

APPLICATION

Axial smoke exhaust fans intended for duct installation, made in accordance with the standard EN 12101-3: 2015. In the standard version, the fans have a resistance of 400 °C / 2h.

CONSTRUCTION

- housing manufactured from galvanised sheet steel,
- electrical connection terminal box on the housing,
- impeller made of aluminum with a variable angle of inclination of the blades depending on the model,
- horizontal and vertical fan installation,
- fans designed to work outside the smoke tank,
- correct flow direction impeller -> motor.

MOTOR

- asynchronous, three-phase 400V 50Hz, one-speed 4-pole
- asynchronous, three-phase 400V 50Hz, two-speed 4/8-pole,
- degree of protection IP55,
- insulation class H,
- motors suitable for inverter control or connection to direct power supply.



REFERENCE

ASE - **4/8** / **1250** - **8** / **42** - **3700/700** **T**

1 2 3 4 5 6 7

Type

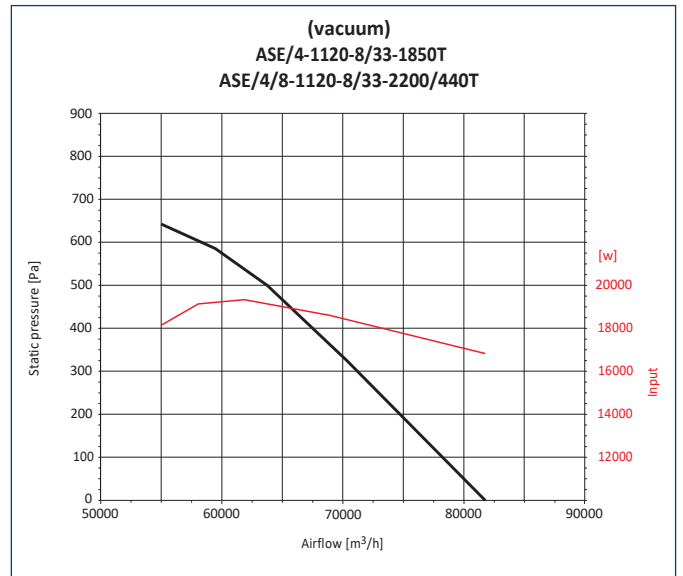
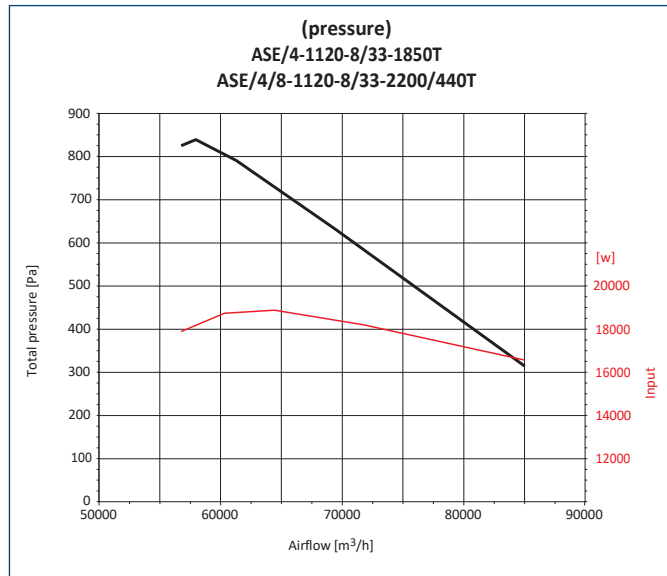
1. Number of poles
2. Diameter [mm]
3. Number of blades
4. Blade pitch angle
5. Motor power*100 [kW] (e.g. 37kW*100=3700)
6. T - three phase 3x400V

TECHNICAL CHARACTERISTICS

Type	airflow max	speed	voltage	current max	maximum absorbed power	sound pressure level*	weight	article number
	[m ³ /h]	[r.p.m]	[V]	[A]	[kW]	[dB(A)]	[kg]	
ONE-SPEED 4-POLE, THREE-PHASE 400V 50Hz								
ASE/4-1120-8/33-1850T	84 500	1 475	400	34,7	18,5	92	455	42513491
ASE/4-1120-8/36-2200T	92 000	1 475	400	41,1	22,0	92	455	42513492
ASE/4-1120-8/39-2200T	97 000	1 475	400	41,1	22,0	93	455	42513493
ASE/4-1120-8/42-3000T	103 000	1 475	400	52,6	30,0	94	610	42513494
ASE/4-1120-8/45-3000T	111 000	1 475	400	52,6	30,0	94	610	42513495
ASE/4-1120-8/48-3700T	117 500	1 480	400	65,4	37,0	95	665	42513496
ASE/4-1120-8/51-3700T	121 500	1 480	400	65,4	37,0	95	665	42513497
ASE/4-1250-8/33-2200T	102 000	1 475	400	41,1	22,0	94	522	42513501
ASE/4-1250-8/36-3000T	110 000	1 480	400	52,6	30,0	94	666	42513502
ASE/4-1250-8/39-3000T	120 000	1 480	400	52,6	30,0	94	666	42513503
ASE/4-1250-8/42-3700T	126 000	1 480	400	65,4	37,0	94	721	42513504
ASE/4-1250-8/45-3700T	133 000	1 480	400	65,4	37,0	95	721	42513505
ASE/4-1250-8/48-4500T	145 000	1 480	400	78,4	45,0	96	766	42513506
TWO-SPEED 4/8-POLE, THREE-PHASE 400V 50Hz								
ASE/4/8-1120-8/33-2200/440T	84 500/42 250	1470/735	400	44/15,9	22,0/4,4	92/83	447	42513891
ASE/4/8-1120-8/36-2200/440T	92 000/46 000	1470/735	400	44/15,9	22,0/4,4	92/83	447	42513892
ASE/4/8-1120-8/39-2200/440T	97 000/48 500	1470/735	400	44/15,9	22,0/4,4	93/84	447	42513893
ASE/4/8-1120-8/42-3000/600T	103 000/51 500	1470/740	400	58/20,6	30,0/6,0	94/85	467	42513894
ASE/4/8-1120-8/45-3000/600T	111 000/55 500	1470/740	400	58/20,6	30,0/6,0	94/85	467	42513895
ASE/4/8-1120-8/48-3700/700T	117 500/58 750	1475/740	400	66,3/21	37,0/7,0	95/86	640	42513896
ASE/4/8-1120-8/51-3700/700T	121 500/60 750	1470/735	400	66,3/21	37,0/7,0	95/86	640	42513897
ASE/4/8-1250-8/33-2200/440T	102 000/51 000	1470/735	400	44/15,9	22,0/4,4	94/85	514	42513901
ASE/4/8-1250-8/36-3000/600T	110 000/55 000	1470/740	400	58/20,6	30,0/6,0	94/85	536	42513902
ASE/4/8-1250-8/39-3000/600T	120 000/60 000	1470/740	400	58/20,6	30,0/6,0	94/85	536	42513903
ASE/4/8-1250-8/42-3700/700T	126 000/63 000	1475/740	400	66,3/21	37,0/7,0	94/85	696	42513904
ASE/4/8-1250-8/45-3700/700T	133 000/66 500	1475/740	400	66,3/21	37,0/7,0	95/86	696	42513905
ASE/4/8-1250-8/48-4100/820T	145 000/72 500	1470/735	400	72/21,5	41,0/8,2	96/87	721	42513906

