



PURPOSE

This is a comprehensive guide for maintaining, washing, ordering, and/or replacing projector filters.

CONTENTS

FILTER ORDERING GUIDE.....	2
Sony Filters	2
Christie Filters	2
Barco Filters.....	3
Barco Filter Cleaning Kit	3
NEC	3
SONY PROJECTOR FILTERS.....	4
SRX-R210/R220 (2 or 3 Filters)	4
SRX-R320 (3 Filters)	5
CHRISTIE XENON PROJECTOR FILTERS	6
CP2000S/B/H/M (1 Filter)	6
CP2000ZX (1 Filter)	6
CP2220/2230/4220/4230 (3 Filters)	7
CP2210/2215 (1 Filter)	7
CHRISTIE LASER PROJECTOR FILTERS	8
CP2309/2315/2320 (RGB) (2 Filter)	8
CP4330 (RGB) (2 Filters)	9
CP4420/4425/4435 (RGB) (2 Filters)	10
BARCO XENON PROJECTOR FILTERS	11
DP-2000 (3 Filters).....	11
DP-3000 (2 Filters).....	12
DP2K-xxS (2 Filters)	13
DP2K-xxB & DP4K-xxB (3 Filters)	14
DP2K-xxC (3 Filters)	15
BARCO BLP (Laser) PROJECTOR FILTERS	16
DP4K-xxBLP (3 Projector Filters + Cooler Filters)	16
BARCO SERIES 4 (Laser) PROJECTOR FILTERS	18
Cleaning.....	18
SP2K-xxS Series (4 Filters)	19
SP4K-xxB & SP4K-xxC Series (4-5 Filters).....	20
NEC SERIES 2 PROJECTORS	21
NC1200C – NC2000C – NC3200S (6 Filters).....	21
NC900C-A (2 Filters)	22



FILTER ORDERING GUIDE

Sony Filters

Ordering – Cinema Solutions - Encompass (Sony Filters)

Sony Projector Model	Filter Part Number	Maximum Hours	Number of Filters Per Projector	Tech Required?
SRX-R210 & SRX-R220	A-1728-055-A	Optical filter: 3000 hours	R210 – 1 R220 – 2	No
		PS Converter filters: 5000 hours	1	Yes
SRX-R320	X-2188-463-1	2000 hours	3	No

Christie Filters

Ordering – Cinema Solutions - Christie Xenon Bulbs & Acc

Christie Projector Model	Filter Type	Number of Filters Per Pack	Part #
CP2000S/B/H/M	Main Air Filter	6	03-001981-51p
	LAD Filter	3	03-001982-54P
CP2000ZX	Main Air Filter	5	003-001184-01
CP2210/2215	Assy Filter Air – Card Cage	5	003-002311-01
CP2220/2230/4220/4230	Main Air Filter	5	003-001184-01
	Assy Filter Air Radiator	1	003-007397-01
	LAD Filter	3	03-001982-54P
CP2309/2315/2320 (RGB)	LE Air Filter	6	003-006464-01
	LOS Radiator Filter	6	003-006588-01
CP4330/4425/4435 (RGB)	LE Air Filter	6	003-006464-01
	Radiator Filter	6	003-006463-01
CP4420 (RGB)	LE Air Filter	6	003-006464-01
	Radiator Filter	TBD	003-007079-01



Projector Filter User Guide

AMC ☒

AMC Classic ☒

AMC Dine In ☒

Barco Filters

Most Barco filters can be cleaned. A spare set should be kept on hand for when a deeper cleaning is needed. Filters must be completely dry before reinstalling.

Barco Projector Model	Order Guide Cinema Solutions (CS) or DSSP	Clean or Replace	Name	Part #
DP-2000	CS – Product Catalog – ACE	Replace	Dust filter	R9854475
DP-3000	Open DSSP ticket	Clean	Dust Filter – Front	R829828K
			Dust Filter – Left	R841545K
			Dust Filter Kit	R8298281K
DP2K-xxS	Open DSSP ticket	Clean		
DP2K-xxB DP4K-xxB	ACE – Misc Booth & Box Office	Clean	Filter kit for Barco 32B	R9899604
DP2K-xxC	ACE – Misc Booth & Box Office	Clean	Dust Filter Set DP2K C Series	R9863070
DP4K-xxBLP	Open DSSP ticket	Clean		
SP2K-xxS SP4K-xxB SP4K-xxC (All Series 4 Laser)	Open DSSP ticket	Clean		

Barco Filter Cleaning Kit

Part	Order Guide Cinema Solutions (CS) or DSSP	Name	Part #
OxiClean	CS – Staples Punch-Out	OxiClean Versatile Stain Remover, Regular, 115.52 oz.	5703700069
Electric Blower Duster	CS – Staples Punch-Out	Metro DataVac 500-Watt Electric Blower Duster	ED-500

NEC

NEC Projector Model	Part #	Cinema Solutions Order Guide	Product Name
NC1200C NC2000C NC3200S	D150011	Booth/IMAX/Assistive Listening	BTN FILTER 7" X 7" APSX11773415 NC SERIES PROJ
	D150012	Booth/IMAX/Assistive Listening	BTN FILTER 3.5" X 9.5" APSX113129123420 NC SER
NC900C-A	D150023	ACE - Misc Booth & Box Office	Air Filter Kit



SONY PROJECTOR FILTERS

SRX-R210/R220 (2 or 3 Filters)

Sony projectors have a filter timer that will alert when it is time to change them.

Optical Filter – 3000 Hours

1. Remove the red panel on the left side of the projector.



2. Release the tabs on each filter to remove.

R210 Filter



R220 Filters



3. Insert the new filter(s).
4. Replace the red panel.
5. Reset the timer after changing the filters.
 - a. Log into the PJT using the maintenance account.
 - Username: trsetup
 - Password: setup
 - b. Select Menu > Projector > Filter.
 - c. Select the 'Reset' button for 'Optical Filter Hours.'
 - d. Log out of the PJT.



