

Acro[®] Last Chance Filters





High performance point-of-use filters to assure printhead protection from contamination and optimum printer performance

The Pall® Acro Last Chance Filter (LCF) is a self-contained filtration assembly for point-of-use filtration in digital printing systems. This filter family is designed to be used on larger digital printing systems in conjunction with Pall's larger capsules, or as stand-alone filters in smaller printing applications. In addition, a laboratory size is available for testing new ink formulations and printing trials.

This filter features Pall HDC® II or Rigimesh® filter media. Pall HDC II is an all-polypropylene media structure with a tapered pore structure. This media will provide good flow rates, long service life and excellent gel retention. The Pall Rigimesh filter media is a woven sintered stainless steel structure that provides excellent chemical compatibility across a wide range of ink chemistry options.

Description and Key Features

- An economical and compact point-of-use filter for digital printers
- Specially selected connections for fast filter changes
- Three available sizes for a wide range of applications
- Filter housing material optimized for maximum UV light blockage
- Filter media selected for maximum performance in ink jet systems
- Designed to work in conjunction with Pall capsules or stand-alone

Features	Advantages	Benefits
The Pall Acro 25 LCF is manufactured with Pall's Premium Syringe Filter technology	Large effective filter area in a compact design	Can handle a wide range of flow rates without printhead starvation
UV light resistant housing materials in the Pall Acro 25 LCF and Pall Acro 37 LCF	Negligible UV light penetration into the filter assembly (<0.02%)	Aids in prevention of curing of UV sensitive materials
Low internal ink hold-up volume	Minimal ink required for flow	Rapid ink system priming cycles
Economical construction	Minor cost impact to initial build and maintenance costs	Performance improvement with minimal cost impact
All versions feature all – polypropylene construction	Good compatibility across a wide range of ink jet ink chemistries	One filter design can be universally applied across multiple printer families
Luer-Lok™ compatible and compression fitting connectors	Secure inlet and outlet connections with positive sealing architecture	Minimal chance for leakage and fast filter changes
No binders, glues or mold release agents are used	Low extractables	Good chemical compatibility and economical disposal

¹Luer-Lok is a trademark of Becton, Dickinson & Company.



Technical Information – Pall Acro 25 Last Chance Filters

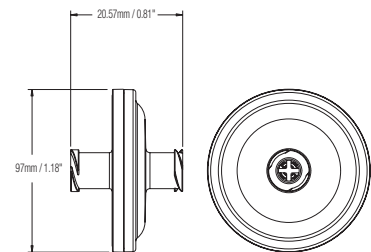
Materials of Construction — Opaque (white) Housing

Housing	Polypropylene with white colorant
Filter Media	Polypropylene
Effective Filter Area	3.9 cm ²

Operating Conditions²

Maximum Allowable Pressure	40 psig @ 68 °F
	2.76 bar @ 20 °C

Dimensional Drawing



Technical Information – Pall Acro 37 Last Chance Filters

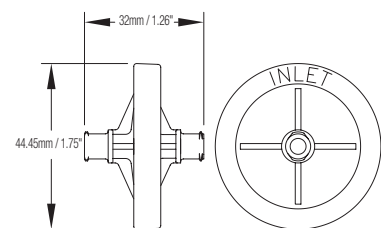
Materials of Construction — Opaque (white) Housing

Housing	Polypropylene with white colorant
Filter Media	Polypropylene -or- 300-Series Stainless Steel
Effective Filter Area	7.5 cm ²

Operating Conditions²

Maximum Allowable Pressure	30 psig @ 68 °F
	2.1 bar @ 20 °C

Dimensional Drawing

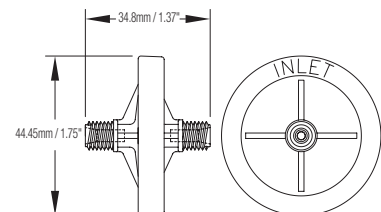


Materials of Construction — Opaque (black) Housing

Housing	Polypropylene with black colorant
Filter Media	Polypropylene -or- 300-Series Stainless Steel
Effective Filter Area	7.5 cm ²

