



ERGO extraction arm hanging version

## Application

The ERGO extraction arms are designed for dust and welding fume extraction, as well as for capturing other fine-grained dust particles. The pollutants are captured directly at the emission source, avoiding their expansion within the room and inhaling by people.

The arms are manufactured in a hanging or standing version. The extraction arm can work independently with a single extraction fan or in a group of local exhausts connected to the main collecting ductwork with a central fan.

## Structure

The extraction arm consists of following assemblies:

- swivel,
- hood,
- two pipe segments integrated by frictional joints,
- gas springs to balance the weight of the subsequent segments,
- shut-off damper.

## Operational use

For installing the arm on the wall or column serves a wall bracket, where additionally a suitable fan or connection ferrule can be fastened. Adequately adjusted frictional joints, along with the springs, provide convenient arm manoeuvring and position adjustment. The suction hood can be equipped with a halogen spotlight to light up the work field.

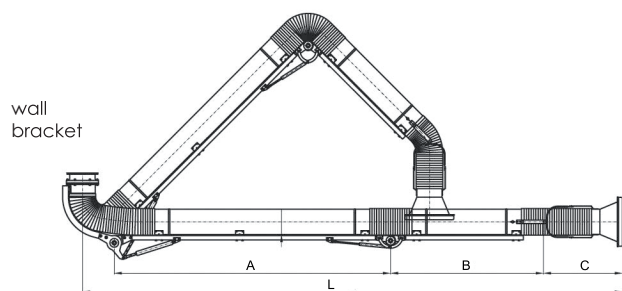
Recommended volume flows for following arm sizes are:

2000 m<sup>3</sup>/h for diameter Dn = 200 mm; 1000 m<sup>3</sup>/h for diameter Dn = 160 mm; 700 m<sup>3</sup>/h for diameter Dn = 125 mm; 350 m<sup>3</sup>/h for diameter Dn = 100 mm

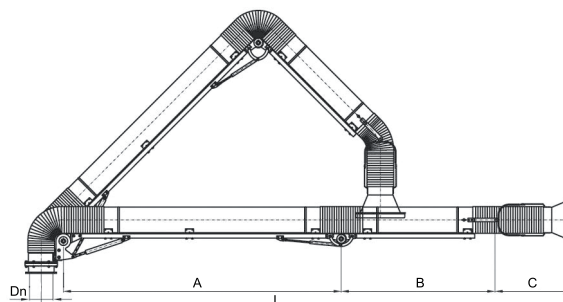




hanging version



standing version



## Technical data

	Type	Part No.	Dimensions					Weight [kg]	
			Dn [mm]	L [m]	A [mm]	B [mm]	C [mm]		
Hanging version	Standard hood	ERGO-M/Z-1,5	811R50	100	1,8	630	470	410	10,1
		ERGO-M/Z-2	811R51		2,2	900	490		10,9
		ERGO-K/Z-2	811R52		2,3	1050	590		12,5
		ERGO-K/Z-3	811R53	125	3,0	1540	850	395	14,0
		ERGO-L/Z-2	811R54		2,3	950	575		16,2
		ERGO-L/Z-3	811R55		3,1	1530	815		18,3
		ERGO-L/Z-4	811R56	160	3,7	1910	1045	535	20,8
		ERGO-D/Z-2	811R57		2,3	645	880		21,0
		ERGO-D/Z-3	811R58		3,2	1530	815		25,4
	ERGO-D/Z-4	811R59	3,7	1910	1045	35,1			
	Hood with halogen spotlight	ERGO-LL/Z-2	811R60	160	2	950	580	535	17,3
		ERGO-LL/Z-3	811R61		3	1530	820		19,6
		ERGO-LL/Z-4	811R62		4	1910	1050		22,3
		ERGO-DL/Z-2	811R63	200	2	950	580	545	22,1
		ERGO-DL/Z-3	811R64		3	1530	820		26,7
ERGO-DL/Z-4		811R65	4		1910	1050	36,6		
Standing version	Standard hood	ERGO-M/Z-1,5-R	811R66	100	1,6	630	470	410	10,5
		ERGO-M/Z-2-R	811R67		2,1	900	590		12,2
		ERGO-K/Z-2-R	811R68		2,2	1050	590		11,8
		ERGO-K/Z-3-R	811R69	125	2,9	1540	850	395	14,2
		ERGO-L/Z-2-R	811R70		2,2	950	575		15,0
		ERGO-L/Z-3-R	811R71		3,0	1530	815		17,1
		ERGO-L/Z-4-R	811R72	160	3,6	1910	1045	535	19,3
		ERGO-D/Z-2-R	811R73		2,2	950	575		18,0
		ERGO-D/Z-3-R	811R74		3,0	1530	815		23,7
	ERGO-D/Z-4-R	811R75	3,7	1910	1045	32,4			
	Hood with halogen spotlight	ERGO-LL/Z-2-R	811R76	160	2	950	580	535	16,1
		ERGO-LL/Z-3-R	811R77		3	1530	820		18,4
		ERGO-LL/Z-4-R	811R78		4	1910	1050		20,8
		ERGO-DL/Z-2-R	811R79	200	2	950	580	545	19,1
		ERGO-DL/Z-3-R	811R80		3	1530	820		25,0
ERGO-DL/Z-4-R		811R81	4		1910	1050	33,9		