PS Converter Filter - 5000 Hours (Tech Required)

1. Verify that you have the correct filter available. Order one if you do not have it.
2. Open a [DSSP ticket](#) requesting this filter to be changed. Note in the ticket if you have a spare filter or if one is on order.



SRX-R320 (3 Filters)

Sony projectors have a filter timer that will alert when it is time to change them. For a video guide on how to change filters, please go to the [“How To” Sight & Sound Support Knowledge Library](#) on AMC All Access.

1. Loosen the retaining screw, if secured, on both panels and remove.



2. Release the tabs on each filter to remove.
3. Insert the new filters.



4. Replace the panels.
5. Reset the timer after changing the filters.
 - a) Log into the PJT using the maintenance account.
 - Username: trsetup
 - Password: setup
 - b) Select Menu > Projector > Filter.
 - c) Select the 'Reset' button for 'Optical Filter Hours.'
 - d) Log out of the PJT.



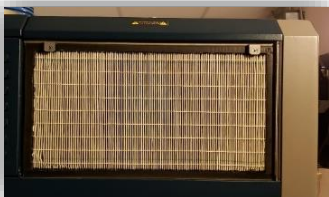


CHRISTIE XENON PROJECTOR FILTERS

CP2000S/B/H/M (1 Filter)

Change filters at least every 6 months. Change more often if the projectors are in a dusty or dirty environment.

1. Use a flathead screwdriver to unscrew the two captive screws and remove the cover on the right.
2. Remove the filter.



3. Write the current date with a silver or white marker on the side of the new filter.
4. Insert the new filter, ensuring the arrow is pointing into the projector.



5. Reinstall the cover.
6. Open a [DSSP ticket](#) for the LAD filter to be replaced.

CP2000ZX (1 Filter)

Change filters at least every 6 months. Change more often if the projectors are in a dusty or dirty environment.

1. Remove the cover (on the right) by pulling the tab on the panel.
2. Remove the filter.



3. Write the current date on the side of the new filter.
4. Insert the new filter, ensuring the arrow is pointing into the projector.
5. Reinstall the cover.



CP2220/2230/4220/4230 (3 Filters)

Change filters at least every 6 months. Change more often if the projectors are in a dusty or dirty environment. For a video guide on how to change filters, please go to the [“How To” Sight & Sound Support Knowledge Library](#) on AMC All Access.

1. Remove the cover on the right front and left front by pulling the tab on the panel.



2. Remove the filter.



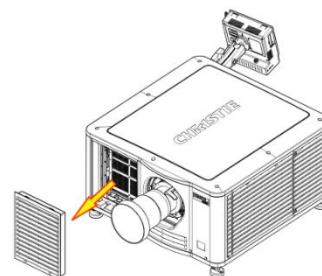
3. Write the current date on the side of the new filter.
4. Insert the new filter, ensuring the arrow is pointing into the projector.
5. Reinstall the cover.
6. Open a [DSSP ticket](#) for the LAD filter to be replaced.



CP2210/2215 (1 Filter)

Change filters at least every 6 months. Change more often if the projectors are in a dusty or dirty environment.

1. Loosen the two captive screws on the bottom of the filter cover and remove.
2. Remove the filter.
3. Write the current date on the side of the new filter.
4. Insert the new filter, ensuring the arrow is pointing into the projector.
5. Reinstall the cover.





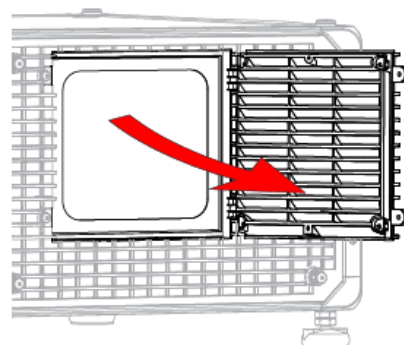
CHRISTIE LASER PROJECTOR FILTERS

CP2309/2315/2320 (RGB) (2 Filter)

Change filters at least every 6 months. Change more often if the projectors are in a dusty or dirty environment.

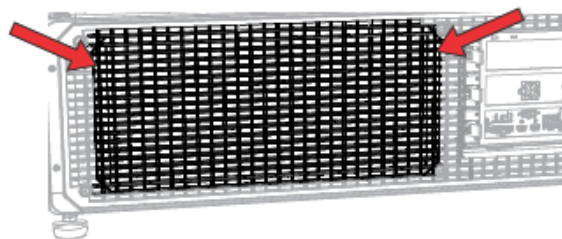
Light Engine Filter

1. Release the two captive screws on the filter door, located on the right side of the projector, and open the door.
2. Remove the filter.
3. Write the current date on the side of the new filter.
4. Insert the new filter, ensuring the arrow is pointing into the projector.
5. Reinstall the cover.



LOS Filter

1. Release the two captive screws on the filter door, located on the left side of the projector, and remove the door.
2. Remove the filter by sliding it up and out of the door.
3. Insert the new filter.
4. Reinstall the cover.



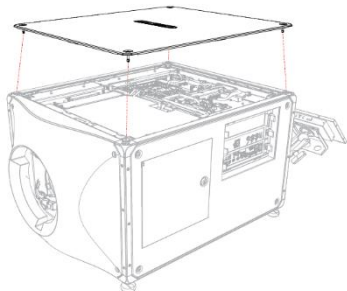


CP4330 (RGB) (2 Filters)

Change filters at least every 6 months. Change more often if the projectors are in a dusty or dirty environment.

Light Engine Filter

1. Release the four captive screws on top. Open the door on the left side of the projector and disengage the top cover pin.



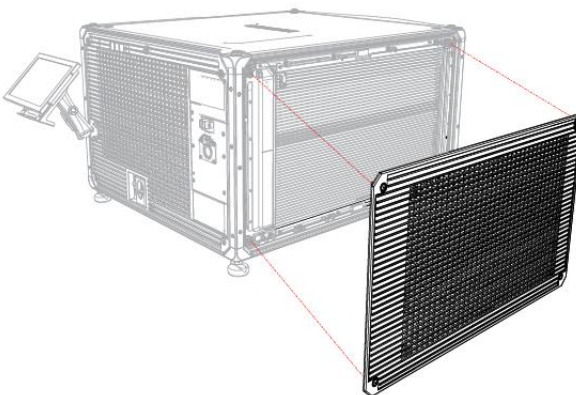
2. Release the two captive screws on the air filter bracket and remove.



