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### AIRY



#### **Description**

The valve is designed for installation at a wall or in a ceiling. It can be used for new-build and for replacement. Its smart grip function ensures an easy installation. Its unique sound data ensure an optimum sound level.

The valve consists of two parts; the valve body (AIRYB) and the flat front plate (AIRYFP).

The valve body is fixed to the duct system or a valve socket via flexible spring wings. The front plate is attached to the valve body via springs.

There are 5 standard front plate shapes:

ROUN – a circle, BOW – a square with sligthly bulged edges, SQUA – a square, ELLI – an super ellipse RECT – a rectangle,

Special shapes are possible on request.

It is recommended that the valve is mounted in the frame ILVRU. The product will also fit in the valve frames VRGU, VRGM, VRFU, VRFM and the products BUCST, and TCPUCST.

The valve body has to cover the brim of the product it is fitted into. Therefor the maximum diameter of the brim for  $\emptyset100$  is 133.5 mm, for  $\emptyset125$  is 152.5 mm and for  $\emptyset160$  is 187.5 mm.

Can be equipped with a blanking – off sector plate for 2 or 3 way air flow.

#### Maintenance

The visible parts can be wiped off with a damp cloth. The sound filter should be cleaned or replaced when needed, this is especially of importance for extract air.

#### Order code

Product	AIRYB	aaa	bbb
AIRYB	1		
Connection dim. Ød			
Ød nom = 100, 125, 160 mm			
Color			
RAL 9003, RAL 9010			

Example: AIRYB - 125 - 9003

Product	AIRYFP	aaa	bbb	ccc
AIRYFP				
Connection dim. Ød				
Ød nom = 100, 125, 160 mm				
Туре				
BOW, ELLI, RECT, ROUN, SQUA				
Color				
RAL 9003, RAL 9010				

Example: AIRYFP - 125 - ELLI - 9003

Dimensions







m

kg

0.13

0.18

0.28

Ød Ød ØD L nom mm mm mm 100 84 138 55 125 109 157 58 58 160 144 191

B

AIRYFP BOW

AIRYFP SQUA AIRYFP ROUN





AIRYFP ELLI



# AIRYFP RECT

\_\_\_\_\_B\_\_\_\_

Ød	Α	В	Type	m
nom	mm	mm	турс	kg
100	140	140	BOW	0.17
100	140	210	ELLI	0.21
100	140	140	ROUN	0.13
100	140	210	RECT	0.24
100	140	140	SQUA	0.17
125	165	165	BOW	0.22
125	165	248	ELLI	0.29
125	165	165	ROUN	0.18
125	165	248	RECT	0.33
125	165	165	SQUA	0.23
160	210	210	BOW	0.34
160	210	315	ELLI	0.44
160	210	210	ROUN	0.28
160	210	315	RECT	0.53
160	210	210	SQUA	0.35

#### Materials and finish

Material: Colour: Galvanized sheet metal. White RAL 9003, gloss 30 or white RAL 9010, gloss 30.

Special colours are available on request. The front plate can be ordered in stainless steel. It is also possible to paint the front plate with standard wall paint or to cover it with wallpaper.



### AIRY

### **Technical data**

#### Capacity

Air flow  $q_v$  [l/s] and [m<sup>3</sup>/h], total pressure  $\Delta p_t$  [Pa], throw I<sub>0.2</sub> [m] and sound power level L<sub>WA</sub> [dB(A)] can be seen in the graphs.

#### Frequency-related sound power level

The sound power level in the frequency band is defined as  $L_{_{WA}}+K_{_{ok}}$ .  $K_{_{ok}}$  values are specified in charts beneath the graphs on the following pages.

#### Sound attenuation

Sound attenuation of the diffusers  $\Delta L$  from duct to room, including end reflection, see table below.

Ød	Centre frequency Hz							
nom	63	125	250	500	1K	2K	4K	8K
100	22	18	13	11	9	8	7	8
125	20	16	11	9	9	7	6	5
160	18	14	10	9	9	7	6	6

#### Balancing

Balancing data is contained in a separate brochure.

#### Blanking off sector plate

#### Correction for sound and throw

When using blanking off sector in Airy calculate correction factor C and use this factor to read corrected sound- and throw data:

 $C = ((\alpha / 360)+1)$ 

Corrected flow to use for reading data in diagrams =  $C \times q_v$ 

#### Example

120°
20 l/s
50 Pa

C = ((120 / 360) + 1) = 1.33

Corrected flow to use for reading data in diagrams = 1.33  $\times$  20 l/s = 27 l/s

Corrected data:
Sound power level L <sub>wa</sub> :
Slot setting for 50 Pa:
Throw I <sub>0.2</sub> (12 mm. slot):

30 dB(A) 12 mm 2.6 m

#### Accessories

#### Blanking-off sector plate



#### Order code

Product	AIRYBP	aaa
AIRYBP		
Connection dim. Ød		
Ød nom = 100, 125, 160 mm		

Example: AIRYBP - 125

#### Sound filter



#### **Order code**

Product	AIRYSI	aaa
AIRYSI		
Connection dim. Ød		
Ød nom = 100, 125, 160 mm		

Example: AIRYSI - 125

#### Changing the sound filter

The sound filter can be changed by first removing the filter holder and then the filter itself. Press the new sound filter onto the front plate and then press the filter holder onto the sound filter.

### **Technical data**

**Throw I**<sub>0.2</sub> Throw I<sub>0.2</sub> [m] can be seen in the graphs for isothermal air, at a terminal velocity of 0.2 m/s.





AIRY



**Technical data** 









### **Technical data**

### **Extract air**





AIRY



### Airy with bend and T-piece

#### Sound correction values:

Add this value to the diagram for Airy when using T-piece or bend.

Supply air

Ød1 nom	TCPU	BKU	BU	BSU
100	3	1	1	0
125	2	2	1	0
160	5	5	4	3

### **Extract** air

Ød1 nom	TCPU	BKU	BU	BSU
100	2	1	0	0
125	2	2	1	0
160	5	5	4	2

TCPU

BKU



BU





BSU









Most of us spend the majority of our time indoors. Indoor climate is crucial to how we feel, how productive we are and if we stay healthy.

We at Lindab have therefore made it our most important objective to contribute to an indoor climate that improves people's lives. We do this by developing energy-efficient ventilation solutions and durable building products. We also aim to contribute to a better climate for our planet by working in a way that is sustainable for both people and the environment.

Lindab | For a better climate