Operating Conditions²

Maximum Allowable Pressure	27 psig @ 68 °F
	1.9 bar @ 20 °C



Technical Information – Pall Acro 50 Filters

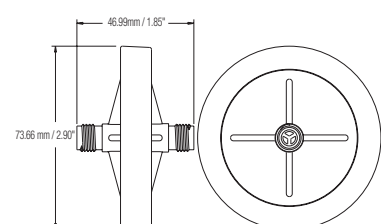
Materials of Construction — Standard Housing

Housing	Natural Polypropylene
Filter Media	Polypropylene
Effective Filter Area	19.6 cm ²

Operating Conditions²

Maximum Allowable Pressure	30 psig @ 68 °F
	2.1 bar @ 20 °C

Dimensional Drawing



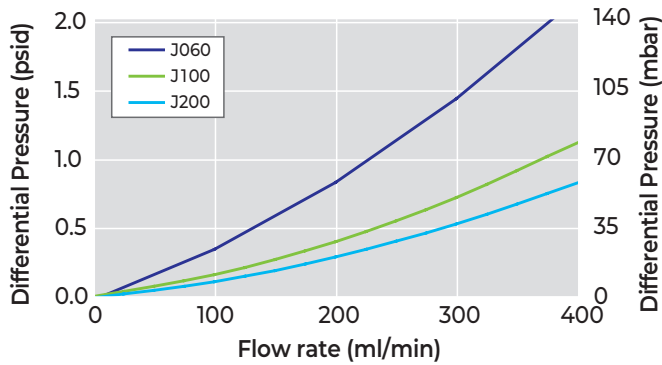
²Fluids that do not soften, swell or adversely affect the filter or materials of construction.



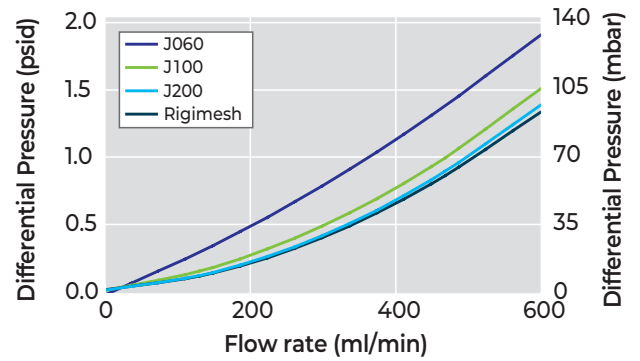
Technical Information

Typical Flow versus Differential Pressure Information

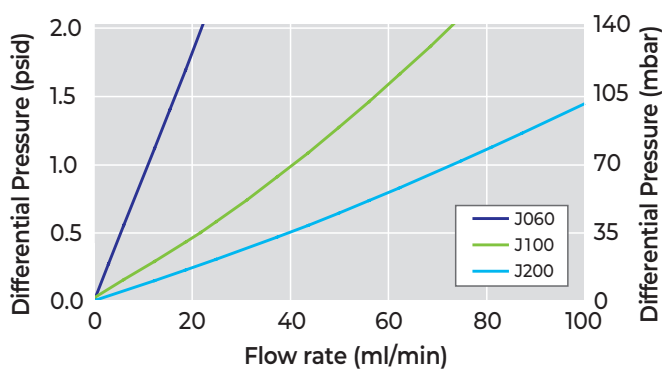
Acro 25 Flow vs. Differential Pressure @ 1 cps



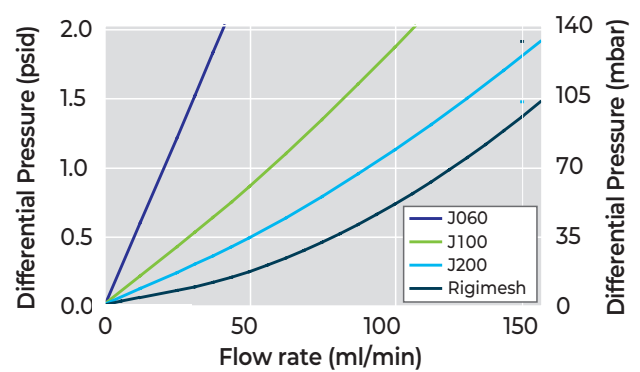
Acro 37 Flow vs. Differential Pressure @ 1 cps



