

# KOOLAIR

## series

# KRRH

Filterholder return  
grilles

ISO 9001

BUREAU VERITAS  
Certification

Sistema de Gestión



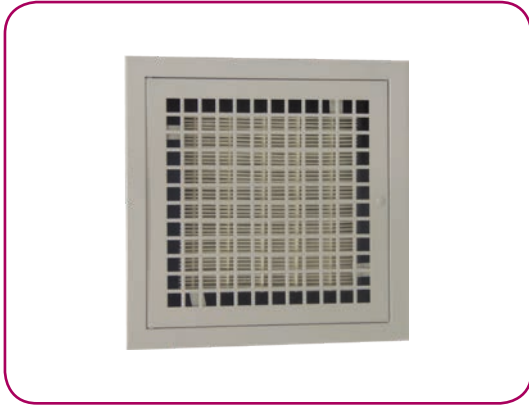
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## CONTENTS

Description and coding	2
Dimensions	3
Technical data. Selection tables	4

## Filterholder return grilles



### Description

Filterholder return grille for installation in clean rooms, pharmaceutical industries and hospital settings.

Possibility of G4 to F7 filtration (48 mm) or G4 (13 mm) + F7 (25 mm) double filtration.

### Characteristics and application

Return grilles for air evacuation in surgical theatres and rooms with high cleanliness requirements.

This filter is easy to clean and can be seen from the room, which makes clogging easy to check for fast, simple maintenance.

Filters installed flush with the grille to prevent "dead areas" with quick 1/4-turn tab changes.

Lateral or top connection plenum manufactured. Differential pressure meter included.

Includes test fitting to monitor pressure loss across the filter.

Possibility of ceiling mount.

Air evacuation from surgical theatres with F5 filtration as recommended in NF S 90-351.



### Finish

Standard finish in galvanized steel, epoxy paint, RAL 9010 color.

By special order, other RAL colours can be requested.

Optional AISI 304 stainless steel.

Control damper accessible from room.

### Accessories

- PS: Plenum box with upper discharge.
- PL: Lateral discharge plenum
- PE: Pyramidal plenum box with lateral discharge
- 29-O: Control damper in discharge.

## Product codes

**KRH:** Filterholder return grille with G4 filtration

**KRH-2:** Filterholder return grille with G4+F7 double filtration

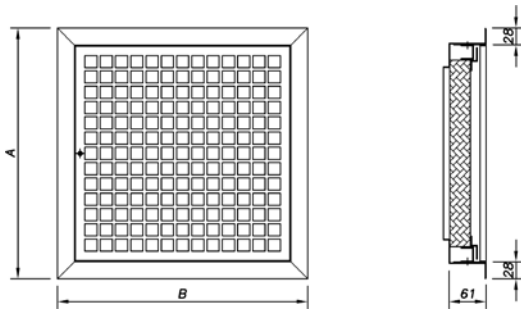
### Coding example

KRH-2 - PL+29-O

Filterholder return grille with double filtration, plenum box with lateral discharge including control damper in the discharge.

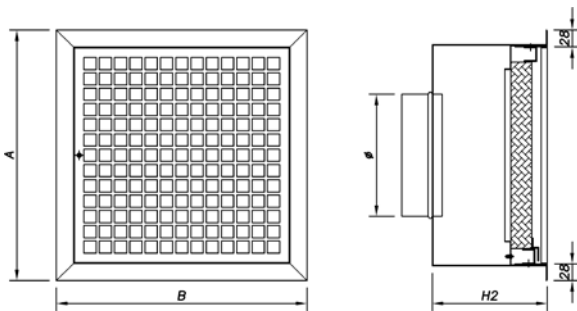
## Dimensions

### KRH



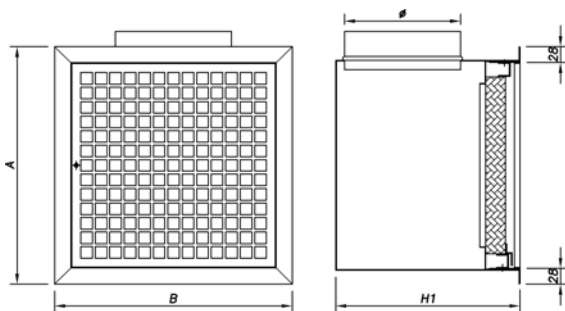
MODEL	FILTER			GRILLE			
	A	B	H	A	B		
KRH 3015 R	305	x	150	x	48	415	260
KRH 3915 R	395	x	150	x	48	505	260
KRH 3030 R	305	x	305	x	48	415	415
KRH 3039 R	305	x	395	x	48	415	505
KRH 3049 R	305	x	490	x	48	415	600
KRH 4930 R	490	x	305	x	48	600	415
KRH 3939 R	395	x	395	x	48	505	505
KRH 3061 R	305	x	610	x	48	415	720
KRH 6130 R	610	x	305	x	48	720	415
KRH 3949 R	395	x	490	x	48	505	600
KRH 3961 R	395	x	610	x	48	505	720
KRH 4949 R	490	x	490	x	48	600	600
KRH 4961 R	490	x	610	x	48	600	720
KRH 6161 R	610	x	610	x	48	720	720
KRH 4991 R	490	x	915	x	48	600	1025
KRH 7676 R	762	x	762	x	48	872	872

