HIGH INDUCTION DIFFUSER WITH FIXED GEOMETRY

KP
SERIES

TECHNICAL DATA

TECHNICAL DATA : The KP series diffusers are composed by an external panel and a round central part. The central body has fixed deflectors which create a elicoidal/centrifugal motion of the air flow. For this reason, this specific air terminal is suitable for applications requiring heating with a strong induction effect. KP diffusers are used for installation heights from 2,6 m to 4,0 m.

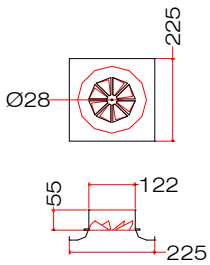
MATERIAL : The diffuser is manufactured from sheet steel, with white epoxy finish RAL 9010.

MOUNTING : The diffuser has to be fixed with a central M5 screw directly on the plenum bridge. It is supplied with a white screw cover.

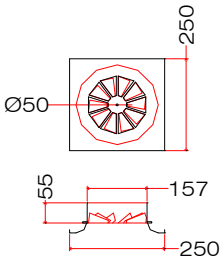
KP

Circular diffuser on square panel with round neck - sizes from mm. 125 to mm. 315.

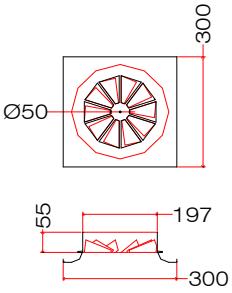
Technical sheet diffuser
Model KP 125



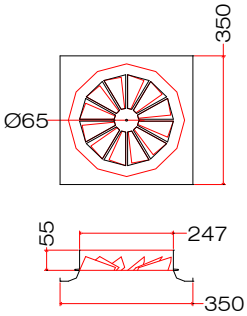
Technical sheet diffuser
Model KP 160



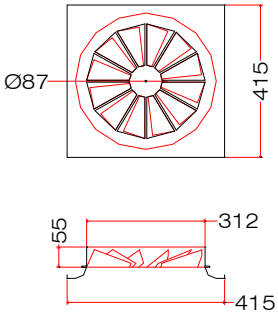
Technical sheet diffuser
Model KP 200



Technical sheet diffuser
Model KP 250



Technical sheet diffuser
Model KP 315



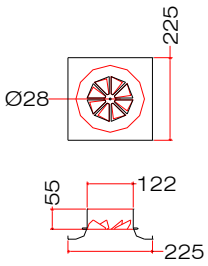
HIGH INDUCTION DIFFUSER WITH FIXED GEOMETRY

KP
SERIES

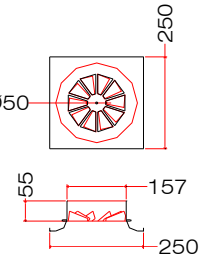
TECHNICAL DATA

KPR
Circular diffuser with round neck - sizes from mm. 125 to mm. 31

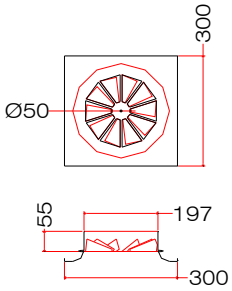
Technical sheet diffuser
Model KP 125



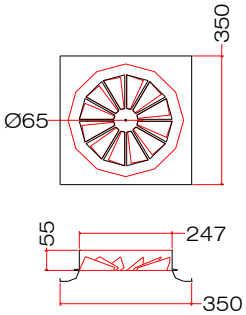
Technical sheet diffuser
Model KP 160



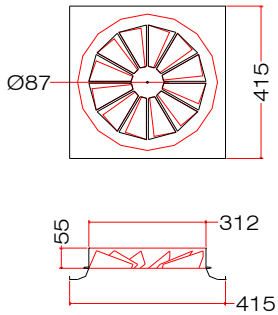
Technical sheet diffuser
Model KP 200



Technical sheet diffuser
Model KP 250



Technical sheet diffuser
Model KP 315



HIGH INDUCTION DIFFUSER WITH FIXED GEOMETRY

KP
SERIES

PERFORMANCE

KP - KPR

Model	Air supply		Pressure drop	sound power	Diffusers placed in a square							
					Distance between diffusers in m							
					2,7	3	3,3	3,6	4,2	4,5	4,8	5,1
	l/s	m^3/h	Pa	dB(A)	Speed in the occupied zone m/s							
125	15	54	12	23	0,16	0,15	0,13	--	--	--	--	--
	20	72	21	31	0,21	0,19	0,17	0,15	--	--	--	--
	25	90	33	37	0,26	0,23	0,20	0,18	0,14	0,13	--	--
	30	108	47	42	0,31	0,27	0,24	0,21	0,16	0,15	0,13	0,12
	35	126	65	47	0,37	0,33	0,27	0,24	0,19	0,17	0,15	0,14
160	20	72	11	24	0,16	0,15	0,13	--	--	--	--	--
	25	90	17	29	0,20	0,18	0,16	0,14	--	--	--	--
	30	108	24	33	0,23	0,21	0,19	0,16	0,13	--	--	--
	40	144	42	41	0,31	0,27	0,24	0,21	0,16	0,15	0,13	0,13
	50	180	66	48	0,40	0,35	0,29	0,25	0,20	0,18	0,16	0,15
	60	216	95	54	0,49	0,43	0,36	0,30	0,23	0,21	0,19	0,18
200	25	90	5	<20	0,16	0,14	0,12	--	--	--	--	--
	30	108	7	21	0,18	0,17	0,14	0,13	--	--	--	--
	40	144	13	27	0,24	0,22	0,19	0,16	0,13	--	--	--
	50	180	21	33	0,29	0,26	0,23	0,20	0,16	0,14	0,13	--
	60	216	30	38	0,36	0,32	0,27	0,23	0,18	0,16	0,15	0,14
	70	252	40	42	0,43	0,38	0,31	0,27	0,21	0,19	0,17	0,16
	80	288	53	46	0,50	0,44	0,36	0,31	0,24	0,21	0,19	0,18
250	30	108	3	<20	0,17	0,16	0,14	--	--	--	--	--
	40	144	5	20	0,22	0,20	0,17	0,15	0,12	--	--	--
	50	180	8	23	0,27	0,25	0,21	0,19	0,15	0,13	--	--
	60	216	12	26	0,33	0,29	0,25	0,22	0,17	0,15	0,14	0,13
	70	252	16	30	0,40	0,35	0,29	0,25	0,20	0,18	0,16	0,15
	80	288	21	34	0,46	0,41	0,34	0,28	0,22	0,20	0,18	0,17
	90	324	27	37	0,53	0,47	0,39	0,32	0,25	0,22	0,20	0,19
315	50	180	3	<20	0,20	0,18	0,16	0,14	--	--	--	--
	60	216	5	<20	0,23	0,21	0,18	0,16	0,13	--	--	--
	70	252	6	<20	0,27	0,24	0,21	0,19	0,15	0,13	--	--
	78	280	8	21	0,30	0,27	0,23	0,20	0,16	0,14	0,13	0,12
	100	360	13	27	0,40	0,35	0,29	0,25	0,20	0,18	0,16	0,15
	125	450	21	34	0,52	0,46	0,38	0,32	0,24	0,22	0,20	0,19
	150	540	30	40	0,63	0,56	0,47	0,39	0,29	0,26	0,23	0,21
	200	720	53	50	0,88	0,78	0,65	0,54	0,40	0,35	0,31	0,28

