

Nozzle diffuser ARIES-6 (DYFC)

TECHNICAL DATA



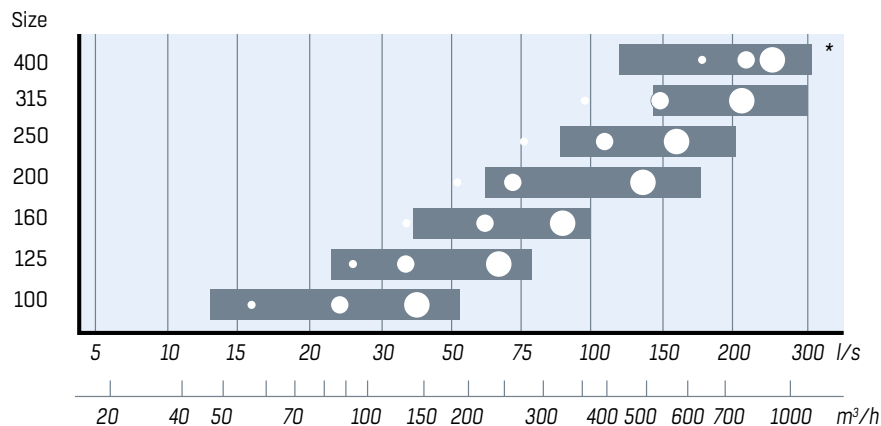


NOZZLE DIFFUSER DYFC

ARIES-6 (DYFC) is a nozzle air diffuser with an integrated plenum box for freely suspended installation in a ceiling. The diffuser has adjustable nozzles for setting of an optional diffusion pattern. Patented measurement and adjustment damper ZAEF is included in the plenum box. The slot height of the diffuser can be set at 0 or 12 mm. Fixed to the diffuser body with magnets and safety strings, the diffuser plate is easy and safe to open.

QUICK SELECTION

ARIES-6 (DYFC) with 0 mm slot, at 50 Pa



The grey bar shows the airflow range.

The size of the circle shows at which airflow rate the sound level is: ● 25 dB ● 30 dB ● 35 dB.

* Adjustment with IRIS (included).

SPECIFICATIONS

- Easy to install and adjust
- Low sound level
- Adjustable air slot 0 or 12 mm
- Easily adjustable diffusion pattern
- Measurement and adjustment damper ZAEF included (excluding the DYFC-400, which is supplied with an IRIS damper)
- 7 connection sizes

PRODUCT CODE EXAMPLE

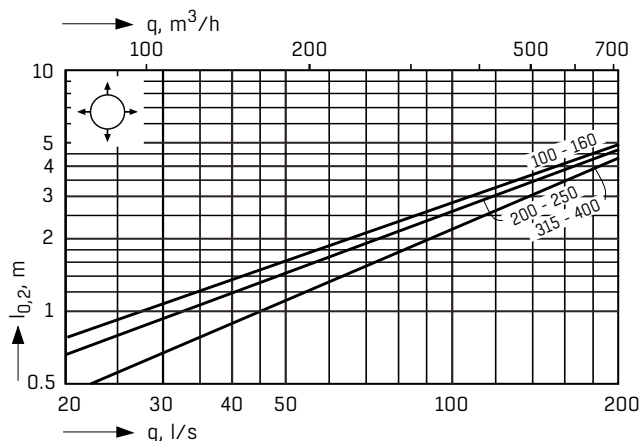
Nozzle air diffuser DYFC-200

AIR FLOW, THROW, PRESSURE DROP, SOUND LEVEL

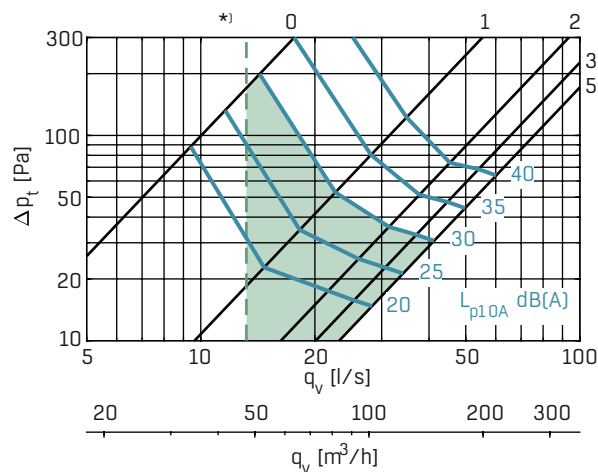
NOZZLE AIR DIFFUSER ARIES-6 (DYFC) WITH 0 MM SLOT, 4-WAY DIFFUSION

THROW (ISOTHERMAL)

