

Extract air diffuser ATLAS-8 (PEFC)

TECHNICAL DATA





EXTRACT AIR DIFFUSER ATLAS-8 (PEFC)

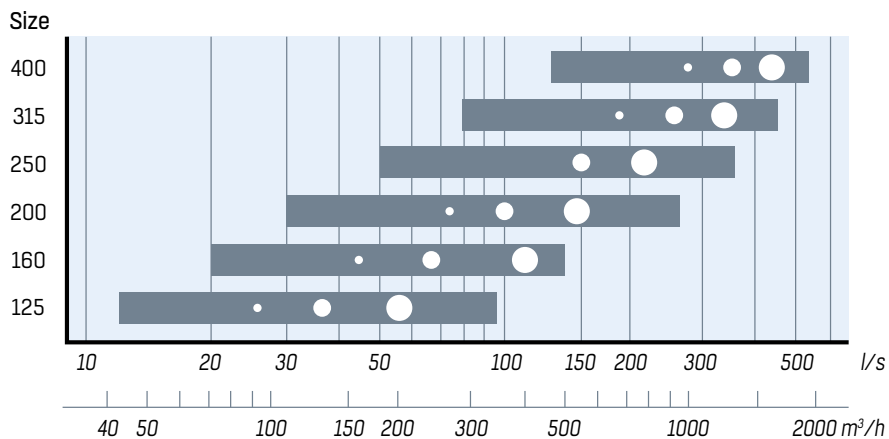
ATLAS-8 (PEFC) is an extract air diffuser with an integrated plenum box for freely suspended installation in a ceiling. It is recommended to be used in commercial application buildings such as offices, conference rooms, shops, etc.

The diffuser has perforated front plate that ensures the effective air extraction from the room and low sound levels.

Fixed to the diffuser body with magnets and safety strings, the diffuser plate is easy and safe to open.

QUICK SELECTION

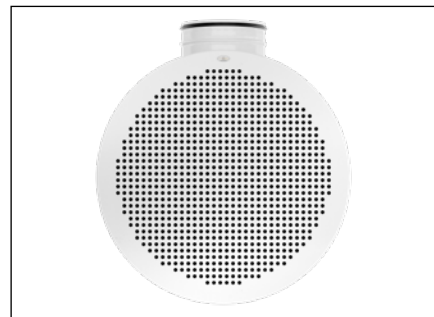
ATLAS-8 (PEFC) at 50 Pa (regulation with IRIS damper)



The grey bar shows the airflow range.

The size of the circle shows at which airflow rate the sound pressure level is:

- 25 dB(A)
- 30 dB(A)
- 35 dB(A)



SPECIFICATIONS

- 6 connection sizes from 125 to 400 mm
- Suitable for an air extract
- For freely suspended installation
- Low sound level
- Regulation with IRIS damper, which is available as an accessory
- Available in RAL 9003 finish.

