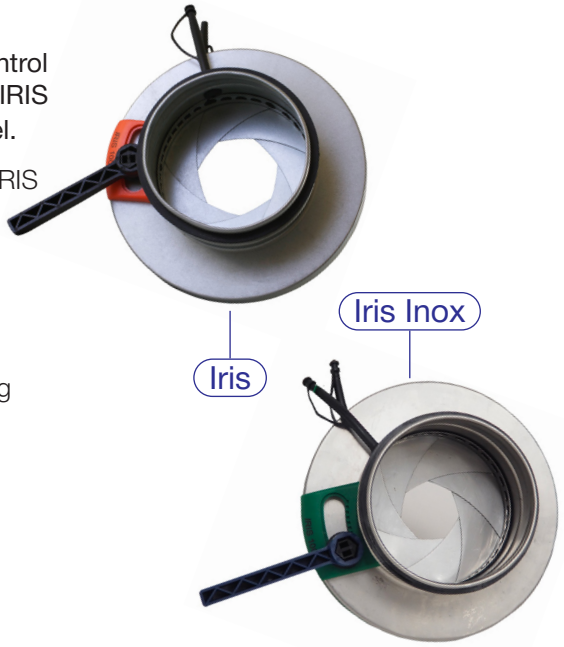
TECHNICAL DATA SHEET (1/8)

T - 7201 _ REGULATEUR IRIS

General description

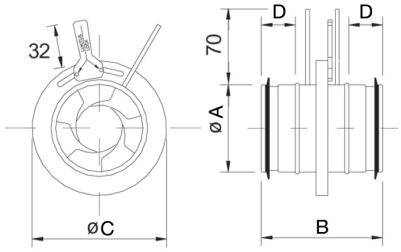
IRIS diaphragm regulators are specially designed to measure and control the air flow in circular ducts for ventilation and air conditionning. The IRIS damper consists of a body and a diaphragm made of galvanized steel.

- Available in : galvanized steel Z 275 (IRIS) and stainless steel 316L (IRIS INOX)
- Diameters from 80 to 800 mm.
- Adjusting plastic nut with plastic key.
- Measuring point provided on each side of the iris damper for the connection of a pressure gauge.
- Selection chart giving the air flow depending on the different opening positions of the iris damper, and corresponding pressure levels.
- Double lips gasket for tight connection with the duct.
- Service temperature from -10°C up to +80°C.
- Airtightness class C according to EN 1751.

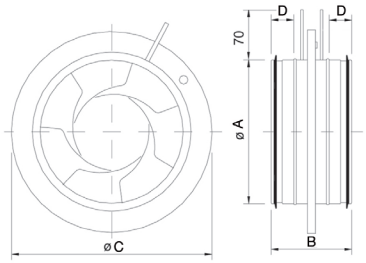


Technical specifications

IRIS 80



IRIS 100 800



	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
IRIS 80	79	115	125	35	0,5
IRIS100	99	115	165	30	0,6
IRIS 125	124	115	188	30	0,7
IRIS 150	149	115	230	30	1,0
IRIS 160	159	115	230	30	1,0
IRIS 200	199	120	285	30	1,4
IRIS 250	249	135	335	40	2,0
IRIS 300	299	140	405	40	2,6
IRIS 315	314	140	405	40	2,6
IRIS 400	399	150	525	55	6,5
IRIS 500	499	150	655	52	9,0
IRIS 630	629	160	815	60	16,0
IRIS 800	799	290	1015	120	25,0

Information contained herein is based on careful tests and experience. It reflects our knowledge and is for guidance purpose only. It is given in good faith and user should ensure that the product is fit for purpose before any application. The quoted values are average and should not be taken as maximum or minimum values for specific purposes. Manufacturer and distributor are not responsible for any non-recommended use or consequential damage.

