



Pall Corporation

Acro[®] Last Chance Filters



Pall Ink Jet Team



Filtration. Separation. Solution.SM

IJ 1796



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. Please refer to Pall bulletins HDC700 and GDS110 for more information on these media.

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

- The **Pall Acro 25 LCF** is manufactured with Pall's Premium Syringe Filter technology
- UV light resistant housing materials in the **Pall Acro 25 LCF** and **Pall Acro 37 LCF**
- Low internal ink hold-up volume
- Economical construction
- All versions feature all polypropylene construction
- Luer Lock compatible and compression fitting connectors on both inlet and outlet
- No binders, glues or mold release agents are used

Advantages

- Large effective filter area in a compact design
- Negligible UV light penetration into the filter assembly (<0.02%)
- Minimal ink required for flow
- Minor cost impact to initial build and maintenance costs
- Good compatibility across a wide range of ink jet ink chemistries
- Secure inlet and outlet connections with positive sealing architecture
- Low extractables

Benefits

- Can handle a wide range of flow rates without printhead starvation
- Aids in prevention of curing of UV sensitive materials
- Rapid ink system priming cycles
- Performance improvement with minimal cost impact
- One filter design can be universally applied across multiple printer families
- Minimal chance for leakage and fast filter changes
- Good chemical compatibility and economical disposal



Technical Information – Pall Acro 25 Last Chance Filters

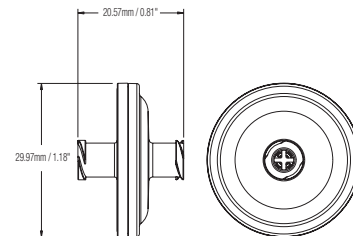
Materials of Construction

Housing	Polypropylene with TiO ₂ Filler
Filter Media	Polypropylene
Effective Filter Area	3.9 cm ²

Operating Conditions⁽¹⁾

Maximum Allowable Pressure	75 psig @ 68°F
	5.2 barg @ 20°C

Dimensional Drawing



Technical Information – Pall Acro 37 Last Chance Filters

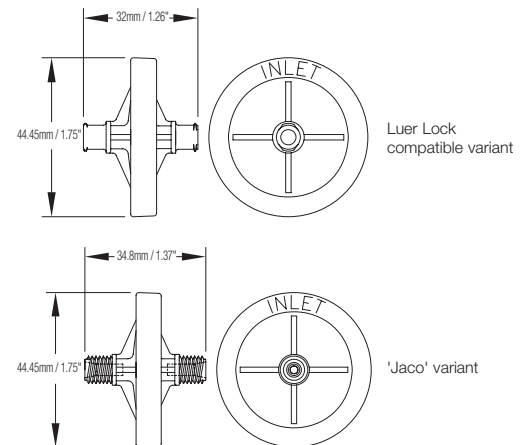
Materials of Construction

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

Operating Conditions⁽¹⁾

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

Dimensional Drawing



Technical Information – Pall Acro 50 Filters

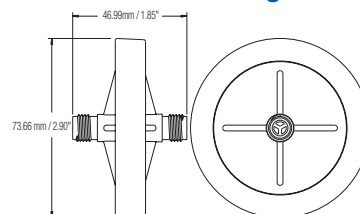
Materials of Construction

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

Operating Conditions⁽¹⁾

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

Dimensional Drawing



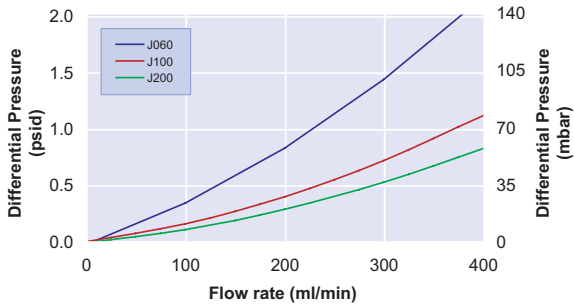
⁽¹⁾ Fluids that do not soften, swell or adversely affect the filter or materials of construction.



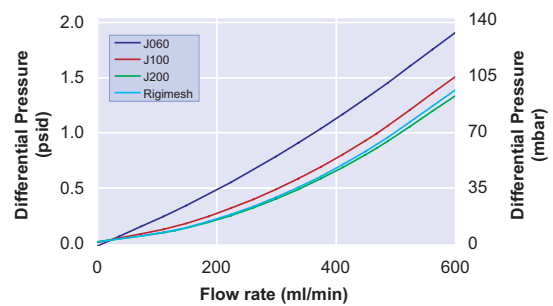
Technical Information

Typical Flow versus Differential Pressure Information

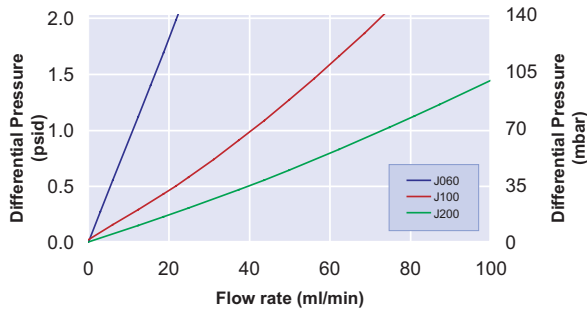
Acro 25 Flow vs. Differential Pressure @ 1 cps



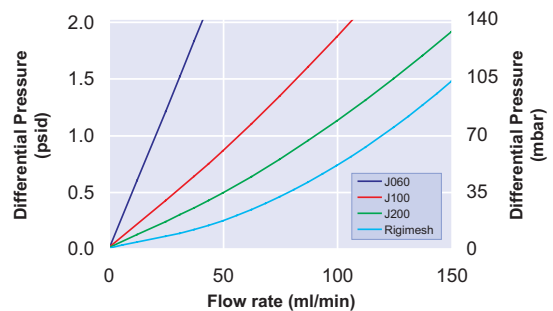
Acro 37 Flow vs. Differential Pressure @ 1cps



Acro 25 Flow vs. Differential Pressure @ 10 cps



Acro 37 Flow vs. Differential Pressure @ 10cps

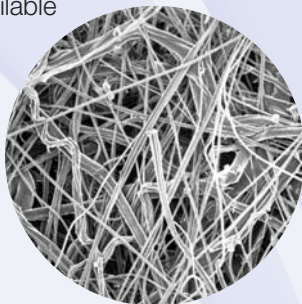


Filter Media Options

Two Pall filter media options are currently offered:

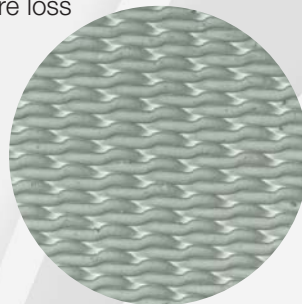
Pall HDC II Media

- 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

(This is a guide to the part numbering structure only. For availability of specific options, please contact Pall)

LCF-10000 Series Filters

Description: **Pall Acro 25** Last Chance Filters with opaque polypropylene housing. Packaged 50 units per bag.

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

LCF-20000 Series Filters

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

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

LCF-30000 Series Filters

Description: **Pall Acro 50** Last Chance Filters with natural polypropylene housing. Individually packaged with 18 filters per box.

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



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