





AURORA® FILTERS has developed a line of portable Filter Systems that combine a single plate vacuum filtration device with a jacketed glove box surrounded by a heating/cooling jacket.

This design allows for the filtration, drying, discharging and packaging of product in an enclosed, inert environment, and ensures product integrity and safe working conditions.

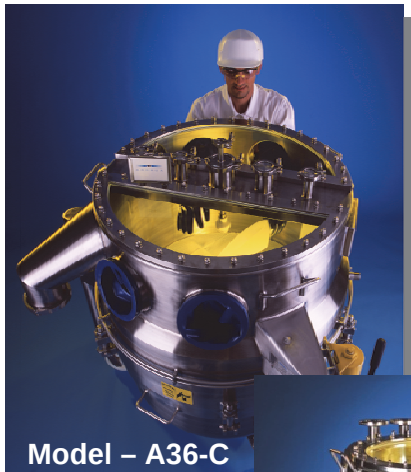
Typical applications are the kilo lab and pilot plant production of pharmaceutical bulk actives, intermediates and fine chemicals that are sensitive to the atmosphere, or are produced in volatile solvents.

**FILTRATION ~ DRYING ~ DISCHARGE ~ CLEANING
FULLY CONTAINED ~ INERT ENVIRONMENT
PRODUCT INTEGRITY ~ SAFE WORKING CONDITIONS
TOTAL PRODUCT RECOVERY ~ SAMPLING CAPABILITIES
FAST ~ EASY ~ CLEANING AND VALIDATION**



AURORA® FILTERS offers a range of Models to suit specific needs and ranges of product being produced. The Model Numbers correspond to the size of the filter, the material that it is manufactured from and the style of flanges used for the process nozzles. The P-Series Models are designed for +/- 14.7psi (+/- 1bar) pressure throughout the filter.

Model	Nominal Diameter	Filter Area	Cake Capacity
A14 / P14	14" (350mm)	1.0 ft ² (0.10m ²)	2L min / 10L max
A14X / P14X	14" – tall (350mm)	1.0 ft ² (0.10m ²)	2L min / 15L max
A20 / P20	20" (500mm)	2.1 ft ² (0.20m ²)	4L min / 30L max
A26 / P26	26" (660mm)	3.7 ft ² (0.34m ²)	6L min / 52L max
A36 / P36	36" (914mm)	7.1 ft ² (0.66m ²)	12L min / 100L max
A48 / P48	48" (1210mm)	12.3 ft ² (1.14m ²)	21L min / 174L max



Model – A36-C



Model – A26-S

AURORA® FILTERS is working hard to accommodate the needs of our customers. Over the years, we have developed standardized products with features to meet our customer expectations; however, we have come to realize that we can't possibly predict all of our customer's requirements. To this end, we are offering a variety of Custom Options for our customer's consideration.

Flange Type Code	Flange Type Description
- SF	Type 3A Sanitary Ferrule Fittings
- AF	150# ANSI Flanges
- DF	DIN Flanges

Material Type Code	Internal Exposed Material
- S	316L Stainless Steel
- H	316L SS with HALAR® Lining
- E	316L SS with ETFE 1020® Lining
- C	Hastelloy C22

Options

AF-LD-002	Integral Manual Lifting Device for A14/P14, A14X/P14X, and A20/P20
AF-PTC-001	Pressurized Top Chamber
AF-PGP-001/2/4	Glove Port Pressure Equalization System for P-Series Filters
AF-PC-001....006	Optional Product Chute Configurations
AF-N2-XP1/XP2	Portable Nitrogen Preheater
AF-1K-001	I Kilo Batch Size Adapter Plate Assembly for A14/P14 and A14X/P14X Models
Other Options	See Options Feature Card

INTEGRAL MANUAL LIFTING DEVICE



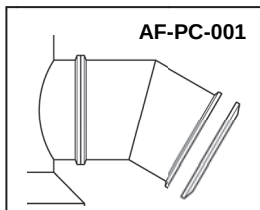
Lower Chamber is manual lowered with ACME thread and then pivots out and clear of the Upper Chamber.



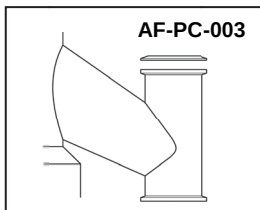
The Lower Chamber can be either worked on in this position or lifted onto a workbench in the supplied holding jig eliminating the need for auxiliary lifting equipment within the confines of your laboratory.

Standard on all A14/P14, A14X/P14X, and A20/P20 Models
Larger models have an Integral Hydraulic System.

