

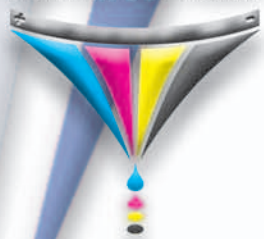


Pall Corporation

# Acro® Last Chance Filters



Pall Ink Jet Team



*Filtration. Separation. Solution.<sup>SM</sup>*

IJ 1796d



## High performance point-of-use filters ensure printhead protection from contamination and optimum printer performance

The Acro® Last Chance Filter (LCF) is a self-contained filter assembly for point-of-use filtration in digital printing systems. It is designed to be used together with any of Pall's larger capsules in large systems or as a stand-alone filter in smaller systems. A laboratory-size filter is also available for testing new ink formulations and conducting printing trials.

HDC® II and Rigimesh® media options are available for the Acro LCF. HDC II media is all polypropylene and has a tapered pore structure. It provides good flow rates, long service life, and excellent gel retention. Rigimesh media is a sintered woven stainless steel wire mesh structure that provides excellent chemical compatibility across a wide range of ink chemistries.

### Key Features

- Economical and compact point-of-use filter for digital printers
- Specially selected connections for fast filter changes
- Available in three sizes, for a wide range of applications
- Housing material optimized for maximum blockage of UV light
- Media selected for maximum performance in ink jet systems
- Designed to be used together with another Pall capsule or as a stand-alone filter

Features	Advantages	Value
Manufactured using Pall's Premium Syringe Filter technology (Acro 25 LCF)	Large effective filter area in a compact design	Can handle a wide range of flow rates without printhead starvation
UV-light-resistant housing materials (Acro 25 LCF, Acro 37 LCF)	Negligible UV light penetration into the filter assembly (<0.02%)	Helps prevent curing of UV-sensitive materials
Low internal ink hold-up volume	Minimal ink required for flow	Rapid ink system priming cycles
Economical construction	Minor impact on initial build and maintenance costs	Performance improvement with minimal impact on cost
All versions feature all-polypropylene construction	Good compatibility across a wide range of ink jet ink chemistries	One filter design can be applied universally across multiple printer families
Luer-Lok <sup>1</sup> compatible and compression fitting connectors on both inlet and outlet	Secure inlet and outlet connections with positive sealing architecture	Minimal chance for leakage; fast filter changes
No binders, glues, or mold release agents used	Low extractables	Good chemical compatibility; economical disposal

<sup>1</sup> Luer-Lok is a trademark of Becton, Dickinson & Company; Jaco is a trademark of Jaco Manufacturing Company.



## Technical Information

### Acro 25 Last Chance Filters

Opaque White Housing

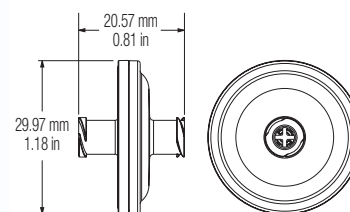
#### Materials of Construction

Housing	Polypropylene with white colorant
Filter media	Polypropylene
Effective filter area	3.9 cm <sup>2</sup> / 0.6 in <sup>2</sup>

#### Operating Conditions<sup>2</sup>

Maximum allowable pressure	5.2 barg / 75 psig @ 20°C / 68°F
----------------------------	----------------------------------

#### Dimensions



### Acro 37 Last Chance Filters

Opaque White Housing

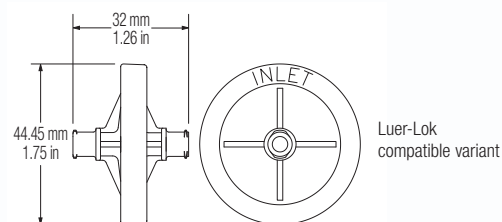
#### Materials of Construction

Housing	Polypropylene with white colorant
Filter media	Polypropylene or 300 series stainless steel
Effective filter area	7.5 cm <sup>2</sup> / 1.16 in <sup>2</sup>

#### Operating Conditions<sup>2</sup>

Maximum allowable pressure	2.1 barg / 30 psig @ 20°C / 68°F
----------------------------	----------------------------------

