UltiKleen™G3 HiT KC Assemblies UltiKleen™G2 HiT KC Assemblies



Data Sheet MEHITKCENb

Description

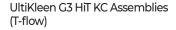
The Ultikleen HiT KC Assembly is specially constructed with proprietary fluid flow path improvements, for reliable high particle removal efficiency in severe chemical service conditions, found in high temperature SPM applications.

Designed for critical single pass point-of-use retention requirements, the UltiKleen HiT KC Assembly provides a high flow rate that makes it suitable for recirculation bath applications as well.

The improved non-dewetting property help enable semiconductor makers to meet the critical chemical process filtration requirements beyond 32 nm manufacturing. Pall's advanced ultra low extractables, Me-Kleen[™] K7 post treatment process is also available to reduce metal ion extractables to a low single digit ppb total.

The UltiKleen G3 KC T-flow assembly has a slightly larger diameter than the UltiKleen G2 KC T-flow assembly, but it has the same face-to-face sealing distance. This makes interchanging assemblies easy. The increased diameter of the G3 assembly contains a larger format UltiKleen Excellar ER filter with increased filter area and robust supports for higher flow rates and longer service life.







UltiKleen G2 HiT KC Assemblies (T-flow)

Features & Benefits

- Enhanced retention of particles in high temperature
- Greater than 95% retention of 15 nm gold colloids
- Large nominal filter area of 2.6 m² / 28 ft²
- High flow rates
- All ultra high purity fluoropolymer construction
- Low extractables (Me-KleenK7 option is available)
- 100% prewetted with ultrapure water in package
- Downstream core vent reduces potential for bubble collection and premature blockage

Specifications

Materials of Construction

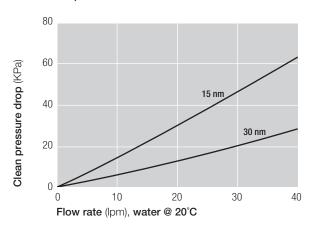
| Components | Materials |
|---------------|-----------------------|
| Filter Medium | Surface modified PTFE |
| Media Support | PFA / PTFE |
| Inner Core | PFA |
| Outer Cage | PFA |
| End Caps | PFA |
| Housing | PFA |

| Product Name | UltiKleen G3 H | HiT KC Assemblies | UltiKleen G2 HiT KC Assemb | |
|----------------------------------|---|---|---|---|
| Removal Ratings | 30 nm 15 nm 3 | | 30 nm | 15 nm |
| Nominal Filter Area | 2.1 m ² / 23 ft ² | 2.6 m ² / 28 ft ² | 1.3 m ² / 14 ft ² | 1.7 m ² / 18 ft ² |
| Configurations | T-flow, In-line | | T-flow, In-line, L- | flow |
| Maximum Operating Temperature | 180 °C / 356 °F | | | |
| Maximum Operating Pressure | 0.5 MPaG (72.5 psig) @ 25 °C (77 °F) 0.4 MPaG (58.0 psig) @ 60 °C (140 °F) 0.35 MPaG (50.7 psig) @ 90 °C (194 °F) 0.20 MPaG (29.0 psig) @ 120 °C (248 °F) 0.15 MPaG (21.8 psig) @ 150 °C (302 °F) 0.12 MPaG (17.4 psig) @ 180 °C (356 °F) | | | |

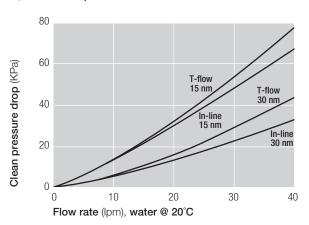
Typical Flow Characteristics - 1cP fluid, 20 °C

UltiKleen G3 HiT KC Assemblies

1" T-flow, In-line



3/4" T-flow, In-line



Dimensions (nominal)

