

## AAVG/N



### HIGH PRESSURE WITH BACKWARD IMPELLER

#### MANUFACTURING FEATURES:

- Fan made of Fe360 sheet. The fan paint finish is based on a Qualicoat polyester powder coating stoved at 200°C, with an average film thickness of 70 microns. Average heat resistance of coating is 180°C with peaks of 200°C.
- Fully welded housing.
- High efficiency simple inlet backward curved impeller made of Fe360 sheet statically and dynamically balanced. Impellers are painted with epoxy primer that resists temperatures up to 300°C.
- Standard asynchronous squirrel-cage motor with IP-55 protection and class F insulation. Manufactured with standard voltages: 230/400V 50Hz in three phase motors up to 4kW and 400/690V 50Hz for higher powers.
- Standard orientation LG270.
- It allows adjusting the orientation locally from models 450 to 630. Models sizes from 710 to 1000 size the orientation is fixed.

### Accessories



#### APPLICATIONS:

Designed for inline installation, they are suitable for:

- Industrial applications, extraction or injection of air.
- Cooling of machines and parts.
- Clean and slightly dusty air transport.
- Exhaust after filters, separators and cyclones.
- Pneumatic transport.
- Maximum working temperature: carried air: 130°C, ambient 60°C.

#### UNDER REQUEST:

- 60Hz fans and special voltages.
- 2 speed motors.
- Spark-proof fans with ATEX certified motor.
- Fan for air working temperatures up to 250°C with R/R (cooling impeller).
- Hot-dipped galvanised or stainless steel fans.
- Orientation: RD0, RD45, RD90, RD135, RD180, RD225, RD270, RD315, LG0, LG45, LG90, LG135, LG180, LG225, LG315.

## Technical data

### Three-phase motor / 2 poles

Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
502704527	AAVG/N 450 T2 2,2kW	2800	4,58	2,20	1.620	73	65	1
507205032	AAVG/N 501 T2 4kW	2890	7,63	4	2.520	74	93	1
502705636	AAVG/N 561 T2 7,5kW	2900	14,1	7,50	3.960	78	135	1
502706321	AAVG/N 631 T2 11kW	2930	20,8	11	3.600	81	196	1
502706324	AAVG/N 632 T2 15kW	2930	27,4	15	5.400	81	198	1
502707128	AAVG/N 711 T2 22kW	2940	39,8	22	6.120	83	272	1
502707130	AAVG/N 712 T2 30kW	2950	56,6	30	7.920	84	388	1
502708031	AAVG/N 801 T2 37kW	2955	66,7	37	7.920	88	440	1
502708033	AAVG/N 802 T2 45kW	2960	78	45	10.800	88	484	1
502709035	AAVG/N 901 T2 55kW	2965	95	55	7.920	91	808	1
502709037	AAVG/N 902 T2 75kW	2965	130	75	12.600	92	840	1
502710022	AAVG/N 1001 T2 110kW	2975	188	110	14.400	95	1.085	1
502710023	AAVG/N 1002 T2 132kW	2980	223	132	19.800	95	1.112	1
507205029	AAVG/NR 501 T2 3kW	2870	5,92	3	2.160	74	87	1
507205634	AAVG/NR 561 T2 5,5kW	2900	10,6	5,50	2.880	77	127	1
507206321	AAVG/NR 632 T2 11kW	2930	20,8	11	4.680	80	193	1
507207126	AAVG/NR 711 T2 18,5kW	2935	34,4	18,50	6.120	83	246	1
507207128	AAVG/NR 712 T2 22kW	2940	39,8	22	7.200	83	368	1
507208030	AAVG/NR 801 T2 30kW	2950	56,6	30	7.200	87	424	1
507208031	AAVG/NR 802 T2 37kW	2955	66,7	37	10.080	88	435	1
507209033	AAVG/NR 901 T2 45kW	2960	78	45	7.920	90	701	1
507209035	AAVG/NR 902 T2 55kW	2965	95	55	10.800	91	802	1
507209038	AAVG/NR 1001 T2 90kW	2970	156	90	12.600	94	920	1
507210022	AAVG/NR 1002 T2 110kW	2975	188	110	18.000	94	1.078	1

**Notes:**

\* Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source



Model	A	B	C	D	D1	D2	D3	D4	D5
AAVG/NR 902 T2 55kW	119	1068	1315	600	762	696	715	668	628
AAVG/NR 1001 T2 90kW	137	1095	1460	670	849	805	790	765	691
AAVG/NR 1002 T2 110kW	137	1307	1460	670	849	805	790	765	691

