

EDRA - EDRA-PQ Circular diffusers with adjustable cones



Description

Aluminium circular diffusers with micrometric cone adjustment.

Characteristics

Material: aluminium and steel.

Finish: painted white RAL 9010.

Installation: with screws to the diffuser neck.

Use

Ducted air conditioning and treatment systems with installation height between 2.7 and 6 m.

Models

- EDRA circular diffusers with adjustable cones;
- EDRA-PQ circular diffusers with adjustable cones on square panel 595x595 mm.

Accessories

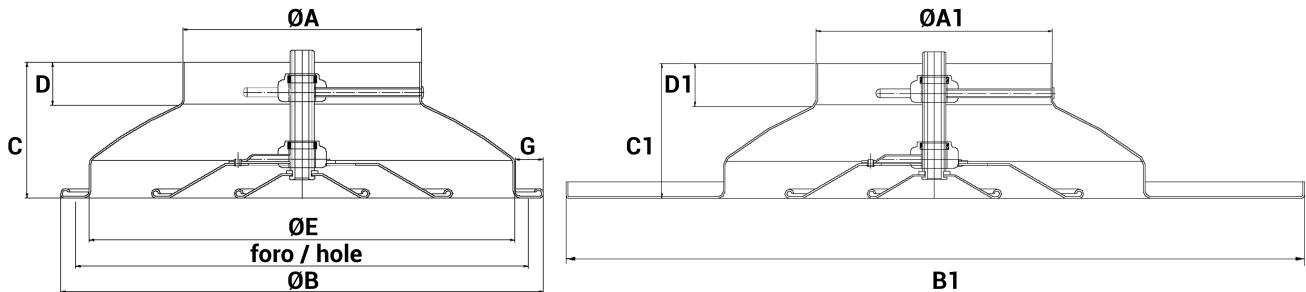
- EPZ-DC galvanised steel plenum;
- EPI-DC insulated plenum;
- SD butterfly damper;
- EQUA equaliser;
- Fixing clips kit.

On request

Cone positioning adjustment via thermostatic control.

Colour on request.

Dimensions



All dimensions are expressed in mm

Models	EDRA							EDRA-PQ			
	Ø A	Ø B	Ø E	Ø Hole	C	D	G	Ø A1	B1 x B1	C1	D1
100	96	250	195	225	85	33	25	96	595 x 595	85	33
150	146	330	280	308	90	25	23	148	595 x 595	90	23
160	156	330	280	308	90	27	23	156	595 x 595	90	28
200	196	445	370	410	115	37	35	196	595 x 595	115	37
250	246	535	460	500	135	37	35	246	595 x 595	135	37
300	296	655	560	610	170	45	45	296	595 x 595	115	45
315	311	655	560	610	170	48	45	311	595 x 595	115	44
350	346	763	650	709	195	60	54	-	-	-	-
400	396	793	680	740	195	60	52	-	-	-	-
450	444	843	730	790	195	60	52	-	-	-	-
500	496	893	782	842	195	60	52	-	-	-	-
630	624	1045	929	991	210	55	54	-	-	-	-

Operating Data

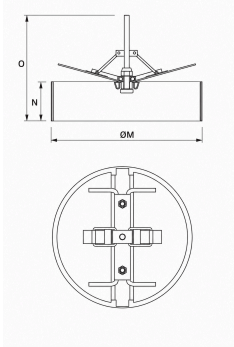
- V_k : effective speed (m/s).
- m^3/h : flow rate.
- Pa: pressure drops in Pascal.
- L(m): air throw in metres calculated on ceiling installation, terminal velocity 0.25 m/s.
- dB(A): noise level.