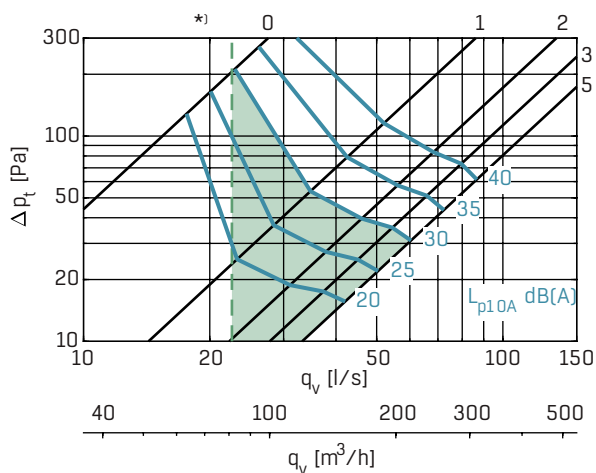
Sizes in the diagram below refer to air diffuser connection in mm.



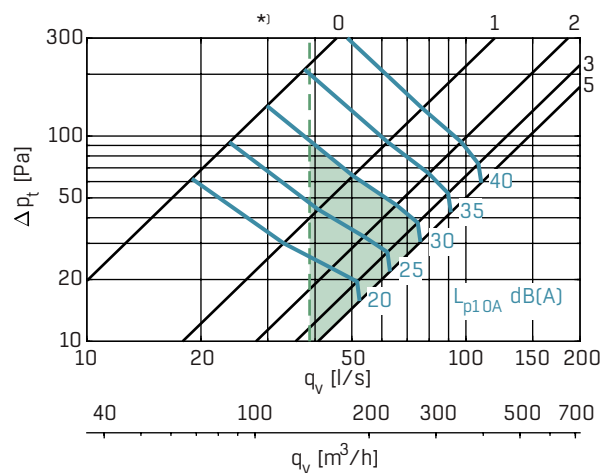
DYFC-100



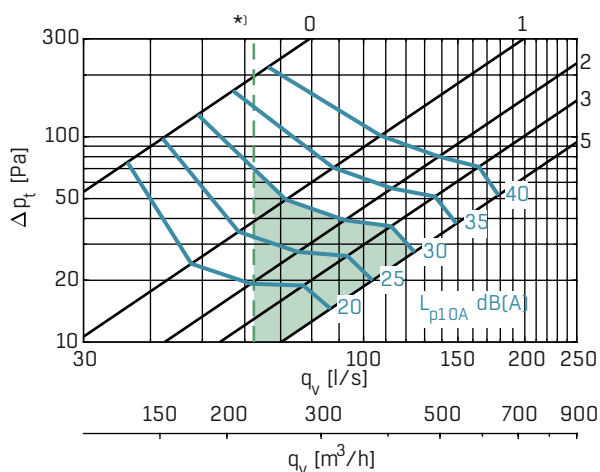
DYFC-125



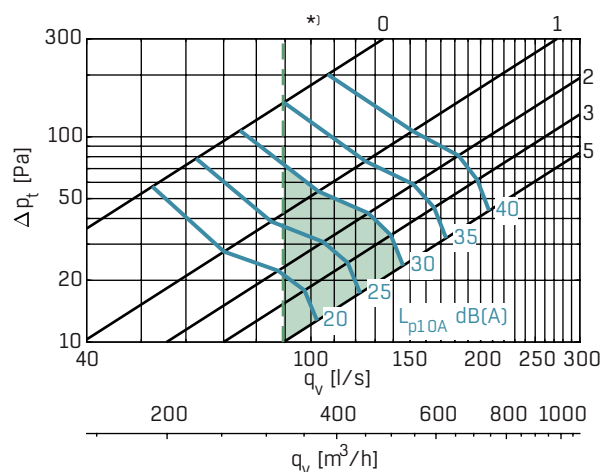
DYFC-160



DYFC-200



DYFC-250



*) Adjustment position

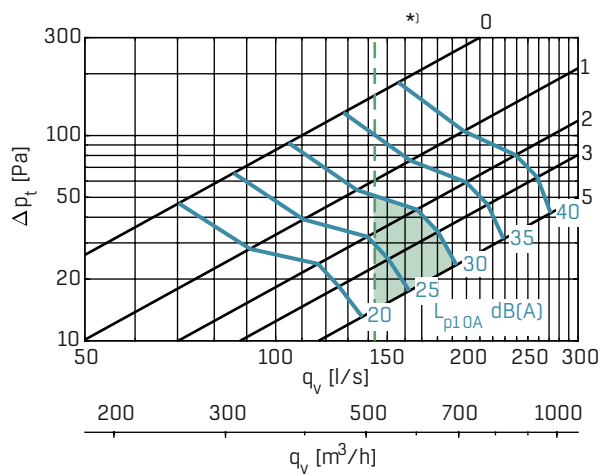
Recommended range of use

--- Min. airflow required to obtain sufficient measuring pressure.

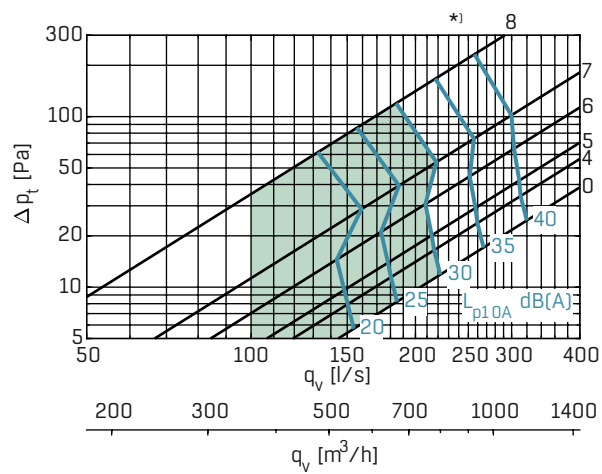
AIR FLOW, THROW, PRESSURE DROP, SOUND LEVEL

NOZZLE AIR DIFFUSER ARIES-6 (DYFC) WITH 0 MM SLOT, 4-WAY DIFFUSION

DYFC-315



DYFC-400



*) Adjustment position

Recommended range of use

- - - Min. airflow required to obtain sufficient measuring pressure.

SOUND DATA

SOUND POWER LEVEL L_w

ARIES-6 (DYFC) WITH 0 MM SLOT

DYFC-	Correction of sound level K_{oct} (dB)							
	63	125	250	500	1000	2000	4000	8000
100	3	6	9	0	-3	-8	-11	-13
125	2	8	9	0	-3	-9	-12	-12
160	0	7	8	0	-2	-8	-13	-14
200	2	8	6	2	-2	-6	-12	-15
250	3	10	6	2	-2	-7	-13	-15
315	7	11	4	3	-2	-9	-14	-16
400	9	7	3	3	-1	-9	-18	-22
Tolerance $\pm$	6	3	2	2	2	2	2	3

Sound power levels by octave bands are obtained by adding to total sound pressure level L_{p10A} , dB(A), the correction K_{oct} presented in the table according to the following formula:

$$L_w = L_{p10A} + K_{oct}$$

Correction K_{oct} is average value in range of use of the device.