3. Lift the air filter out of the projector.
4. Write the current date on the side of the new filter.
5. Insert the new filter, ensuring the arrow is pointing into the projector.
6. Reinstall the filter bracket and top cover.

Main Intake Filter

1. Release the four captive screws on the right-side panel and remove the panel.
2. Remove the filter.
3. Insert the new filter.
4. Reinstall the side panel.





Projector Filter User Guide

AMC ☒

AMC Classic ☒

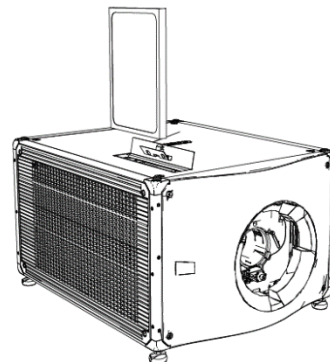
AMC Dine In ☒

CP4420/4425/4435 (RGB) (2 Filters)

Change filters at least every 6 months. Change more often if the projectors are in a dusty or dirty environment.

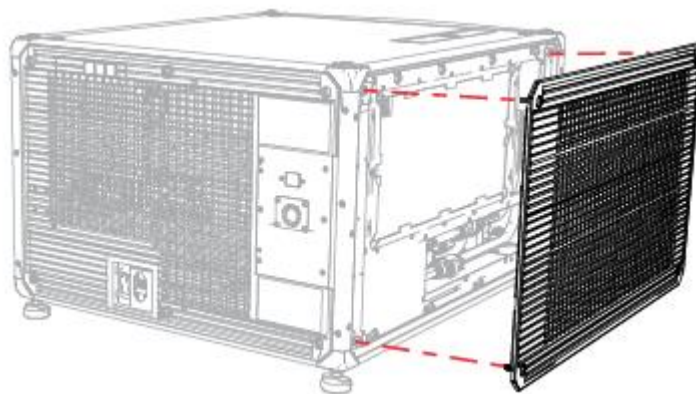
Light Engine Filter

1. Slide the small door on the top of the projector towards the middle to open.
2. Lift the air filter out of the projector.
3. Write the current date on the side of the new filter.
4. Insert the new filter, ensuring the arrow is pointing into the projector.
5. Close the filter door.



Main Intake Filter

1. Release the four captive screws of the panel on the right side of the projector.
2. Remove the side cover.



3. Remove the filter.
4. Insert the filter by feeding behind the tabs.
5. Reinstall the side panel.

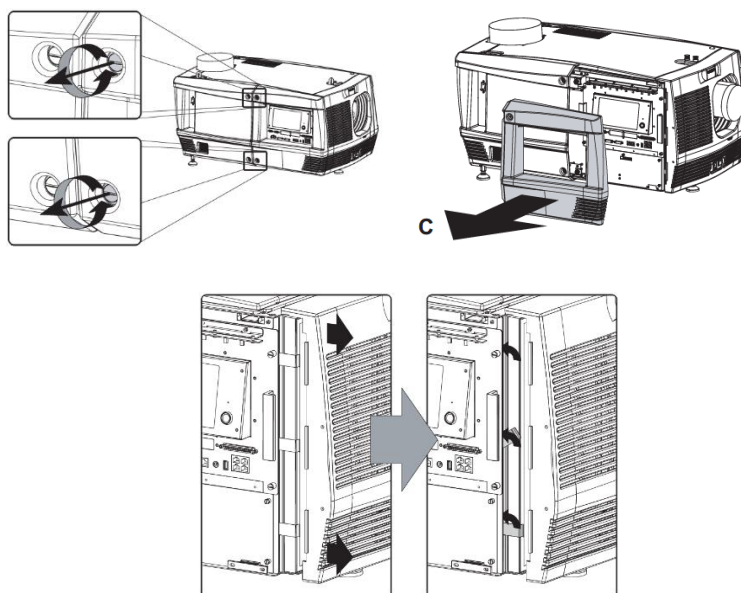


BARCO XENON PROJECTOR FILTERS

DP-2000 (3 Filters)

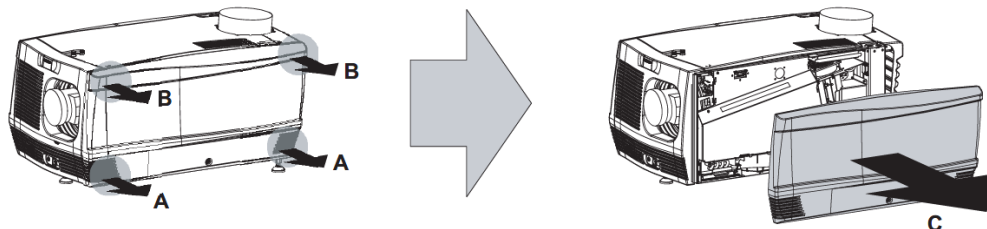
Front Filter

1. Remove the input cover as shown.
2. Release the captive screws on the front cover and pull the non-lens side about 2 inches away from the projector; no need to remove it.
3. Turn the three latches of the front filter compartment 90 degrees counterclockwise.
4. Remove and replace the filter.
5. Reinstall the filter latches, front cover, and input cover.

