

Avoidance of drafts

arwus air separation units reliably protect against heat-loss and draughts.

The unit performance is tailored to the specific project requirements. The strength of the draft to be counteracted at the doorway determines the airstream's design velocity. Depending on the application, two precisely-orientated vertical arwus diffusers, standing left and right of the doorway, ensure optimally directed airstreams. The resultant planar airstreams get deflected at the diffusers to form a dam against the impeding cold air ingress in the middle of the passage.

Doors > 5m

At doors with a width > 5m, the separation is achieved by means of the new patented long throw-diffuser.

KIM – combined diffuser with integrated fan unit

KIM is a cost-efficient alternative for docking doors. The new arwus unit type combines the patented arwus diffuser and the normally detached fan module into a combined diffuser / integrated fan unit. KIM convinces by means of its efficient and flexible deployment.

- Reduced design and installation effort
- Individual changeover from left to right (summer and winter operation)
- Simplified installation



Tangential long throw diffusers for an efficient air separation for works doors over 5m wide



Works doors



Docking doors

Your benefits

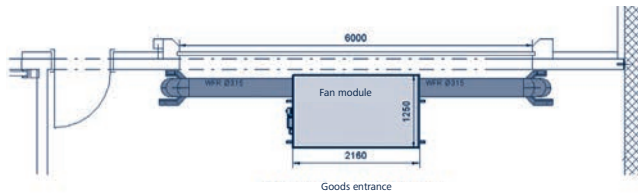
- Avoidance of drafts
- Unimpeded traffic
- High energy savings
- Maintenance of constant temperatures (precision workplaces)
- Bespoke adaptation of the installation

Applications

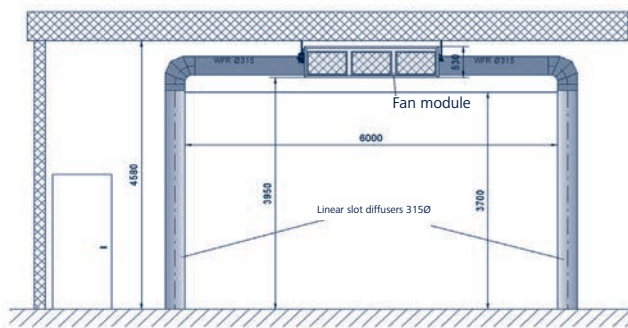
- Industrial hall passages
- Works buildings
- Docking doors
- Loading ramps
- Logistic centres

Example

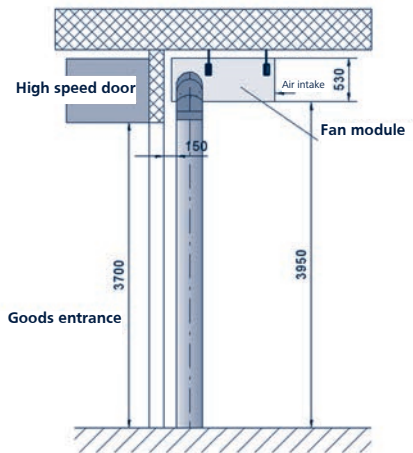
Industrial door type 3 VEC/KX, installation drawing



Plan view



Elevation



Section

Standard values

- Door size: W = 6000 / H = 3700mm
- Draft constant (DC) = 1,5

arwus-diffusers

- Left / right of door opening, standing (Ø 315 mm)
- Colour: selectable, Material: plastic, H = max. 5000mm

Fan module

- (W x H x D): 2160 x 530 x 1250mm
- Weight: approx. 200kg
- Casing: aluminium, edge profiles: anodized aluminium
- Colour: selectable, to customer specification

Controls

- Fan speed preset by stepless variable speed controller
- Remote ON / OFF
- Fault signal
- 2-stage operation: door CLOSED heating mode / door OPEN air separation mode via gate contact

arwus-impact protection (optional)

- Conforming with arwus diffuser type / diffuser diameter
- Robust construction – 10mm steel plate
- Fixing: heavy-duty anchors
- Overall height: 825mm
- Corrosion-protected

References