SOUND ATTENUATION ΔL

ARIES-6 (DYFC) WITH 0 MM SLOT

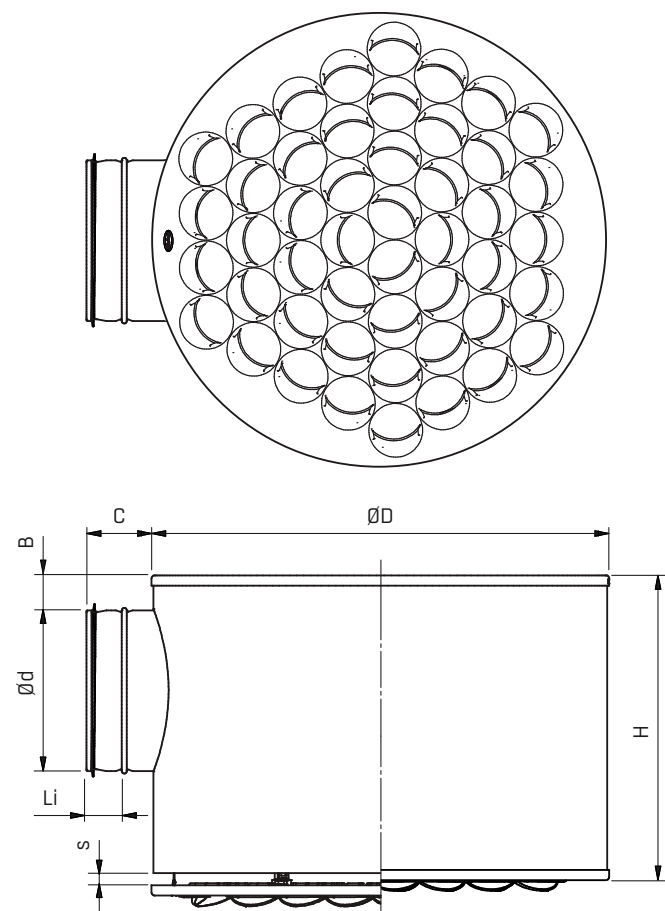
DYFC-	Sound attenuation (dB)							
	63	125	250	500	1000	2000	4000	8000
100	22	15	6	10	6	6	7	9
125	22	13	6	8	7	6	7	11
160	19	12	8	10	8	5	6	9
200	15	9	9	5	6	4	6	9
250	14	7	9	7	5	4	6	9
315	14	2	9	7	4	4	7	10
400	10	4	9	6	7	6	6	9
Tolerance $\pm$	6	3	2	2	2	2	2	3

The average sound attenuation ΔL from duct to room including the orifice attenuation of the connecting duct in ceiling installation, is obtained in the table above.

More technical data can be found in our selection tool. Contact our nearest sales office for further information.

DIMENSIONS AND WEIGHTS, NOZZLE AND DIFFUSION PATTERN

NOZZLE AIR DIFFUSER ARIES-6 (DYFC)

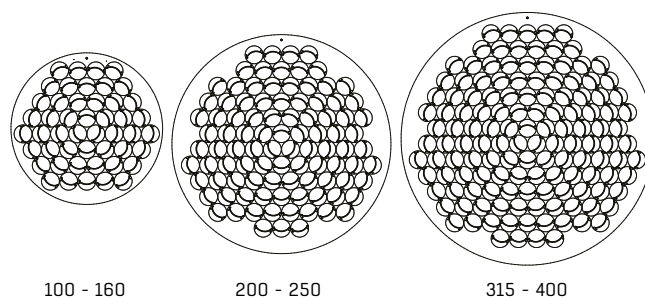


s = 0 or 12 mm

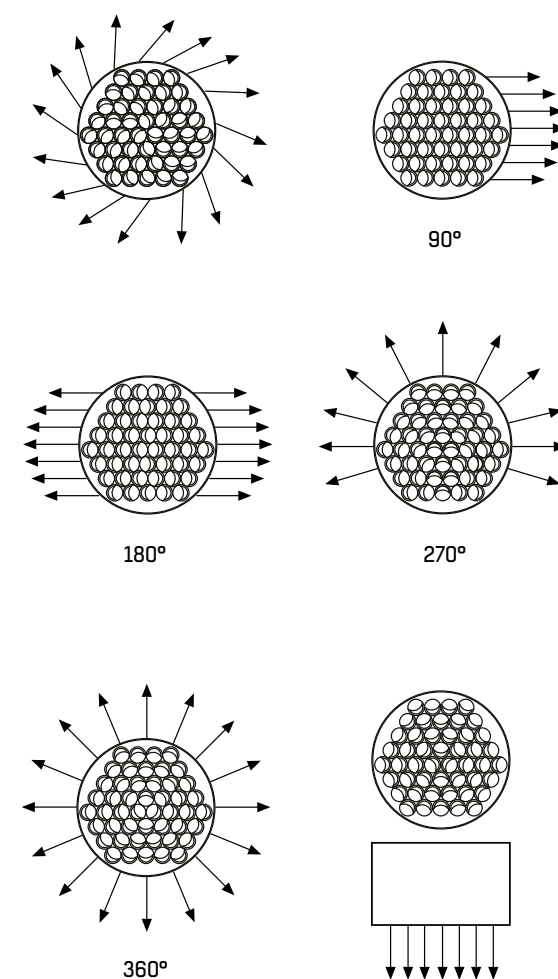
Size	ØD (mm)	Ød (mm)	B (mm)	C (mm)	H (mm)	Li (mm)	Weight (kg)
100	450	99.3	30	80	238	35	4.8
125	450	124.3	30	75	263	35	5.0
160	450	159.3	30	70	298	35	5.4
200	650	199.3	30	65	338	35	8.4
250	650	249.3	30	60	388	35	9.1
315	750	314.3	30	50	453	35	12.1
400	750	399.3	15	60	518	50	19.7 ¹⁾