PRODUCT CODE EXAMPLE

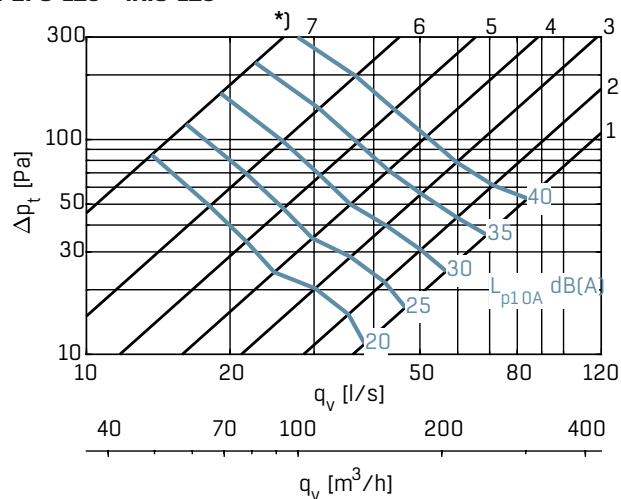
Extract air diffuser PEFC-160

Regulation and measuring damper IRIS-160

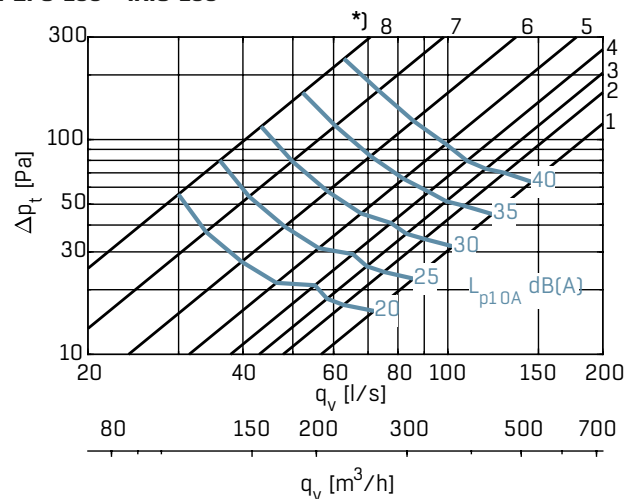
AIR FLOW, PRESSURE DROP, SOUND LEVEL

EXTRACT AIR DIFFUSER ATLAS-8 (PEFC) WITH REGULATION AND MEASUREMENT DAMPER IRIS

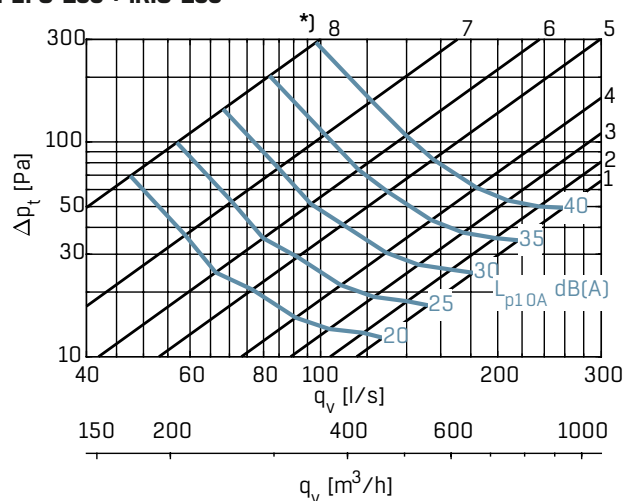
PEFC-125 + IRIS-125



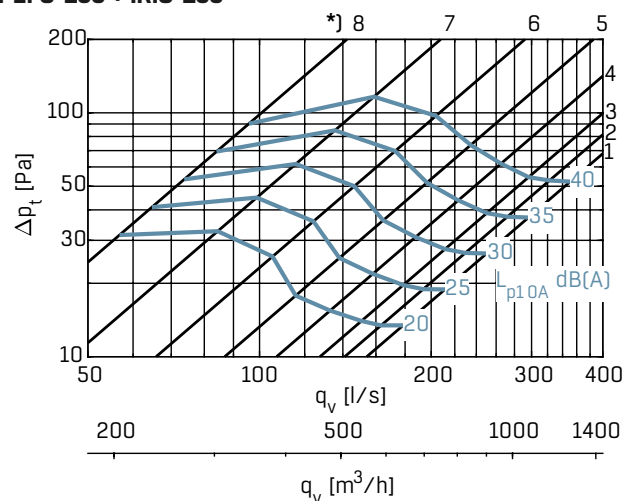