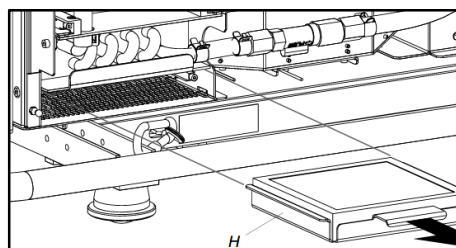
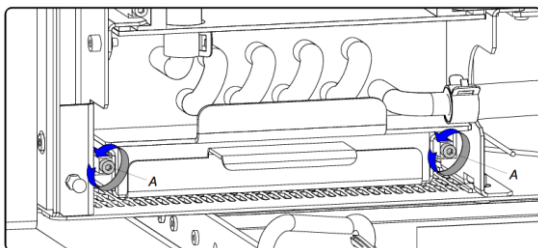


Left Side Bottom and Left Side Top Filters

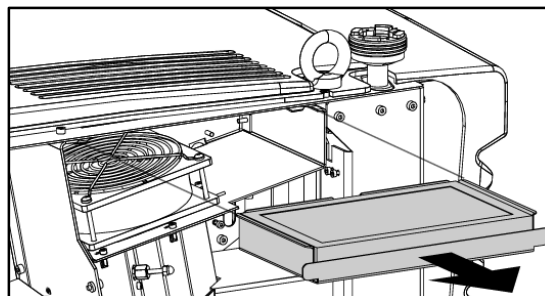
1. Release the single bottom captive screw and remove the left side cover as shown below.



2. Loosen, do not remove, the two screws shown below using a 2.5mm Allen key.
3. Pull out the filter holder and replace the filter.



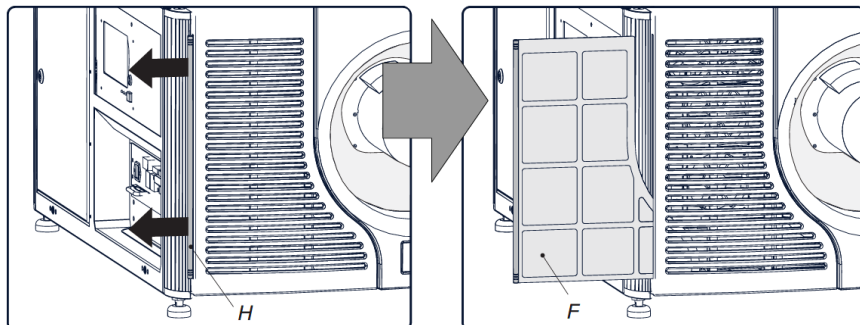
4. Reinstall the filter holder and tighten the screws.
5. Remove the top side filter holder and replace the filter.
6. Reinstall the filter holder and side panel.



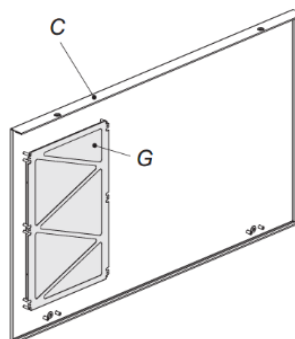


DP-3000 (2 Filters)

1. Turn off the projector.
2. Remove the front filter by the decorative bar as shown below.



3. Remove the left cover from the projector.
4. Remove the filter (G in the image) from the inner side of the cover.
5. Vacuum the dust from the filters, use compressed air, if needed. Wipe off any remaining dust dirt, or grease with a microfiber.
6. Reinstall both filters and the left side projector cover.

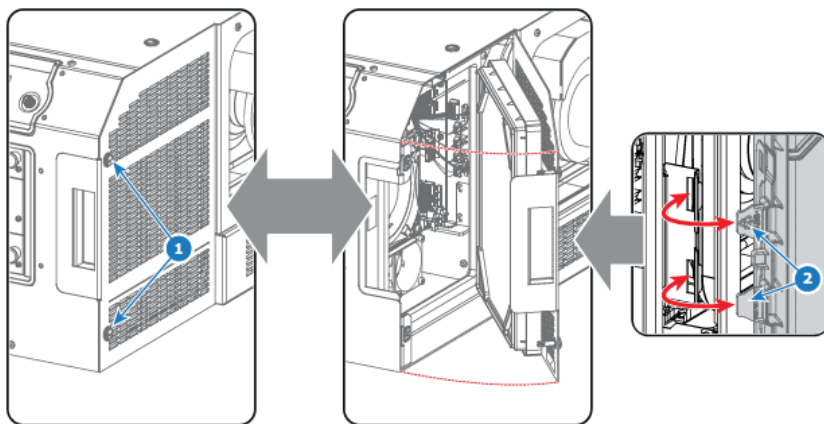




DP2K-xxS (2 Filters)

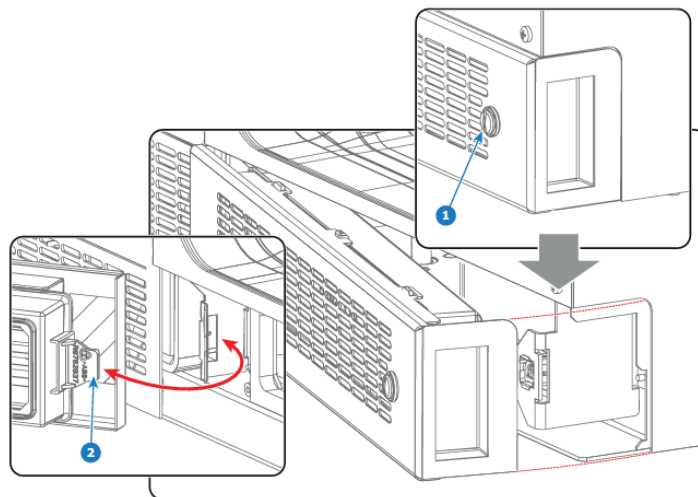
Large Filter

1. Release the two captive screws of the large filter panel on the front of the projector.
2. Remove the panel as shown.
3. Detach the filter and check for dust and grease.
 - a. If dusty, vacuum the filter and return the projector.
 - b. If greasy, clean using the 'cleaning filters' procedure below. Be sure the filter is completely dry before reinstalling.
4. Reinstall the filter and filter panel.



Small Filter

1. Release the captive screw of the small filter panel directly under the lens.
2. Remove the panel as shown.
3. Detach the filter and check for dust and grease.
 - a. If dusty, vacuum the filter and return the projector.
 - b. If greasy, clean using the 'cleaning filters' procedure below. Be sure the filter is completely dry before reinstalling.
4. Reinstall the filter and filter panel.



