

EDU-S - EDU-SM Long range nozzle diffusers with damper



Description

Long range aluminium diffusers, adjustable with a max. angle of 30°.

Characteristics

Material: aluminium.

Finish: satin aluminium.

Installation: with flange (on duct) or with fitting (on flexible duct).

Installation height between 3 m and 30 m depending on the model.

Models

- EDU-S Long throw nozzle diffusers with damper.
- EDU-SM Long throw nozzle diffusers with damper with set-up for motor.

Use

Installation in rooms with very high ceilings or where a long air throw is needed.

Accessories

- Servomotors for EDU-S: the servomotor is supplied disassembled from the long range diffuser (installation by the customer);
- EDU-C - Screw cover;
- EDU-SW - Rear swirl (throw reducer);
- EDU-RF - Fitting for flexible duct;
- EDU-RC - Fitting for circular duct.

On request

Ral painting on request.

Dimensions

All dimensions are expressed in mm.

Technical Drawing	Models	Effective Cross-Section (m2)	Ø D	Ø S	Ø C	Ø F	E	L1	ØJ	Ø Hole
	80	0,0059	80	160	245	226	92	149	249	205
	150	0,0183	150	300	385	366	173	276	389	352
	200	0,0325	200	400	485	466	226	367	489	452
	230	0,0432	230	400	485	466	216	357	489	452
	250	0,0513	250	400	485	466	208	349	489	452
	300	0,0745	300	400	485	466	184	325	489	452

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.

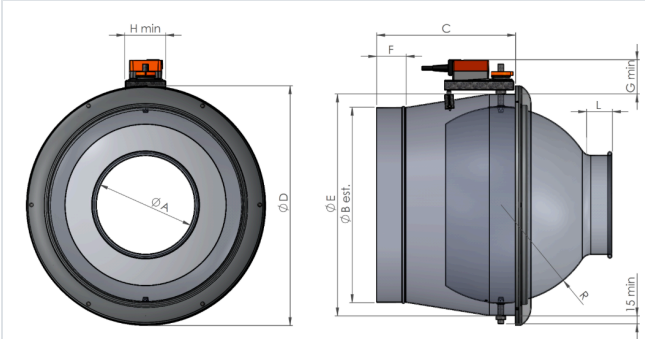
From model 40 to 200 made with central cone, model 230 without central cone

Models	V_k (m/s)	2	4	6	8	10
80	m^3/h	36	72	108	135	168
	L(m)	4,0	8,0	12,0	15,0	19,0
	Pa	2,0	10	22	36	57
	dB(A)	<20	<20	<20	22	29
150	m^3/h	127	254	382	509	637
	L(m)	6,0	12,0	19,0	25,0	32,0
	Pa	2	8	19	34	55
	dB(A)	<20	<20	21	29	37
200	m^3/h	226	452	678	904	1130
	L(m)	8,0	17,0	25,0	34,0	42,0
	Pa	2	8	19	34	55
	dB(A)	<20	<20	20	28	35
230	m^3/h	298	597	896	1195	1494
	L(m)	9,0	20,0	29,0	39,0	45,0
	Pa	2	8	19	34	55
	dB(A)	<20	<20	21	28	35
250	m^3/h	353	707	1060	1413	1766
	L(m)	10,0	21,0	31,0	42,0	48,0
	Pa	2	8	19	34	55
	dB(A)	<20	<20	24	31	36
300	m^3/h	509	1017	1526	2035	2543
	L(m)	13,0	25,0	36,0	44,0	51,0
	Pa	2	8	19	34	55
	dB(A)	<20	<20	23	30	35

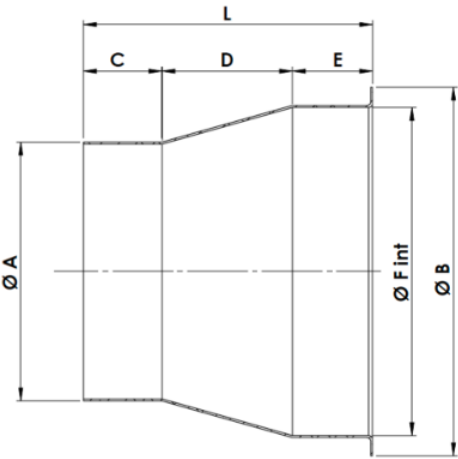
EDU-S - Long range nozzle diffusers with set-up for motor