PEFC-160 + IRIS-160



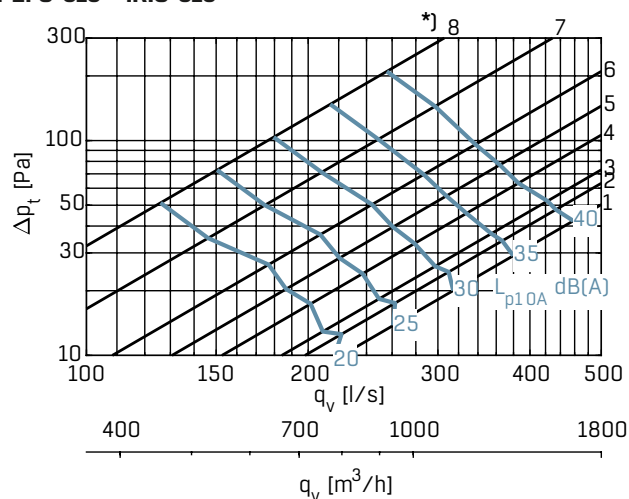
PEFC-200 + IRIS-200



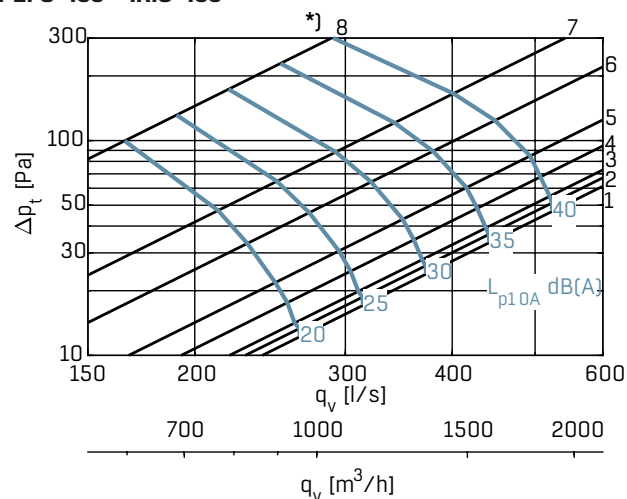
PEFC-250 + IRIS-250



PEFC-315 + IRIS-315



PEFC-400 + IRIS-400

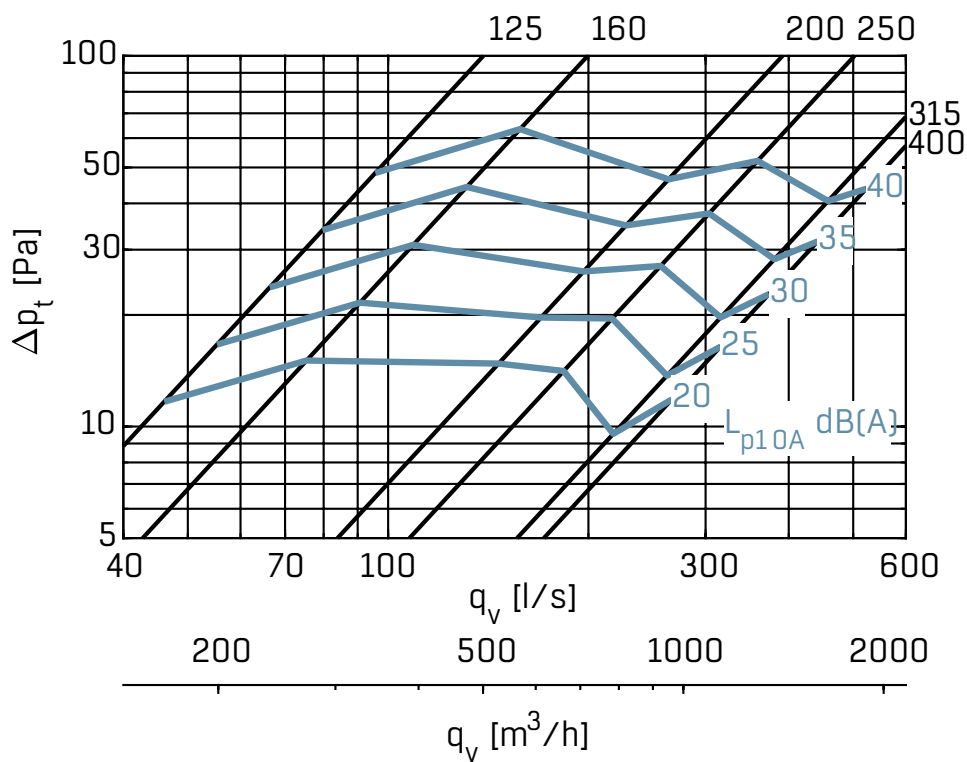


In the above graphs the sound pressure levels are indicated in dB(A) for a reference room with 10 m² Sabine room absorption, equivalent to 4 dB room attenuation.