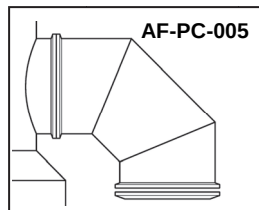
PRODUCT CHUTE OPTIONS



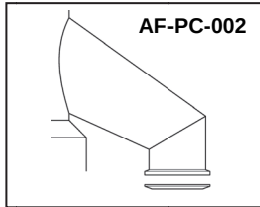
AF-PC-001



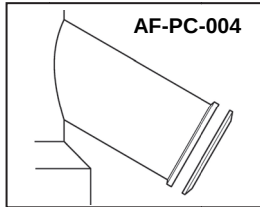
AF-PC-003



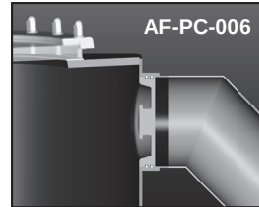
AF-PC-005



AF-PC-002



AF-PC-004



AF-PC-006

Product Chutes can be customized to suit a variety of product receivers, isolation valves, continuous liner systems, and other systems specific to the customers laboratory requirements

AF-PC-001 – 6" / 8" Rotational
AF-PC-002 – 4" / 6" / 8" Downward Projection
AF-PC-003 – 4" / 6" Downward Projection with Vent / Sightglass
AF-PC-004 – 6" / 8" Straight Angle
AF-PC-005 – 4" / 6" / 8" Downward Projection and Rotational
AF-PC-006 – Teflon Plug – Available on AF-PC-001 and AF-PC-005 rotational and non-rotational



Model – P14X-S with ILC Dover Continuous Liner System

Highly Potent API's (OEL < 0.30 µg/m³)

AURORA® FILTERS has worked with industry leaders in high containment technology.

Pharmaceutical companies working with OEB 5 Highly Potent API turn to AURORA FILTERS to supply integrated, safe, workable, affordable solutions.

Achieving OEL levels of less than 0.30µg/m³ is possible with the AURORA FILTER together with ILC Dover Continuous Liner and Secondary Discharge Glove Box Enclosure.



Model – P14X-S with ILC Dover Continuous Liner System and Secondary Discharge Glove Box Enclosure

Model – P20-C
fitted with
Pressure Rated
Isolation Valve
and Rupture Disk



AURORA® FILTERS offer safe, affordable solutions for Kilo Labs and Pilot Plants.

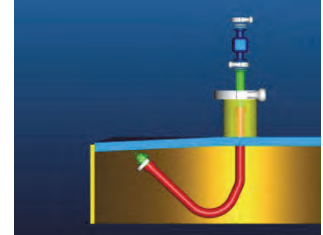
Easy to Use ~ Easy to Clean ~ Mobile
Multi-Product Adaptability
Total Product Recovery
Safe and Simplistic Manual Operation
Protection for both Operator and Product
GMP Design

AURORA® FILTERS offers a wide variety of special feature options including;

- Small Batch Adapter Plate – Reduces the minimum batch size on A14/P14 and A14X/P14X Models
- Glove Integrity Test Kit – for P-Series Filters only
- Spray Gun or Spray Nozzle CIP System
- Interior Tool Hooks on A36, P36, and A48 Filters
- Anti Static Castors
- Fork Lift Handling Brackets for A36 / P36, and A48 / P48 Filters
- Pressure Gauges on Upper and/or Lower Chamber
- Customize the Height of the A-Series or P-Series - 14" and 20" Filters
- Sampler Ports or other additional nozzle can be added
- Customize Pressure ASME Rating of Heating/Cooling Jacket
- CE Label, ATEX Report, FAT Test Protocol
- Spare Parts Kits available for all Filter Models
- AURORA FILTERS can assist in supplying a wide range of Auxiliary Equipment including Ball Valves, Isolation Valves, Gas Regulators, Gloves, etc



Internal Teflon Spray Gun or Nozzle for Wash

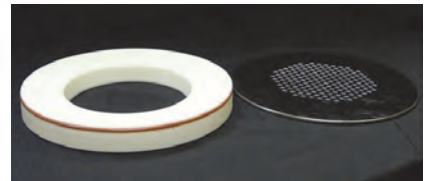
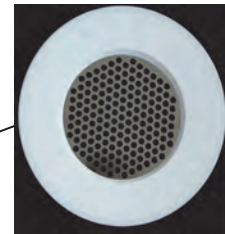
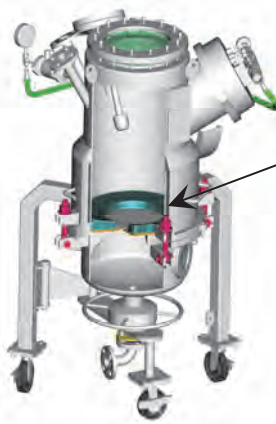