Models	Effective Section	Vk	2	3	4	5	6
	m²						
100	0,0059	m³/h	42	63	84	105	127
		Pa	7,6	17,2	30,6	47,7	68,7
		L(m)	0,4	0,6	0,8	1,0	1,2
150	0,0149	m³/h	107	161	216	268	322
		Pa	6,3	14,2	25,2	39,4	56,8
		L(m)	0,7	1,1	1,5	1,9	2,2
160	0,0167	m³/h	120	181	241	301	361
		Pa	6,1	13,8	24,5	38,3	55,1
		L(m)	0,8	1,2	1,7	2,1	2,5
200	0,0279	m³/h	201	301	402	502	602
		Pa	5,5	12,5	22,2	34,7	49,9
		L(m)	1,2	1,7	2,3	2,9	3,5
250	0,0448	m³/h	323	484	645	806	968
		Pa	5,0	11,3	20,1	31,5	45,3
		L(m)	1,5	2,4	3,2	4,1	4,9
300	0,0656	m³/h	473	709	945	1181	1418
		Pa	4,6	10,5	18,6	29,1	41,8
		L(m)	2,1	3,2	4,2	5,3	6,3
315	0,0726	m³/h	523	785	1046	1308	1569
		Pa	4,6	10,3	18,2	28,5	41,1
		L(m)	2,3	3,4	4,5	5,7	6,8
350	0,0904	m³/h	651	976	1302	1627	1953
		Pa	4,4	9,9	17,6	27,5	39,6
		L(m)	2,6	4,0	5,3	6,6	7,9
400	0,1175	m³/h	846	1269	1692	2116	2539
		Pa	4,1	9,3	16,5	25,8	37,2
		L(m)	3,2	4,7	6,3	7,9	9,5
450	0,1500	m³/h	1080	1620	2160	2700	3240
		Pa	4,0	8,9	15,8	24,7	35,8
		L(m)	3,7	5,6	7,4	9,3	11,1
500	0,1863	m³/h	1342	2013	2684	3355	4026
		Pa	3,8	8,5	15,0	23,5	33,8
		L(m)	4,3	6,4	8,6	10,7	12,9
630	0,2994	m³/h	2156	3233	4311	5389	6467
		Pa	3,2	7,1	12,7	19,9	28,6
		L(m)	6,4	9,6	12,8	16,0	19,2
Noise Level		dB(A)	20	25	30	35	40

SD - Balancing Damper

All dimensions are expressed in mm.

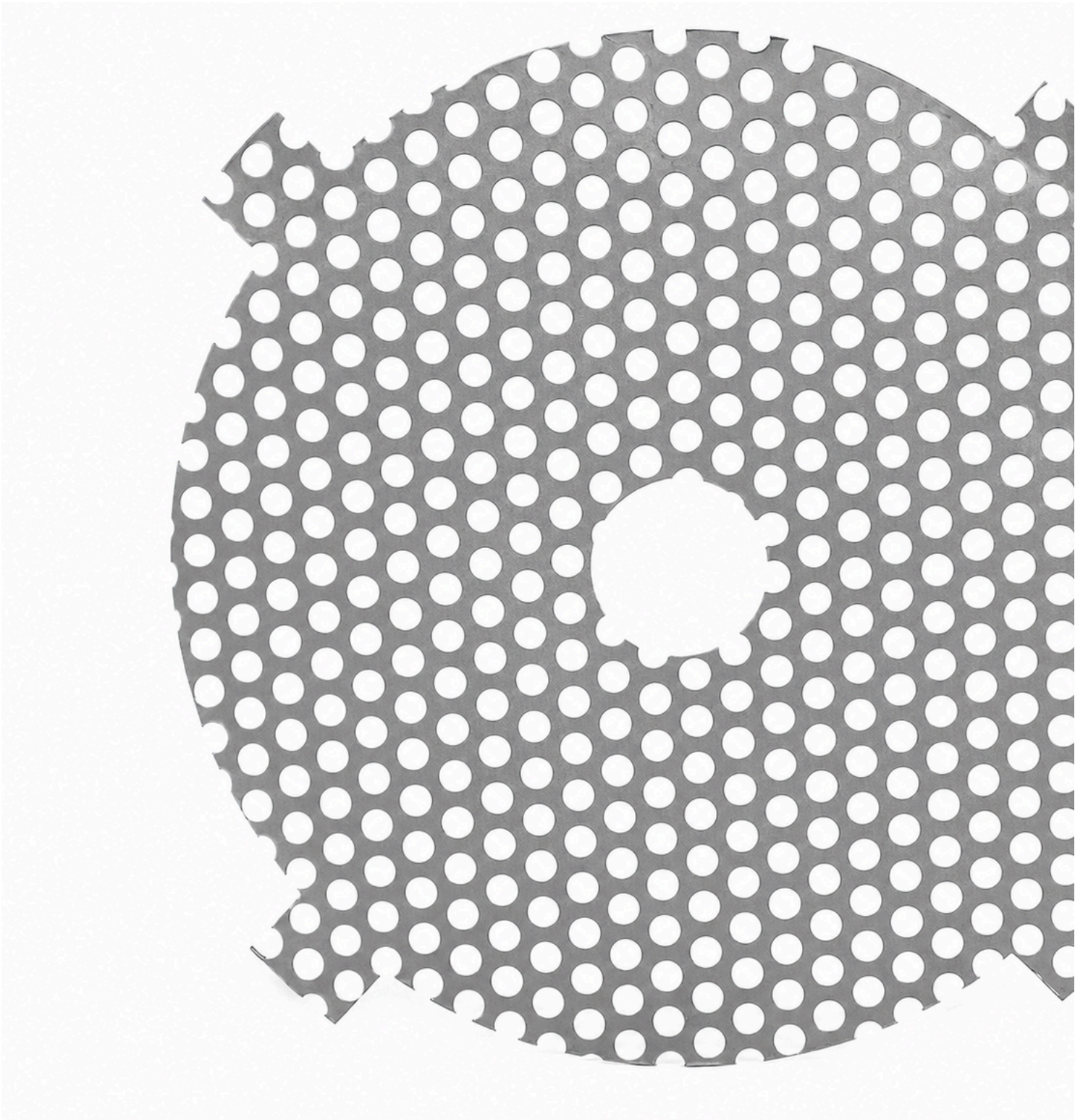
The SD butterfly regulation damper is suitable for installation on circular diffusers, it is made of galvanised steel and it comes with a sturdy adjustable opening/closing mechanism, which prevents vibrations and noise. The damper is adjusted by turning the adjustment screw using a screwdriver, by inserting it into the hole on the threaded bar of the diffuser.