Model	D6	D7	E	F	G	H	H1	H2	I
AAVG/N 450 T2 2,2kW	319	490	712	285	56	400	300	400	133
AAVG/N 501 T2 4kW	350	546	794	318	63	450	335	450	197
AAVG/N 561 T2 7,5kW	392	613	893	360	71	500	375	500	237
AAVG/N 631 T2 11kW	438	688	1001	406	79	560	425	560	337
AAVG/N 632 T2 15kW	438	688	1001	406	79	560	425	560	337
AAVG/N 711 T2 22kW	489	767	1124	454	88	630	475	630	357
AAVG/N 712 T2 30kW	489	767	1124	454	88	630	475	630	381
AAVG/N 801 T2 37kW	545	854	1265	513	99	710	530	710	381
AAVG/N 802 T2 45kW	545	854	1265	513	99	710	530	710	421
AAVG/N 901 T2 55kW	617	963	1428	578	109	800	600	800	501
AAVG/N 902 T2 75kW	617	963	1428	578	109	800	600	800	591
AAVG/N 1001 T2 110kW	640	1074	1591	648	120	900	670	900	675
AAVG/N 1002 T2 132kW	640	1074	1591	648	120	900	670	900	675
AAVG/NR 501 T2 3kW	350	546	794	318	63	450	335	450	197
AAVG/NR 561 T2 5,5kW	392	613	893	360	71	500	375	500	237
AAVG/NR 632 T2 11kW	438	688	1001	406	79	560	425	560	337
AAVG/NR 711 T2 18,5kW	489	767	1124	454	88	630	475	630	337
AAVG/NR 712 T2 22kW	489	767	1124	454	88	630	475	630	357
AAVG/NR 801 T2 30kW	545	854	1265	513	99	710	530	710	381
AAVG/NR 802 T2 37kW	545	854	1265	513	99	710	530	710	381
AAVG/NR 901 T2 45kW	617	963	1428	578	109	800	600	800	421
AAVG/NR 902 T2 55kW	617	963	1428	578	109	800	600	800	501
AAVG/NR 1001 T2 90kW	640	1074	1591	648	120	900	670	900	591
AAVG/NR 1002 T2 110kW	640	1074	1591	648	120	900	670	900	675

Model	L	M	N	N1 x Ø1	N2 x Ø2	O	O6	P	S
AAVG/N 450 T2 2,2kW	58	246	55	8 x 8	6 x 12	234	190	260	375
AAVG/N 501 T2 4kW	49	276	30	8 x 8	6 x 12	289	211	324	410
AAVG/N 561 T2 7,5kW	59	336	40	8 x 10	6 x 12	337	238	372	460
AAVG/N 631 T2 11kW	49	436	50	8 x 12	8 x 12	395	263	440	515
AAVG/N 632 T2 15kW	49	436	50	8 x 12	8 x 12	395	263	440	515
AAVG/N 711 T2 22kW	33	460	70	8 x 12	8 x 12	434	292	488	570
AAVG/N 712 T2 30kW	39	500	80	8 x 12	8 x 12	506	292	568	570
AAVG/N 801 T2 37kW	39	500	80	8 x 12	10 x 12	506	324	568	640
AAVG/N 802 T2 45kW	39	540	80	8 x 12	10 x 12	556	324	616	640

Model	L	M	N	N1 x Ø1	N2 x Ø2	O	O6	P	S
AAVG/N 901 T2 55kW	39	600	60	12 x 12	10 x 12	604	363	690	715
AAVG/N 902 T2 75kW	46	697	60	12 x 12	10 x 12	690	363	750	715
AAVG/N 1001 T2 110kW	45	800	80	12 x 12	10 x 12	760	404	865	790
AAVG/N 1002 T2 132kW	45	800	80	12 x 12	10 x 12	760	404	865	790
AAVG/NR 501 T2 3kW	49	276	30	8 x 8	6 x 12	289	211	324	410
AAVG/NR 561 T2 5,5kW	59	336	40	8 x 10	6 x 12	337	238	372	460
AAVG/NR 632 T2 11kW	49	436	50	8 x 12	8 x 12	395	263	440	515
AAVG/NR 711 T2 18,5kW	49	436	50	8 x 12	8 x 12	395	292	440	570
AAVG/NR 712 T2 22kW	33	460	70	8 x 12	8 x 12	434	292	488	570
AAVG/NR 801 T2 30kW	39	500	80	8 x 12	10 x 12	506	324	568	640
AAVG/NR 802 T2 37kW	39	500	80	8 x 12	10 x 12	506	324	568	640
AAVG/NR 901 T2 45kW	39	540	80	12 x 12	10 x 12	556	363	616	715
AAVG/NR 902 T2 55kW	39	600	60	12 x 12	10 x 12	604	363	690	715
AAVG/NR 1001 T2 90kW	46	697	60	12 x 12	10 x 12	690	404	750	790
AAVG/NR 1002 T2 110kW	45	800	80	12 x 12	10 x 12	760	404	865	790