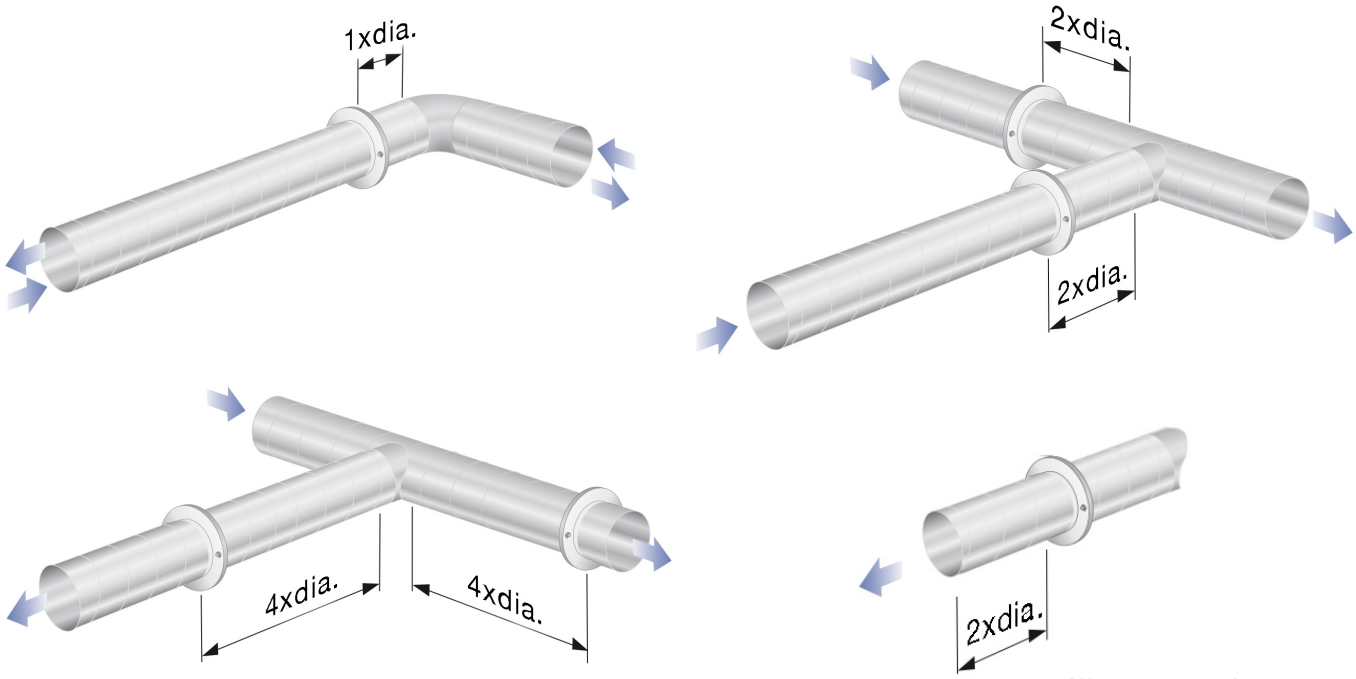
Application

To obtain a correct accuracy of flow measurement and proper regulation, implementation rules must be followed. Compliance with these guidelines will insure optimal operation of the equipment.

However, IRIS damper operate independently of the air flow direction.

The maximum permissible measurement deviation is ± 7%. It also applies if the damper is near a T-piece or a duct bend.

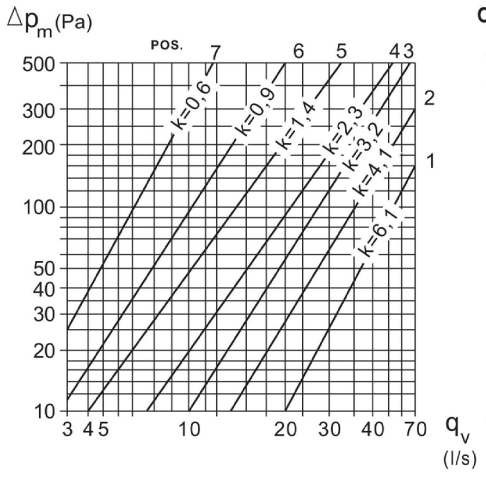
Recommended safety distance for typical applications :



Diffuser operation

Aeraulic diagrams

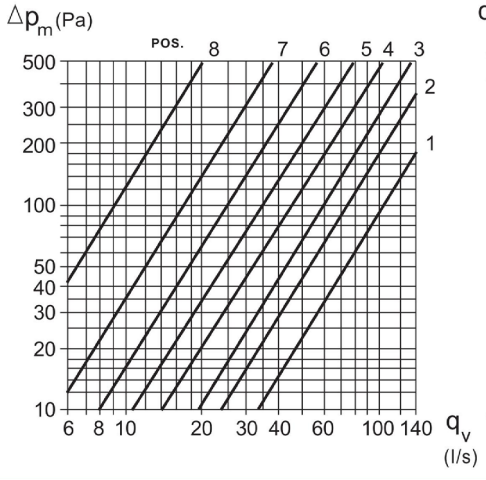
IRIS 80



$q_v = k\sqrt{\Delta p_m}$

POS	k
1	6,1
1,5	-
2	4,1
2,5	-
3	3,2
3,5	-
4	2,3
4,5	-
5	1,4
5,5	-
6	0,9
6,5	-
7	0,6

IRIS 100

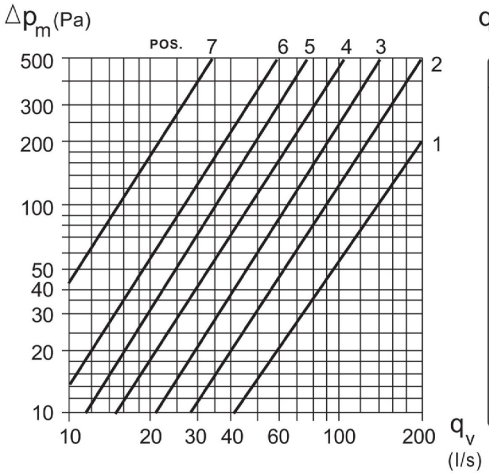


$q_v = k\sqrt{\Delta p_m}$

POS	k
1	10,4
1,5	7,9
2	7,5
2,5	6,6
3	6,0
3,5	5,2
4	4,5
4,5	3,8
5	3,4
5,5	2,9
6	2,5
6,5	2,1
7	1,7
7,5	1,2
8	0,9

Information contained herein is based on careful tests and experience. It reflects our knowledge and is for guidance purpose only. It is given in good faith and user should ensure that the product is fit for purpose before any application. The quoted values are average and should not be taken as maximum or minimum values for specific purposes. Manufacturer and distributor are not responsible for any non-recommended use or consequential damage.

