BKG® HiCon™ R-Type 250
Recycling Filter for Highly Contaminated Applications

**Principle:** Separation in a continuous filtration process

**Use:**
- Medium to highly contaminated plastic melt
- Polymers from the family of olefins and styrenes

**Applications:** Recycling

**Operation**
The contaminated melt flows through the fixed, cylindrical strainer tube from the inside out. The micro-conical holes provide efficient filtration of contaminated melt. The contaminants are separated from the melt and then scraped by a rotating blade shaft from the surface of the strainer tube. The cooled discharge screw removes the collected contaminants from the machine out. The speed of the blade shaft/discharge screw can be adjusted depending on the throughput, contamination level and discharge rate, thus ensuring a continuous working process with a clean, open filtration area with low melt loss.

**Technical Product Information**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
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<tbody>
<tr>
<td>Operating pressure max. 350 bar</td>
<td>Minimal melt loss</td>
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<tr>
<td>Operating temperature max. 320°C</td>
<td>Robust and low-wear design</td>
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<td>Throughput 500 - 1500 kg/hr*</td>
<td>Constant melt pressure behind the filter</td>
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<td>Available strainer tubes</td>
<td>No outlet side; minimum pressure required</td>
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<td>Preparation material PS, PE, PP, ABS, SAN</td>
<td>User-friendly handling; independent strainer tube can easily be changed by the operator</td>
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<td>Preheating included in the standard delivery (incl. sensor)</td>
<td>Low operating costs through long service life and regeneration ability of the filter media</td>
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<td>Optional recording of process data and remote maintenance</td>
<td>No edge flow around the strainer tube</td>
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*The throughput values are only estimates. The actual rates are dependent upon the viscosity of the material, filtration fineness, application and the contamination level of the material; therefore, the values may differ depending upon the actual process parameters.*
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Application examples

Mineral resources:
- Agricultural films
- Polystyrene from household appliances (white goods)
- Food packaging
  (Post Consumer Recycling - PCR)

Separation of impurities:
- Organic and inorganic materials:
  e.g. wood, sand, paper
- Metals: e.g. steel, aluminum, copper
- Non-metallic materials: e.g. glass
- Foreign plastic and rubber

Operation

Process control
- Clearly, simple and intuitive:
  All process parameters visualized at a glance
- Quick and precise function:
  Integrated Ethernet/Profibus communication between CPU, field devices and frequency
- System capability & ease of maintenance:
  The onboard Ethernet / Profinet interface provides a convenient connection to other data systems to collect process or batch data or to perform remote maintenance.

Change the strainer tube
For changing the strainer, production is briefly interrupted. The discharge unit can be detached, so that the machine housing including the dirty strainer tube can be removed.