



UltiKleen™ Excellar ER KC Assemblies

Description

The UltiKleen Excellar ER filters show enhanced retention (ER) and improved non-dewetting properties over previous designs. These properties enable semiconductor makers to meet the chemical process filtration requirements of the 22 nanometer manufacturing node and beyond. The smaller format assemblies are designed for critical single-pass, point-of-use retention. The filter's high flow rate also makes it suitable for recirculation bath applications.

KC disposable assemblies are available with ten inch nominal, (254 mm) filters for higher flow rates.¹ The shorter UltiKleen Excellar ER KC assemblies shown here are ideally suited for lower flow point-of-use and single wafer tool applications.

Features

- Provided fully prewet as standard
- Me-KleenSM option for ultra low metal ion extractables
- 100% Integrity tested
- Proprietary non-dewetting surface
- Choice of connection sizes

Benefits

- No need to prewet and flush for safe quick start
- Reduced qualification time in critical clean processes
- Assured filter integrity
- Filter resists drying in outgassing chemistries or after chemical changes
- Sizes to fit existing connections

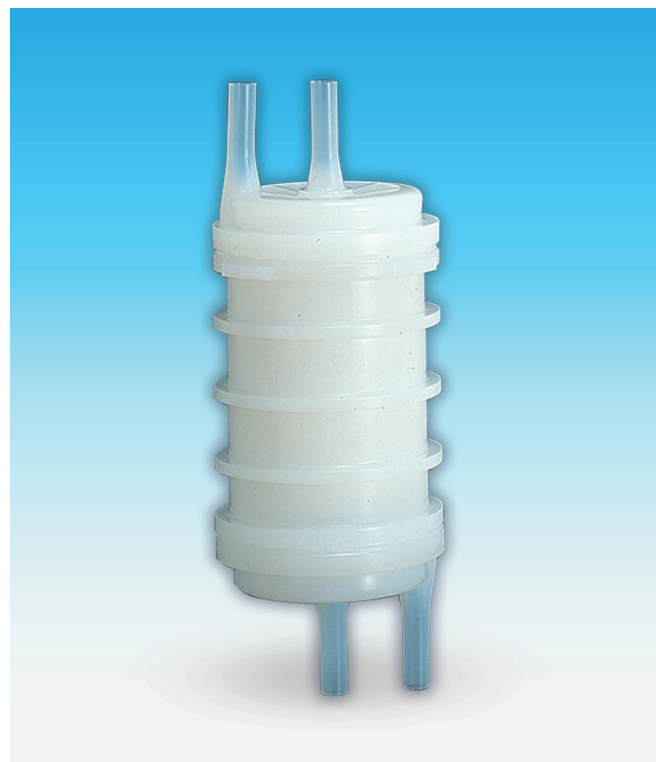
Specifications

Materials of Construction

Filter Medium	PTFE
Capsule, core, cage, and end caps	High purity PFA
Filter support and drainage	PTFE
Sealing method	Proprietary melt seal process