Cleaning Filters

Make sure you have a spare set of filters before washing.

Never install a filter unless it is completely dry.

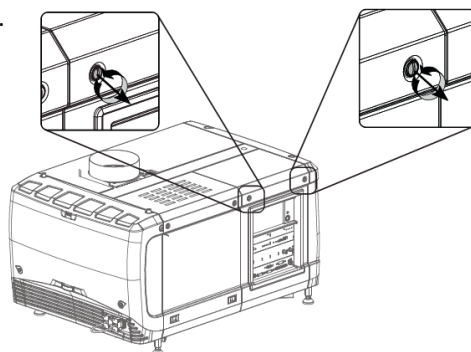
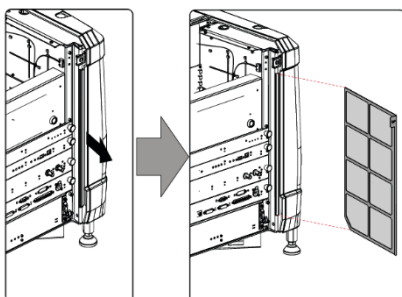
1. Fill a bin two-thirds full of hot water.
2. Mix in OxiClean™ per manufacturer instructions on container.
3. Agitate filters in water for 30 seconds.
4. Leave filters to soak for 30-60 minutes.
5. Rinse filters thoroughly with clean water to remove grease residue.
6. Use compressed air to start the drying process.
7. Air dry filters on a clean shelf for no less than 72 hours.
8. Use compressed air to finish drying, as needed.



DP2K-xxB & DP4K-xxB (3 Filters)

Front Filter

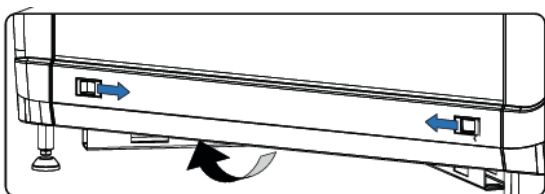
1. Release the two captive screws and remove the input cover as shown.
2. Slide out the filter.



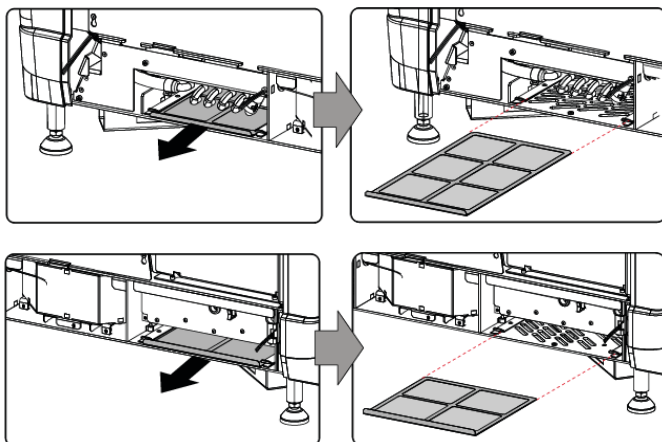
3. Vacuum the dust from the filters. Use compressed air, if needed. Wipe off any remaining dust, dirt, or grease with a microfiber.
4. Reinstall the filter and the input cover.

Bottom Filters (2)

1. Release the two captive screws on the top of the left panel. Push the two tabs at the bottom of the panel towards each other and pull the cover away from the projector.



2. Slide out the bottom front and bottom back dust filters.



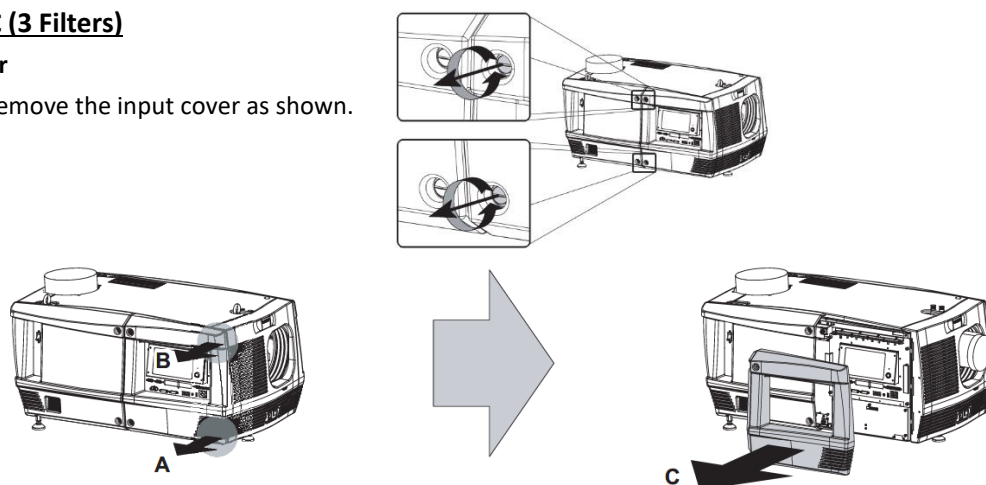
3. Vacuum the dust from the filters. Use compressed air, if needed. Wipe off any remaining dust, dirt, or grease with a microfiber.
4. Reinstall the filters and side cover.



