

Mobile falling film crystallization pilot plant F6S

Agility is key to grab the many opportunities currently arising from the need of more sustainable technologies and circular solutions.

Because purification is almost always a critical step in the recycling processes and to help our customers demonstrate new concepts and reduce the time to market, we now offer a state-of-the-art set of mobile crystallization pilot units.

The melt crystallization units are fully automated, ready for multistage operation, designed acc. European standards and norms, but can be easily certified for temporary use anywhere around the world.



Technical properties:

Material of construction	316L and PTFE (product wetted parts)
Temperature range	-30 °C to 180 °C (freeze point of products)
Volume Crystallizer	6 tubes with 6 m length – capacity upon request
Design codes	European Norms (CE, PED, EN ISO & ATEX)
Dimension (installed)	7.8 m x 2.6 m x 15.2 m (L x W x H) plus one 20 ft sea container as control room
Total weight	Approx. 50 tons + 5 tons for container
Ambient temperature	-20 °C to 50 °C
ATEX	ATEX certified for zone 2 (Ex 3G IIB T2)
Location	Outdoor – green field on a concrete slab
Seismic loads	0.3 g acceleration in all directions
Wind loads	50 m/s at all heights
Typical applications	acetic acid, acrylic acid, benzoic acid, bisphenol-A, caprolactam, dichlorobenzene, dichlorophenol, dimethyl carbonate, dimethyl terephthalate, ethylene carbonate, lactide, methylene diisocyanate, naphthalene, para nitro chlorobenzene, paraxylene, phenylene diamine, toluene diisocyanate and many more applications upon request
Cleaning agents	Acetone, ethanol, toluene, paraxylene, DMF, water and many more upon request
Electrical connection	400 V / 50 Hz / 3 Ph (power consumption depends on operation temperature)
Utilities	Electricity, instrument air and cooling water