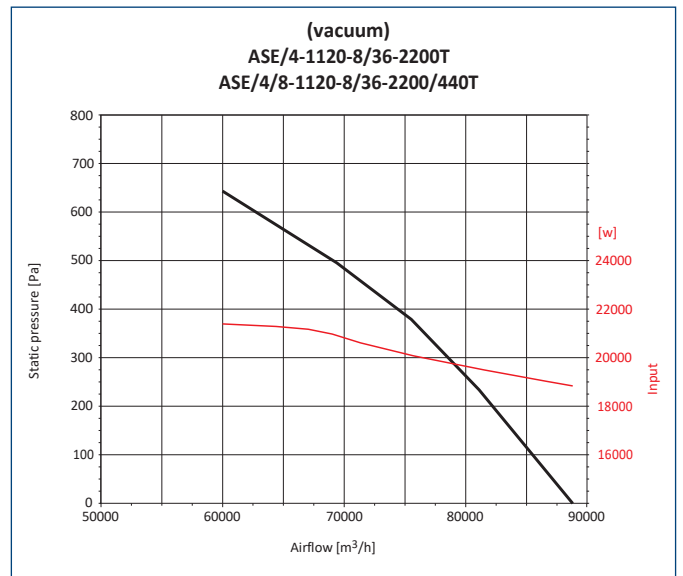
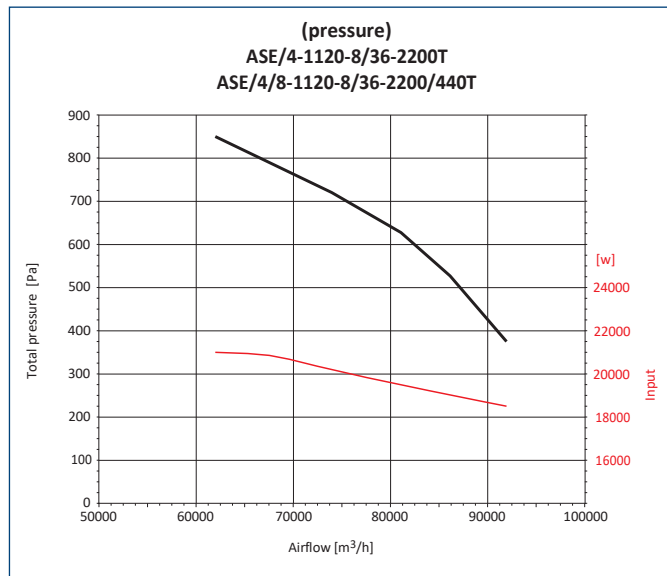
* sound pressure level for $q = 2/3 \cdot q_{max}$

PERFORMANCE CURVES



Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
33-1850T	57000	71	88	97	99	102	97	89	75	105
	68000	69	85	96	99	101	97	88	76	105
	84500	68	85	96	99	100	96	87	74	104

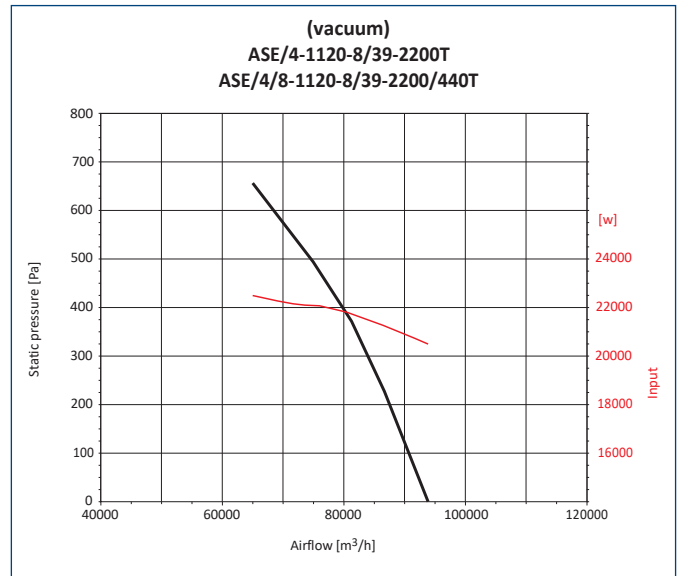
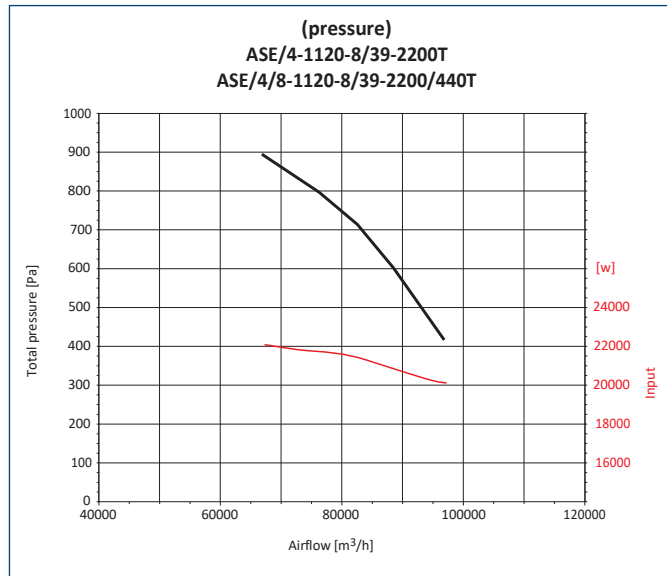
Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
33-2200 /440T	55000	67	85	95	98	100	97	90	78	104
	66000	65	82	94	98	99	97	89	79	104
	82000	64	82	94	98	98	96	88	77	103



Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
36-2200T	56936	71	87	98	101	103	97	90	79	107
	74007	70	86	97	100	102	97	89	78	106
	86000	74	88	94	99	101	96	92	82	105

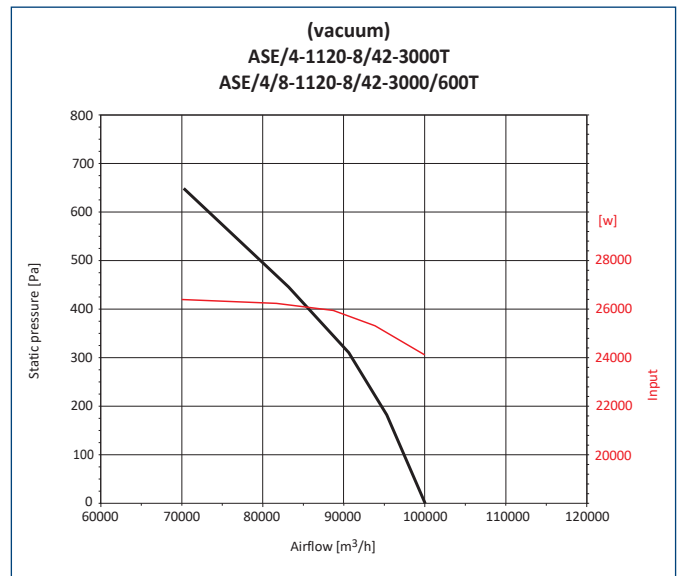
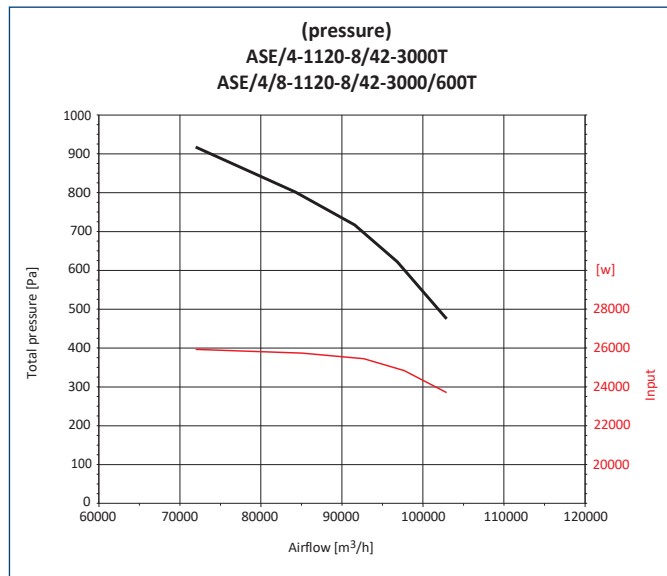
Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
36-2200 /440T	55513	70	85	92	98	99	96	93	85	104
	72157	66	83	95	99	100	97	90	81	104
	84000	70	85	92	98	99	96	93	85	104

PERFORMANCE CURVES



Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
39-2200	67000	80	90	98	100	103	100	95	86	107
	80400	78	89	96	100	102	99	93	83	106
	97000	72	87	95	99	101	99	91	81	105