The speed between the diffusers is based on an installation height of 2.70 m. and for cold air, with an air difference of -12° with respect to the room..
The pressure drop and acoustic pressure Lp(A) values are for a diffuser without equaliser and with calibrating damper completely open..
The acoustic pressure levels include an extra dampener of

Height correction

Height	Velocity
2,60	1,12
2,70	1,00
3,00	0,84

Correction for equaliser

Model	125	160	200	250	315
Drop x	1,2	1,3	1,4	1,4	1,4
Noise +	3	4	5	5	5

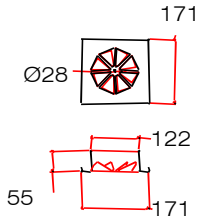
HIGH INDUCTION DIFFUSER WITH FIXED GEOMETRY

KP
SERIES

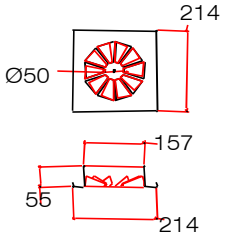
TECHNICAL DATA

KPZ
Circular diffuser on square panel with 90" neck - sizes from mm. 125 to mm. 400.

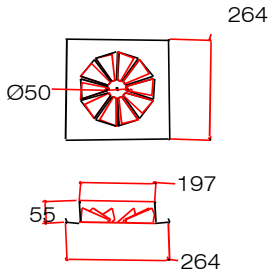
Technical sheet diffuser
Model KPZ 125



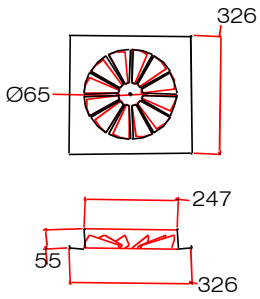
Technical sheet diffuser
Model KPZ 160



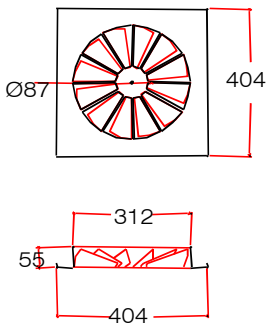
Technical sheet diffuser
Model KPZ 200



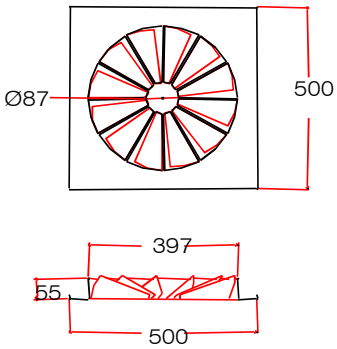
Technical sheet diffuser
Mod. KPZ 250



Technical sheet diffuser
Mod. KPZ 315



Technical sheet diffuser
Mod. KPZ 400

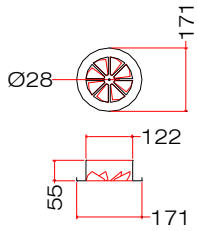


HIGH INDUCTION DIFFUSER WITH FIXED GEOMETRY

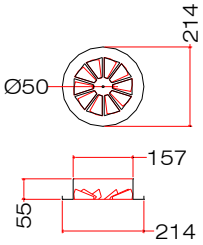
TECHNICAL DATA

KP
SERIES

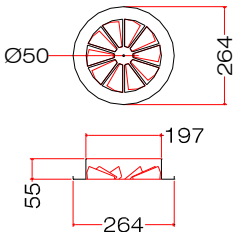
Technical sheet diffuser
Model KPRZ 125



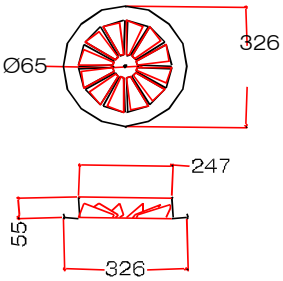
Technical sheet diffuser
Model KPRZ 160



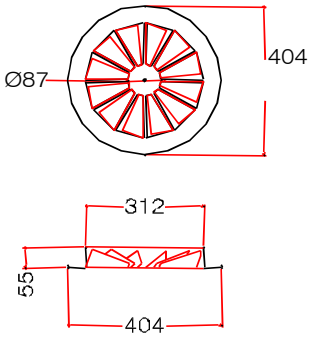
Technical sheet diffuser
Model KPRZ 200



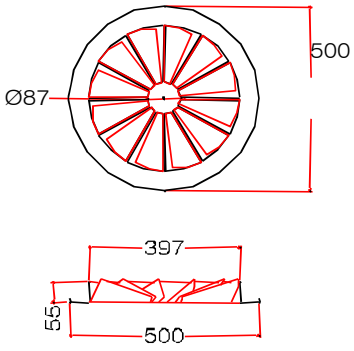
Technical sheet diffuser
Mod. KPRZ 250



Technical sheet diffuser
Mod. KPRZ 315



Technical sheet diffuser
Mod. KPRZ 400



HIGH INDUCTION DIFFUSER WITH FIXED GEOMETRY

KP
SERIES

PERFORMANCE

KPZ - KPRZ

Model	Air supply		Pressure drop	sound power	Diffusers placed in a square								
					Distance between diffusers in m								
					2,7	3	3,3	3,6	3,9	4,2	4,5	4,8	5,1
	l/sec	m^3/h	Pa	dB(A)	Speed in the occupied zone m/s								
125	15	54	12	30	0,21	0,19	0,16	0,14	0,13	--	--	--	--
	20	72	21	38	0,27	0,24	0,21	0,18	0,16	0,15	0,13	--	--
	25	90	33	44	0,34	0,30	0,26	0,22	0,20	0,18	0,16	0,14	0,13
	30	108	48	49	0,42	0,37	0,31	0,26	0,23	0,21	0,19	0,17	0,15
	35	126	65	54	0,51	0,45	0,37	0,31	0,27	0,24	0,21	0,19	0,18
160	20	72	8	32	0,20	0,18	0,16	0,14	0,12	--	--	--	--
