Low maintenance costs.
- Ambient mechanical technique for size reduction and separation.
- ELDAN plants are tailored to suit your requirements and facilities.
- The modular concept behind the ELDAN plants enables you to adapt your production output fraction to specific customer demands.





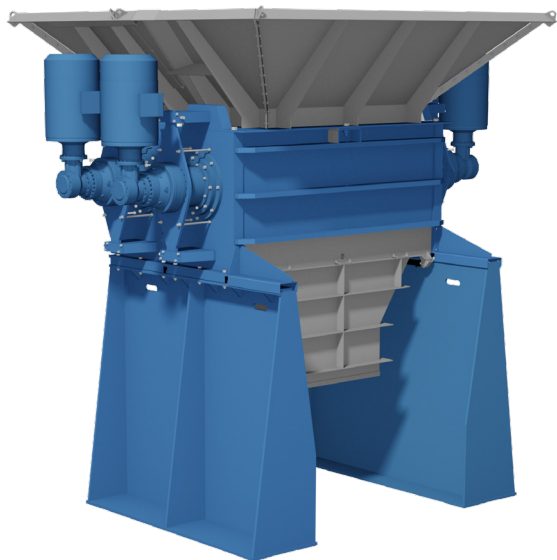
8. Eddy Current Separator. The remaining fraction is passed over the Eddy Current Separator, where it is separated into plastic and aluminium/Cu fractions.

9. CFC/Pentane Liquefaction System (Degasification stage 2). Here the gases released in the various plant processes are treated. The nitrogen used to reduce the oxygen level in the cutting chamber of the Fridge Tower is recovered and recycled in a closed circuit system to minimize the consumption. The gasses are collected in closed gas vessels.

Optional modules for specific customer requirements

Super Chopper

If it is necessary to process refrigerators larger than 2000 x 1200 x 1000, it is possible to add a dual-shaft Super Chopper II for further size reduction.

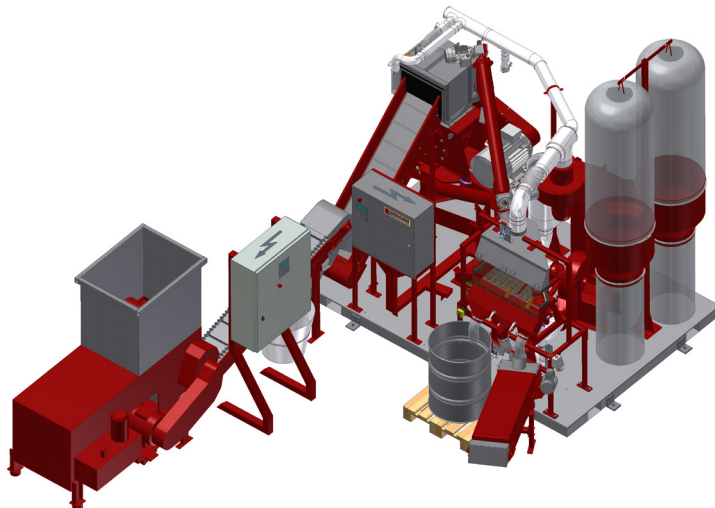


ELDAN Super Chopper II

REDOMA Thunderhawk A

The Thunderhawk A can be used for two purposes:

1. Separating the Cu from the Al in the refrigerator output fraction.
2. Process the cut of refrigerator cables to extract and recycle the copper.



REDOMA Thunderhawk A

Ensure reduced downtime!

- The **ELDAN Service Department** offers ad hoc service on existing as well as new equipment through our trained and experienced service engineers and supervisors.
- The flexible service contracts ensure planned, preventive maintenance of your production line.
- The **ELDAN After Sales Department** constantly holds an extensive stock of spare and wear parts.
- Tailored spare parts contracts ensure that parts are available for immediate call off.
- Contact one of our spare and wear part coordinators, and we will supply the best possible solution for you and your company.

We are your reliable partner!

Service: service@eldan-recycling.com

After Sales: aftersales@eldan-recycling.com

