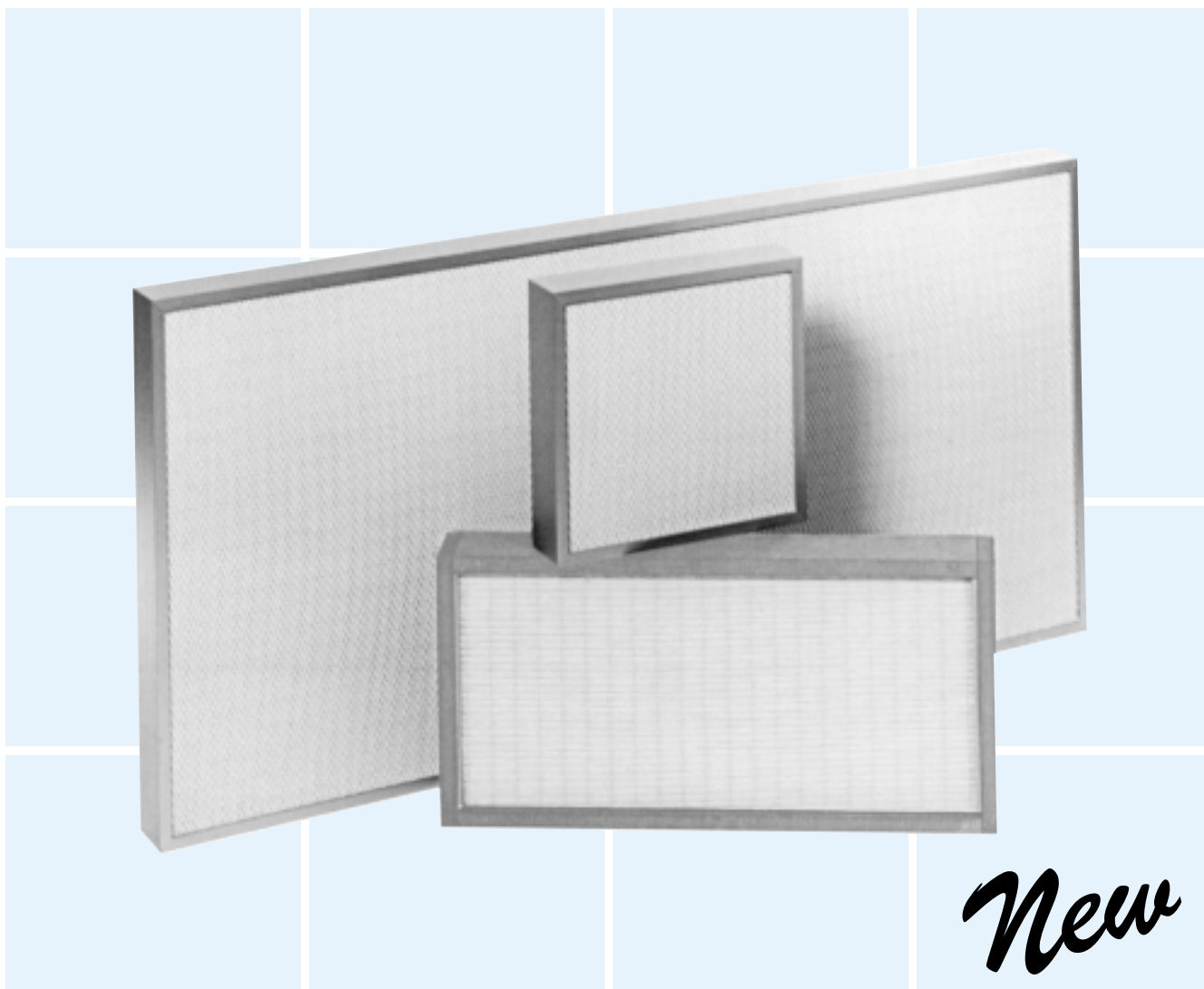


KS[®] Ultrafilters CR U15-U16

New with Teflon membrane



Ultrafilters ULPA with PTFE (Teflon) membrane and low content of boron for microelectronic industry

- Filters do not contain boron and phosphorus
- Chemically inert and free halogenides resistant
- Almost no gas release
- Very high efficiency at low pressure loss
- Moisture resistant
- High mechanical strength and resistance at handling and transport
- No release of active substance

KS® Ultrafilters KS CR, CRB and RRP ULPA for microelectronic industry

KS offers the entire range of filters for clean operation in microelectronic industry, for pharmaceuticals and other "high-tech" industrial lines. Filters for separation of dust and molecular contamination help the operator to achieve the optimum operation environment and yield at minimum energy costs.

Application

Filters KS CR ULPA are designed for use in ceilings of clean plants, in filtration boxes, filtration ventilator units, productive instruments of microelectronic industry, etc.

Range

Range of goods of KS includes the filters for microparticles with the conventional, highly efficient medium formed by glass microfibrils (CR), filters with special medium formed by glass microfibrils with low content of boron (CRB) and new type of filter with medium formed with membrane with expanded PTFE (Teflon) (CRP). For separation of molecular contamination



Testing device ULPACATS for ULPA filters testing

in clean plants the full line of filters KS-AFP for gas adsorption is available.

Efficiency, pressure loss and frame design could be selected from the entire range of filters KS CR, CRB, and CRP. Main data on efficiency of the three basic types ULPA filters for filter

classes U15 and U16 (ČSN EN 1822) are mentioned below.

Each filter is individually tested with respect to efficiency, tightness and pressure loss in compliance with ČSN EN 1822 on testing device ULPACATS (figure above).

Filter medium		Glass microfibre paper (standard)		Glass microfibre paper with low content of boron		Multi-layer membrane membrane with expanded PTFE (Teflon)	
Filter name	Unit	CR-AL-U15	CR-AL-U16	CRB-AL-U15	CRB-AL-U16	CRP-AS-U15	CRP-AS-U16
Height of filter frame	mm	90	90	90	90	70	70
Start-up speed	m/s	0,45	0,45	0,45	0,45	0,45	0,45
Starting pressure loss	Pa	100	110	105	120	90	120
Filtration class (ČSN EN1822)	-	U15	U16	U15	U16	U15	U16
Limit efficiency of class for MPPS-DEHS (ČSN EN1822)	%	<99,9995	<99,99995	<99,9995	<99,99995	<99,9995	<99,99995
Typical efficiency for 0,07 µm	%	99,99999	99,999998	99,99998	99,999998	99,99998	99,999998
Typical efficiency for 0,20 µm	%	99,9998	99,99997	99,9997	99,99997	99,999998	99,9999999
MPSS (ČSN EN1822)	µm	0,20	0,20	0,20	0,20	0,07	0,07
Local efficiency for 0,20 µm	%	>99,9975	>99,99975	>99,9975	>99,99975	>99,9975	>99,99975

Material specification

Filtration medium: see table above
Stack separators: fusion bands
Frame: anodised, drawn aluminium profiles
Sealing: polyurethane
Sealing material: polyurethane gel or synthetic rubber

Notes

Maxi. operation temperature <70 °C
 Relative humidity <100 %
 Dimensions and specific output according to customer's requirements is available on request.

Used filters disposal:

Filters are disposed of in special incineration plants or at ecological tips.

Attention!

Filters, which were installed for toxins, bacteria or radioactive particles capture, must be disposed of as a dangerous waste in compliance with valid directives.

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