	25	90	13	38	0,25	0,22	0,20	0,17	0,15	0,13	0,12	--	--
	30	108	19	42	0,30	0,26	0,23	0,20	0,18	0,16	0,14	0,13	--
	40	144	34	50	0,41	0,36	0,30	0,26	0,23	0,20	0,18	0,17	0,15
	50	180	52	57	0,53	0,47	0,39	0,33	0,28	0,25	0,22	0,20	0,18
	60	216	75	63	0,65	0,57	0,48	0,40	0,34	0,29	0,26	0,24	0,22
200	25	90	5	24	0,18	0,16	0,14	0,12	--	--	--	--	--
	30	108	8	28	0,21	0,19	0,17	0,15	0,13	--	--	--	--
	40	144	14	35	0,27	0,25	0,21	0,19	0,17	0,15	0,13	0,12	--
	50	180	21	41	0,35	0,31	0,26	0,23	0,20	0,18	0,16	0,15	0,13,
	60	216	31	46	0,43	0,38	0,31	0,27	0,24	0,21	0,19	0,17	0,16
	70	252	42	50	0,51	0,45	0,37	0,31	0,27	0,24	0,21	0,20	0,18
	80	288	55	54	0,60	0,53	0,44	0,37	0,31	0,27	0,24	0,22	0,20
250	30	108	2	22	0,20	0,18	0,16	0,14	0,12	--	--	--	--
	40	144	4	26	0,26	0,23	0,20	0,18	0,16	0,14	0,12	--	--
	50	180	6	31	0,32	0,29	0,24	0,21	0,19	0,17	0,15	0,14	0,13
	60	216	9	35	0,40	0,35	0,29	0,25	0,22	0,20	0,18	0,16	0,15
	70	252	13	39	0,48	0,42	0,35	0,29	0,25	0,23	0,20	0,18	0,17
	80	288	16	42	0,55	0,49	0,40	0,34	0,29	0,26	0,23	0,21	0,19
	90	324	21	46	0,63	0,56	0,46	0,39	0,33	0,28	0,25	0,23	0,21
315	50	180	3	<20	0,22	0,20	0,18	0,15	0,14	0,12	--	--	--
	60	216	4	21	0,26	0,24	0,21	0,18	0,16	0,14	0,13	--	--
	70	252	6	24	0,31	0,27	0,24	0,21	0,18	0,16	0,15	0,13	0,12
	80	288	7	27	0,36	0,32	0,27	0,23	0,21	0,18	0,17	0,15	0,14
	100	360	11	33	0,46	0,41	0,34	0,29	0,25	0,22	0,20	0,18	0,17
	125	450	18	40	0,60	0,53	0,44	0,37	0,31	0,27	0,24	0,22	0,20
	150	540	26	46	0,74	0,65	0,54	0,45	0,39	0,33	0,29	0,26	0,24
	200	720	46	56	1,02	0,91	0,75	0,63	0,54	0,46	0,40	0,35	0,31
400	100	360	4	20	0,36	0,32	0,33	0,28	0,25	0,22	0,20	0,18	0,16
	125	450	7	24	0,46	0,41	0,43	0,36	0,31	0,27	0,24	0,22	0,20
	150	540	10	29	0,56	0,50	0,53	0,45	0,38	0,33	0,29	0,26	0,23
	200	720	17	38	0,78	0,70	0,74	0,62	0,53	0,45	0,40	0,35	0,31
	250	900	27	45	1,01	0,90	0,95	0,80	0,68	0,59	0,51	0,45	0,40
	300	1080	39	51	1,24	1,10	1,17	0,98	0,84	0,72	0,63	0,55	0,49

The speed between the diffusers is based on an installation height of 2.70 m. and for cold air, with an air difference of -12° with respect to the room..
The pressure drop and acoustic pressure Lp(A) values are for a diffuser without equaliser and with calibrating damper completely open..
The acoustic pressure levels include an extra dampener of 10 db
Lower levels than 20 dB(A) are given by "--".
Lower terminal speeds than 12 cm/s. are given by "--".