### Hoods

Sort of hood	Material	Type	Part No.	d [mm]	D [mm]	L [mm]	Weight [kg]	Equipment
	aluminium	MSO	810H36	100	245	145	0,30	- replaceable inlet grill
		KSO	810H37	125	245	160	0,40	
	aluminium	LSO	810H38	173	336	226,5	0,62	- replaceable inlet grill
		DSO	810H39	216	379	226,5	0,71	
	aluminium	LLO	810H40	173	336	226,5	0,72	- replaceable inlet grill - halogen spotlight 12V - switch
		DLO	810H41	216	379	226,5	0,81	

### Inlet grill for ERGO hoods

	Type	Part No.	Weight [kg]	Sort of hood
	WOD	834Z32	0,15	DSO, DLO
	WOL	834Z33	0,10	LSO, LLO
	WOK	834Z34	0,08	MSO, KSO

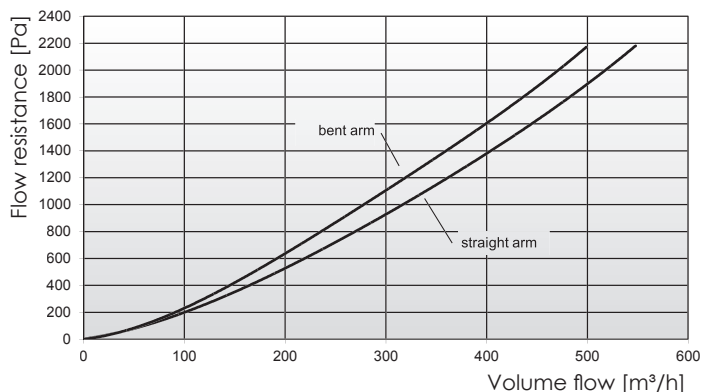
### Wall brackets

Sort of wall bracket	Material	Type	Part No.	S [mm]	Weight [kg]	Adapted for extraction arms
	steel plate	WB-ERGO K/S	817W37	180	4,1	ERGO-M/Z ERGO-K/Z
		WB-ERGO L/S	817W27	277	7	ERGO-L/Z
		WB-ERGO D/S	817W38	277	6,8	ERGO-D/Z

