



Pall Corporation

Ultipor® GF-HT

High Temperature Gas Cartridges

For Prefiltration of Hot Gases

High temperature gas prefiltration cartridges are glass fiber pleated depth filter cartridges designed for efficient particle removal from high temperature compressed air and gas streams.

Description

The filter elements feature Pall's robust Ultipor GF Plus U100Z glass fiber media and high temperature-resistant polyaramid support and drainage layers, pleated into high area single open-end Code 7 cartridges. They are built to withstand repeated *in-situ* steaming.

They are intended for use as prefilters upstream of Pall Emflon® sterilizing grade gas filters. Efficient prefiltration prolongs the service life of downstream final filters.



Ultipor GF-HT Cartridges

Features and Benefits

Features	Benefits
Fixed fiber matrix with no adhesives or surfactants	Highly stable structure maintains reliable performance and consistent filtrate quality
Pleated media with extremely high dirt holding capacity	- Long service life - Effective protection of downstream final filters
Temperature-resistant materials of construction	- Operation at elevated gas temperatures <i>In-situ</i> steam-sterilizable

Materials of Construction

Component	Description
Filter Medium	Resin-bonded glass fibers on a polyester substrate
Support / Drainage	Resin-bonded polyaramid layers
Core, Cage, Fin End and End Cap	Polypropylene
Adaptor	Polypropylene with internal stainless steel reinforcing ring
O-Ring Seal	Silicone Elastomer

Quality

- Cartridges produced in a controlled environment
- Manufactured according to ISO 9001:2008 certified Quality Management System

Technical Information

The technical information provided is based on controlled laboratory tests done on typical production filters at the conditions described, unless otherwise indicated. Actual operating conditions may affect the filter's performance.

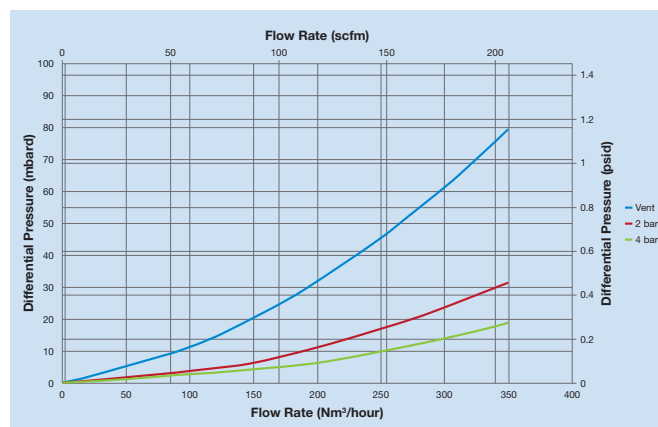
Operating Characteristics in Compatible Gases¹

Max. Differential Pressure	Operating Temperature ²
5.5 bar (80 psid) (forward)	≤ 50 °C (122 °F)
4.1 bar (60 psid) (forward)	≤ 80 °C (176 °F)
300 mbar (4.4 psid) (reverse)	in normal operation or <i>in-situ</i> steam sterilization

¹ Air, nitrogen, or other compatible gases

² Please contact Pall for guidance on use at temperatures exceeding 80 °C (176 °F)

Typical Flow Rates³



³ Typical clean Δp per 254 mm (10") cartridge, air at 20 °C (68 °F). For gases other than air and for multi-round cartridge installations, please contact Pall for proper sizing.

Steaming

Cumulative Steaming Time ⁴	Steaming Temperature
50 30-minute cycles	125 °C (257 °F)

⁴ Based on Ultipor GF Plus media performance. Please see FBUGFWEN for reference. The actual cumulative time depends on process conditions. For applications requiring steam sterilization Pall recommends the use of Code 7 adaptors to ensure filter sealing after cooling. Cartridges should be cooled to system operating temperature prior to use.

Removal Rating

The removal rating of the Ultipor GF-HT gas prefilter is 10 microns in liquid service, with an efficiency⁵ of 99.98 %. This removal performance results in a typical⁶ gas removal rating of 1-2 microns in dry gases.

⁵ Beta 5000 as determined by modified OSU F2 test

⁶ Due to the enhanced particle removal efficiencies in gases, the approximate ratings for gas service can be calculated by dividing the liquid rating in μm by between 5 and 10.

Ordering Information

This information is a guide to the part numbering structure and possible options. For availability of specific options and housing details, please contact Pall.

Part Number: **TA7** **HT 003 A**

Table 1

Example Part Number: **TA7 2 HT 003 A**
See bold reference code in table.

Table 1: Nominal Length

Code	Length
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")



Pall Corporation

Pall Food and Beverage

New York - USA
+1 516 484 3600 telephone
+1 866 905 7255 toll free

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

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.pall.com/corporate_contact.asp

Please contact Pall Corporation for product applicability to specific National legislation and/or Regional Regulatory requirements for water and food contact use.

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.

© Copyright 2014, Pall Corporation. Pall, , Ultipor and Emflon are trademarks of Pall Corporation. ® Indicates a trademark registered in the USA. *Filtration. Separation. Solution.*SM is a service mark of Pall Corporation.