Height correction

Height	Velocity
2,6	1,12
2,7	1
3	0,84

FIXED GEOMETRY HIGH INDUCTION DIFFUSERS

KPQ
SERIES

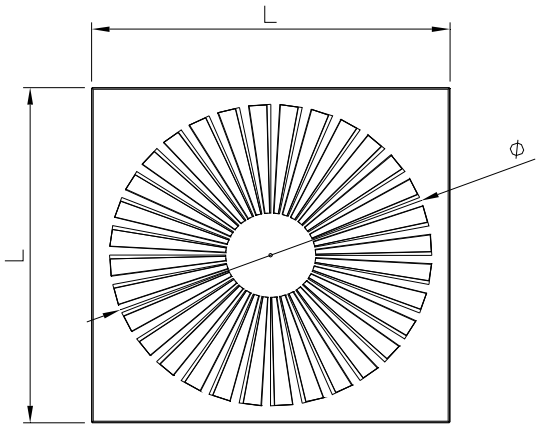
TECHNICAL CHARACTERISTICS

TECHNICAL CHARACTERISTICS:
The **KPQ** series diffuser is a support panel on which a rose patter of fixed deflectors is stamped.
This geometry achieves a circular air flow with a large induction effect.
For this reason, the diffuser is ideal both for heating and cooling even with large temperature differences between the injected air and the air in the room.
This particular diffuser series is normally used in spaces with ceilings heights between 2,6 and 4 metres.

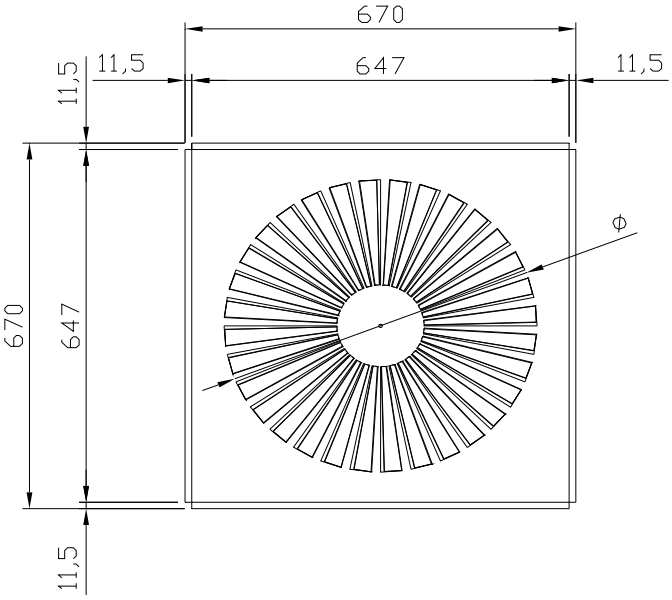
POSSIBLE TYPES:
The KPQ diffuser series is available in different sizes, both for the simple panel version and the Fineline version for modular ceilings panels 670x670mm.

DIFFUSER MATERIAL:
The diffuser is made of carbon steel sheet.
Paint Finish : white colour RAL 9010.

DIFFUSER FITTING:
The diffuser is fixed with a central M5 type screw using a fixing bridge to the plenum or the duct. The screw is supplied, together with a white screw cover.

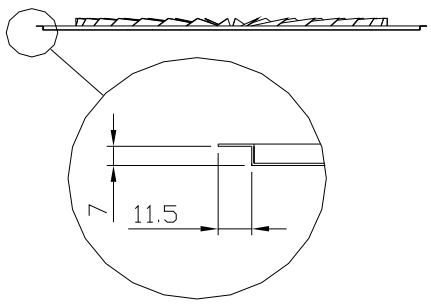


SIMPLE panel version



SIMPLE PANEL VERSIONS			
Code	L mm	ø mm	Ak m²
KPQ300	296	236	0,010
KPQ400	396	336	0,016
KPQ500	496	436	0,033
KPQ600	596	536	0,049
KPQ625	621	536	0,049