¹⁾ weight of IRIS damper is included (6.4 kg)

NOZZLE PATTERN FOR EACH SIZE



DIFFUSION PATTERN



GENERAL, PRODUCT CODE AND SPARE PARTS

EXECUTION AND FUNCTION

ARIES-6 (DYFC) is a nozzle air diffuser with an integrated plenum box for freely suspended installation in a ceiling. The diffuser has adjustable nozzles for setting of an optional diffusion pattern. Fixed to the diffuser body with magnets, the diffuser plate is easy to open.

The slot height of the diffuser can be set at 0 or 12 mm. ARIES-6 (DYFC) is manufactured in 7 connection sizes.

The plenum box has a combined measurement and adjustment damper with very low noise generation (excluding the DYFC-400, which is supplied with an IRIS damper). The patented multipoint measurement of the measurement and adjustment damper enables balanced and accurate values. The regulating handle of the measurement and adjustment damper has a position indicator and a locking device. The measurement and adjustment damper can be easily removed for inspection and cleaning without changing the setting of the damper.

The measurement hoses from the adjustment damper are very easily accessible inside the diffuser. This facilitates measurement and balancing.

MATERIAL AND SURFACE FINISH

Diffuser is made from steel sheet. The diffuser is powder-coated for a high surface finish. The standard colour is RAL 9010. Other diffuser colours are available on special order. The nozzles are made of white plastic and have antistatic treatment.

INSTALLATION, ADJUSTMENT AND MAINTENANCE

The instructions for installation, adjustment and maintenance are available at www.flaktgroup.com. The k-factors for supply air are also provided on the plenum box.

TECHNICAL DATA AND DESIGN

For complete design details, please see the FläktGroup product selection program. The program can be found on the Internet at www.flaktgroup.com.

PRODUCT DESCRIPTION

Round nozzle air diffuser ARIES-6 (DYFC) by FläktGroup with an integrated plenum box for freely suspended installation in a ceiling. The diffuser front plate can be set to provide an air slot of 0 or 12 mm. The supply air device includes a quiet, easily removable measurement and adjustment damper (ZAEF).

PRODUCT CODE

Nozzle air diffuser

DYFC-aaa

Nozzle air diffuser, special colour

DYFC-aaa-E

(with integrated plenum box)

Size (aaa)

100, 125, 160, 200, 250, 315, 400

Nozzle air diffuser, without damper

DYFC-aaa-F

(with integrated plenum box)

Size (aaa)

200, 250, 315

SPARE PARTS

Measurement and adjustment damper

ZAEF-aaa-b

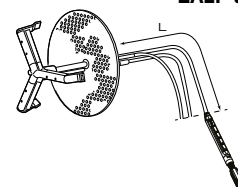
Size (aaa)

100, 125, 160, 200, 250, 315

Length (b)

1 = 1 m

3 = 2 m



Magnet holder set for fastening diffuser plate (4 pieces)

White

CODZ-1

Grey

CODZ-3



Plastic nozzles (10 pcs in the set)

White

COHZ-10

Black

COHZ-05

Silver

COHZ-06

Dark silver

COHZ-07





FläktGroup is the European market leader for smart and energy efficient Indoor Air and Critical Air solutions to support every application area. We offer our customers innovative technologies, high quality and outstanding performance supported by more than a century of accumulated industry experience. The widest product range in the market, and strong market presence in 65 countries worldwide, guarantee that we are always by your side.

PRODUCT FUNCTIONS BY FLÄKTGROUP

Air Treatment | Air Movement | Air Diffusion
Air Distribution | Air Filtration | Air Management & ATD's
Air Conditioning & Heating | Controls | Service



» Learn more on
www.flaktgroup.com
or contact one
of our offices