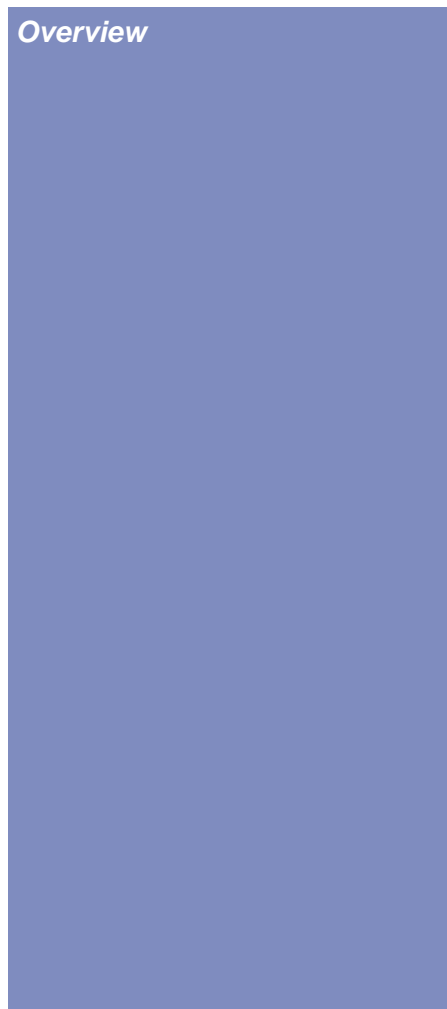
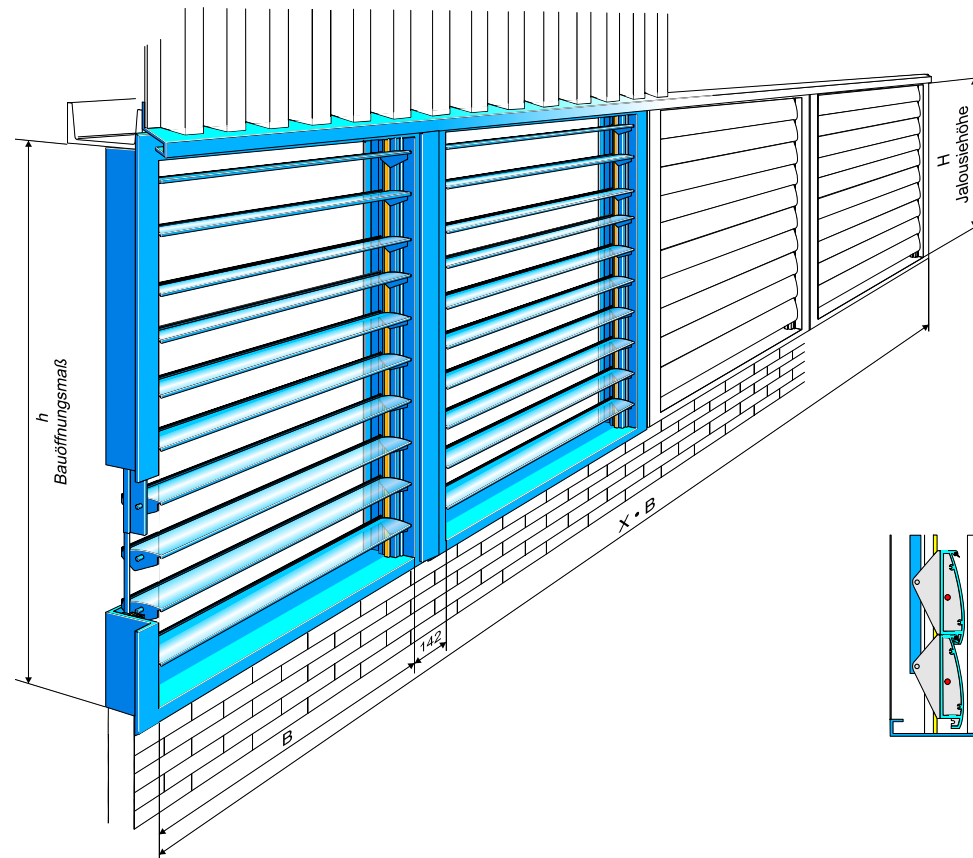
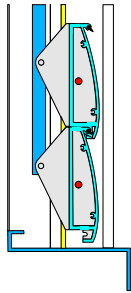


## Operable Air Inlet Louvres Series LUD-R



Industrial air inlet louvres constructed of extruded aluminium sections





## Operable Air Inlet Louvres Series LUD-R

### Product Description

**Improving micro-climatic conditions in the working zone with GAL louvres. The optimum in function and design.**

GAL has developed an absolutely new air inlet louvre, Series LUE/LUD which opens up new horizons in louvre design for both industrial and architectural applications. The newly developed and aerodynamically optimised blade section shape features highest air intake capacity, combined with optimum rain tightness. The blade profile has been derived from an aircraft wing profile and was tested at the German Aerospace Center (DLR), Göttingen with a coefficient of discharge  $C_{vo} = 0.43$  at a rainproof blade position of  $45^\circ$ . When fully opened ( $90^\circ$ ) the coefficient of discharge is  $C_{vo} = 0.65$ . In this case the louvres are controlled by an electronic rain sensor.

Even in extremely exposed positions where high wind speeds can occur, this louvre type is suitable with its stormproof blades. The louvres can be adapted to suit individual needs, both, in design and colour.

Series LUD-R louvres may be fitted as an optional extra with integrated lip seals and side frame block seals (special aluminium profile with inserted brush seal), to ensure optimised air and dust tightness when closed.

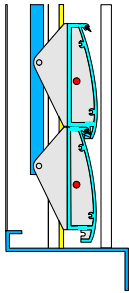
The Series LUD-R is based on the successful Series LUE-R and is fitted with double-skin blades made of hollow extruded aluminium sections.

This double-skin design provides:

- Increased coefficient of discharge
- Increased torsional rigidity
- Larger louvre sizes
- Sound attenuation
- Thermal insulation

It therefore suits the most ambitious requirements for engineered ventilation.

## Operable Air Inlet Louvres Series LUD-R



### Technical Data Material Specification Options

#### Louvre Frame

Material: Extruded Aluminium Profile  
(AlMgSi 0.5 F22)

Thickness: 2.0 mm

#### Louvre Blades

Material: Extruded Aluminium Profile  
(AlMgSi 0.5 F22)

Thickness: 1.5 mm

Bearing: 1.4305 Steel

Weight: approx. 17 Kg/m<sup>2</sup>

#### Coefficient of Discharge

C<sub>v0</sub> at 90°: 0.65 (fully opened)

C<sub>v0</sub> at 50°: 0.43 (rainproof position)

No. of blades	Height of opening	Width
5	846	Variable according to customer specification. Maximum width: 2500 mm.
6	1011	
7	1176	
8	1341	
9	1506	
10	1671	
11	1836	Intermediate size and oversized louvers are custom made to specifications.
12	2001	
13	2166	
14	2331	
15	2496	
16	2661	
17	2826	
18	2991	

Operation			Finish			Options				
Manual		Pneumatic	Elektric	Uncoated	Anodized	Coated	Certified smoke extraction function	Bird screen	Lip seal	Side frame seal
Hand lever	Teleflex									
X	X	X	X	X	X	X	X	X	X	