Model	S1	S2	S3	S4	S5	S6	S7	X	X1
AAVG/N 450 T2 2,2kW	312	319	300	490	393	350	335	312	300
AAVG/N 501 T2 4kW	344	350	335	546	436	386	370	344	335
AAVG/N 561 T2 7,5kW	393	392	375	613	488	438	418	393	375
AAVG/N 631 T2 11kW	441	438	425	688	545	493	472	441	425
AAVG/N 632 T2 15kW	441	438	425	688	545	493	472	441	425
AAVG/N 711 T2 22kW	494	489	475	767	605	547	522	494	475
AAVG/N 712 T2 30kW	494	489	475	767	605	547	522	494	475
AAVG/N 801 T2 37kW	555	545	530	854	677	622	592	555	530
AAVG/N 802 T2 45kW	555	545	530	854	677	622	592	555	530
AAVG/N 901 T2 55kW	628	617	600	963	762	696	668	628	600
AAVG/N 902 T2 75kW	628	617	600	963	762	696	668	628	600
AAVG/N 1001 T2 110kW	691	640	670	1074	849	805	765	691	670
AAVG/N 1002 T2 132kW	691	640	670	1074	849	805	765	691	670
AAVG/NR 501 T2 3kW	344	350	335	546	436	386	370	344	335
AAVG/NR 561 T2 5,5kW	393	392	375	613	488	438	418	393	375
AAVG/NR 632 T2 11kW	441	438	425	688	545	493	472	441	425
AAVG/NR 711 T2 18,5kW	494	489	475	767	605	547	522	494	475
AAVG/NR 712 T2 22kW	494	489	475	767	605	547	522	494	475
AAVG/NR 801 T2 30kW	555	545	530	854	677	622	592	555	530
AAVG/NR 802 T2 37kW	555	545	530	854	677	622	592	555	530
AAVG/NR 901 T2 45kW	628	617	600	963	762	696	668	628	600
AAVG/NR 902 T2 55kW	628	617	600	963	762	696	668	628	600
AAVG/NR 1001 T2 90kW	691	640	670	1074	849	805	765	691	670

Model	S1	S2	S3	S4	S5	S6	S7	X	X1
AAVG/NR 1002 T2 110kW	691	640	670	1074	849	805	765	691	670

Model	X2	X3	X4	X5	X6	X7	a	a1	a2
AAVG/N 450 T2 2,2kW	490	393	350	375	335	319	146	182	216
AAVG/N 501 T2 4kW	546	436	386	410	370	350	166	200	236
AAVG/N 561 T2 7,5kW	613	488	438	460	418	392	185	219	255
AAVG/N 631 T2 11kW	688	545	493	515	472	438	207	241	277
AAVG/N 632 T2 15kW	688	545	493	515	472	438	207	241	277
AAVG/N 711 T2 22kW	767	605	547	570	522	489	231	265	301
AAVG/N 712 T2 30kW	767	605	547	570	522	489	231	265	301
AAVG/N 801 T2 37kW	854	677	622	640	592	545	258	292	328
AAVG/N 802 T2 45kW	854	677	622	640	592	545	258	292	328
AAVG/N 901 T2 55kW	963	762	696	715	668	617	288	332	368
AAVG/N 902 T2 75kW	963	762	696	715	668	617	288	332	368
AAVG/N 1001 T2 110kW	1074	849	805	790	765	640	322	366	402
AAVG/N 1002 T2 132kW	1074	849	805	790	765	640	322	366	402
AAVG/NR 501 T2 3kW	546	436	386	410	370	350	166	200	236
AAVG/NR 561 T2 5,5kW	613	488	438	460	418	392	185	219	255
AAVG/NR 632 T2 11kW	688	545	493	515	472	438	207	241	277
AAVG/NR 711 T2 18,5kW	767	605	547	570	522	489	231	265	301
AAVG/NR 712 T2 22kW	767	605	547	570	522	489	231	265	301
AAVG/NR 801 T2 30kW	854	677	622	640	592	545	258	292	328
AAVG/NR 802 T2 37kW	854	677	622	640	592	545	258	292	328
AAVG/NR 901 T2 45kW	963	762	696	715	668	617	288	332	368
AAVG/NR 902 T2 55kW	963	762	696	715	668	617	288	332	368
AAVG/NR 1001 T2 90kW	1074	849	805	790	765	640	322	366	402
AAVG/NR 1002 T2 110kW	1074	849	805	790	765	640	322	366	402