FINELINE PANEL VERSIONS		
Code	ø mm	Ak m²
KPQFC300	236	0,010
KPQFC400	336	0,016
KPQFC500	436	0,033
KPQFC600	536	0,049

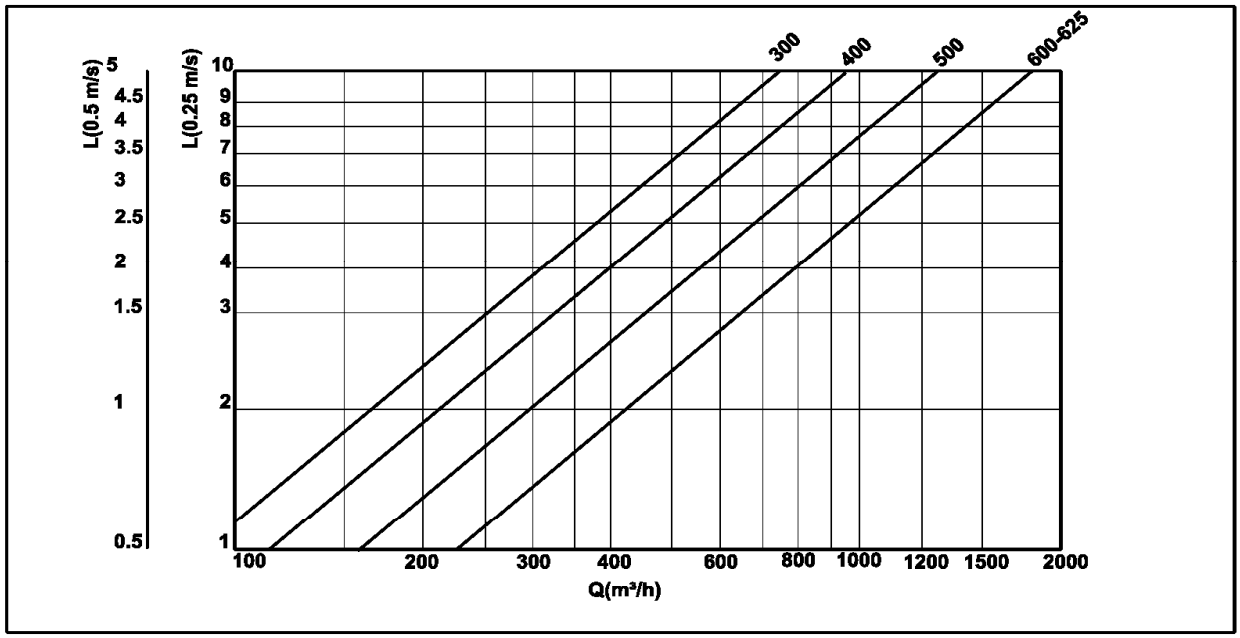


FINELINE panel version

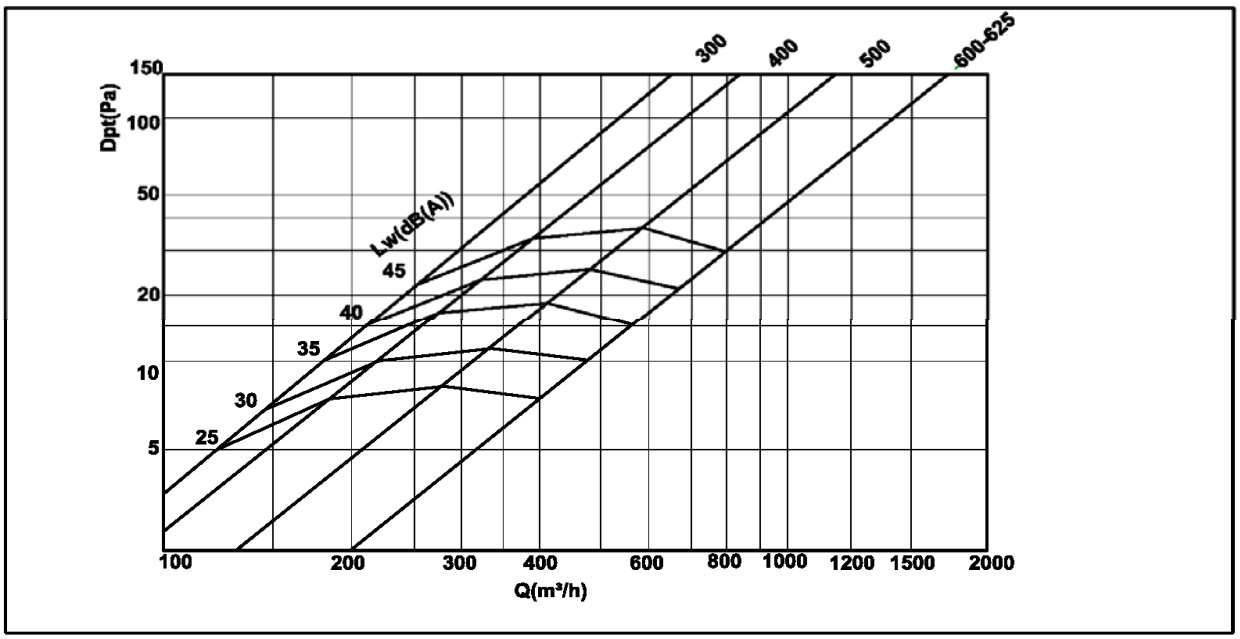
FIXED GEOMETRY HIGH INDUCTION DIFFUSERS

KPQ
SERIES

TECHNICAL CHARACTERISTICS



THROW DIAGRAM IN ISOTHERMIC CONDITIONS



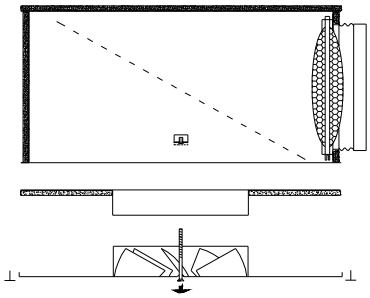
NOISE AND AIRFLOW LOSS DIAGRAM

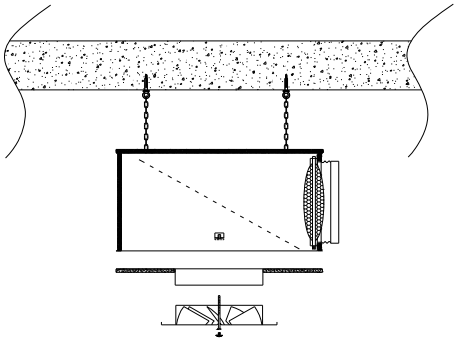
HIGH INDUCTION DIFFUSER WITH FIXED GEOMETRY

KP
SERIES

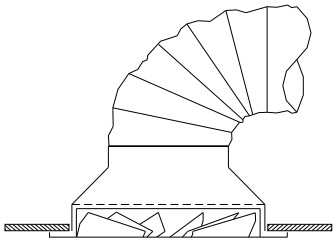
TECHNICAL DATA
INSTALLATION

INSTALLATION SYSTEM

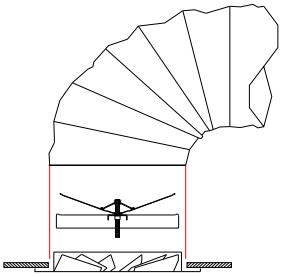




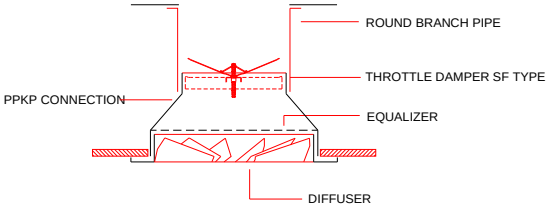
INSTALLATION WITH FLEXIBLE DUCT ON COUPLING PPKP



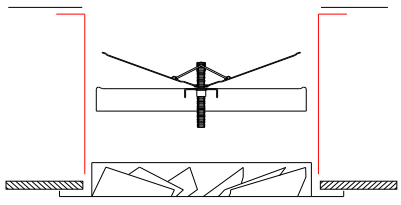
INSTALLATION WITH FLEXIBLE DUCT



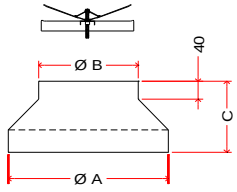
INSTALLATION WITH JOINT ON COUPLING PPKP