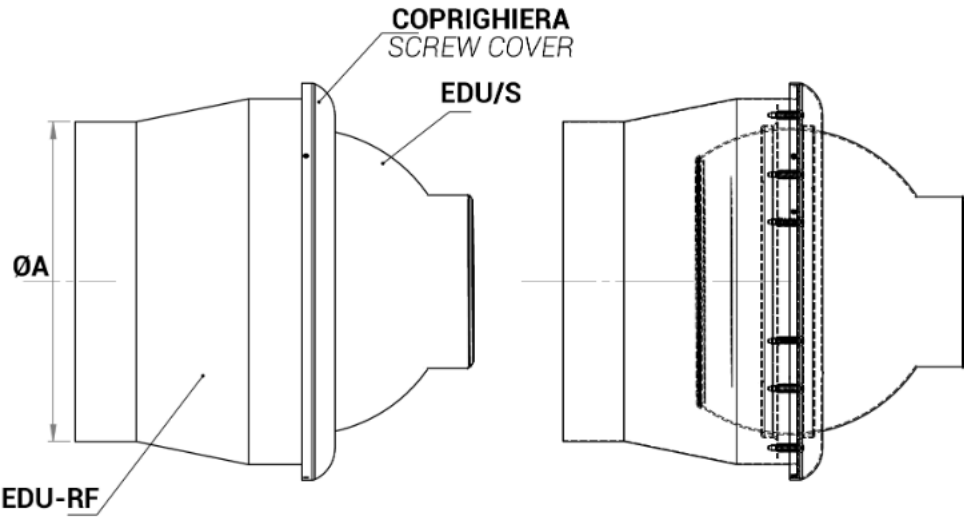
D* Screw Cover.
All measurements are expressed in mm.

Available Actuators		
Models	Actuator On / Off	Modulating Servomotor
80	CM24-L / CM230-L	CM24-SR-L
150 - 200 - 230 - 250 - 300	NM24A / NM230A	NM24A-SR / NM230ASR

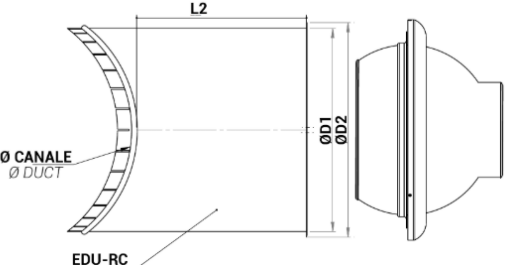
Technical Drawing	D_n	A	B	C	D*	E	F	L	R	G min	H min
	80	80	158	200	258	204	50	25	80	38	60
	150	150	313	283	388	352	60	35	150	70	85
	200	200	398	283	488	452	60	50	200	70	85
	230	230	398	283	488	452	60	50	200	70	85
	250	250	398	283	488	452	60	50	200	70	85
	300	300	398	283	488	452	60	50	200	70	85