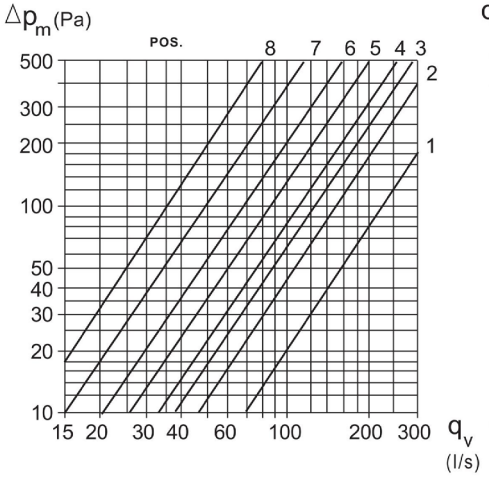
IRIS 125



$q_v = k\sqrt{\Delta p_m}$

POS	k
1	13,8
1,5	10,4
2	8,8
2,5	7,3
3	6,5
3,5	5,5
4	4,7
4,5	4,0
5	3,5
5,5	3,1
6	2,7
6,5	2,2
7	1,5

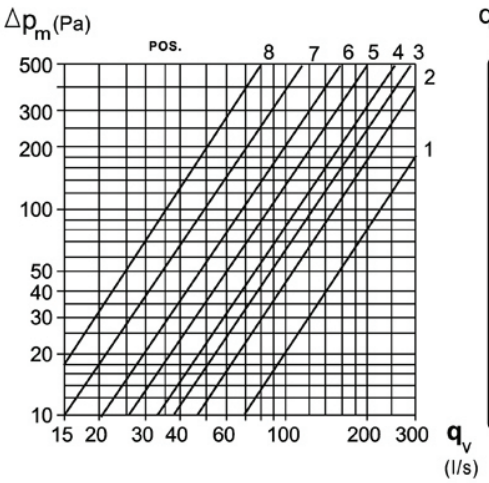
IRIS 150



$q_v = k\sqrt{\Delta p_m}$

POS	k
1	22,1
1,5	17,2
2	14,8
2,5	13,4
3	12,5
3,5	11,5
4	10,7
4,5	9,5
5	8,5
5,5	7,5
6	6,8
6,5	5,6
7	4,9
7,5	4,0
8	3,5

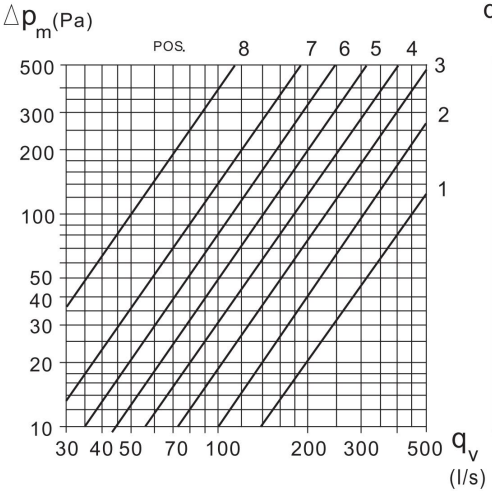
IRIS 160



$q_v = k\sqrt{\Delta p_m}$

POS	k
1	22,1
1,5	17,2
2	14,8
2,5	13,4
3	12,5
3,5	11,5
4	10,7
4,5	9,5
5	8,5
5,5	7,5
6	6,8
6,5	5,6
7	4,9
7,5	4,0
8	3,5

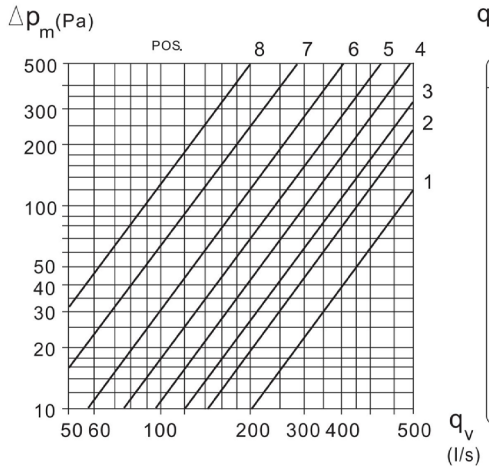
IRIS 200



$q_v = k\sqrt{\Delta p_m}$

POS	k
1	44,2
1,5	36,6
2	30,9
2,5	26,9
3	23,2
3,5	20,6
4	18,2
4,5	15,9
5	14,0
5,5	12,3
6	11,0
6,5	9,6
7	8,4
7,5	6,5
8	5,0