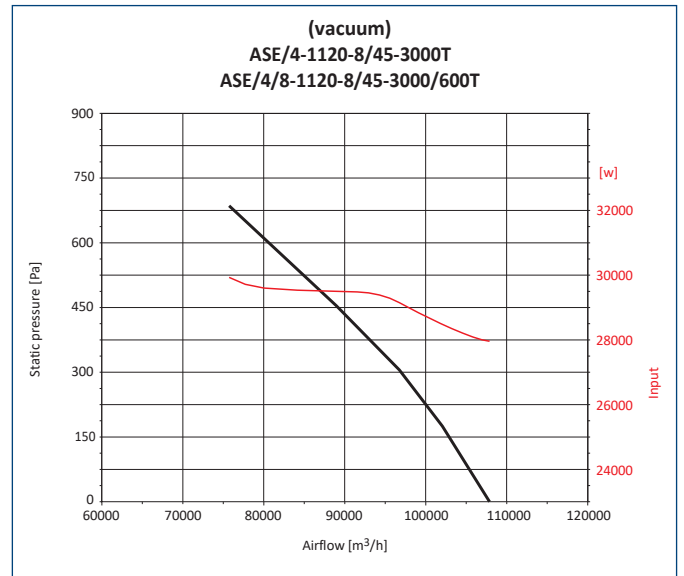
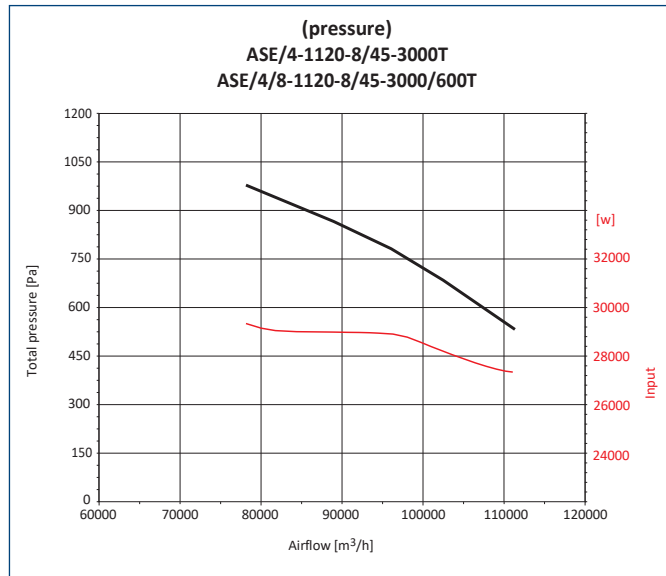
Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
39-2200 /440T	65000	76	87	96	99	101	100	96	89	106
	78000	74	86	94	99	100	99	94	86	105
	94000	68	84	93	98	99	99	92	84	104



Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
42-3000	72100	83	91	97	101	103	99	93	84	107
	81400	80	89	95	101	103	98	92	83	107
	103000	75	90	94	101	102	97	89	79	106

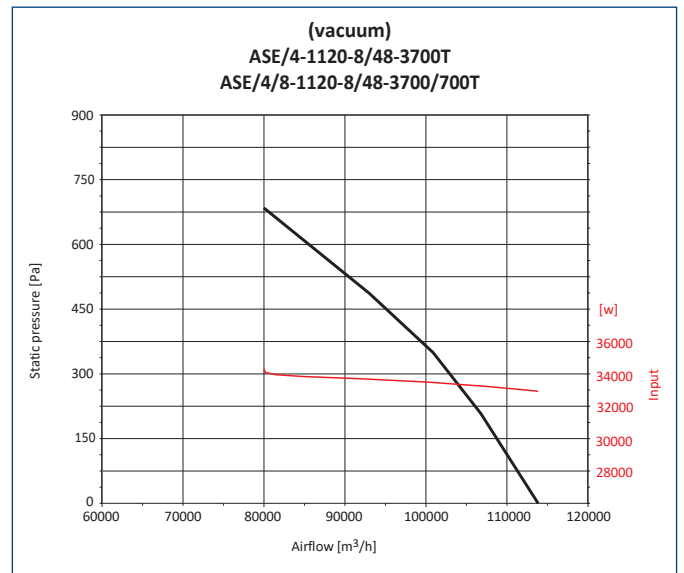
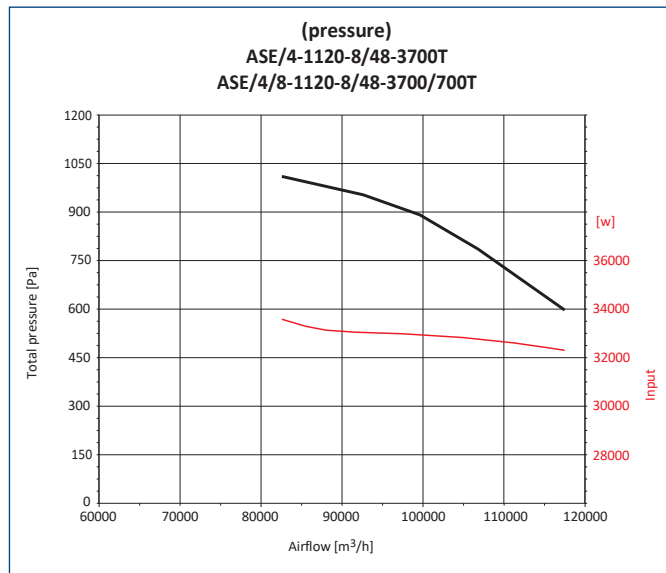
Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
42-3000 /600T	70000	78	88	96	100	101	100	95	88	106
	79000	75	86	94	100	101	99	94	87	106
	100000	70	87	93	100	100	98	91	83	105

PERFORMANCE CURVES



Type	Airflow [m³/h]	Sound expectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
45-3000	78280	83	92	97	103	104	99	94	87	108
	97850	81	90	96	102	104	98	92	85	107
	111250	77	90	95	102	104	98	91	82	107

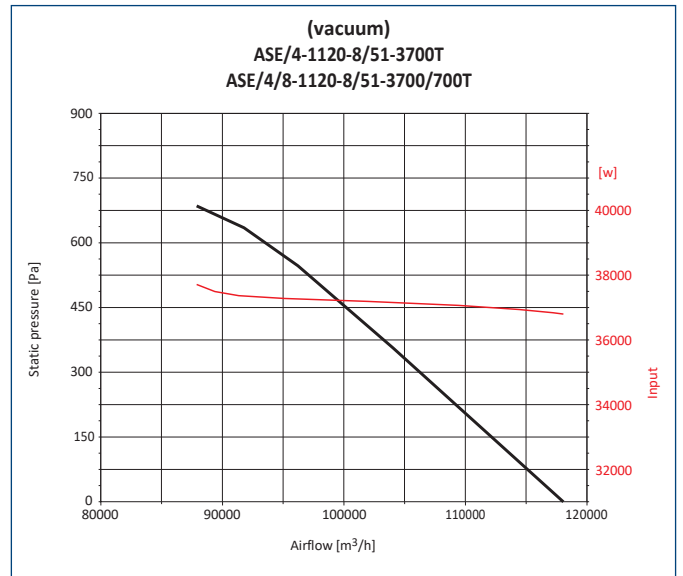
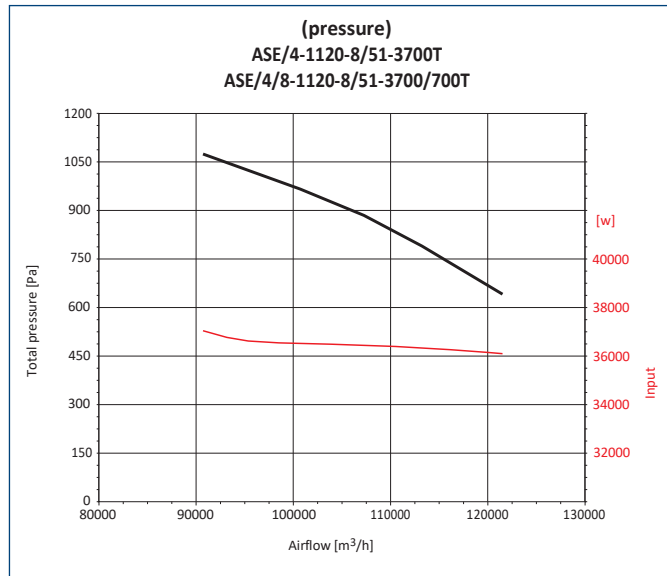
Type	Airflow [m³/h]	Sound expectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
46-3000 /600T	76000	78	89	96	101	102	100	96	90	107
	95000	76	87	95	100	102	99	94	88	106
	108000	72	87	94	100	102	99	93	85	106



Type	Airflow [m³/h]	Sound expectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
48-3700T	82400	84	92	97	102	105	100	94	86	108
	91670	82	91	97	102	104	99	93	85	108
	117500	74	87	95	101	104	98	91	82	107