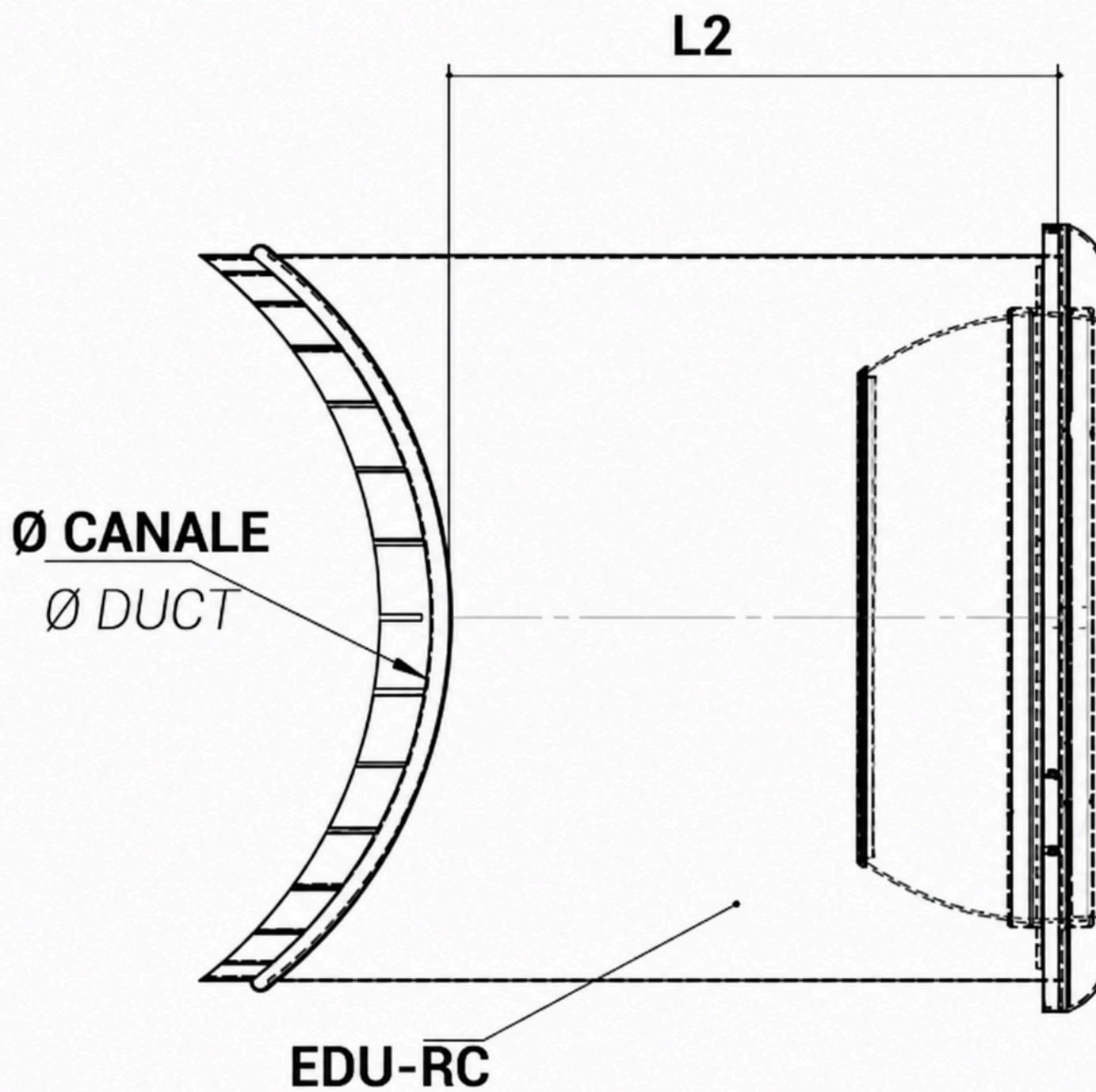
EDU-RF - Fitting for Flexible Duct

Technical Drawing	Models	Ø A	Ø B	C	D	E	Ø F int	L
	EDU-RF 80	158	230	60	100	60	210	220
	EDU-RF 150	248	378	60	130	60	358	250
	EDU-RF 200	398	480	60	170	60	460	290
	EDU-RF 230	398	480	60	170	60	460	290
	EDU-RF 250	398	480	60	170	60	460	290
	EDU-RF 300	398	480	60	170	60	460	290

Installation Example	Render
	

EDU-RC - Fitting for Circular Duct

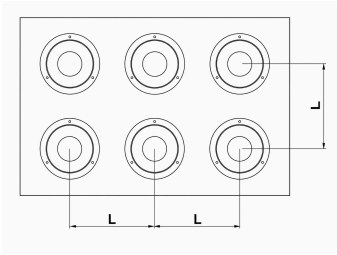
Technical Drawing	Models	L2	Ø D1	Ø D2	Duct	
					min	max
	EDU-RC 80	200	210	230	315	630
	EDU-RC 150	300	358	378	500	800
	EDU-RC 200	350	460	480	500	1000
	EDU-RC 230	350	460	480	500	1000
	EDU-RC 250	350	460	480	500	1000
	EDU-RC 300	350	460	480	500	1000



Swirl Deflector

Description	Photo
The swirl deflector installed at the back of the nozzle diffuser generates a rotary motion that increases induction and reduces the throw of the diffuser by 40% and is particularly suitable for the supply of high air flow rates in medium-sized rooms as it prevents sensitive air currents in the occupied area.	

Assembly in Sets

Technical Drawing	Models	L - Minimum Distance (mm)
	80	300
	150	430
	200	430
	230	550
	250	550
	300	550

Price List

Models	EDU-S - Diffuser with damper	EDU-S - Diffuser prepared for servomotors	Servomotors for EDU-SM				EDU-C - Screw Cover	EDU-SW - Rear Swirl	EDU-RF - Fitting for Flexible Duct	EDU-RC - Fitting for Circular Duct
			ON / OFF		Modulating					
			24V	230V	24V	230V				
	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur
80	147,82	352,71	212,42	224,73	304,78	-	31,63	51,26	32,38	70,99
150	279,28	462,03	309,40	320,17	443,32	507,97	45,91	67,79	54,76	98,36
200	357,64	541,53					57,35	77,96	73,06	134,88
230	373,01	549,35					57,35	77,96	73,06	143,00
250	387,45	556,11								
300	397,43	567,57								