1" In-Line Flare Style

®

135 mm 5.3 in

1/4 in Male

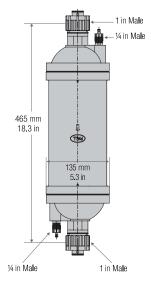
1 in Male

LDFHN1HGP15164E51

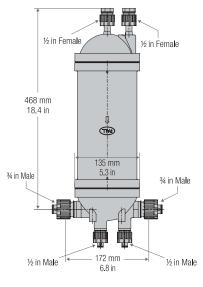
1 in Male

467 mm 18.4 in

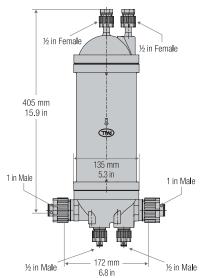
1" In-Line Super Pillar³ 300P Series LDFHN1HGP15164E71



3/4" T-Flow Super Pillar 300P Series LDFHT1HGP1512E71/72



1" T-Flow Super Pillar 300P Series LDFHT1HGP1516E71 / 72



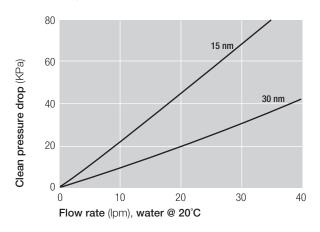
1/4 in Male

 $^{^{\}rm 2}$ Pillar is a trademark of Nippon Pillar Packing Co.

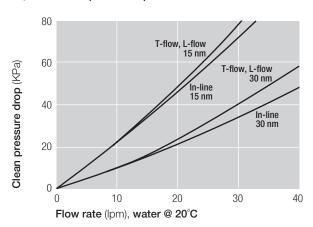
Typical Flow Characteristics - 1cP fluid, 20 °C

UltiKleen G2 HiT KC Assemblies

1" T-flow, In-line

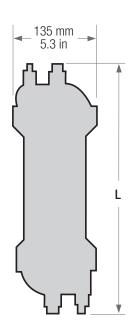


3/4" T-flow, In-line, L-flow

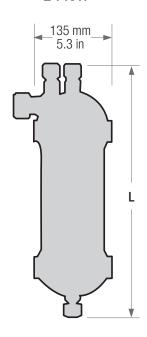


Dimensions (nominal)

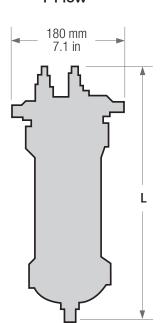
In-Line



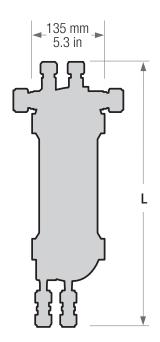
L-Flow



T-Flow



T-Flow Downstream Vent



G2 Kleen-Change Assembly (LDFG / LDFV)

| In-Line | Nominal Length (L) (mm/in) | T-style | Nominal Length (L) (mm/in) | VT-style | Nominal Length (L) (mm/in) |
|---------|-------------------------------|---------|-------------------------------|-------------|-------------------------------|
| 12E2 | 396.5 / 15.6 | 12E2 | 408/16.1 | 12E2 | 377 / 14.8 |
| 12E51 | 412 / 16.2 | 12E71 | 403 / 15.9 | 128E2 | 385 / 15.2 |
| 124E51 | 412 / 16.2 | 13E0 | 495 / 19.5 | 12E71 / 72 | 377 / 14.8 |
| 16E8 | 428 / 16.9 | 13E1 | 432 / 17 | 128E71 / 72 | 402 / 15.8 |
| 16E51 | 436 / 17.2 | 13E2 | 442 / 17.4 | 13E1 | 445 / 17.5 |
| 17E0 | 448 / 17.6 | 13E6 | 416 / 16.4 | 13E51 | 444 / 17.4 |
| 17E1 | 445 / 17.7 | 13E9 | 433 / 17.1 | 168E71 / 72 | 403 / 15.9 |
| 17E51 | 442 / 17.4 | 13E51 | 473 / 18.6 | | |
| 17E71 | 462 / 18.2 | 13E71 | 444 / 17.5 | | |
| | | L-style | | VL-style | |
| | | 12E2 | 408 / 16.1 | 12E2 | 440 / 17.35 |