### KRH-PS



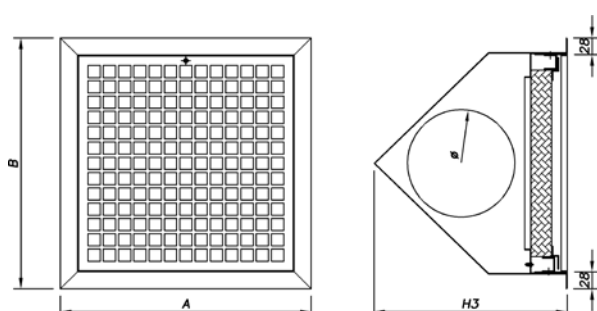
MODEL	FILTER			GRILLE		LATERAL PLENUM BOX		
	A	B	H	A	B	H2	Ø	
KRH 3015 PS	305	x	150	x	48	415	260	125
KRH 3915 PS	395	x	150	x	48	505	260	160
KRH 3030 PS	305	x	305	x	48	415	415	200
KRH 3039 PS	305	x	395	x	48	415	505	200
KRH 3049 PS	305	x	490	x	48	415	600	250
KRH 4930 PS	490	x	305	x	48	600	415	250
KRH 3939 PS	395	x	395	x	48	505	505	250
KRH 3061 PS	305	x	610	x	48	415	720	250
KRH 6130 PS	610	x	305	x	48	720	415	250
KRH 3949 PS	395	x	490	x	48	505	600	315
KRH 3961 PS	395	x	610	x	48	505	720	315
KRH 4949 PS	490	x	490	x	48	600	600	315
KRH 4961 PS	490	x	610	x	48	600	720	355
KRH 6161 PS	610	x	610	x	48	720	720	400
KRH 4991 PS	490	x	915	x	48	600	1025	400
KRH 7676 PS	762	x	762	x	48	872	872	500

### KRH-PL



MODEL	FILTER			GRILLE		LATERAL PLENUM BOX			
	A	B	H	A	B	H1	Ø		
KRH 3015 PL	305	x	150	x	48	415	260	230	125
KRH 3915 PL	395	x	150	x	48	505	260	270	160
KRH 3030 PL	305	x	305	x	48	415	415	310	200
KRH 3039 PL	305	x	395	x	48	415	505	310	200
KRH 3049 PL	305	x	490	x	48	415	600	370	250
KRH 4930 PL	490	x	305	x	48	600	415	370	250
KRH 3939 PL	395	x	395	x	48	505	505	370	250
KRH 3061 PL	305	x	610	x	48	415	720	370	250
KRH 6130 PL	610	x	305	x	48	720	415	370	250
KRH 3949 PL	395	x	490	x	48	505	600	450	315
KRH 3961 PL	395	x	610	x	48	505	720	450	315
KRH 4949 PL	490	x	490	x	48	600	600	450	315
KRH 4961 PL	490	x	610	x	48	600	720	480	355
KRH 6161 PL	610	x	610	x	48	720	720	510	400
KRH 4991 PL	490	x	915	x	48	600	1025	510	400
KRH 7676 PL	762	x	762	x	48	872	872	610	500

### KRH-PE



MODEL	FILTER			GRILLE		CORNER PLENUM BOX			
	A	B	H	A	B	H3	Ø		
KRH 3015 PE	305	x	150	x	48	415	260	260	125
KRH 3915 PE	395	x	150	x	48	505	260	300	160
KRH 3030 PE	305	x	305	x	48	415	415	340	200
KRH 3039 PE	305	x	395	x	48	415	505	350	200
KRH 3049 PE	305	x	490	x	48	415	600	420	250
KRH 4930 PE	490	x	305	x	48	600	415	420	250
KRH 3939 PE	395	x	395	x	48	505	505	410	250
KRH 3061 PE	305	x	610	x	48	415	720	450	250
KRH 6130 PE	610	x	305	x	48	720	415	450	250
KRH 3949 PE	395	x	490	x	48	505	600	490	315
KRH 3961 PE	395	x	610	x	48	505	720	490	315
KRH 4949 PE	490	x	490	x	48	600	600	490	315
KRH 4961 PE	490	x	610	x	48	600	720	560	355
KRH 6161 PE	610	x	610	x	48	720	720	600	400
KRH 4991 PE	490	x	915	x	48	600	1025	600	400
KRH 7676 PE	762	x	762	x	48	872	872	710	500

## Technical Data. Selection tables.

The filterholder grilles for air return can be installed in clean rooms and hospital settings in two different ways. Installation of a single grille that returns 100% flow or installation of two grilles at different heights, one at the lower part of the room that returns 2/3 flow and another at the top that returns 1/3 flow.

**SELECTION TABLE FOR ONE GRILLE**

MODEL	Q (m <sup>3</sup> /h)
KRH 3015	200
KRH 3915	320
KRH 3030	500
KRH 3039	540
KRH 3049	800
KRH 4930	800
KRH 3939	840
KRH 3061	970
KRH 6130	970
KRH 3949	1000
KRH 3961	1220
KRH 4949	1220
KRH 4961	1560
KRH 6161	1950
KRH 4991	2340
KRH 7676	3030

**SELECTION TABLE FOR TWO GRILLES**

Lower grille	Upper grille	Q <sub>total</sub> (m <sup>3</sup> /h)
KRH 3030	KRH 3015	500
KRH 3939	KRH 3915	850
KRH 3061	KRH 3030	975
KRH 3961	KRH 3939	1225
KRH 4961	KRH 4930	1600
KRH 6161	KRH 6130	2000
KRH 4991	KRH 4949	2350

Total reference flow.

The flow rates listed are recommended on the basis of the filter size.

The initial pressure drop for a G4 filter is 90 Pa and the final recommended pressure drop is 250 Pa.

The initial pressure drop for an F7 filter is 110 Pa and the final recommended pressure drop is 450 Pa.



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