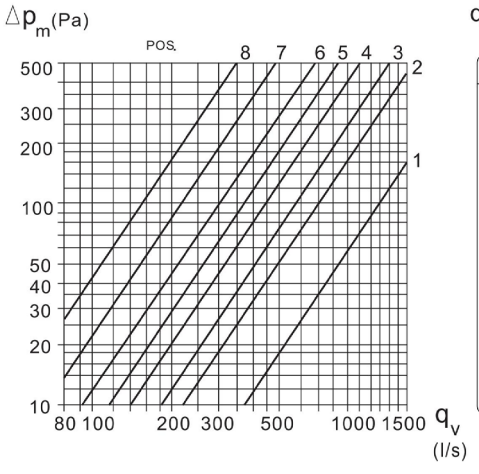
IRIS 250



$q_v = k\sqrt{\Delta p_m}$

POS	k
1	64,4
1,5	53,5
2	45,6
2,5	41,8
3	38,7
3,5	34,5
4	30,7
4,5	27,3
5	24,1
5,5	21,4
6	18,4
6,5	15,8
7	12,8
7,5	10,9
8	8,9

IRIS 300

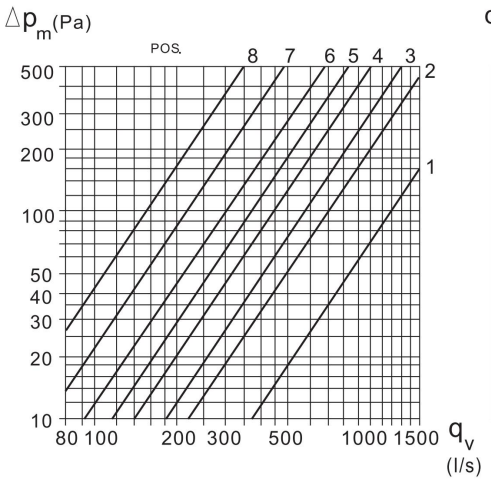


$q_v = k\sqrt{\Delta p_m}$

POS	k
1	118,0
1,5	88,3
2	70,0
2,5	64,5
3	58,7
3,5	53,0
4	45,1
4,5	42,4
5	37,0
5,5	33,3
6	30,0
6,5	25,9
7	21,8
7,5	19,0
8	15,8

Information contained herein is based on careful tests and experience. It reflects our knowledge and is for guidance purpose only. It is given in good faith and user should ensure that the product is fit for purpose before any application. The quoted values are average and should not be taken as maximum or minimum values for specific purposes. Manufacturer and distributor are not responsible for any non-recommended use or consequential damage.

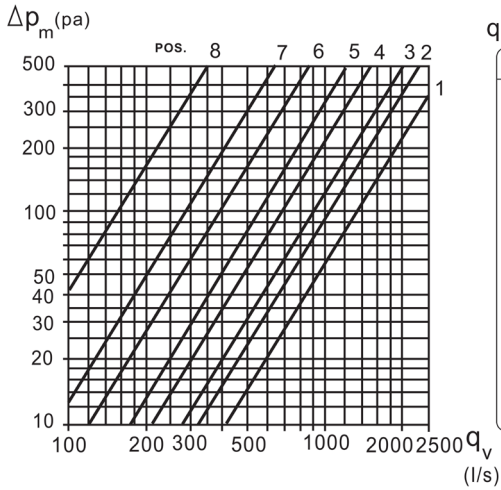
IRIS 315



$q_v = k\sqrt{\Delta p_m}$

POS	k
1	118,0
1,5	88,3
2	70,0
2,5	64,5
3	58,7
3,5	53,0
4	45,1
4,5	42,4
5	37,0
5,5	33,3
6	30,0
6,5	25,9
7	21,8
7,5	19,0
8	15,8

