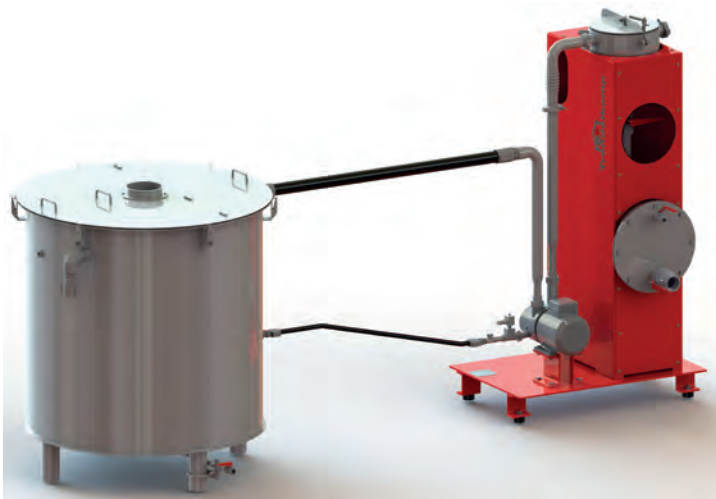


Extruder Vacuum Unit TK-V

for extruder degassing



- Robust
- Increased product quality
- Easy to maintain

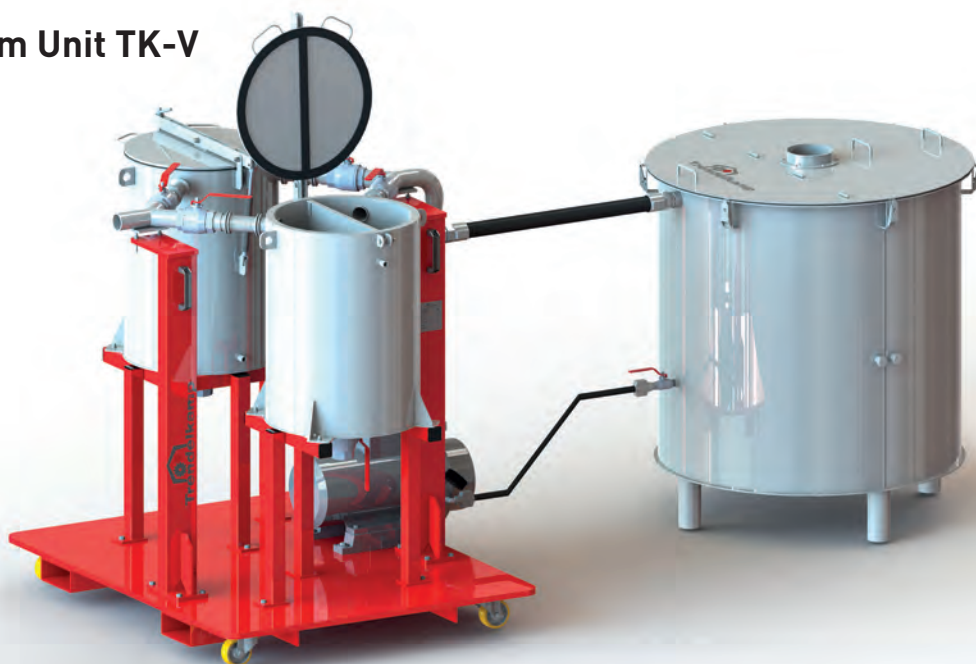
Increased product quality and consistency with an extruder degassing unit from Trendelkamp. Many customers rely on the extra value achieved by extracting harmful gasses from their extrusion process, thus improving the overall quality of their product and safety of their system environment.

The removal of oxidizing components, air and water vapor, as well as the extraction of monomeric gases improve isolating characteristics that result in smoother surfaces, higher solidity, and less overall air inclusions.

Benefits:

- Increased throughput rate
- Increased extruder efficiency
- Increased operational safety
- Simple and easy to maintain
- Robust and reliable design
- Increased product quality

Extruder Vacuum Unit TK-V



Functional Principle:

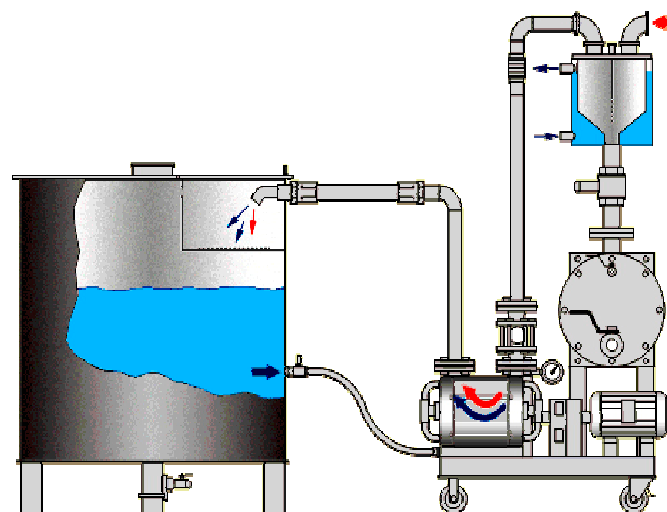
Gases that form during the polymer extrusion process are extracted by a vacuum, specifically by a liquid ring vacuum pump system (LRV pump). The gases are initially extracted into a steam chamber. The steam chamber is temperature controlled and when the hot gases enter they start to condense. The condensation is then discharged into a collecting sump. Gases not yet condensed and remaining particles are transported to the vacuum pump. The remnants mix with the operating liquid of the pump and are then directed into the collector. The collector safely prevents an uncontrolled discharge of contaminated water, while also feeding the operating liquid to the vacuum pump. The steam chamber is temperature controlled by an external water connection and is not connected to the collector. Thus, the portion of the system collecting contaminants is separate and allows for a safe, environmentally friendly operation.

Features:

- Water cooled/heated steam chamber
- Collecting sump for contaminants
- Stainless steel construction
- Efficient liquid ring vacuum pump
- Closed circuit water reservoir process
- Easy operation and maintenance

Applications:

- Polyolefin's
- PA
- PET
- Filled polymers (fiber, glass, calc, talcum)



Extruder Vacuum Unit TK-V		
Model	Suction Capacity	Pump Power
TK-V 20	20 m ³ /h	0,75 kW
TK-V 40	40 m ³ /h	1,50 kW
TK-V 80	80 m ³ /h	4,00 kW
TK-V 120	120 m ³ /h	4,00 kW
TK-V 160	160 m ³ /h	7,50 kW
Atmospheric pressure: 1.013 mbar		
Vacuum: 400 mbar		
Temperature operating liquid: 15° C		