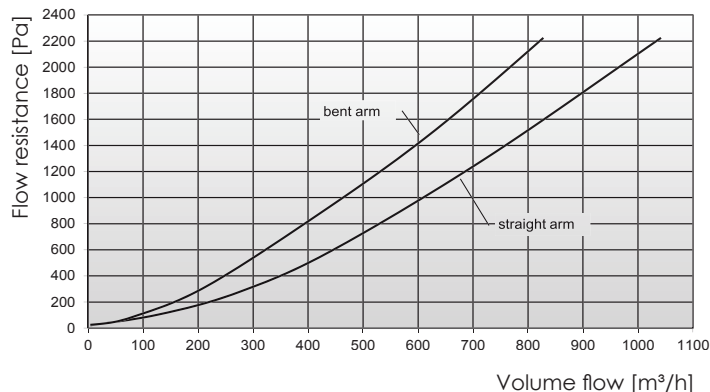


## Flow charts of the ERGO extraction arms

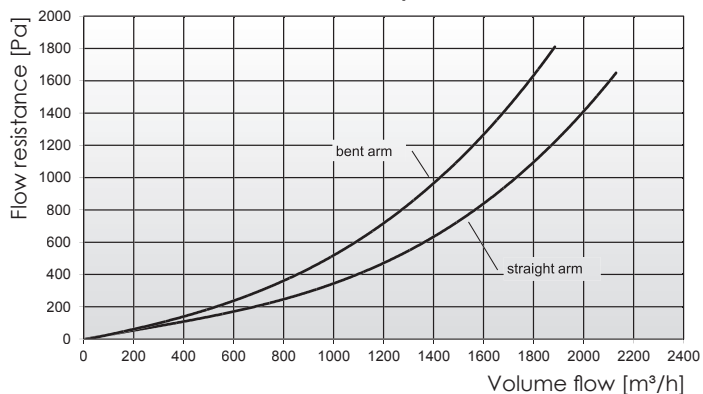
**ERGO-M/Z**



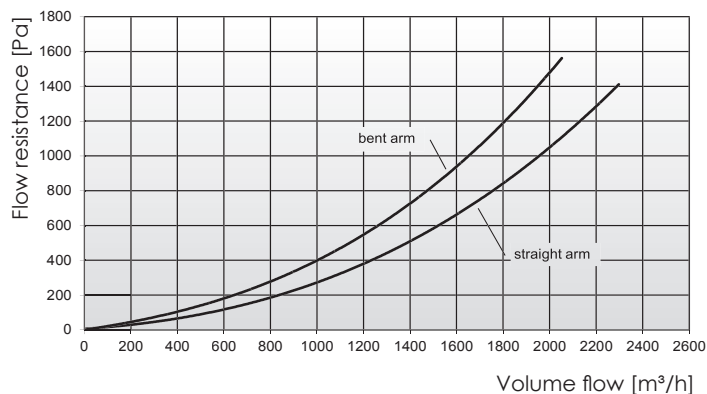
**ERGO-K/Z**



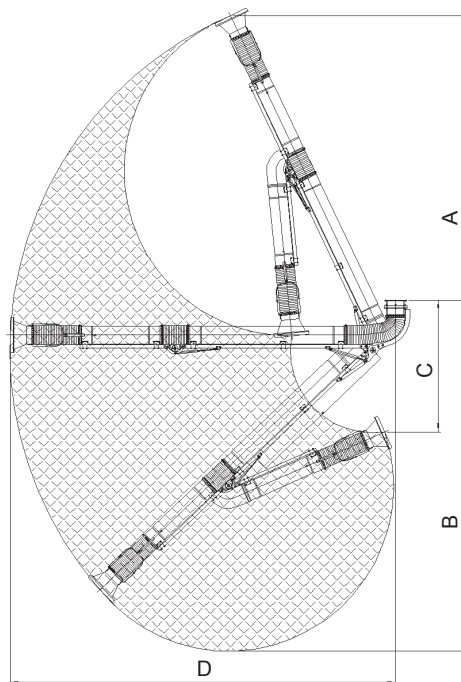
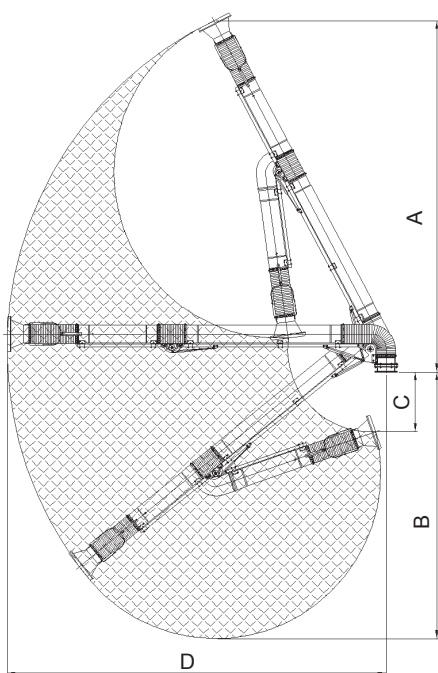
**ERGO-L/Z**



**ERGO-D/Z**



## Work ranges of the ERGO extraction arms



Type	A [mm]	B [mm]	C [mm]	D [mm]
ERGO-L;D-2-R	2110	1487	122	2213
ERGO-L;D-3-R	2835	2092	409	3033
ERGO-L;D-4-R	3374	2561	573	3643

Type	A [mm]	B [mm]	C [mm]	D [mm]
ERGO-L;D-2	1440	1650	800	2280
ERGO-L;D-3	2195	2888	922	3100
ERGO-L;D-4	2732	3372	1266	3710