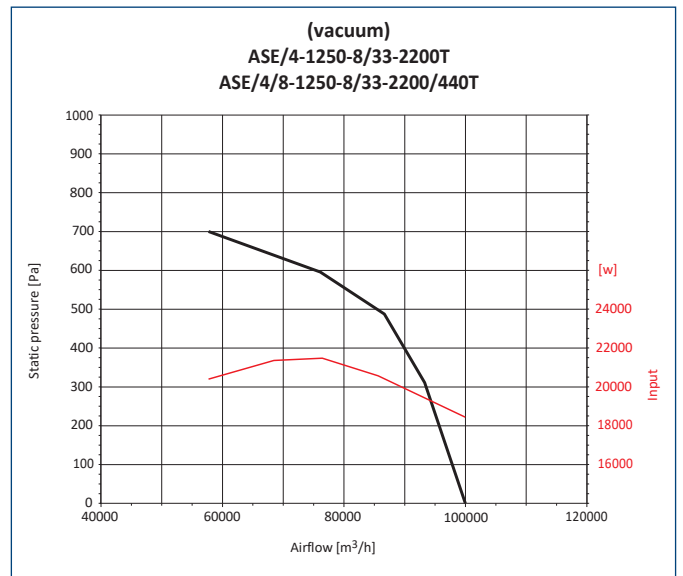
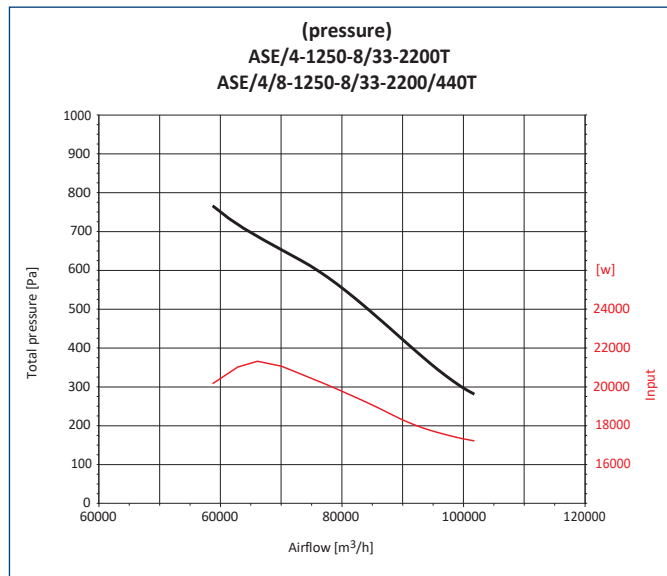
Type	Airflow [m³/h]	Sound expectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
48-3700 /700T	80000	79	89	96	100	103	101	96	89	107
	89000	77	88	96	100	102	100	95	88	106
	114000	69	84	94	99	102	99	93	85	106

PERFORMANCE CURVES



Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
51-3700	90640	85	92	97	103	106	100	94	87	109
	100940	81	91	97	103	105	100	94	86	109
	121500	75	90	95	102	104	98	91	82	107

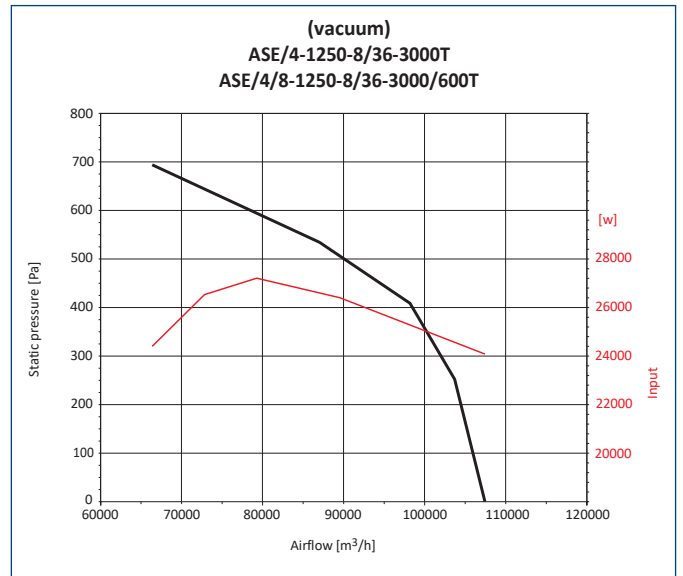
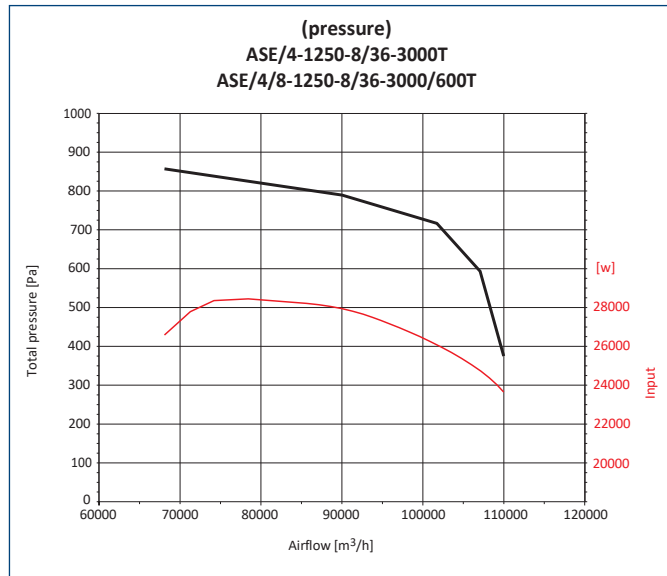
Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
51-3700 /700T	88000	80	89	96	101	104	101	96	90	108
	98000	76	88	96	101	103	101	96	89	107
	118000	70	87	94	100	102	99	93	85	106



Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
33-2200T	59000	76	88	99	101	106	99,5	96	84	109
	76493	74	87	96	100	104	98,5	95	83	107
	102000	71	87	95	99	104	97,5	93	80	106

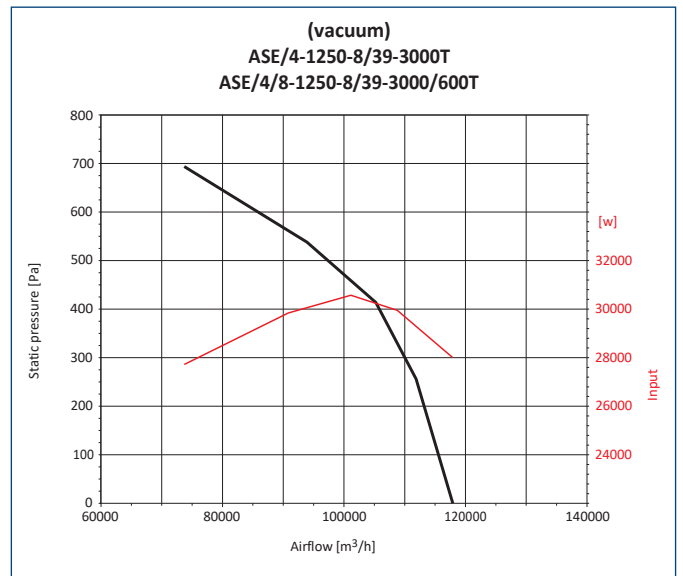
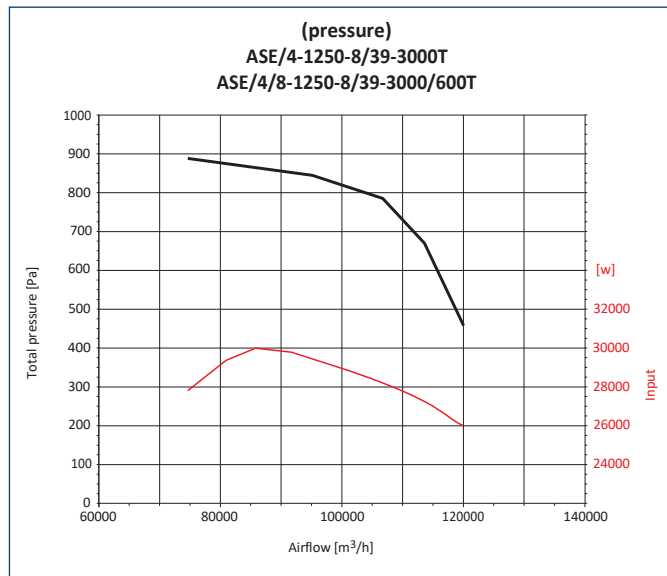
Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
33-2200 /440T	57843	72	85	97	100	104	100	97	87	107
	74993	70	84	94	99	102	99	96	86	106
	100000	67	84	93	98	102	98	94	83	105