#### Dimensions



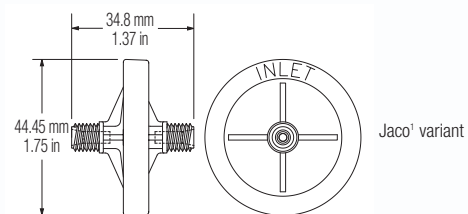
Opaque Black Housing

#### Materials of Construction

Housing	Polypropylene with black colorant
Filter media	Polypropylene or 300 series stainless steel
Effective filter area	7.5 cm <sup>2</sup> / 1.16 in <sup>2</sup>

#### Operating Conditions<sup>2</sup>

Maximum allowable pressure	1.9 barg / 27 psig @ 20°C / 68°F
----------------------------	----------------------------------



### Acro 50 Last Chance Filters

Standard Housing

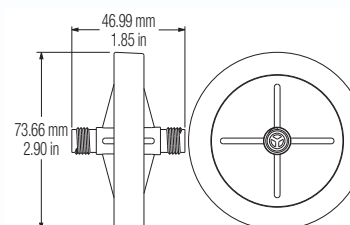
#### Materials of Construction

Housing	Natural polypropylene
Filter media	Polypropylene
Effective filter area	19.6 cm <sup>2</sup> / 3.04 in <sup>2</sup>

#### Operating Conditions<sup>2</sup>

Maximum allowable pressure	2.1 barg / 30 psig @ 20°C / 68°F
----------------------------	----------------------------------

#### Dimensions

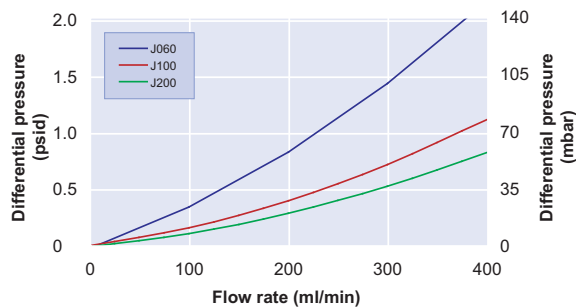


<sup>2</sup> Fluids that do not soften, swell or adversely affect the filter or materials of construction.

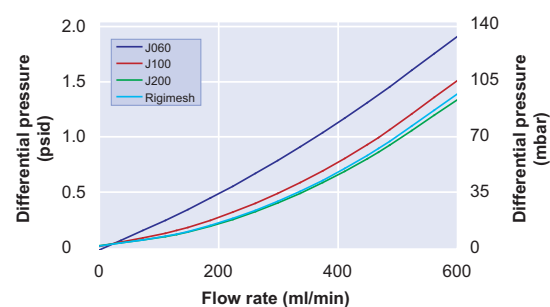


## Typical Liquid Flow Rate versus Differential Pressure (at 1 cps)

### Acro 25 LCF

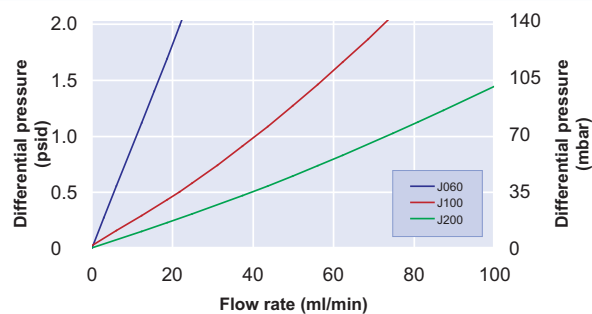


### Acro 37 LCF

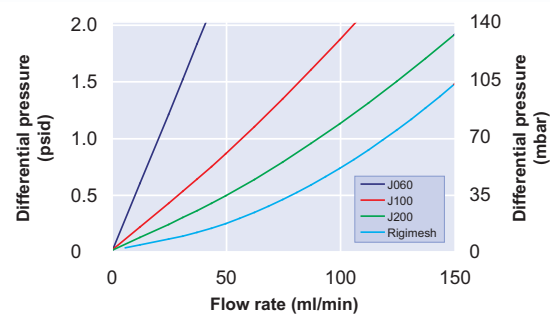


## Typical Liquid Flow Rate versus Differential Pressure (at 10 cps)

### Acro 25 LCF



### Acro 37 LCF



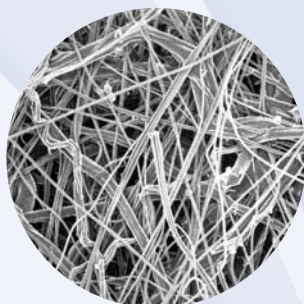
Unit conversion: 1 bar = 100 kilopascals