INSTALLATION WITH CONNECTING JOINT



PPKP COUPLING WITH EQUALIZER



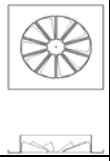
PPKP COUPLING						
PPKP	125	160	200	250	315	400
Ø A	128	163	203	253	318	403
Ø B	98	123	148	178	198	248
C	90	95	113	123	160	160

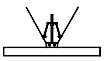
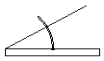
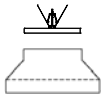
HIGH INDUCTION DIFFUSER WITH FIXED GEOMETRY

SERIE
KP

CODES
Ak SURFACES
AND ACCESSORIES

In the panel of each article is shown the effective area of the air passage Ak in m²

Nominal sizes								
MODEL	KP Circular square diffuser with round neck	KP 6 Like KP but with 595x595 panel	KPB 6 Like KP6 but with flat border	KPZ Circular square diffuser 90° collar	KPZ 6 Like KPZ but with 595x595 panel	KPZB 6 Like KPZ6 but with flat border	KPR Circular diffuser with round neck	KPR Z Circular diffuser 90° neck
125	0,0091	0,0091	0,0091	0,0091	0,0091	0,0091	0,0091	0,0091
160	0,0146	0,0146	0,0146	0,0146	0,0146	0,0146	0,0146	0,0146
200	0,0225	0,0225	0,0225	0,0225	0,0225	0,0225	0,0225	0,0225
250	0,0345	0,0345	0,0345	0,0345	0,0345	0,0345	0,0345	0,0345
315	0,0536	0,0536	0,0536	0,0536	0,0536	0,0536	0,0536	0,0536
400	-	-	-	0,0847	0,0847	0,0847	-	0,0847

Nominal sizes					
	SF	SB	PPKP	SF	
MODEL	Butterfly gate	Collecting gate	Coupling	Butterfly gate for coupling	
125	X	X	X	SF 100	X
160	X	X	X	SF 125	X
200	X	X	X	SF 150	X
250	X	X	X	SF 180	X
315	X	X	X	SF 200	X
400	X	X	X	SF 250	X

KP	Circular square diffuser with round neck
KP6	Like KP with 595x595 panel
KPB6	Like KP6 with 595x595 panel and flat border
KPZ	Diffuser with neck and right angle
KPZ6	Like KPZ with 595x595 panel
KPZB6	Like KPZ6 with 595x595 panel and flat border
KPR	Circular diffuser with round neck
KPRZ	Circular diffuser with 90° neck
KU 0	Fixing collar
???	Nominal diameter

Example: KPB6 250
Circular square diffuser with round neck and 595x595 panel and flat border. Nominal diameter 250.

SF	Butterfly gate
SB	Collecting gate
PPKP	Coupling

PLENUM FOR CIRCULAR DIFFUSER

PP 60
SERIES

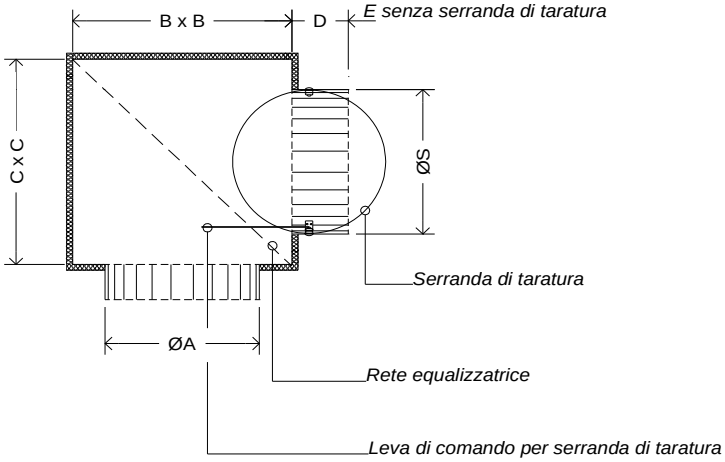
OVERVIEW

PLENUM :
The PP60 plenums, also named "calm cases", allow the correct entry of air in the neck of the diffuser thus ensuring that the throw of air in the room is homogenous along all the circumference of the diffuser.

Materials :
PP 60 standard plenum : galvanized steel sheet.
Insulation: expanded polyethylene certified for the reaction to fire according to Italian class 1.

Versions :
Made from insulated steel sheet with expanded polyethylene, ideal for the supply of air, and in simple sheet steel normally used for air extraction.

Accessories:
Regulation damper and equalizing net in the connection of the plenum.

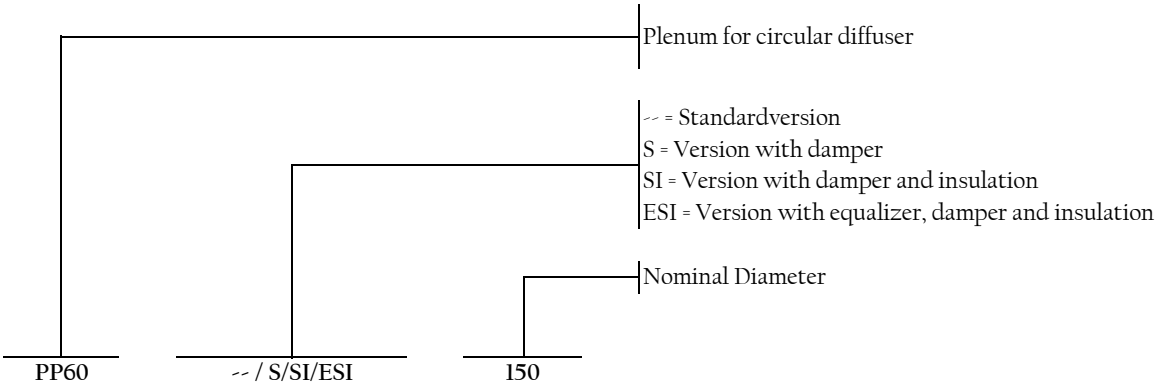


nominal deck diameter mm	A mm	B mm	C mm	D mm	E mm	N° of connection	S [mm] mm
100	102	200	200	65	65	1	96
125	127	225	225	90	60	1	121
150	152	250	250	70	70	1	146
160	162	250	250	90	60	1	156
200	202	300	300	90	60	1	196
250	252	350	350	90	60	1	246
300	302	400	400	90	60	1	296
315	317	400	400	90	60	1	311
350	352	450	450	90	90	1	346
355	357	450	450	90	90	1	346
400	402	500	500	90	90	1	396
450	453	550	550	100	100	1	446
500	503	600	600	100	100	1	496
630	633	730	730	100	100	1	600