$\ast)$ IRIS damper adjustment position. Note: Damper is installed at the connecting duct.

AIR FLOW, PRESSURE DROP, SOUND LEVEL

EXTRACT AIR DIFFUSER ATLAS-8 (PEFC) WITHOUT REGULATION AND MEASUREMENT DAMPER IRIS



In the above graphs the sound pressure levels are indicated in dB(A) for a reference room with 10 m² Sabine room absorption, equivalent to 4 dB room attenuation.

SOUND DATA

SOUND POWER LEVEL L_w

ATLAS-8 (PEFC) + IRIS DAMPER

PEFC	Correction of sound level K_{oct} (dB)							
	63	125	250	500	1000	2000	4000	8000
125	4	7	10	1	-6	-10	-15	-19
160	3	7	9	1	-6	-6	-13	-19
200	3	10	6	3	-5	-6	-13	-19
250	5	9	5	1	-1	-5	-13	-19
315	7	11	4	2	-1	-7	-15	-18
400	7	8	2	0	0	-5	-14	-17
Tolerance +/-	6	3	2	2	2	2	2	3

ATLAS-8 (PEFC)

PEFC	Correction of sound level K_{oct} (dB)							
	63	125	250	500	1000	2000	4000	8000
125	5	1	5	1	-1	-4	-16	-19
160	6	2	5	1	0	-5	-18	-19
200	4	6	3	2	0	-6	-18	-19
250	4	5	2	1	1	-7	-18	-19
315	2	3	1	3	1	-10	-19	-19
400	4	4	-1	-1	2	-5	-17	-18
Tolerance +/-	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

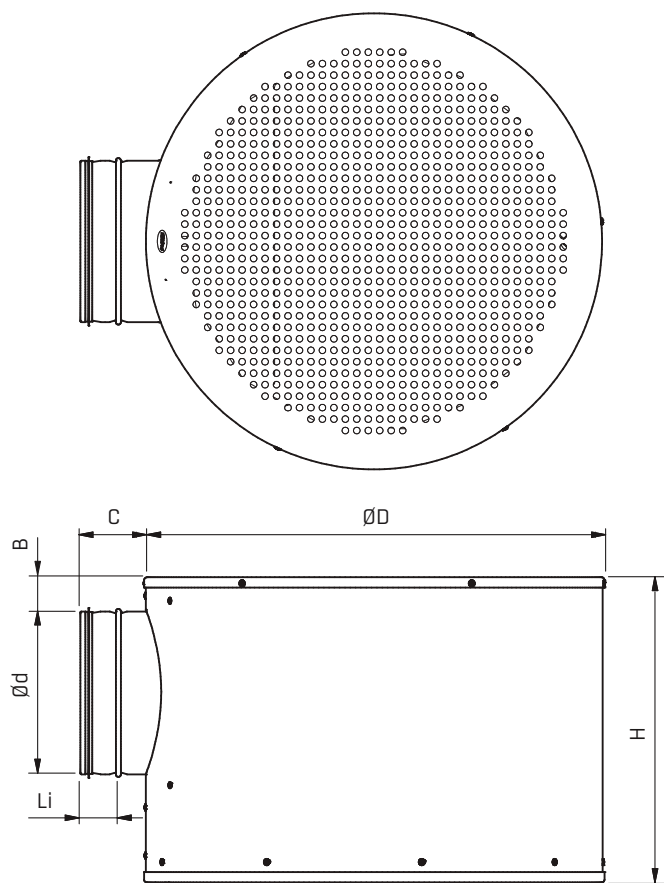
ATLAS-8 (PEFC)

PEFC	Sound attenuation (dB)							
	63	125	250	500	1000	2000	4000	8000
125	24	15	6	10	6	5	4	3
160	21	12	5	9	9	5	4	4
200	20	7	7	6	5	2	3	3
250	17	6	7	7	5	2	2	2
315	14	5	8	5	4	3	3	3
400	14	4	8	5	3	3	3	4
Tolerance +/-	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.