Technical Drawing and Product Photo	Diameter	Ø M	N	O
	100	95	39	100
	150	145	39	100
	160	155	39	100
	200	195	39	100
	250	245	39	100
	300	295	39	100
	315	310	39	100
	350	345	39	100
	400	395	39	100
	450	445	39	100
	500	495	39	100
	630	545	39	100

Accessories

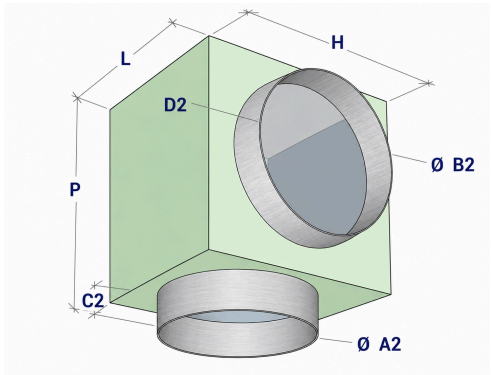
EQUA - Equaliser

The equalizer is an accessory designed to break up the airflow and distribute it evenly across the diffuser outlet, ensuring a uniform air discharge and improved airflow distribution.



EPZ-DC - EPI-DC - Plenum Box

All measurements are expressed in mm.

Technical Drawing	Models	L	H	P	Ø A2 Diffuser	Ø B2 Duct - Flexible	Ø B2 Rigid	D2
	100	200	200	200	102	95	70	100
	150	250	250	250	152	145	70	100
	160	250	250	250	162	155	70	100
	200	300	300	300	202	195	70	100
	250	350	350	350	252	245	70	100
	300	400	400	400	302	295	70	100
	315	400	400	400	317	310	70	100
	350	450	450	450	352	345	70	100
	400	500	500	500	402	395	70	100
	450	550	550	550	453	445	70	100
	500	600	600	600	503	495	70	100
	630	730	730	730	632	600	70	100

Price List

Models	EDRA - Diffuser	EDRA-PQ - on panel 595x595	SD - Butterfly Damper	EQUA - Equaliser	EPZ - Plenum Box	EPI - Insulated Plenum Box
	Eur	Eur	Eur	Eur	Eur	Eur
100	61,09	112,77	30,57	18,55	57,51	78,14
150	62,73	87,59	30,34	18,55	65,43	88,40
160	67,63	91,52	30,34	18,55	65,67	88,68
200	80,31	100,44	32,07	18,55	74,73	100,47
250	101,17	122,37	37,20	19,42	99,39	128,93
300	126,03	a.r.	50,12	20,89	111,47	144,76
315	126,43	a.r.	50,43	22,11	111,86	145,19
350	a.r.		55,64	22,97	111,86	162,42
400	a.r.		61,72	25,86	148,15	190,67
450	a.r.		76,95	26,46	169,94	217,82
500	a.r.		96,22	27,91	193,12	246,82
630	a.r.		121,24	35,89	101,18	323,76

Price list

Fixing Clips Kit (3 pcs)	Eur
EDRA 100-160	10,41
EDRA 200-250	10,98
EDRA 300-315	18,73