PLENUM FOR CIRCULAR DIFFUSER

PP 60
SERIES

ORDER CODES



HIGH INDUCTION DIFFUSERS FOR CIRCULAR DUCTS

KO
SERIES

INSTALLATION

TECHNICAL DATA: **KO** series diffusers for round ducts are an absolutely innovative solution. This diffuser permits to adapt the round shape of the air terminal diffuser to the round duct where the diffuser will be mounted.

It's important to receive the correct values of the duct diameter during the order processing phase. It will be in charge to our production plant to make the diffuser with the same curving of duct (see before page for diameter limits).

KO series diffusers have an exceptional versatility. Indeed, it is possible to orient the air flow on frontal side without modification on free area, pressure drop and acoustic level, for any position of deflecting blades.

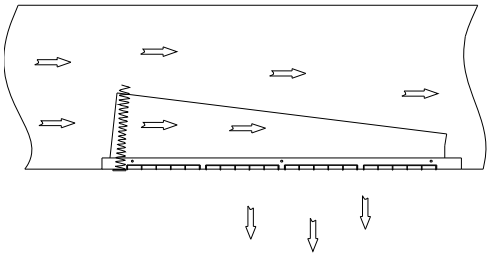
MATERIALS : Diffuser in galvanised sheet steel, deflectors in abs, gate in galvanized sheet steel.

FINISH: Diffuser painted white in epoxy powder finish RAL 9010 and deflectors in black colour RAL 9005.

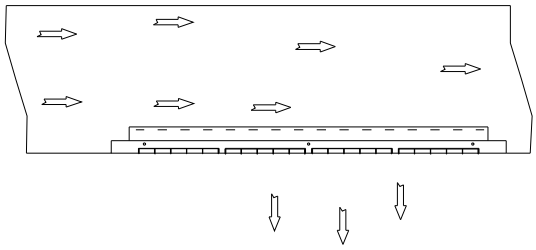
MOUNTING : The diffuser has to be fixed with threaded screws on sight directly in the channel.

REGULATION : The deflectors can be adjusted manually.

FITTING WITH COLLECTING DAMPER



FITTING WITH SLIDING DAMPER

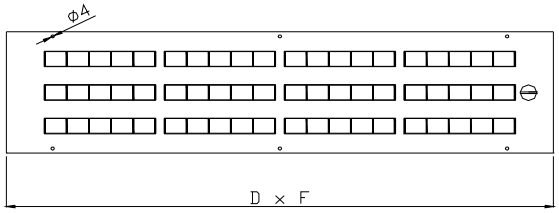


HIGH INDUCTION DIFFUSERS FOR CIRCULAR DUCTS

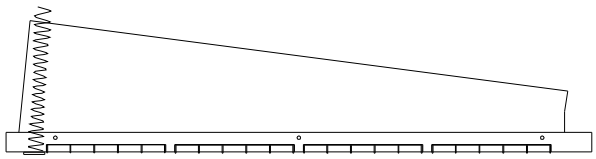
KO
SERIES

TECHNICAL DATA

KO
Diffuser with adjustable deflectors - dimensions from mm. 425 x 65 to mm. 1025 x 315.



KO + SB
Diffuser with adjustable deflectors and with collecting gate.



KO + SG
Diffuser with adjustable deflectors and with slide gate.

KOI = Diffuser with horizontal deflectors
SB = Collecting gate
SG = Slide gate
425x65 = Nominal dimension of the hole in mm
Ø 300 = Diameter of the duct in mm

Nominal dimension of the hole		Diameter of the duct
425 x 65	x	**Ø ???**
525 x 65	x	**Ø ???**
425 x 115	x	**Ø ???**
525 x 115	x	**Ø ???**
625 x 115	x	**Ø ???**
825 x 115	x	**Ø ???**
1025 x 115	x	**Ø ???**
425 x 215	x	**Ø ???**
525 x 215	x	**Ø ???**
625 x 215	x	**Ø ???**
825 x 215	x	**Ø ???**
1025 x 215	x	**Ø ???**
525 x 315	x	**Ø ???**
625 x 315	x	**Ø ???**
825 x 315	x	**Ø ???**
1025x315	x	**Ø ???**

Technical data

			Duct diameter	
D	F	G	Minimum	Maximum
450	100	55	140	400
550	100	55	140	400
450	164	55	300	900
550	164	55	300	900
650	164	55	300	900
850	164	55	300	900
1050	164	55	300	900
450	264	55	600	2400
550	264	55	600	2400
650	264	55	600	2400
850	264	55	600	2400
1050	264	55	600	2400
550	364	55	1000	2400
650	364	55	1000	2400
850	364	55	1000	2400
1050	364	55	1000	2400

HIGH INDUCTION DIFFUSERS FOR CIRCULAR DUCTS

KO
SERIES

PERFORMANCE

KO Series diffusers characteristics

Air supply velocity V_k [m/s]	2	3	4	5	6	8	9	10	12
Sound power [dB(A)]	‹ 20	25	30	35	40	45	50	55	60

Installation height max [m] H_{max} = 4,1 m
Installation height min [m] H_{min} = 2,6 m
Terminal air velocity [m/s] V_t = 0,37 m/s