DIMENSIONS AND WEIGHTS

EXTRACT AIR DIFFUSER ATLAS-8 (PEFC)



Size	ØD (mm)	Ød (mm)	B (mm)	C (mm)	H (mm)	Li (mm)	Weight (kg)
125	450	124.3	30	75	263	35	5.3
160	450	159.3	30	70	298	35	5.5
200	650	199.3	30	65	338	35	8.4
250	650	249.3	30	60	388	35	9.0
315	750	314.3	30	50	453	35	11.8
400	750	399.3	15	60	518	50	13.2

GENERAL, PRODUCT CODE, ACCESSORIES AND SPARE PARTS

CONSTRUCTION AND FUNCTION

ATLAS-8 (PEFC) is an extract air diffuser with an integrated plenum box for freely suspended installation in a ceiling. Regulation is done with IRIS damper, which is available as an accessory.

The diffuser has perforated front plate fixed to the diffuser body with magnets. The outlet can be opened enabling the access to the ventilation duct for cleaning purposes. It is secured from falling down by a safety link.

MATERIAL AND SURFACE FINISH

Diffuser is made of steel sheet. The diffuser is powder-coated for a high surface finish. The standard colour is RAL 9003. Other diffuser colours are available on special order.

INSTALLATION, ADJUSTMENT AND MAINTENANCE

The instructions for installation, adjustment and maintenance are available at www.flaktgroup.com.

TECHNICAL DATA AND DIMENSIONING

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

SPECIFICATION TEXT EXAMPLE

Round extract air diffuser ATLAS-8 (PEFC) by FläktGroup with an integrated plenum box for freely suspended installation in a ceiling. It has perforated front plate that ensures the effective air extraction from the room and low sound levels.

PRODUCT CODE

Extract air diffuser
Extract air diffuser, special colour
(with integrated plenum box)

PEFC-aaa
PEFC-aaa-E

Size (aaa)

125, 160, 200, 250, 315, 400

ACCESSORIES

Regulation and measuring device

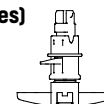
IRIS-aaa

Diameter in mm (aaa)

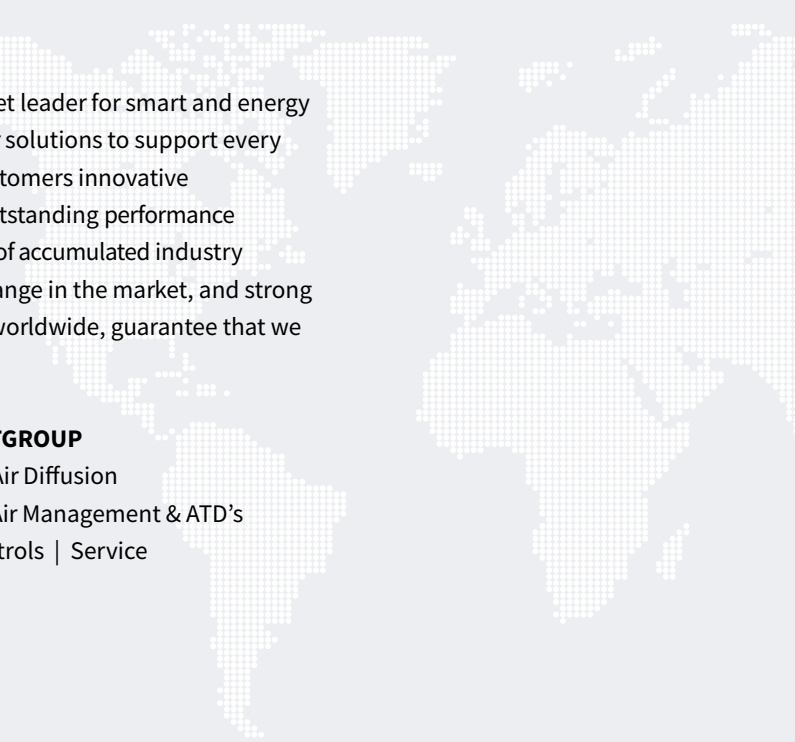
125, 160, 200, 250, 315, 400

SPARE PARTS

Magnet holder set for fastening diffuser plate (4 pieces)
White
Grey



CODZ-1
CODZ-3



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