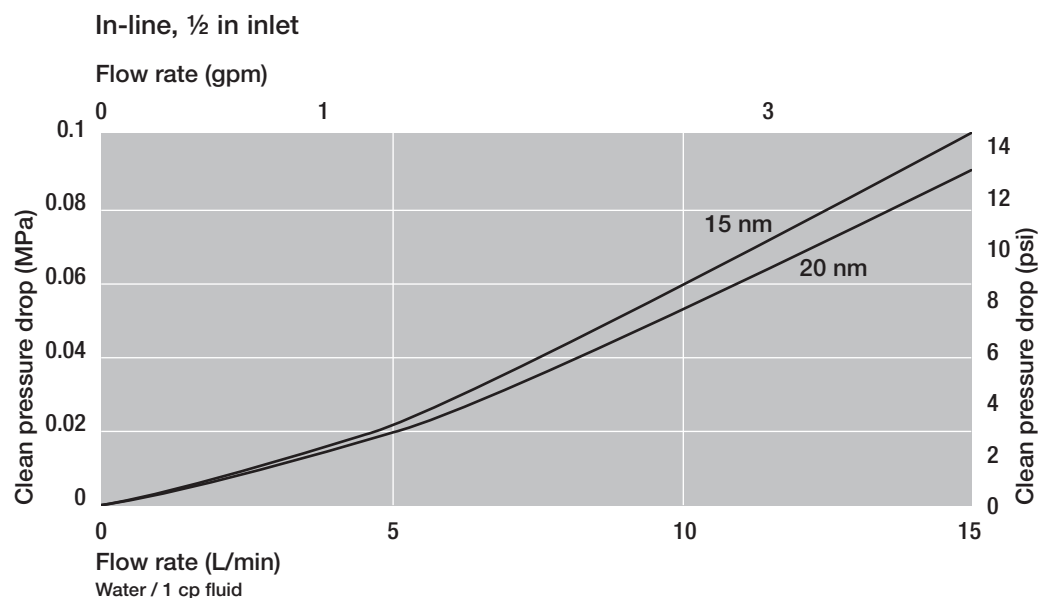
¹ See bulletins MEUKG2EREN

² Reverse pressure is not recommended during normal operation



Removal Rating	20 nm, 15 nm
Filter Area	0.9 m ² / 9.7 ft ²
Maximum Operating Temperature	170 °C / 338 °F
Maximum forward / reverse differential pressure (gauge) ²	0.5 MPa (71 psi) @ 25 °C (77 °F) 0.4 MPa (57 psi) @ 60 °C (140 °F) 0.35 MPa (49 psi) @ 90 °C (194 °F) 0.2 MPa (29 psi) @ 120 °C (248 °F) 0.15 MPa (22 psi) @ 150 °C (302 °F) 0.12 MPa (17 psi) @ 170 °C (338 °F)

Pressure Drop vs. Liquid Flow Rate (Water, 20°C) ³



³ Typical flow rates.

For liquids other than water, multiply the differential pressure by fluid viscosity in centipoise.

Unit conversion: 1 bar = 0.1 MPa

Part Numbers / Ordering Information ⁴

UltiKleen Excellar ER KC Assembly

LDFN05GP 1 2 E 3 4

Table 1

Code	Retention rating
15	15 nm
K	20 nm

Table 2

Code	Connection Size Inlet, outlet / vent, drain
06 ⁵	⅜ in male, ¼ in male
08 ⁵	½ in male, ¼ in male
09	½ in female, ½ in female
12 ⁶	¾ in male, ¼ in male
13	¾ in female, ½ in female

Table 3

Code	Connection type
0	Butt weld
1	Flowell ⁷ 20 series
2	Super Pillar ⁸ type
51	Flare type
71	Super Pillar S300, P type
72	Super Pillar S300, L type

⁴ Capsules are not available with every connection option.

Contact your Pall representative for available options.

⁵ Only available with code 51 connection type.

⁶ Only available with code 51 and code 8 connections.

⁷ Flowell is a trademark of Flowell Corporation.

⁸ Super Pillar is a trademark of Nippon Pillar Packing Co., Ltd.

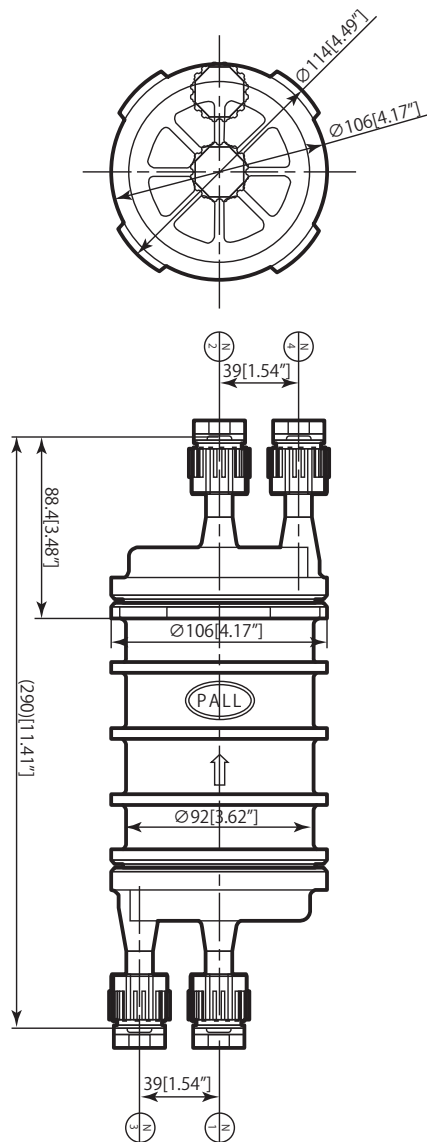
⁹ Low metal extractable option with ≤ 5 ppb of total metal ion extractables.

Table 4

Code	Packaging
K3	Prewet
K7	Prewet Me-Kleen ⁹ option

Dimensions¹⁰

LDFN05_09E71 / 72



¹⁰ Nominal length (mm / in)



Pall Corporation

Microelectronics

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

Nihon Pall Ltd.

6-5-1, Nishishinjuku,
Shinjuku-ku
Tokyo 163-1325 Japan
+81 3 6901 5700 telephone
+81 3 5322 2109 fax

Visit us on the Web at www.pall.com/micro

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to 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 to verify that this information remains valid. Products in this document may be covered by one or more of the following patent numbers: US 5,543,047; US 5,690,765; US 6,113,784; US 7,083,564; US 7,318,800; EP 0 982 061; EP 0 667 800; EP 1 380 331.

© Copyright 2012, Pall Corporation. Pall, , and UltiKleen are trademarks of Pall Corporation. ® indicates a trademark registered in the USA. Filtration. Separation. Solution. ENABLING A GREENER FUTURE, and Me-Kleen are service marks of Pall Corporation.