PERFORMANCE CURVES



Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
36-3000	68000	79	90	100	101	105	101	95	87	108
	91350	77	90	98	101	104	100	94	85	108
	110000	74	88	94	100	102	100	92	82	106

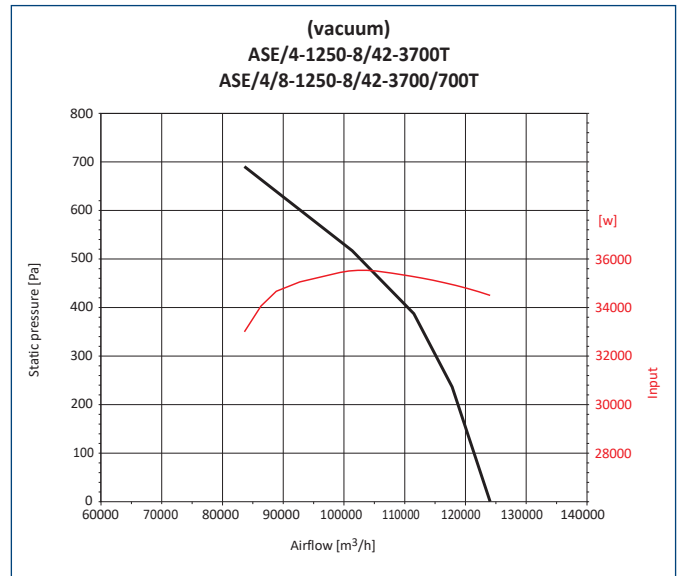
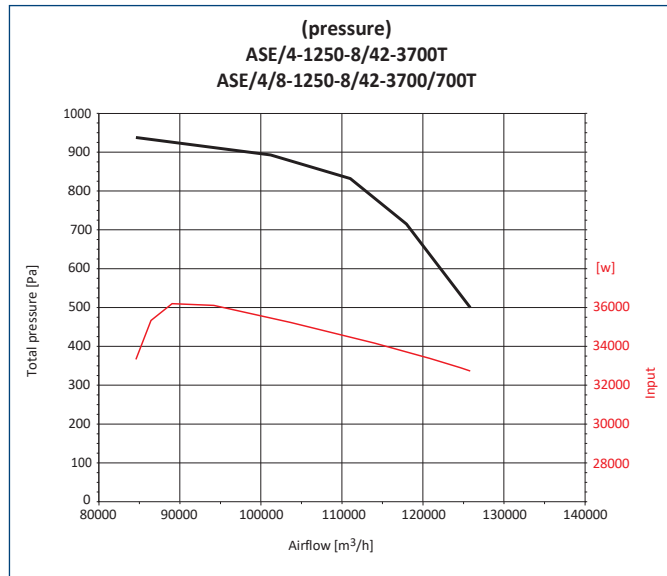
Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
36-3000 /600T	66667	75	87	98	100	103	101	96	90	107
	89559	73	87	96	100	102	100	95	88	106
	107843	70	85	92	99	100	100	93	85	105



Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
39-3000	75085	80	90	98	100	105	101	97	86	108
	100975	79	89	98	102	104	100	95	86	108
	120000	74	88	96	100	102	99	91	81	106

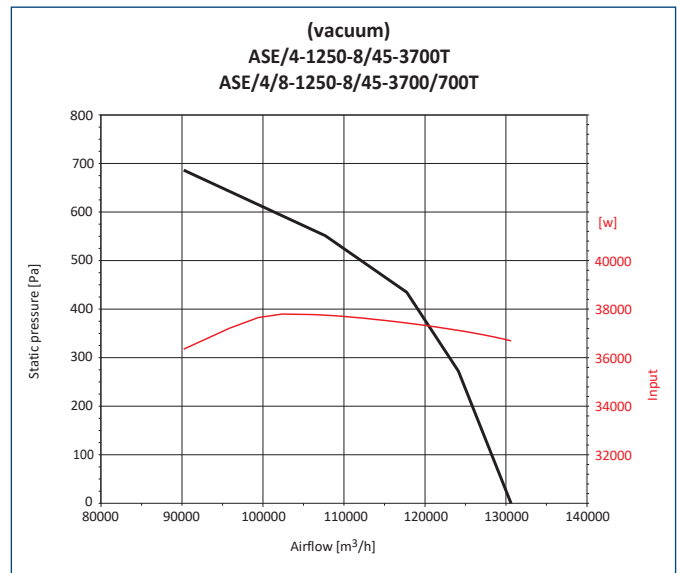
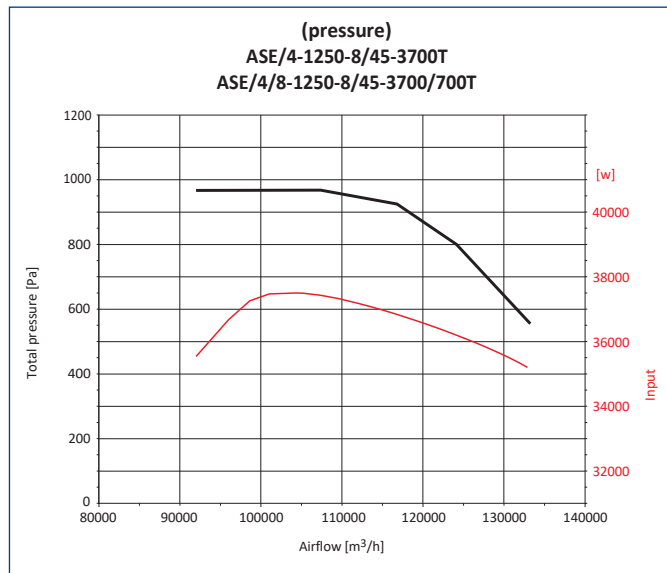
Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
39-3000 /600T	73613	76	87	96	99	103	101	98	89	107
	98995	75	86	96	101	102	100	96	89	107
	117647	70	85	94	99	100	99	92	84	105

PERFORMANCE CURVES



Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
42-3700	85000	83	91	97	103	105	101	96	89	109
	104000	82	91	97	102	105	100	94	86	108
	126000	78	90	94	101	103	98	92	83	106

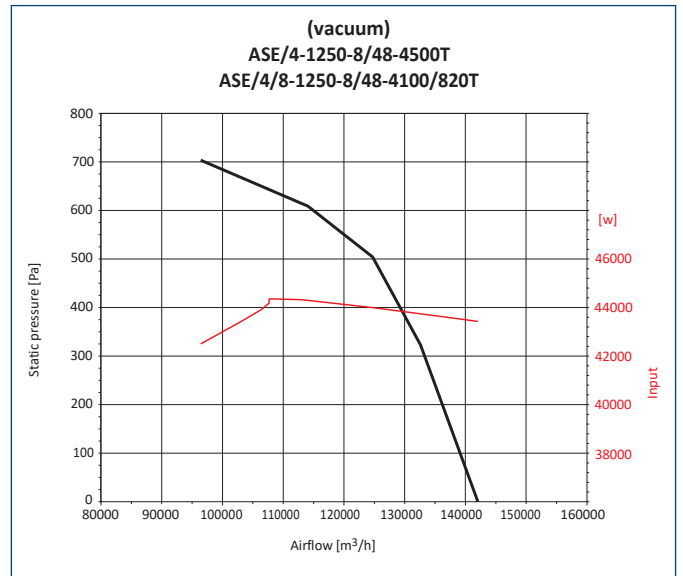
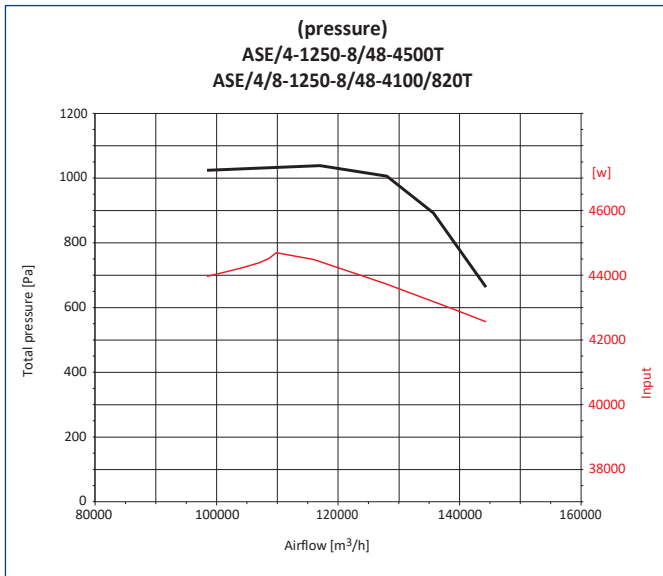
Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
42-3700 /700T	83333	78	88	96	102	103	102	98	93	108
	101961	77	88	96	101	103	101	96	90	107
	123529	73	87	93	100	101	99	94	87	106



Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
45-3700	92000	83	92	99	104	106	101	97	88	110
	108190	82	92	98	104	105	101	96	88	109
	133000	77	90	96	103	104	100	93	86	108

Type	Airflow [m³/h]	Sound spectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
45-3700 /700T	90196	78	89	98	102	104	102	99	91	109
	106069	77	89	97	102	103	102	98	91	108
	130392	72	87	95	101	102	101	95	89	107

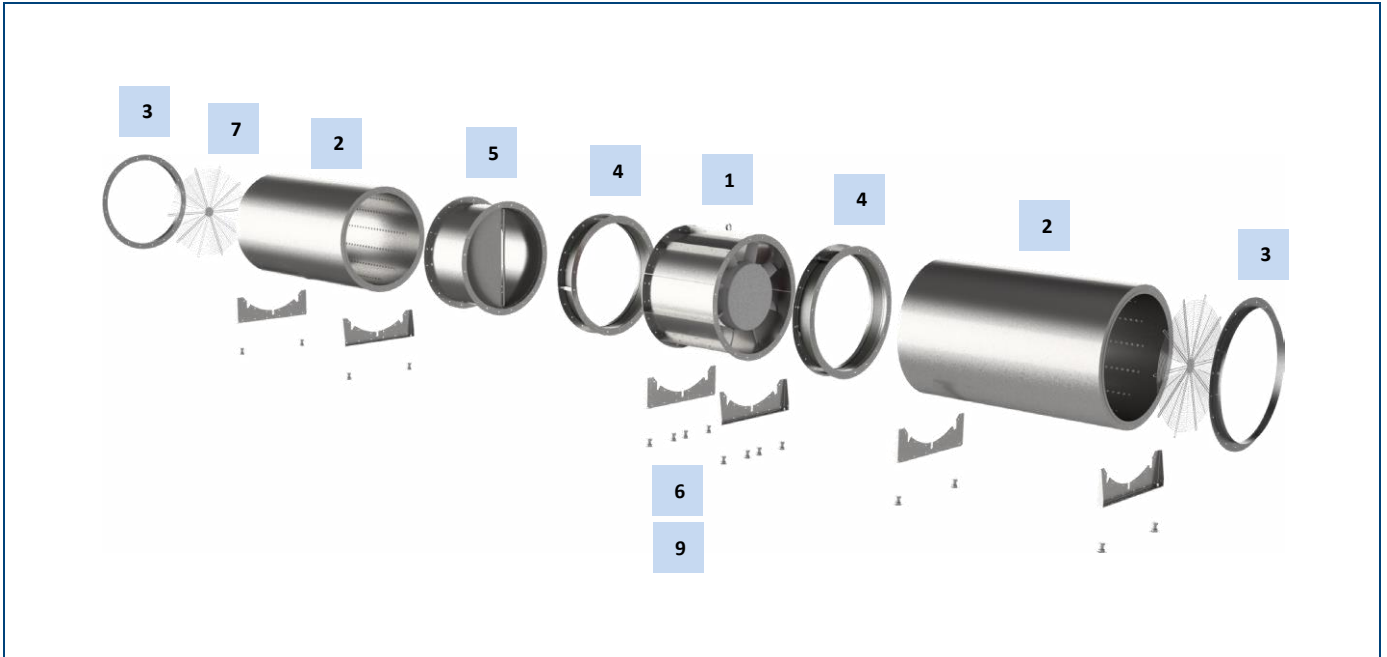
PERFORMANCE CURVES



Type	Airflow [m³/h]	Sound expectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
48-4500	98600	84	94	99	105	107	102	97	89	111
	110000	82	93	99	104	106	102	97	89	110
	145000	77	93	97	104	105	101	94	87	109

Type	Airflow [m³/h]	Sound expectrum level [Hz] / dB(A)								
		63	125	250	500	1000	2000	4000	8000	L _{WA}
48-4100 /820T	96667	79	91	98	103	105	103	99	92	109
	107843	77	90	98	102	104	103	99	92	109
	142157	72	90	96	102	103	102	96	90	108

Additional Equipment:

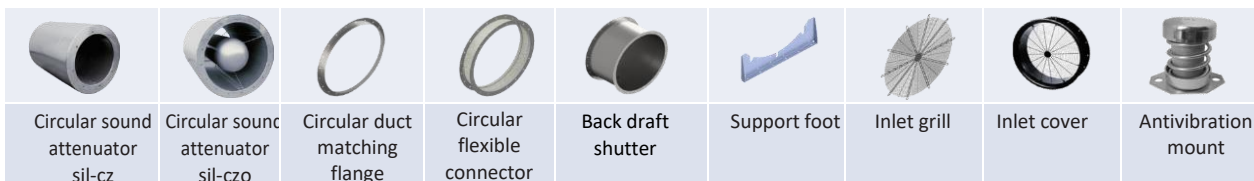


1	2		3	4	5	6
Fan	Circular sound attenuator		Circular duct matching flange	Circular flexible connector	Back draft shutter	Support foot
	SIL-CZ	SIL-CZO				
1120	SIL-CZ 1120-1120	SIL-CZO 1120-1120	flange Ø1120	FLEX. CON.Ø1120	KZ Ø1120	SUPPORT FOOT Ø1120
1250	SIL-CZ 1250-1250	SIL-CZO 1250-1250	flange Ø1250	FLEX. CON.Ø1250	KZ Ø1250	SUPPORT FOOT Ø1250

1	7	8	9
Fan	Inlet grille	Inlet cover	Antivibration mount
1120	INLET GRILLE Ø1120	INLET COVER Ø1120	ACCORDING TO THE ACCESSORIES CARD
1250	INLET GRILLE Ø1250	INLET COVER Ø1250	ACCORDING TO THE ACCESSORIES CARD

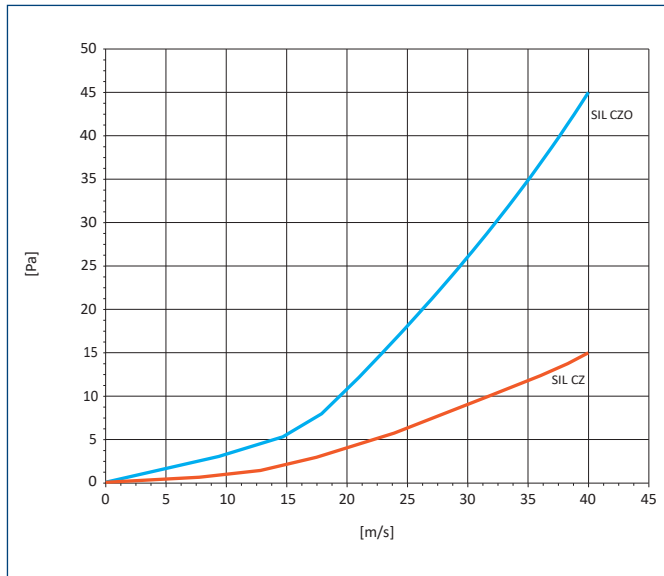
Article numbers:

SIL-CZ 1120-1120	42519000-62	SIL-CZ 1250-1250	42519000-58	SIL-CZO 1120-1120	42519000-65	SIL-CZO 1250-1250	42519000-28	FLANGE Ø1120	42517226
FLANGE Ø1250	42517236	FLEX. CON.Ø1120	42519626	FLEX. CON.Ø1250	42519636	KZ Ø1120	42516566	KZ Ø1250	42516576
SUPPORT FOOT Ø1120	42516237	SUPPORT FOOT Ø1250	42516247	INLET GRILLE Ø1120	40522314-10	INLET GRILLE Ø1250	40522314-09	INLET COVER Ø1120	40522314-10
INLET COVER Ø1250	40522314-09	AM-25M	41021390	AM-50M	41021391	AM-75M	41021392	AM-100M	41021393
AM-125M	41021394	AM-150M	41021395	AM-250M	41021397				