Acro 25 Flow vs. Differential Pressure @ 10 cps



Acro 37 Flow vs. Differential Pressure @ 10 cps

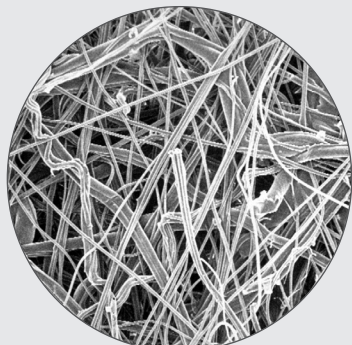


Filter Media Options

Two Pall filter media options are currently offered:

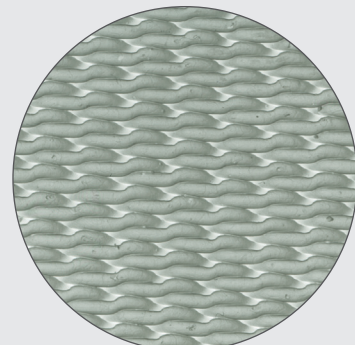
Pall HDC II Media

- All polypropylene media with tapered pore structure
- Thick media structure for excellent gel retention in UV curable inks
- Three beta-rated removal ratings are available



Pall Rigimesh Media

- 300-series stainless steel media for excellent ink compatibility
- Woven mesh structure that is sintered for strength
- High porosity provides very low pressure loss





Ordering Information

LCF-10000 Series Filters

Description: Pall Acro 25 Last Chance Filters with opaque (white) polypropylene housing.
Packaged 50 units per abag.

Part Number	Media	Connection
LCF-11100	HDC II – 6 µm	Female Luer-Lok compatible
LCF-12100	HDC II – 10 µm	Female Luer-Lok compatible
LCF-13100	HDC II – 20 µm	Female Luer-Lok compatible

LCF-20000 Series Filters

Description: Pall Acro 37 Last Chance Filters with opaque (white) polypropylene housing.
Packaged 50 units per bag.

Part Number	Media	Connection
LCF-21100	HDC II – 6 µm	Female Luer-Lok compatible
LCF-22100	HDC II – 10 µm	Female Luer-Lok compatible
LCF-23100	HDC II – 20 µm	Female Luer-Lok compatible
LCF-24100	Rigimesh – 18um	Female Luer-Lok compatible
LCF-21200	HDC II – 6 µm	1/8" 'Jaco' Fitting ³
LCF-22200	HDC II – 10 µm	1/8" 'Jaco' Fitting
LCF-23200	HDC II – 20 µm	1/8" 'Jaco' Fitting
LCF-24200	Rigimesh – 18um	1/8" 'Jaco' Fitting

LCF-20000 Series Filters

Description: Pall Acro 37 Last Chance Filters with opaque (black) polypropylene housing.
Packaged 50 units per bag.

Part Number	Media	Connection
LCF-21110	HDC II – 6 µm	Female Luer-Lok compatible
LCF-22110	HDC II – 10 µm	Female Luer-Lok compatible
LCF-23110	HDC II – 20 µm	Female Luer-Lok compatible
LCF-24110	Rigimesh – 18um	Female Luer-Lok compatible
LCF-23210	HDC II – 20 µm	1/8" 'Jaco' Fitting
LCF-24210	Rigimesh – 18um	1/8" 'Jaco' Fitting

LCF-30000 Series Filters

Description: Pall Acro 50 Last Chance Filters with natural polypropylene housing.
Packaged 18 units per bag.

Part Number	Media	Connection
LCF-31300	HDC II – 6 µm	1/4" 'Jaco' Fitting
LCF-32300	HDC II – 10 µm	1/4" 'Jaco' Fitting
LCF-33300	HDC II – 20 µm	1/4" 'Jaco' Fitting

³Fluids that do not soften, swell or adversely affect the filter or materials of construction.



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