## Filter Media Options

Two Pall filter media options are currently offered.

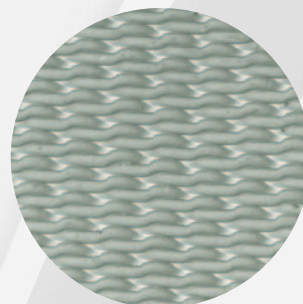
### HDC II Media

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



### Rigimesh Media

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





## Ordering Information / Part Numbers<sup>3</sup>

### LCF-10000 Series Filters

Acro 25 Last Chance Filter with opaque white polypropylene housing  
(packaged 50 units per pack)

Part Number	Media	Connection
LCF-11100	HDC II (6 um)	Female Luer-Lok compatible
LCF-12100	HDC II (10 um)	Female Luer-Lok compatible
LCF-13100	HDC II (20 um)	Female Luer-Lok compatible

### LCF-20000 Series Filters

Acro 37 Last Chance Filter with opaque white polypropylene housing  
(packaged 50 units per pack)

Part Number	Media	Connection
LCF-21100	HDC II (6 um)	Female Luer-Lok compatible
LCF-22100	HDC II (10 um)	Female Luer-Lok compatible
LCF-23100	HDC II (20 um)	Female Luer-Lok compatible
LCF-24100	Rigimesh (18 um)	Female Luer-Lok compatible
LCF-21200	HDC II (6 um)	1/8 in Jaco fitting
LCF-22200	HDC II (10 um)	1/8 in Jaco fitting
LCF-23200	HDC II (20 um)	1/8 in Jaco fitting
LCF-24200	Rigimesh (18 um)	1/8 in Jaco fitting

Acro 37 Last Chance Filter with opaque black polypropylene housing  
(packaged 50 units per pack)

Part Number	Media	Connection
LCF-21110	HDC II (6 um)	Female Luer-Lok compatible
LCF-22110	HDC II (10 um)	Female Luer-Lok compatible
LCF-23110	HDC II (20 um)	Female Luer-Lok compatible
LCF-24110	Rigimesh (18 um)	Female Luer-Lok compatible
LCF-23210	HDC II (20 um)	1/8 in Jaco fitting
LCF-24210	Rigimesh (18 um)	1/8 in Jaco fitting

### LCF-30000 Series Filters

Acro 50 Last Chance Filter with natural polypropylene housing  
(packaged 18 units per box)

Part Number	Media	Connection
LCF-31300	HDC II (6 um)	1/4 in Jaco fitting
LCF-32300	HDC II (10 um)	1/4 in Jaco fitting
LCF-33300	HDC II (20 um)	1/4 in Jaco fitting

<sup>3</sup> This is a guide to the part numbering structure only. For availability of specific options, please contact your local Pall representative.



Pall Corporation

**Microelectronics**


25 Harbor Park Drive  
Port Washington, NY 11050  
+1 516 484 3600 telephone  
+1 800 360 7255 toll free US  
inkjet@pall.com

*Filtration. Separation. Solution.<sup>SM</sup>*

**Visit us on the Web at [www.pall.com](http://www.pall.com)**

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to [www.pall.com/contact](http://www.pall.com/contact)

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit [www.pall.com](http://www.pall.com) to verify that this information remains valid.

© Copyright 2008, 2009 Pall Corporation. Pall, , Acro, HDC, and Rigimesh are trademarks of Pall Corporation.  
® Indicates a trademark registered in the USA.  
*Filtration. Separation. Solution.<sup>SM</sup>* is a service mark of Pall Corporation.