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News Release

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New Continuous Melt Filtration System Made in the U.S.A. by ADG Solutions

ADG Solutions has developed a proprietary melt-filtration unit and is manufacturing it in the company's own plant in Atlanta, GA. The new CFO System – CFO stands for Continuous Filter Operation is ideal for extrusion of reclaimed plastics materials that may have high levels of contamination that would quickly foul a conventional screenchanger.

"This technology is not brand new," admits Sandy Guthrie, President, ADG Solutions, "but it is highly efficient at handling difficult scrap and reclaim materials, and it represents a tremendous improvement over existing technology, thanks to suggestions from reclaim extruders in the U.S. It is also made in the U.S.A. and that's an important factor when it comes to delivery times, service support and parts availability. Our new CFO melt filter has its own UL-compliant control panel with an Allen Bradley PLC with touchscreen user interface on a convenient swing arm. With all these advantages, and the fact it uses a minimal amount of good material to purge contaminants, the CFO is the most cost effective system available, providing a quick ROI."

In operation, resin enters the filter unit directly from an extruder through a specially designed orifice that helps the material cover the complete screen at lower pressures. Then the melt is filtered through a stainless-steel screen plate that is micro-drilled and hard-faced for wear resistance. Filtered resin exits the system for pelletization, while contamination is retained on the screen plate. When waste builds up and back pressure reaches a preset level, a rotating blade sweeps the screen and removes the contamination through a discharge port.

The CFO handles a broad range of materials including PE, PP, PS, PC, and ABS, and can operate at temperatures up to 600°F and pressures up to 3,500 psi. The filter can handle up to 10% paper and hard objects like rocks, glass or small pieces of metal are tolerated. Three models are offered with screen diameters of 15, 20 and 25 inches allowing throughputs up to 2000, 3500 and 6000 lbs/hr, respectively.

The CFO runs in automatic mode controlled by a PLC that directs all of the functions. The rotating blade that wipes the screen plate clean can be actuated manually by pushing a button, or triggered automatically based on a timer or based on a pressure reading. The filter screen can last one to two weeks, depending on materials processed and the percentage of contamination – typically 2000 – 3000 wipes.

(More)

Purging of contaminated material requires, on average, less than 1 pound per purge... a significant savings compared to conventional screen changes. The unit can also operate in a continuous-wiping mode when extremely contaminated material is being processed. In this mode, material lost in purging amounts to less than 0.4% of overall throughput.

From scrap to pellet, ADG Solutions helps companies process hard-to-recycle plastic waste from industrial, commercial and post-consumer sources. In business for over 10 years, the company engineers custom systems including washing, size-reduction, densifying, extrusion, filtration, pelletizing and material-handling equipment.

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This new CFO continuous melt filter from ADG Solutions is the first such unit to be made in the U.S.A.