



PYROLYSIS FURNACE

QUICK AND CAREFUL CLEANING OF TOOLS AND FILTER PARTS

The most recent of ECON's developments – a system for the careful cleaning of all extrusion dies and filter parts – is being applied with outstanding success. Thermoplastic materials and mixed plastic materials are removed without cleaning agents under vacuum at an adjustable working temperature. The process which is adjusted to a precise temperature protects sensitive parts. This extends the service life of the parts which are regularly cleaned in a simple, quick and cost-effective manner without leaving any residues.

FUTURE SYSTEMS

OPERATIONAL SEQUENCE (EPO)

After opening the furnace lid the working chamber is charged from above. Dies and screen parts can be placed on the freely accessible drip grate or be placed in baskets in preparation for the cleaning. After the start of the cleaning cycle the temperature in the working chamber is raised gradually and the vacuum pump evacuates the air. Once the necessary working temperature 1 has been reached, the polymer residues run into a collecting trough beneath the unit. Once the working temperature 2 has been reached, the incineration (pyrolysis = decomposition without oxygen) of the residues occurs on the parts to be cleaned. The gases produced during the process are collected and cleaned by a specially developed "absorber" allowing the exhaust air can be discharged directly to the environment.

On completion of the process cycle, the cleaning process is terminated automatically. The cooled steel parts are cleaned of any residues by means of compressed air without impairing the structure of the material. The controlled temperature progress during the cleaning process prevents warping and loss of strength in the cleaned parts.

The use of an oil-lubricated vacuum pump minimizes running costs as no water treatment (cleaning) is required.

On request we will be happy to arrange a visit to one of our customers, additionally a test run with your material in ECON's technical centre is also possible.

ECON-Model	Charging chamber	Charging height
EPO 300	Ø 280 x 580 mm	700 mm
EPO 600	Ø 360 x 680 mm	900 mm
EPO 1200	Ø 440 x 780 mm	1.100 mm
EPO 1500	Ø 620 x 1.600 mm	1.100 mm
EPO 1800	Ø 900 x 1.600 mm	1.150 mm

*All components of the furnace chamber in contact with vapors are made from corrosion-proof materials.
All other sizes and tailor-made designs on request.*

- Careful removal of thermoplastic materials and mixed plastic materials**
- Increased service life of dies and filter parts**
- Favorable environmental compatibility / TÜV-certificate**
- Easy to use and high reliability**
- Low investment costs – fast RETURN ON INVESTMENT**
- Oil-lubricated vacuum pump – low maintenance**
- No process water required**
- Cost effective operation**