Part Numbers / Ordering Information

Ultikleen G3 HiT KC Assemblies

LDFH 1 1HGP 2 3 E 4 5

Table 1

| Code | Flow | |
|------|---------|--|
| Т | T-flow | |
| N | In-line | |

Table 2

| Code | Removal Ratings |
|------|--------------------|
| 15 | 15 nm |
| 30 | 30 nm |

Table 3³

| Codo | Index / Outlet | Vent / drain | Mana | |
|------|----------------|--------------|-------------|---------|
| Code | Inlet / Outlet | Head end | Bowl end | - Memo |
| 12 | 3/4" male | 1/2" male | 1/2" female | T-flow |
| 128 | 3/4" male | 1/2" male | 1/2" male | T-flow |
| 16 | 1" male | 1/2" male | 1/2" female | T-flow |
| 164 | 1" male | 1/4" male | 1/4" male | In-line |
| 168 | 1" male | 1/2" male | 1/2" male | T-flow |

Table 4

| Code | Connections |
|------|--|
| 2 | Super Pillar Type (Nippon Pillar) |
| 51 | Flare style |
| 71 | Super Pillar 300 P Series (Nippon Pillar) |
| 72 | Super Pillar 300 P Series L Type (Nippon Pillar) |

Table 5

| Code | Prewet Option | |
|------|---|--|
| -K3 | Prewet filter (packaged in DI water) | |
| -K7 | Prewet filter (packaged in DI water), low metal extractables ⁴ | |

⁴ Disposable capsules are not available with every option. Please contact Pall for part number availability.

 $^{^{\}rm 5}$ Please contact Pall for the extractable conditions.

Part Numbers / Ordering Information

UltiKleen G2 HiT KC Assemblies

LDF 1 1HGP 2 3 E 4 5

Table 1

| Code | Flow | |
|------|---------|--|
| VT | T-flow | |
| GN | In-line | |
| VL | L-flow | |

Table 2

| Code | Removal Ratings |
|------|--------------------|
| 15 | 15 nm |
| 30 | 30 nm |

Table 3³

| Code | Index / Outlet | Vent / drain | Mana | |
|------|----------------|--------------|-------------|-----------------|
| Code | Inlet / Outlet | Head end | Bowl end | - Memo |
| 12 | 3/4" male | 1/2" male | 1/2" female | T-flow / L-flow |
| 12 | 3/4" male | 3/8" male | 3/8" male | In-line |
| 124 | 3/4" male | 1/4" male | 1/4" male | In-line |
| 128 | 3/4" male | 1/2" male | 1/2" male | T-flow |
| 13 | 3/4" female | 1/2" female | 1/2" female | T-flow |
| 16 | 1" male | 1/2" male | 1/2" female | T-flow |
| 16 | 1" male | 3/8" male | 3/8" male | In-line |
| 164 | 1" male | 1/4" male | 1/4" male | In-line |
| 168 | 1" male | 1/2" male | 1/2" male | T-flow |
| 17 | 1" female | 1/2" female | 1/2" female | In-line |

Table 4

| Code | Connections | |
|------|--|--|
| 0 | No connection | |
| 1 | 20 Series (Flowell) | |
| 2 | Super Pillar Type (Nippon Pillar) | |
| 51 | Flare style | |
| 6 | Final Lock (Krabo) | |
| 71 | Super Pillar 300 P Series (Nippon Pillar) | |
| 72 | Super Pillar 300 P Series L Type (Nippon Pillar) | |
| 9 | 11CR Series (Flowell) | |

Table 5

| Code | Prewet Option |
|------|---|
| -K3 | Prewet filter (packaged in DI water) |
| -K7 | Prewet filter (packaged in DI water), low metal extractables ⁴ |

⁴ Disposable capsules are not available with every option. Please contact Pall for part number availability.



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IF APPLICABLE Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use

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 $^{^{\}rm 5}$ Please contact Pall for the extractable conditions.