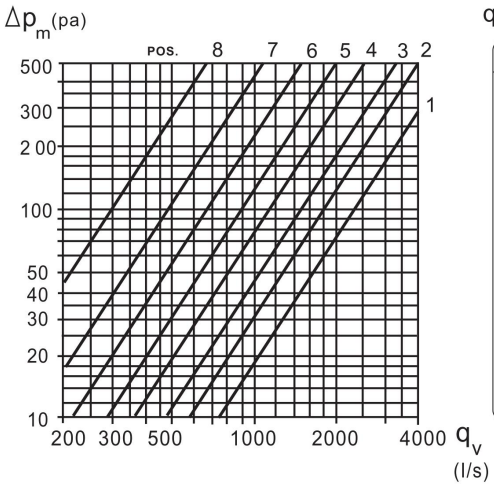
IRIS 400



$q_v = k\sqrt{\Delta p_m}$

POS	k
1	131,0
2	102,0
3	88,3
4	67,3
5	52,7
6	38,5
7	28,4
8	15,5

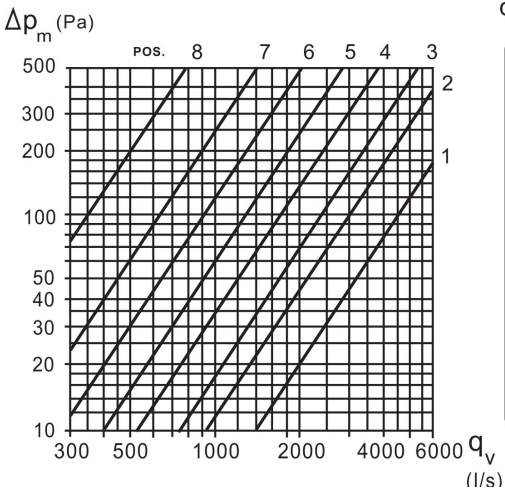
IRIS 500



$q_v = k\sqrt{\Delta p_m}$

POS	k
1	230,0
2	177,0
3	146,0
4	112,0
5	88,5
6	66,6
7	48,0
8	30,0

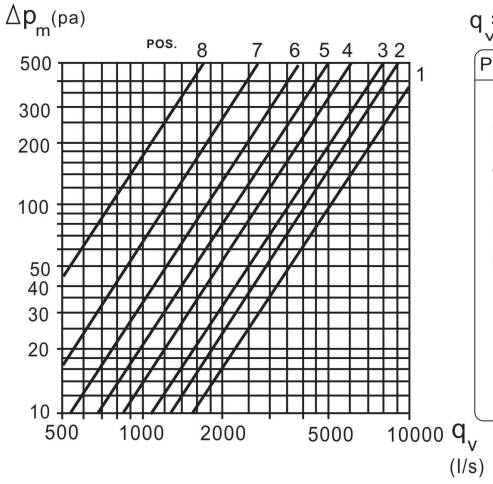
IRIS 630



$q_v = k\sqrt{\Delta p_m}$

POS	k
1	451,0
2	297,0
3	238,0
4	169,0
5	127,0
6	91,6
7	62,8
8	35,1

IRIS 800



$q_v = k\sqrt{\Delta p_m}$

POS	k
1	489,0
2	402,0
3	344,0
4	267,0
5	217,0
6	170,0
7	122,0
8	73,7

Information contained herein is based on careful tests and experience. It reflects our knowledge and is for guidance purpose only. It is given in good faith and user should ensure that the product is fit for purpose before any application. The quoted values are average and should not be taken as maximum or minimum values for specific purposes. Manufacturer and distributor are not responsible for any non-recommended use or consequential damage.

Acoustic data

These dampers are tested according to ISO 5135 for acoustical performances.

The diagrams provide A-weighted sound pressure level (Lp10A) from damper to room, end reflection included.
All acoustic data assume a room attenuation of 4dB (10m2 SABINE).

Correction factors from the table here below are used to calculate emitted sound power level to duct at the respective frequencies, LW = LWA + KO

		Frequency (Hz)							
DIAM.	**Pos.**	**63**	**125**	**250**	**500**	**1k**	**2k**	**4k**	**8k**
Ø 80	1	10	9	4	-3	-10	-18	-18	-22
	7	9	6	-1	-5	-9	-7	-10	-18
Ø 100	1	9	6	4	-2	-9	-20	-18	-19
	8	7	6	-1	-4	-8	-12	-8	-16
Ø 125	1	9	9	3	-2	-10	-17	-16	-20
	8	8	4	-4	-9	-13	-13	-6	-3
Ø 150	1	10	9	3	-4	-12	-16	-14	-15
	8	7	9	2	-5	-10	-13	-13	-15
Ø 160	1	10	9	3	-4	-12	-16	-14	-15
	8	7	9	2	-5	-10	-12	-12	-14
Ø 200	1	10	10	3	-3	-10	-15	-15	-15
	8	7	-2	-6	-11	-7	-6	-6	-14
Ø 250	1	9	9	2	-4	-9	-13	-13	-14
	8	8	7	2	-4	-8	-11	-11	-12
Ø 300	1	11	6	3	-4	-8	-13	-14	-14
	8	8	2	-4	-4	-4	-9	-13	-15
Ø 315	1	11	6	3	-4	-8	-13	-14	-14
	8	7	1	-4	-4	-4	-9	-13	-15
Ø 400	1	11	8	1	-5	-10	-12	-14	-13
	8	6	3	-8	-9	-7	-6	-6	-12
Ø 500	1	10	12	0	-8	-14	-18	-15	-12
	8	7	2	-6	-7	-6	-6	-8	-15
Ø 630	1	9	11	1	-8	-13	-17	-14	-11
	8	7	1	-7	-7	-6	-6	-8	-14
Ø 800	1	9	11	1	-7	-12	-16	-13	-10
	8	5	1	-7	-7	-6	-6	-8	-14

Information contained herein is based on careful tests and experience. It reflects our knowledge and is for guidance purpose only. It is given in good faith and user should ensure that the product is fit for purpose before any application. The quoted values are average and should not be taken as maximum or minimum values for specific purposes. Manufacturer and distributor are not responsible for any non-recommended use or consequential damage.