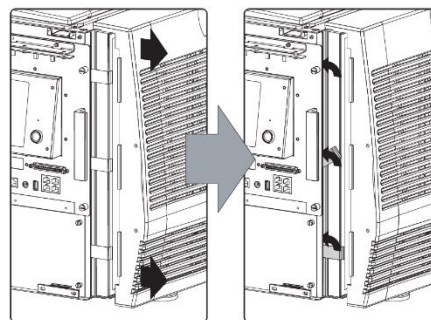
DP2K-xxC (3 Filters)

Front Filter

1. Remove the input cover as shown.

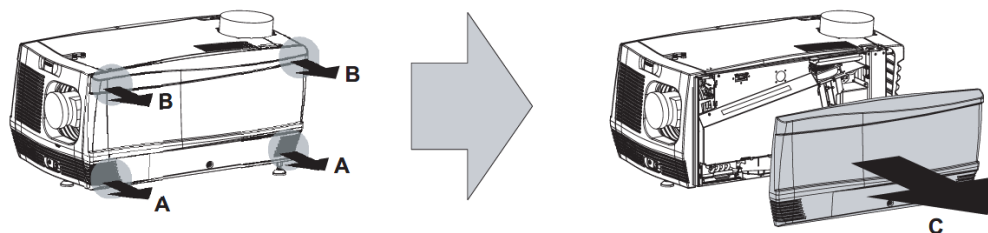


2. Release the captive screws on the front cover and pull the non-lens side about two inches away from the projector; no need to remove it.
3. Slide the filter out.
4. Vacuum the dust from the filters. Use compressed air, if needed. Wipe off any remaining dust, dirt, or grease with a microfiber.
5. Reinstall the filter, front cover, and input cover.

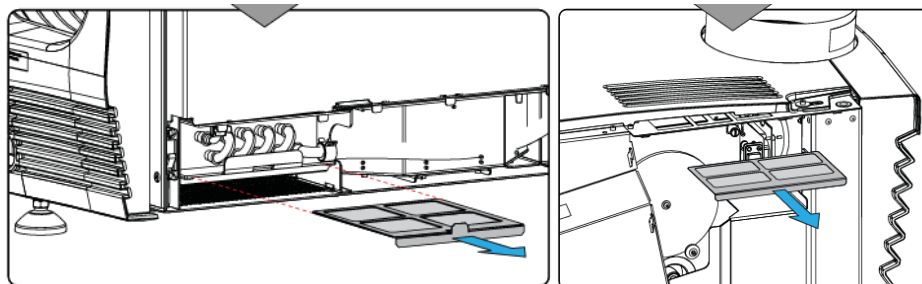


Left Side Bottom and Left Side Top Filters

1. Release the single bottom captive screw and remove the left side cover as shown below.



2. Slide out the bottom side and top side filters.



3. Vacuum the dust from the filters. Use compressed air, if needed. Wipe off any remaining dust, dirt, or grease with a microfiber.
4. Reinstall the filters and side cover.

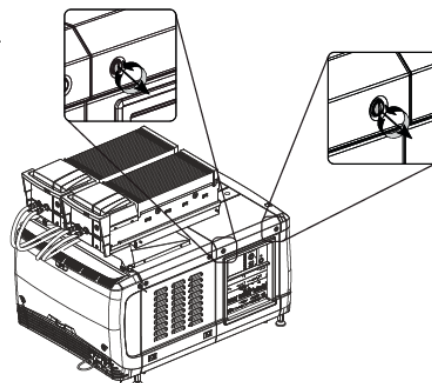
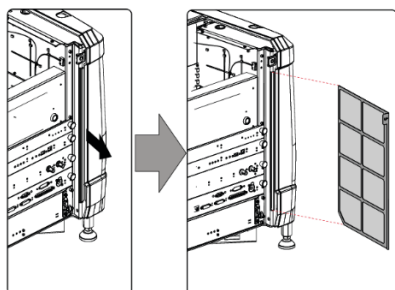


BARCO BLP (Laser) PROJECTOR FILTERS

DP4K-xxBLP (3 Projector Filters + Cooler Filters)

Front Filter

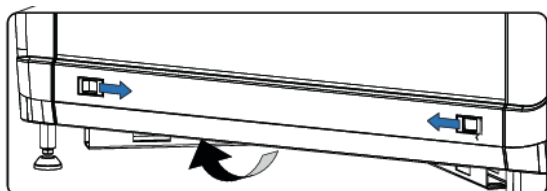
1. Release the two captive screws and remove the input cover as shown.
2. Slide out the filter.



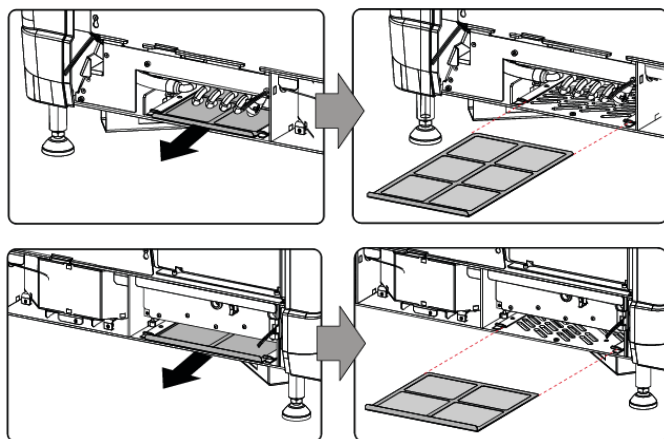
3. Vacuum the dust from the filters. Use compressed air, if needed. Wipe off any remaining dust, dirt, or grease with a microfiber.
4. Reinstall the filter and the input cover.

Bottom Filters (2)

1. Release the two captive screws on the top of the left panel. Push the two tabs at the bottom of the panel towards each other and pull the cover away from the projector.



2. Slide out the bottom front and bottom back dust filters.

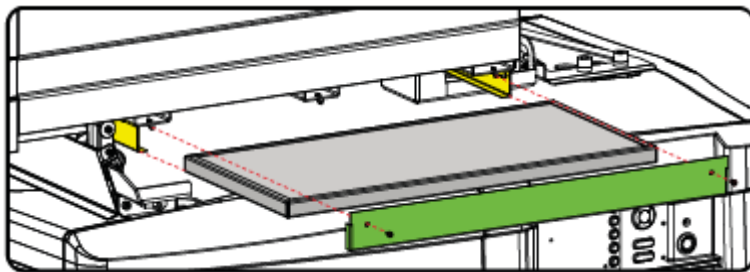


3. Vacuum the dust from the filters. Use compressed air, if needed. Wipe off any remaining dust, dirt, or grease with a microfiber.
4. Reinstall the filters and side cover.



