



MAXIMUM PURITY FOR FINISHED PRODUCTS

The FL Series is engineered especially for recycling lines. Its spiral scraper system directs impurities away in a single path, preventing contaminants from returning to the flow. It also allows for operation at low extrusion pressures.

Why Choose the FL Series?

Eliminate defects in critical products. Purpose-built for pipe (gas/water) lines, sheets, and panels where structural integrity is non-negotiable.

- Zero Consumables: “No-Wire Mesh” technology means you never spend on mesh replacements.
- Maximum Strength: Handles 55 MPa in constant pressure and peaks up to 60 MPa—outperforming standard filters.
- Continuous Flow: Spiral scraper system clears impurities without any line stoppage.

Installation Environment & Power Supply

Plate Mesh (Mesh)	Micropore Diameter	Number of Micropores	Capacity (Output)
650 - 40 Mesh	450 µm	167,000	1000 kg/h
650 - 60 Mesh	250 µm	580,000	800 kg/h
650 - 80 Mesh	200 µm	620,000	700 kg/h
650 - 100 Mesh	150 µm	980,000	600 kg/h
650 - 120 Mesh	120 µm	980,000	500 - 550 kg/h

1. The number of micropores is rounded to the nearest ten thousand, so actual quantities may vary slightly.

2. Not all available mesh plates are listed here.

3. Due to factors such as screw extrusion capacity, material melt index, and output backpressure, the production capacity shown is approximate and for reference only.

Installation Environment & Power Supply

Dimensions & Weight	Length: 1350 mm Width: 620 mm Height: 1283 mm Weight: 720 kg	Customization: Interface and height can be tailored to fit your site requirements. Variation: Overall machine size and weight may vary depending on customer needs.
Location / Site	Indoor area free of flammable, explosive, or hazardous materials.	
Environment	Humidity: Less than 85% with no condensation Temperature: 0-50°C	
Power Supply	Voltage: Four-wire, three-phase – 380V ± 10% (Customizable) Frequency: 50Hz / 60Hz	Total Power: 22 kW (may change depending on installation method) Input line: 3x6mm ² + 2x4mm ² Grounding: < 4Ω

FL500 Technical Specifications

Parameter	Specification / Description
Filtration Area	Including keyways and plate edges: 600*500 = 300,000 mm²
Filter Micropores	Available pore sizes: 0.4, 0.3, 0.25, 0.2, 0.15, 0.12 (mm)
Waste Removal Method	Screw scraper discharge valve (allows waste removal without pressure release).
Connection Method	Custom input/output interfaces and supports to match your equipment. Optional direct-pass valve available.
Maximum Melt Pressure	60 MPa (< 10 seconds)
Design Pressure	55 MPa
Safety Pressure	1 MPa (The scraper cannot be operated below the safety pressure.)
Head Locking Bolts	24 M20 bolts
Compatibility	PE, PP, PS, ABS, etc. (PVC not supported)
Application Range	Perfect for recycling granulation, piping lines, aluminum-plastic panels, extruded panels, and other high-pressure extrusion and precision filtration uses.
Control Method	PLC and touchscreen operation.

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