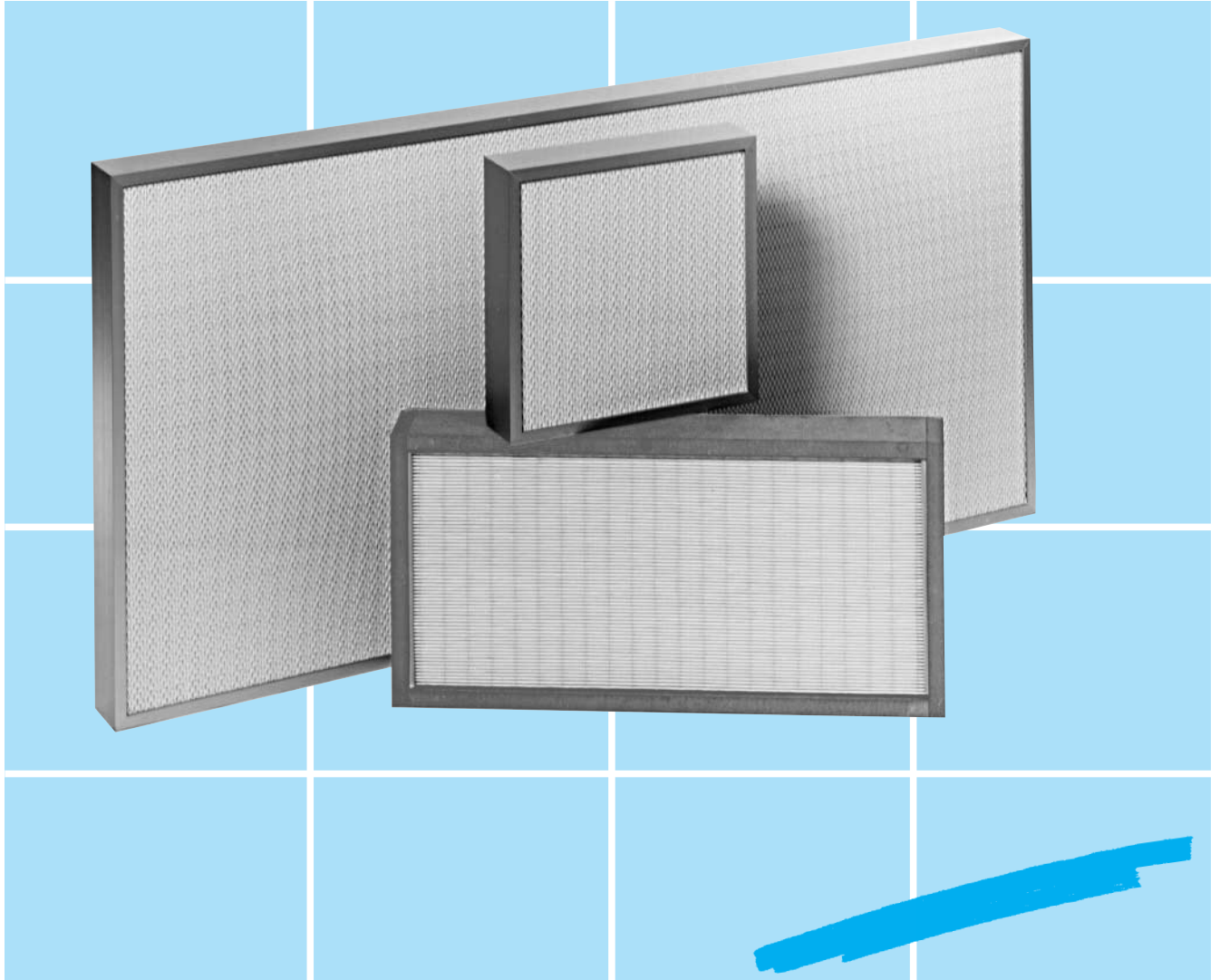


# Luwa<sup>®</sup> CR Ultrafilters



## PTFE Membrane and Low Boron ULPA Filters for Microelectronic Industry

- Boron- and Phosphor free
- Chemically inert and HF resistant
- Near zero outgassing
- Very high efficiencies at lowest pressure drop
- Water repellent
- High mechanical strength, resists handling and shipping
- Non-shedding

**Luwa**

# Luwa CR, CRB and CRP ULPA filters for the microelectronic industry



Efficiencies, pressure drop and frame design may be chosen out of the comprehensive range of Luwa CR, CRB and CRP filters. The main performances of the three basic types of ULPA filters for the filter classes U15 and U16 (EN1822) is given below.

Each filter is individually tested for efficiency, leaks and pressure drop according to EN1822 on the Luwa ULPACATS filter test rig (picture above).

Filter medium		Micro glassfibre paper (standard)		Low Boron micro glassfibre paper		Expanded PTFE multi-layer membrane	
Filter designation	Unit	CR-AL-U15	CR-AL-U16	CRB-AL-U15	CRB-AL-U16	CRP-AS-U15	CRP-AS-U16
Filter frame height	mm	90	90	90	90	70	70
Face velocity	m/s	0.45	0.45	0.45	0.45	0.45	0.45
Pressure drop	Pa	100	110	105	120	90	120
Filter class (EN1822)	-	U15	U16	U15	U16	U15	U16
Class limit efficiency for MPPS-DEHS (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	99.99998	99.999999
MPPS (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

**Filter media:** see table above  
**Pleat separators:** Hot Melt strings  
**Frame:** Anodised extruded aluminium profiles  
**Sealant:** Polyurethane  
**Gasket:** Polyurethane gel or EPDM rubber

## Notes

- Max. operating temperature <70 °C
- Relative humidity: <100%
- Customised dimensions and specific performances are available on request

This documentation is regularly checked for correctness and validity, and can be subject to change at any time without separate notification.

For quoted standards, the issue valid at the print date of this leaflet is relevant.