Cooler Filters (1 per Cooler)

1. Release the two captive screws from the cover plate and slide out the filter.



2. Check for dust/grease.
 - a. If dusty, vacuum the filter and return the projector.
 - b. If greasy, clean using the 'cleaning filters' procedure below. Be sure the filter is completely dry before reinstalling.
3. Reinstall the filter and cover plate.

Cleaning Filters

Make sure you have a spare set of filters before washing.

Never install a filter unless it is completely dry.

1. Fill a bin two-thirds full of hot water.
2. Mix in OxiClean™ per manufacturer instructions on container.
3. Agitate filters in water for 30 seconds.
4. Leave filters to soak for 30-60 minutes.
5. Rinse filters thoroughly with clean water to remove grease residue.
6. Use compressed air to start the drying process.
7. Air dry filters on a clean shelf for no less than 72 hours.
8. Use compressed air to finish drying, as needed.



BARCO SERIES 4 (Laser) PROJECTOR FILTERS

Cleaning

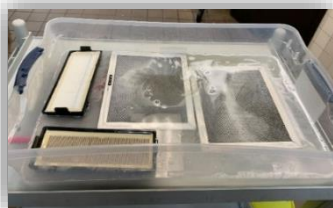
Barco laser projectors use reusable filters that need to be washed annually (or as needed) instead of being replaced. Each site should have one spare set of filters for every four projectors, allowing you to install the spare set while you wash and dry the filters from the projector.

Never install a filter unless it is completely dry.

1. Locate filter maintenance kit.
2. Remove filters as outlined in following sections.
3. Install spare filters.
4. Use included blower to blow out dust from each filter.



5. Fill the clear bin two-thirds full of hot water. Mix in OxiClean™ per manufacturer instructions on container.
6. Agitate filters in water for 30 seconds.



7. Leave filters to soak for at least 30 minutes.
8. Rinse filters thoroughly with clean water to remove grease residue.
9. Use the blower to start the drying process.
10. Air dry filters on a clean shelf for no less than 72 hours.
11. Use the blower to finish drying, as needed.
12. Ensure all components are dry and return the maintenance kit (vacuum, spare filters, Oxiclean) to the black container.

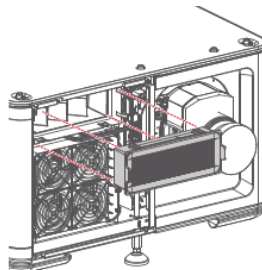
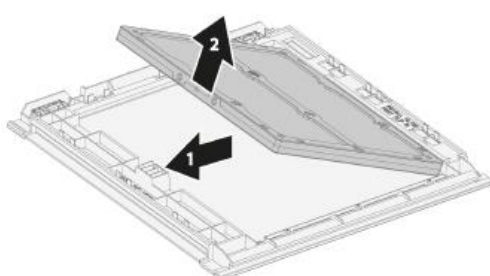
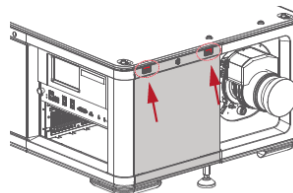


SP2K-xxS Series (4 Filters)

To remove the below described panels, use a flathead screwdriver to gently push down and pull back on the red tabs. Clean all filters using the process outlined in the previous section; for a video guide, please visit the [“How To” Sight & Sound Support Knowledge Library](#) on AMC All Access. Take note of the arrow on the side of the filter as you remove and install your spare set of filters in the same orientation.

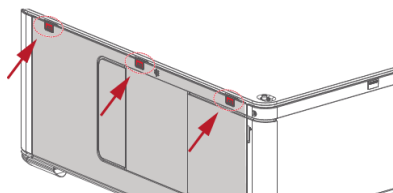
Front Filters (2)

1. Remove the front cover.
2. Unclip the metal filter from the front cover.
3. Pull out the washable paper filter from the projector.

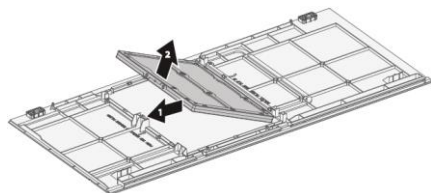


Left Side Filter

1. Remove the left side cover.

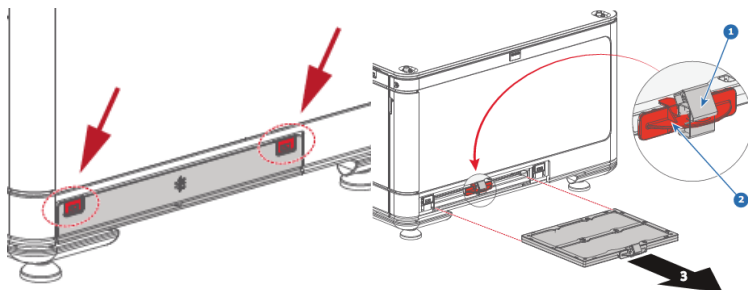


2. Unclip the filter from the side panel.



Rear Filter

1. Remove the rear filter cover.
2. Unlock the filter from the holder by pushing the plastic hook, then slide out the filter.



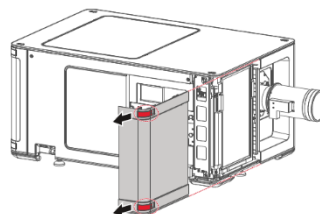
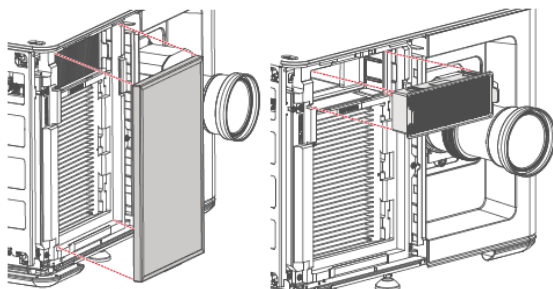


SP4K-xxB & SP4K-xxC Series (4-5 Filters)

To remove the below described panels, pull both red tabs at the same time in indicated direction. Clean all filters using the process outlined in the previous section; for a video guide, please visit the [“How To” Sight & Sound Support Knowledge Library](#) on AMC All Access. Take note of the arrow on the side of the filter as you remove and install your spare set of filters in the same orientation.