KO 425x65

Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	18	37	63	95	133	225	279	339	473
Air flow [m3/h]	102	152	203	254	305	406	457	508	609
Throw [m]	0,4	0,6	0,8	1	1,2	1,6	1,76	2	2,3

KO 525x65

Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	17	37	62	94	131	222	275	334	467
Air flow [m3/h]	109	163	217	272	326	435	489	544	652
Throw [m]	0,4	0,6	0,8	1	1,2	1,6	1,82	2	2,4

KO 425x115

Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	17	36	61	91	127	215	267	324	453
Air flow [m3/h]	117	176	234	293	352	469	527	586	703
Throw [m]	0,4	0,6	0,8	1,1	1,3	1,7	1,9	2,1	2,5

KO 525x115

Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	17	35	59	89	125	211	262	318	444
Air flow [m3/h]	133	200	266	333	399	532	599	665	799
Throw [m]	0,5	0,7	0,9	1,1	1,4	1,8	2	2,3	2,7

KO 625x115

Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	16	34	57	86	120	204	253	307	428
Air flow [m3/h]	166	249	332	415	498	664	747	830	996
Throw [m]	0,5	0,8	1	1,3	1,5	2	2,3	2,5	3

KO 825x115

Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	15	32	54	82	114	193	240	291	406
Air flow [m3/h]	230	345	460	576	691	921	1036	1151	1381
Throw [m]	0,6	0,9	1,2	1,5	1,8	2,4	2,7	3	3,6

KO 1025x115

Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	15	31	52	79	110	187	231	281	392
Air flow [m3/h]	286	429	572	715	858	1144	1284	1431	1717
Throw [m]	0,7	1	1,3	1,6	2	2,6	3	3,3	4

HIGH INDUCTION DIFFUSERS FOR CIRCULAR DUCTS

KO
SERIES

PERFORMANCES

KO 425x215

Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	16	34	58	87	122	207	256	311	434
Air flow [m3/h]	152	227	304	381	457	609	685	761	913
Throw [m]	0,5	0,7	1	1,2	1,4	1,9	2,2	2,4	2,9

KO 525x215

Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	15	32	55	82	115	195	242	293	409
Air flow [m3/h]	219	328	438	547	657	876	985	1095	1314
Throw [m]	0,6	0,9	1,2	1,4	1,7	2,3	2,6	2,9	3,5

KO 625x215

Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	15	31	53	79	111	188	233	283	395
Air flow [m3/h]	273	410	546	683	819	1092	1229	1366	1639
Throw [m]	0,6	1	1,3	1,6	1,9	2,6	2,9	3,2	3,9

KO 825x215

Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	14	30	50	75	105	178	221	268	375
Air flow [m3/h]	379	568	757	947	1136	1515	1704	1893	2272
Throw [m]	0,8	1,1	1,5	1,9	2,3	3	3,4	3,8	4,6

KO 1025x215

Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	14	29	48	73	102	172	214	259	362
Air flow [m3/h]	471	706	941	1177	1412	1883	2118	2353	2824
Throw [m]	0,8	1,3	1,7	2,1	2,5	3,4	3,8	4,2	5,1

KO 525x315

Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	14	30	51	77	107	181	224	272	380
Air flow [m3/h]	346	519	692	865	1038	1384	1557	1731	2077
Throw [m]	0,7	1,1	1,5	1,8	2,2	2,9	3,3	3,6	4,4

KO 625x315

Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	14	29	49	74	103	175	217	263	367
Air flow [m3/h]	432	648	863	1079	1295	1727	1943	2159	2590
Throw [m]	0,8	1,2	1,6	2	2,4	3,2	3,6	4	4,9

KO 825x315

Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	13	27	47	70	98	166	205	249	348
Air flow [m3/h]	599	898	1197	1496	1796	2394	2694	2993	3592
Throw [m]	1	1,4	1,9	2,4	2,9	3,8	4,3	4,8	5,7

KO 1025x315

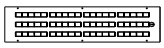
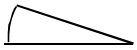
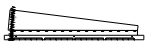
Air supply velocity Vk [m/s]	2	3	4	5	6	8	9	10	12
Pressure drop [Pa]	13	27	45	68	94	160	198	241	336
Air flow [m3/h]	744	1116	1488	1860	2232	2976	3348	3720	###
Throw [m]	1,1	1,6	2,1	2,7	3,2	4,3	4,8	5,3	6,4

HIGH INDUCTION DIFFUSERS FOR CIRCULAR DUCTS

KO
SERIES

CODES
Ak SURFACES
AND ACCESSORIES

In the panel of each article is shown the effective area of the air passage Ak in m²

					
Nominal sizes	KO	SB	SG	KO + SB	KO + SG
	High induction diffuser for circular ducts	collecting damper	Sliding damper	Diffuser for circular ducts+ collecting damper	Diffuser for circular ducts + sliding damper
KO425x65 ???	0,0054	X	X	X	X
KO525x65 ???	0,0061	X	X	X	X
KO425x115 ???	0,0163	X	X	X	X
KO525x115 ???	0,0185	X	X	X	X
KO625x115 ???	0,0231	X	X	X	X
KO825x115 ???	0,0320	X	X	X	X
KO1025x115 ???	0,0397	X	X	X	X
KO425x215 ???	0,0211	X	X	X	X
KO525 x 215 ???	0,0304	X	X	X	X
KO625 x 215???	0,0379	X	X	X	X
KO825 x 215 ???	0,0526		X	X	X
KO1025x215 ???	0,0654		X	X	X
KO525 x 315 ???	0,0481	X	X	X	X
KO625 x 315???	0,0600	X	X	X	X
KO825 x 315 ???	0,0831		X	X	X
KO1025x315 ???	0,1033		X	X	X

KO	Diffuser for circular channel
SB	Tilted gate
SG	Collecting gate
425 x 65	Dimension
???	Diameter of the duct

Example: KO SB 525 215
Diffuser for circular ductl with collecting gate and sizes 525x215.