SMALL BATCH ADAPTER PLATE

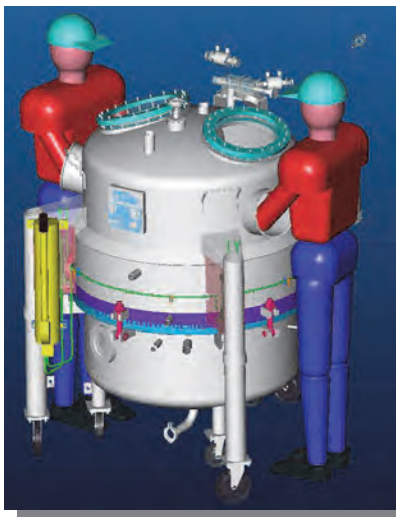
This option converts new and existing Model A14 and A14X AURORA FILTERS into smaller filter areas while maintaining all of the features that are inherent in the AURORA® FILTERS.

The Adapter Plate Kit is customer sized to the customer required specifications to produce a ¾" (18mm) cake with an equivalent filter area as determined by the customer. The operation of the filter is exactly the same as the standard Model A14 and A14X filters.

The 1 Kilo Batch Adapter Plate is made of Teflon with an accompanying filter plate in the applicable material to match the new or existing Model A14/P14 or A14X/P14X filter. Easy to clean and adapt to your next production batch.



AURORA® FILTERS manages the entire project start to finish including all engineering, fabricating, machining, polishing, assembly, and FAT testing in house.



ENGINEERING
~
FABRICATION
~
QUALITY ASSURANCE
~
RELIABILITY

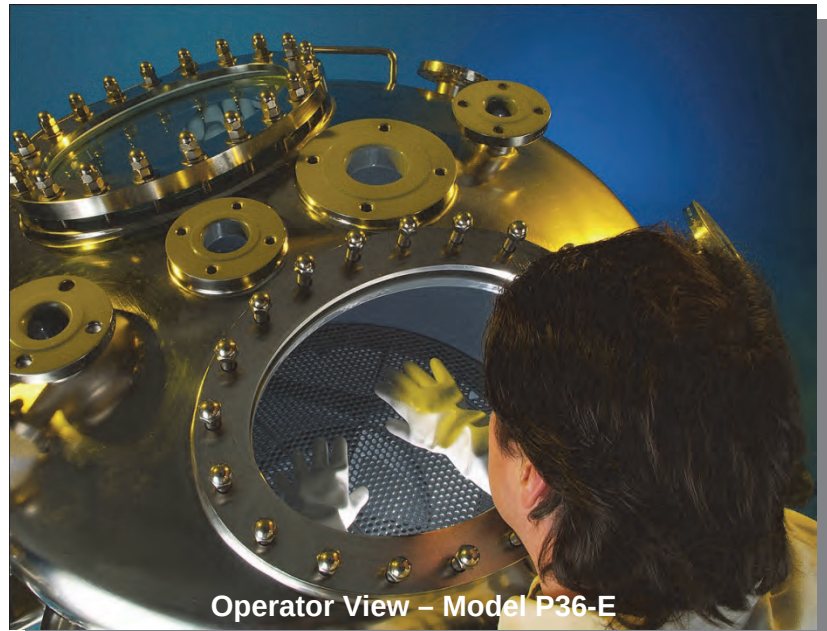


AURORA® FILTERS P-SERIES PRESSURE RATED FILTERS



AURORA® FILTERS P-Series Filters are designed for 14.7psi and Full Vacuum operating conditions. These filters feature the AF-PGP-001 Glove Port Pressure Equalization System which allows the filter to be pressurized without the requirement of removing the drybox gloves and therefore maintaining containment and the protective inert environment throughout the filtration and drying sequence.