Pressure drops on accessories

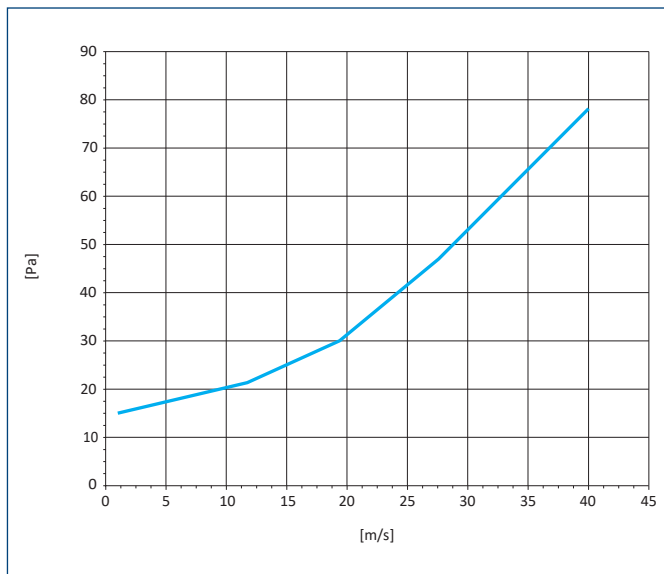
Circular sound attenuator



SIL CZ	
[m/s]	[Pa]
0	0
5	0,5
10	1,5
20	4
30	9
40	15

SIL CZO	
[m/s]	[Pa]
0	0
5	2
10	4
20	11
30	26
40	45

Back draft shutter

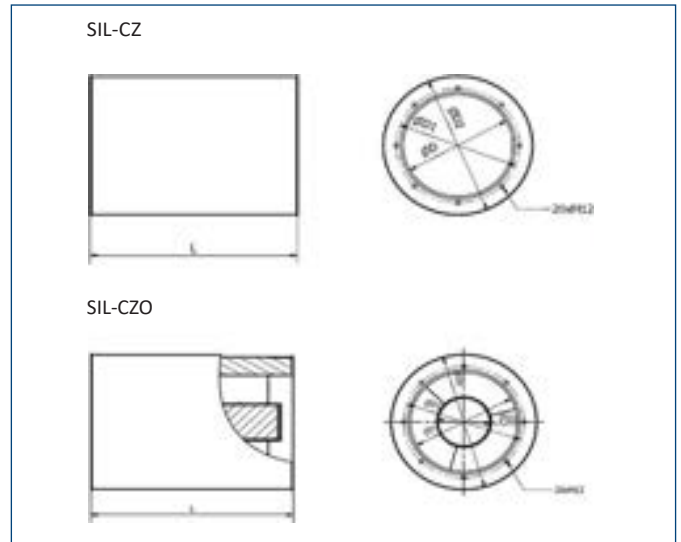


KZ	
[m/s]	[Pa]
1	15
10	23
20	37
30	55
40	78

Circular sound attenuator SIL-CZ i SIL CZO



The silencer is made of galvanized steel sheet, terminated with flanges with rivet nuts. Insulation thickness 50mm.

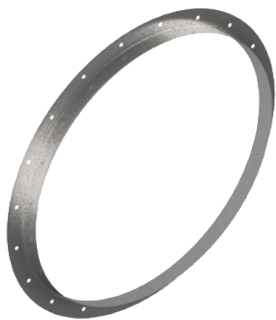


Type	ØD	ØD1	ØD2	ØD3	L	weight [kg]
1120	1120	1190	1250	-	1120	94
1250	1250	1320	1500	-	1250	105

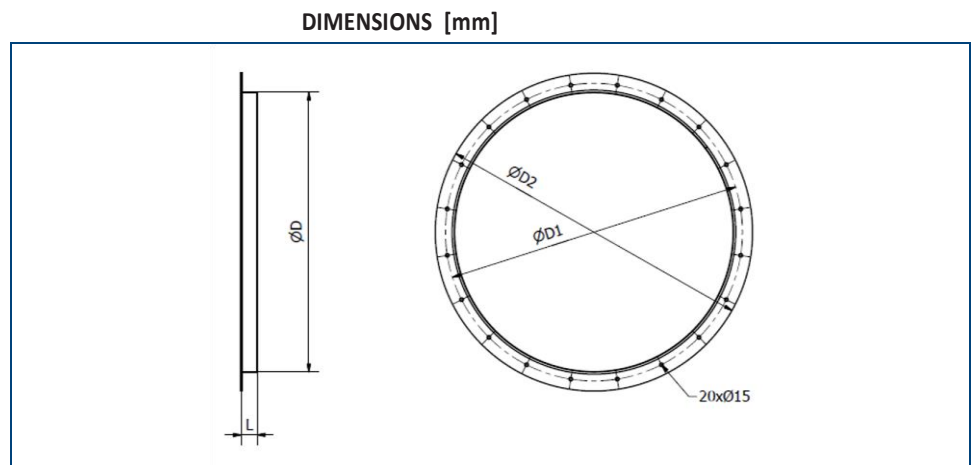
Hz/dB(A)	125	125	250	500	1000	2000	4000	8000
SIL-CZ 1120 - 1120	3	6	9	12	11	11	9	7
SIL-CZO 1250 - 1250	2	5	9	11	10	10	8	6

Hz/dB(A)	125	125	250	500	1000	2000	4000	8000
SIL-CZ 1120 - 1120	5	6	14	21	22	16	12	8
SIL-CZO 1250 - 1250	4	5	13	20	21	15	11	8

Circular duct matching flange



The flange is made of galvanized steel sheet.



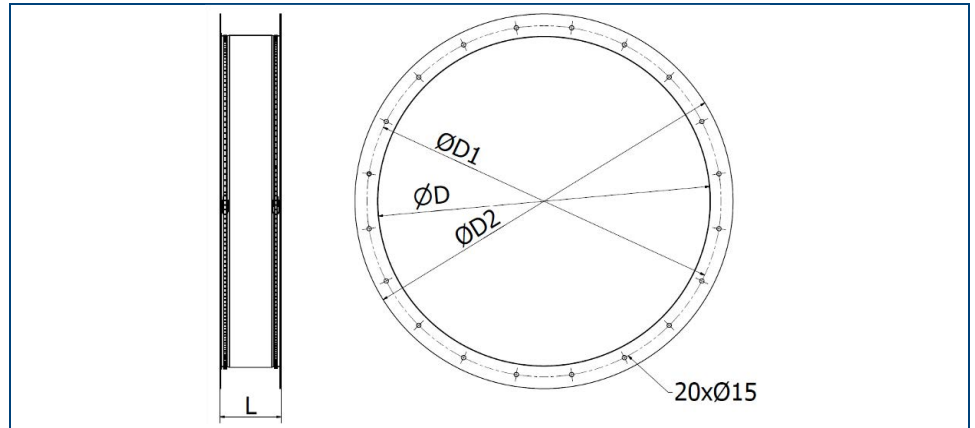
Type	ØD	ØD1	ØD2	L	weight[kg]
1120	1118	1190	1270	65	9,5
1250	1248	1320	1400	65	11

Circular flexible connector



The flange is made of galvanized steel sheet. Compensator made of fire-resistant material, clamped on connectors with steel clamps.

DIMENSIONS [mm]



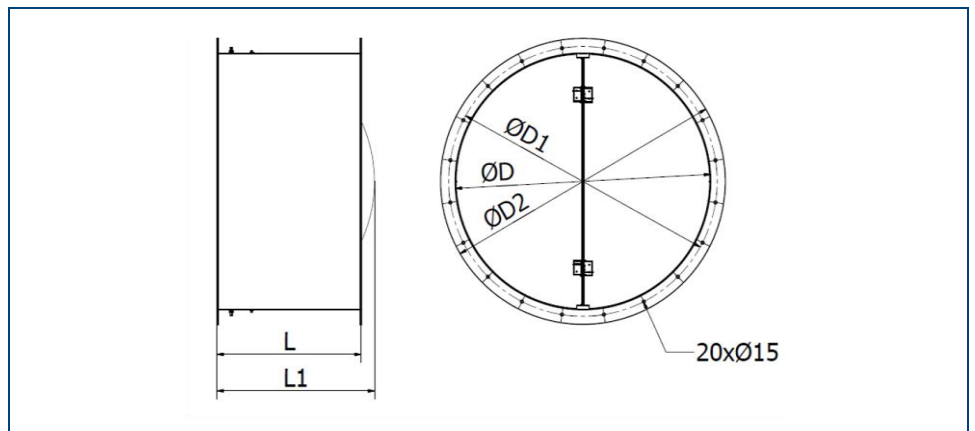
Type	ØD	ØD1	ØD2	L	weight [kg]
1120	1118	1190	1270	206	20
1250	1248	1320	1400	206	22

Back draft shutter



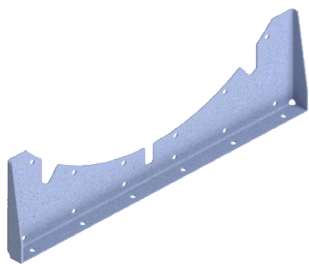
The back draft shutter is made of galvanized steel sheet.