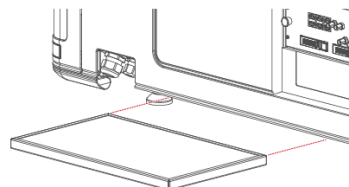
Front Filters (2)

1. Remove the front cover.
2. Detach the filter from the holder.
3. Pull out the washable paper filter from the projector.



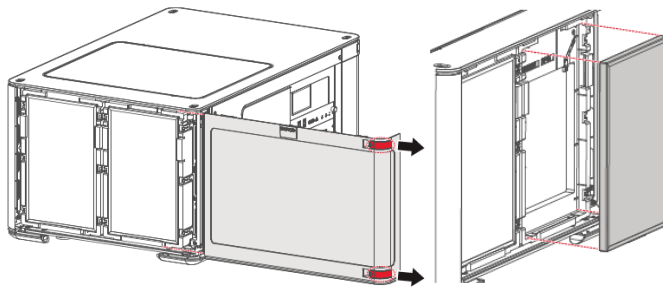
Right Side Filter

1. Locate the filter on the underside of the projector on the right side.
2. Slide the filter out, the power cable may need to be moved aside.



Rear Filter(s) (1-2)

1. Remove the rear cover.
2. Detach the filter(s) from the holder.





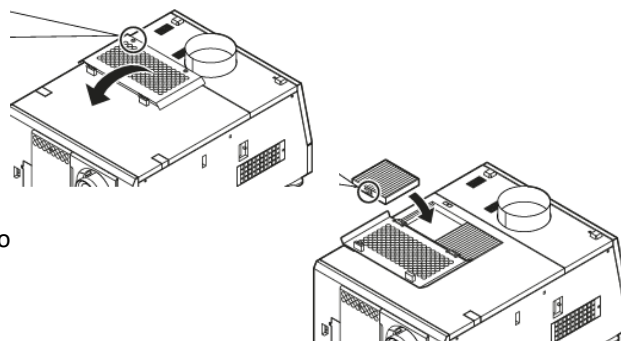
NEC SERIES 2 PROJECTORS

NC1200C – NC2000C – NC3200S (6 Filters)

Change filters at least every 6 months. Change more often if the projectors are in a dusty or dirty environment.

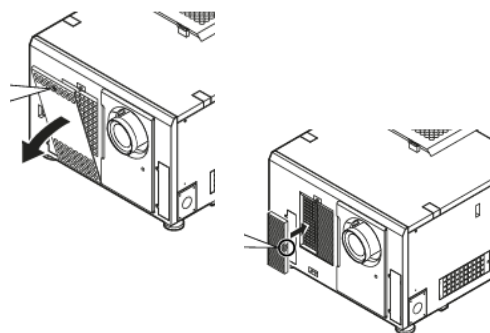
Top Filters (2)

1. Open the top air inlet cover using the hinge.
2. Remove the filter cover by pushing in the spring latch.
3. Remove the filters.
4. Write the date on the side of the new filters.
5. Install the new filters, making sure the arrow points into the projector.
6. Reinstall the filter cover and close the inlet cover.



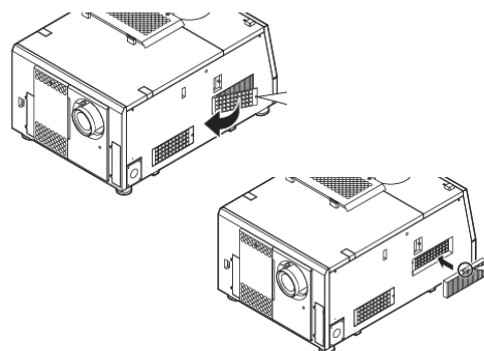
Front Filters (2)

1. Remove the front air inlet cover.
2. Remove the filter cover by pushing in the spring latch.
3. Remove the filters.
4. Write the date on the side of the new filters.
5. Install the new filters, making sure the arrow points into the projector.
6. Reinstall the filter and inlet cover.



Left Side Filters (2)

1. Remove the filter covers (2) by pushing in the spring latch.
2. Remove the filters.
3. Write the date on the side of the new filters.
4. Install the new filters, making sure the arrow points into the projector.
5. Reinstall the filter and inlet cover.



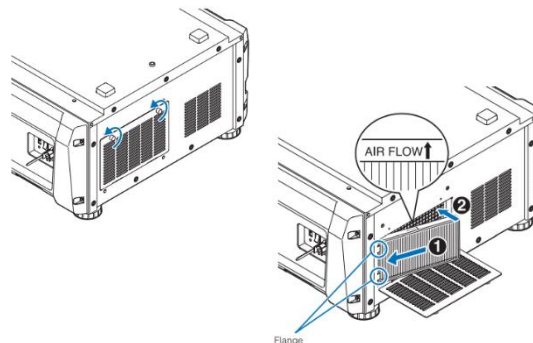


NC900C-A (2 Filters)

Change the filters with every lamp change.

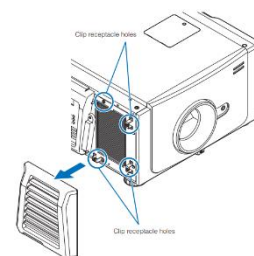
Rear Filter

1. Loosen the knobs on the filter cover.
2. Tilt the cover towards you to open.
3. Remove the filter.
4. Write the date on the side of the new filters.
5. Install the new filters, making sure the arrow points into the projector.
6. Close the filter cover and tighten the knobs.



Side Filter

1. Remove the filter cover by grasping the top and bottom edges and pulling towards you to detach from the clips.
2. Remove the filter.
3. Write the date on the side of the new filters.
4. Install the new filters, making sure the arrow points into the projector.
5. Reinstall the filter cover.



Reset Usage Time

1. In the menu, navigate to Configuration – Reset.
2. Select 'Filter Usage' and Reset.