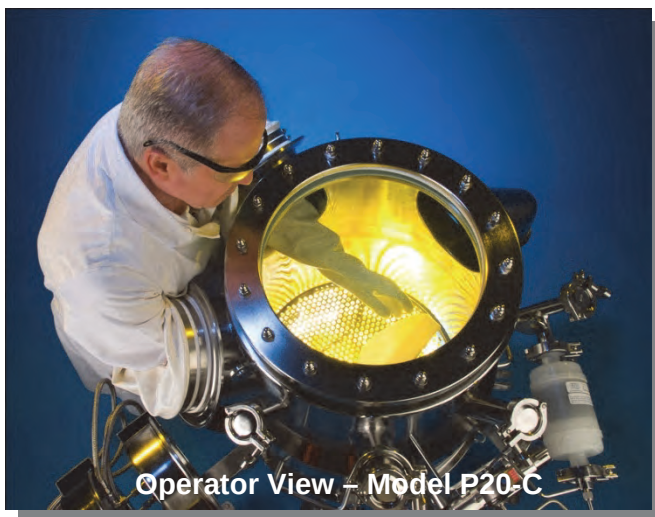
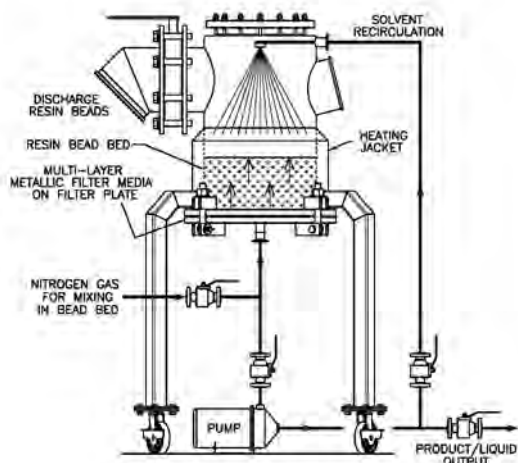
The P-Series features all the standard design parameters and common safety and operating features that you are accustomed to with the AURORA® FILTERS A-Series Product Line.



FEATURES AND BENEFITS

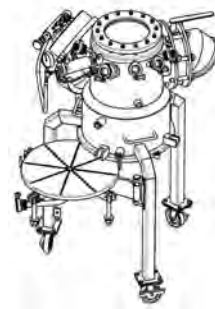
- Filter designed for 14.7psi to Full Vacuum conditions throughout.
- Glove Box Pressure Equalization System - User protection engineered into the system with the inclusion of a HEPA Style Carbon Filter and safety purging system
- Maintaining large viewing window for operator.
- Available in all AURORA FILTERS Model sizes
- Isolation Valve required for Product Chute – not included in standard scope of supply.
- Can be designed to elevated pressure conditions to ASME Section VII Div 1.
- New design has convenient hinged glove port caps (not shown)

AURORA® FILTERS PEPTIDES SERIES PRESSURE RATED FILTERS



AURORA® FILTERS introduces Solid-Phase Synthesis Processor for GMP Peptide production featuring;

- Totally contained inert environment for GMP process offering both product and operator protection
- Versatile mixing, solvent interchange options
- Complete visibility for operator control
- Total solids discharge of dried product
- Easy cleaning and verification, mobile, simple solution



AURORA® FILTERS XP SERIES NITROGEN PRE-HEATER



Model - AF-N2-XP1 with P14X-S

This system allows operators to regulate the Pressure, Flow and Temperature of the product system inert gas in connection with all **AURORA® FILTERS** models and can be adapted to other equipment in the laboratory.

The small, compact, portable design is ideal for Kilo Lab and Pilot Plant facilities, has standard power requirements, and includes safety details and limits engineered into the system.

- Class I Div I or Div II Groups A, B, C, D Hazardous locations
- Max 80OC, 120psi, 100scfh
- 12-VAC, 1 phase, 60hz requirement



CONTACT INFORMATION

AURORA FILTERS Head Office:



AURORA FILTERS – Division of All-Weld Company Limited

49 Passmore Avenue

Toronto, ON

M1V 4T1 Canada

Toll Free in Canada and USA: 888-368-8884

Phone: 416-299-3311

Fax: 416-299-3387

info@aurorafilters.com

www.aurorafilters.com

General Manager: Scott W.A. Dunsmoor, P.Eng.,

Service Manager: Brian Weedon

Representative for Europe, Asia, and Australia:



Sepratech International Inc.

Cheshire, United Kingdom

Phone: +44 7803 195837

sepratech@aol.com

www.sepratech.co.uk

Contact: Paul Devine

Representative for North America
and South America:



Sentinel Process Systems Inc.

Corporate:

Hatboro, PA

Phone: 800-345-3569 (800-345-FLOW)

sales@sentinelprocess.com

www.sentinelprocess.com

www.kilolabs.com

Contact: Paul Tramo

Satellites

New England:

Marlboro, MA

Phone: 508-624-5577

nesales@sentinelprocess.com

North Carolina:

Cary, NC

Phone: 919-854-4657

ncsales@sentinelprocess.com

Maryland:

Baltimore, MD

Phone: 410-654-9388

mdsales@sentinelprocess.com



Model – P20-S



See us at Informex, Interphex, ChemShow, and
various table-top exhibits world-wide.

Thank you for your interest in AURORA FILTERS – We welcome the opportunity to serve you.

www.aurorafilters.com