DIMENSIONS [mm]



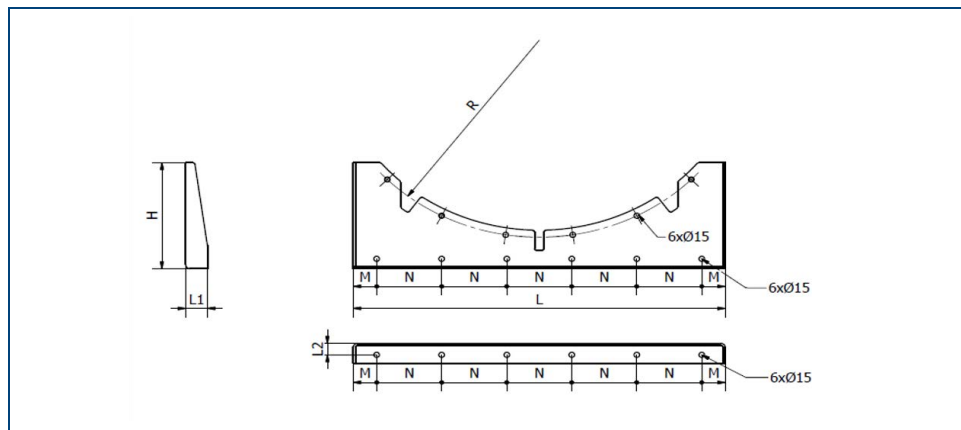
Type	ØD	ØD1	ØD2	L	L1	weight [kg]
1120	1118	1190	1270	633	680	40
1250	1248	1320	1400	708	755	45

Support feet



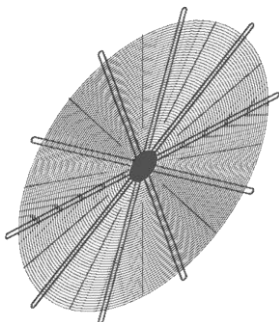
The support feet are made of galvanized steel sheet.

DIMENSIONS [mm]



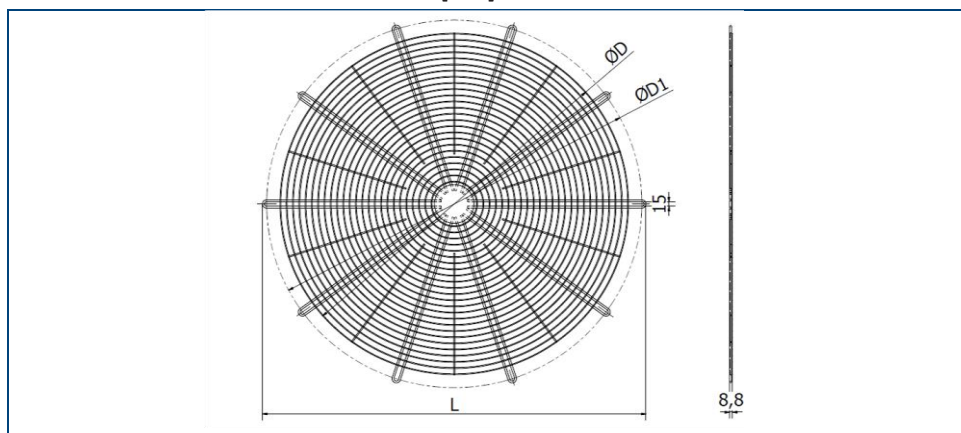
Type	H	L	L1	L2	M	N	R	Weight [kg]
1120	320	1030	60	35	65	180	595	12,8
1250	350	1130	60	35	65	200	660	14,5

Inlet grill



Galvanized inlet grille.

DIMENSIONS [mm]

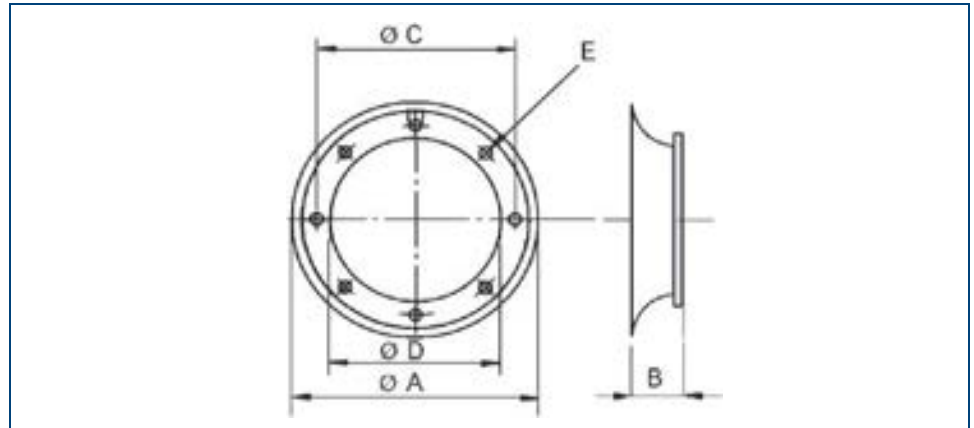


Type	$\text{Ø}D$	$\text{Ø}D1$	L	weight [kg]
1120	1122	1192	1219	8
1250	1262	1322	1349	9,5

Inlet cover



DIMENSIONS [mm]



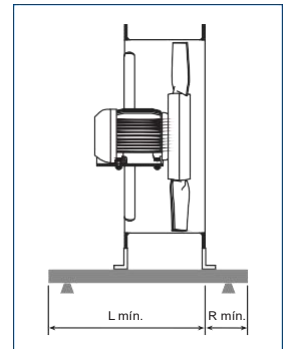
Type	Ø A	B	Ø C	Ø D	E	weight [kg]
EMB-1120T	1234	250	1190	1120	20x15	12,8
EMB-1250T	1364	250	1320	1250	20x15	14,5

Antivibration mount

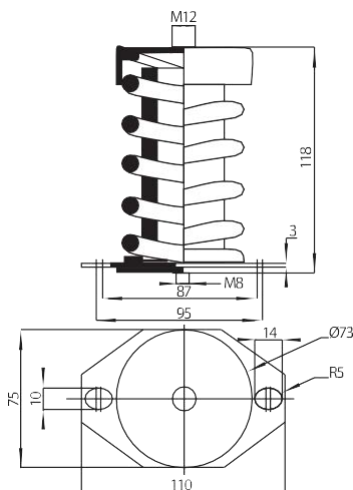


Type	max load [kg]
AM-150M	150 kg / each
AM-200M	200 kg / each
AM-250M	250 kg / each
AM-350M	350 kg / each
AM-450M	450 kg / each
AM-550M	550 kg / each

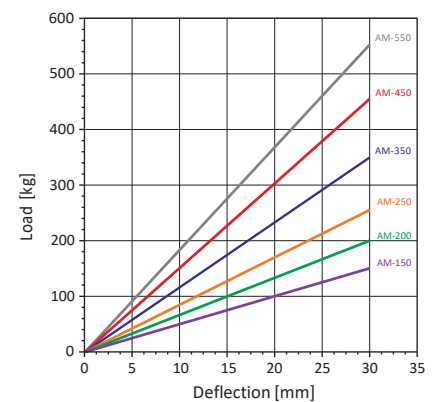
Type	L min.	R min.	L min. + R min.
400	375	50	425
450	400	60	460
500	400	70	470
560	500	90	590
630	600	100	700
710	600	130	730
800	600	150	750
900	700	150	850
1000	825	150	975
1250	975	150	1125



Metal bases with open holes for mounting and centering in the ground.



Deflection in models from AM-150M to 550M



A simple choice. Determine the total mass of the fans with accessories and divide by 4. Select AVM to adapt to the load or according to any recommended static deflection. Example: ASE-4-125 with accessories weighs 590 kg. $590/4 = 147.5$ kg.

Choose the AM 150 with a 30mm deflection.