The calculation diagrams are to be used for sound level measurement purposes only.

DIAGRAM IRIS 80

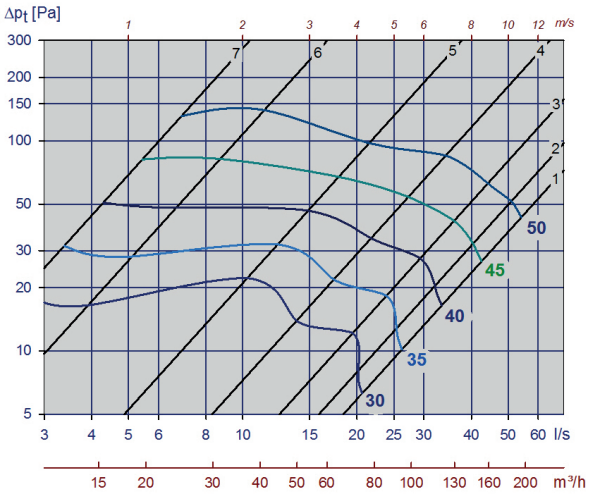


DIAGRAM IRIS 100

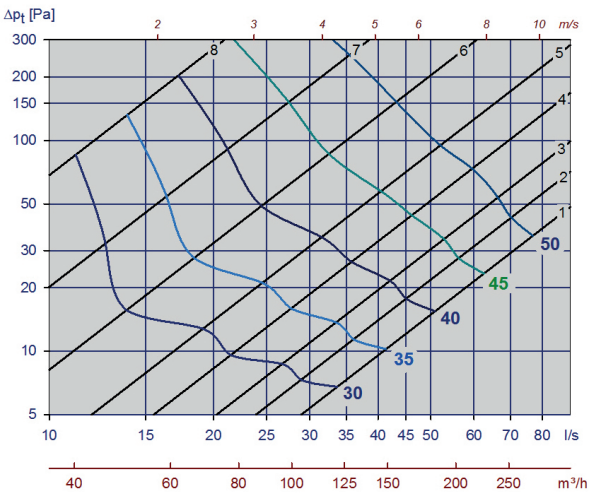


DIAGRAM IRIS 125

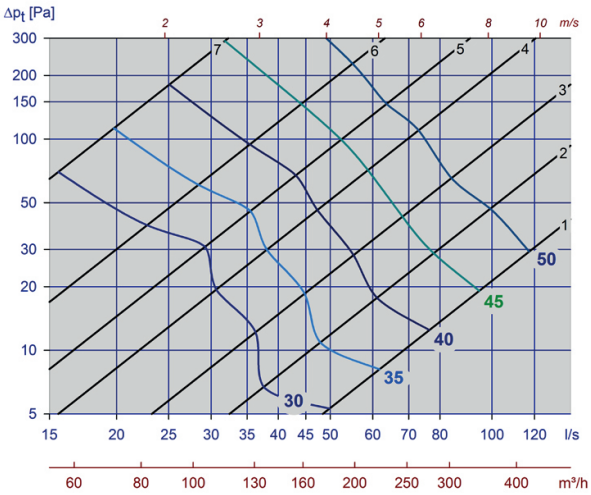


DIAGRAM IRIS 150

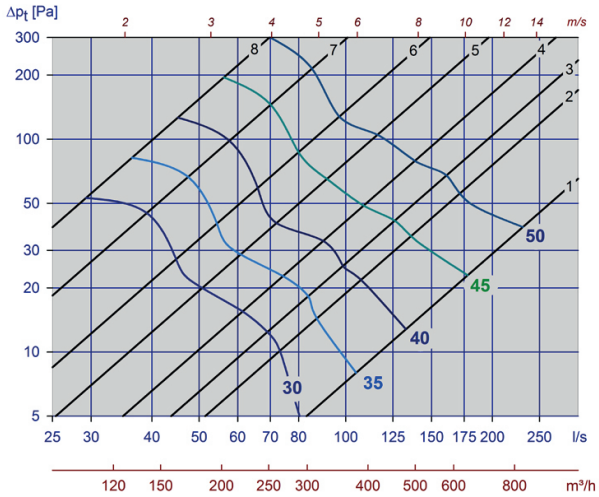


DIAGRAM IRIS 160

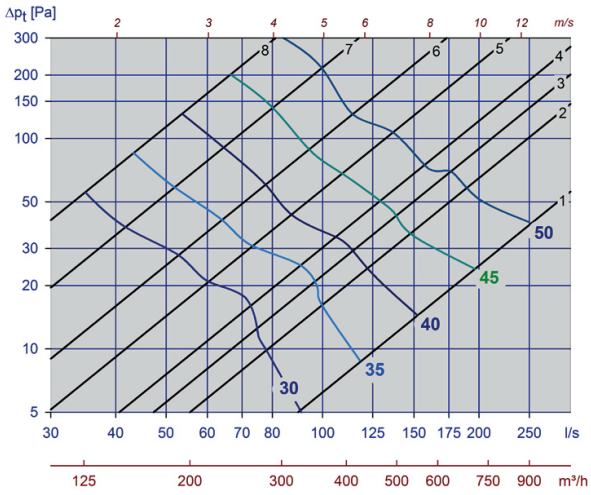
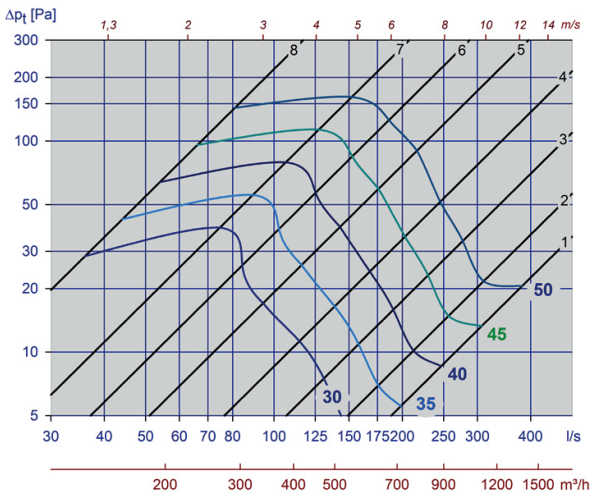


DIAGRAM IRIS 200



Information contained herein is based on careful tests and experience. It reflects our knowledge and is for guidance purpose only. It is given in good faith and user should ensure that the product is fit for purpose before any application. The quoted values are average and should not be taken as maximum or minimum values for specific purposes. Manufacturer and distributor are not responsible for any non-recommended use or consequential damage.

DIAGRAM IRIS 250

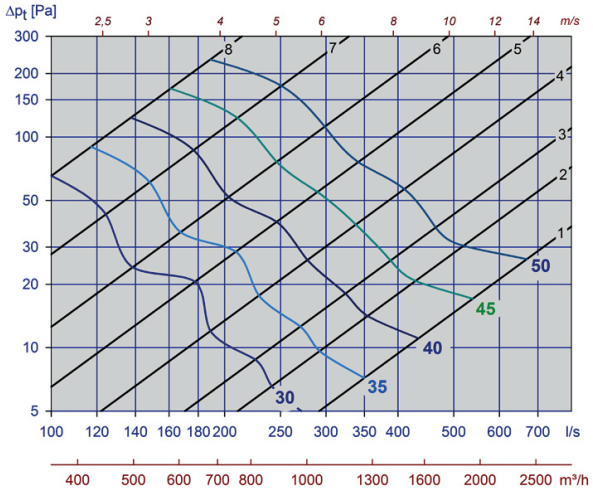


DIAGRAM IRIS 300

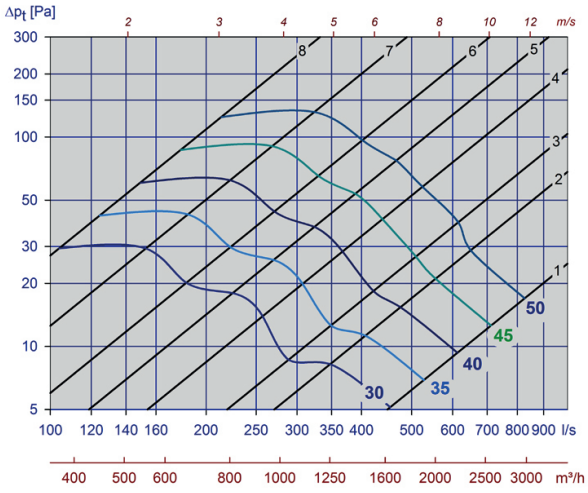


DIAGRAM IRIS 315

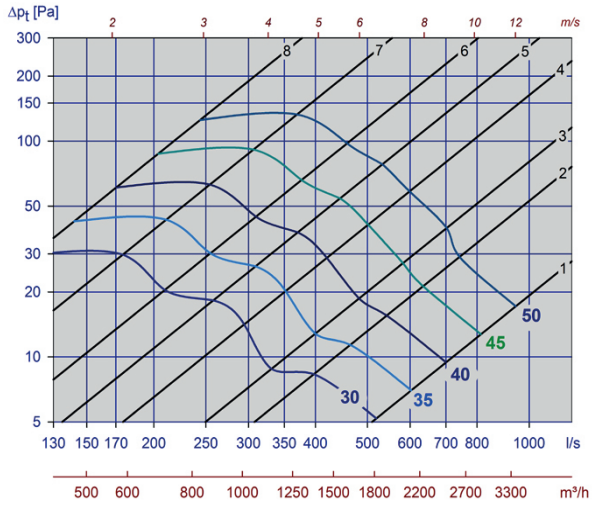


DIAGRAM IRIS 400

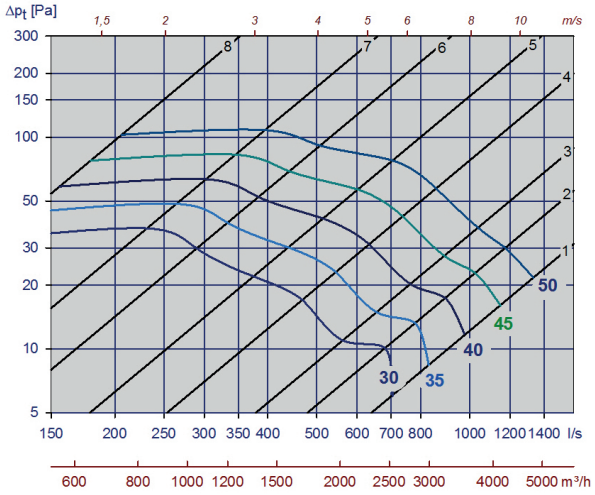


DIAGRAM IRIS 500

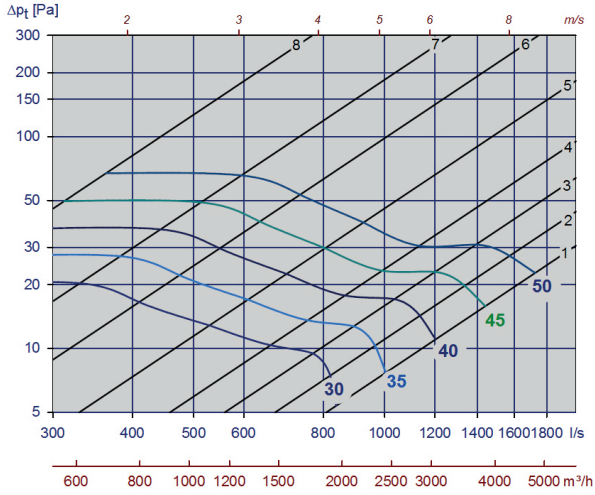
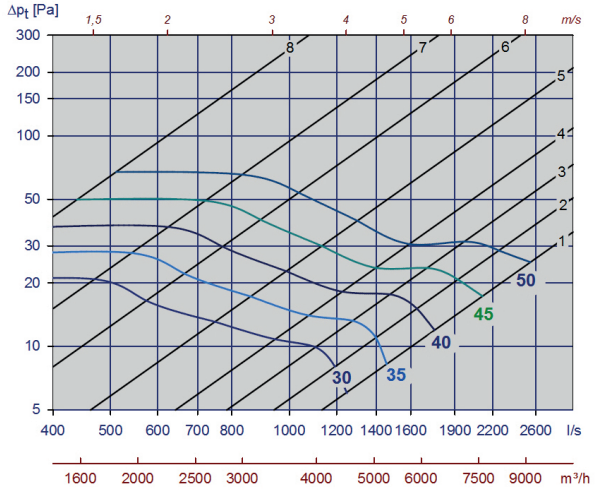
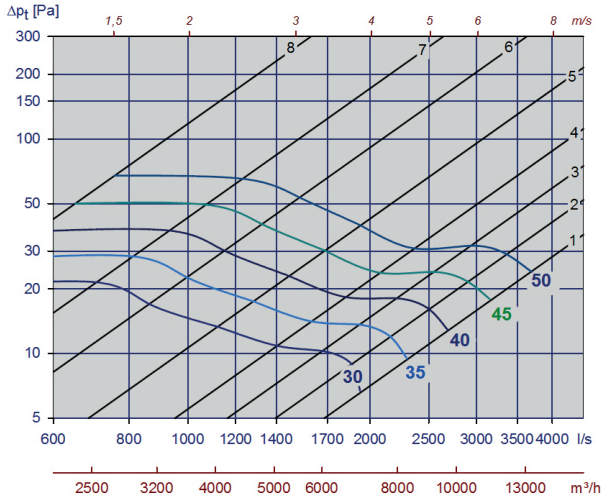


DIAGRAM IRIS 630



Information contained herein is based on careful tests and experience. It reflects our knowledge and is for guidance purpose only. It is given in good faith and user should ensure that the product is fit for purpose before any application. The quoted values are average and should not be taken as maximum or minimum values for specific purposes. Manufacturer and distributor are not responsible for any non-recommended use or consequential damage.

DIAGRAM IRIS 800



Information contained herein is based on careful tests and experience. It reflects our knowledge and is for guidance purpose only. It is given in good faith and user should ensure that the product is fit for purpose before any application.
The quoted values are average and should not be taken as maximum or minimum values for specific purposes. Manufacturer and distributor are not responsible for any non-recommended use or consequential damage.