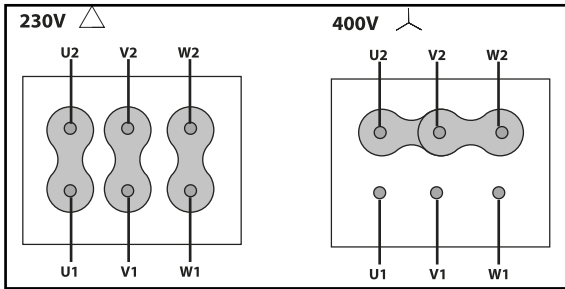
Model	b	b1	b2	d	d1	d2	n1xp	n2xp	Ø3
AAVG/N 450 T2 2,2kW	105	139	175	205	241	275	-	1x112	10
AAVG/N 501 T2 4kW	117	151	187	228	265	298	-	1x112	12
AAVG/N 561 T2 7,5kW	131	165	201	255	292	325	-	1x112	12
AAVG/N 631 T2 11kW	148	182	218	285	332	365	1x112	1x112	14
AAVG/N 632 T2 15kW	148	182	218	285	332	365	1x112	1x112	14
AAVG/N 711 T2 22kW	166	200	236	320	366	400	1x112	1x112	17
AAVG/N 712 T2 30kW	166	200	236	320	366	400	1x112	1x112	19
AAVG/N 801 T2 37kW	185	219	255	360	405	440	1x112	2x112	19
AAVG/N 802 T2 45kW	185	219	255	360	405	440	1x112	2x112	19
AAVG/N 901 T2 55kW	205	249	285	405	448	485	1x125	2x125	19
AAVG/N 902 T2 75kW	205	249	285	405	448	485	1x125	2x125	21

Model	b	b1	b2	d	d1	d2	n1xp	n2xp	Ø3
AAVG/N 1001 T2 110kW	229	273	309	455	497	535	1x125	2x125	24
AAVG/N 1002 T2 132kW	229	273	309	455	497	535	1x125	2x125	24
AAVG/NR 501 T2 3kW	117	151	187	228	265	298	-	1x112	12
AAVG/NR 561 T2 5,5kW	131	165	201	255	292	325	-	1x112	12
AAVG/NR 632 T2 11kW	148	182	218	285	332	365	1x112	1x112	14
AAVG/NR 711 T2 18,5kW	166	200	236	320	366	400	1x112	1x112	14
AAVG/NR 712 T2 22kW	166	200	236	320	366	400	1x112	1x112	17
AAVG/NR 801 T2 30kW	185	219	255	360	405	440	1x112	2x112	19
AAVG/NR 802 T2 37kW	185	219	255	360	405	440	1x112	2x112	19
AAVG/NR 901 T2 45kW	205	249	285	405	448	485	1x125	2x125	19
AAVG/NR 902 T2 55kW	205	249	285	405	448	485	1x125	2x125	19
AAVG/NR 1001 T2 90kW	229	273	309	455	497	535	1x125	2x125	21
AAVG/NR 1002 T2 110kW	229	273	309	455	497	535	1x125	2x125	24

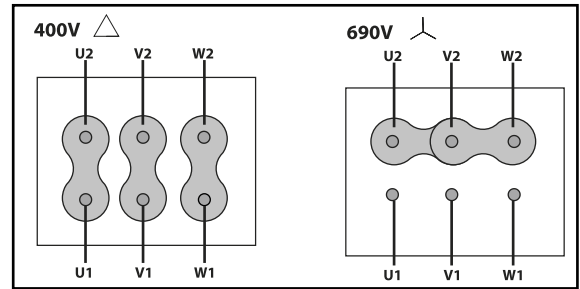
# Wiring diagram

DIAGRAM Nº 1

230/400V



400/690V

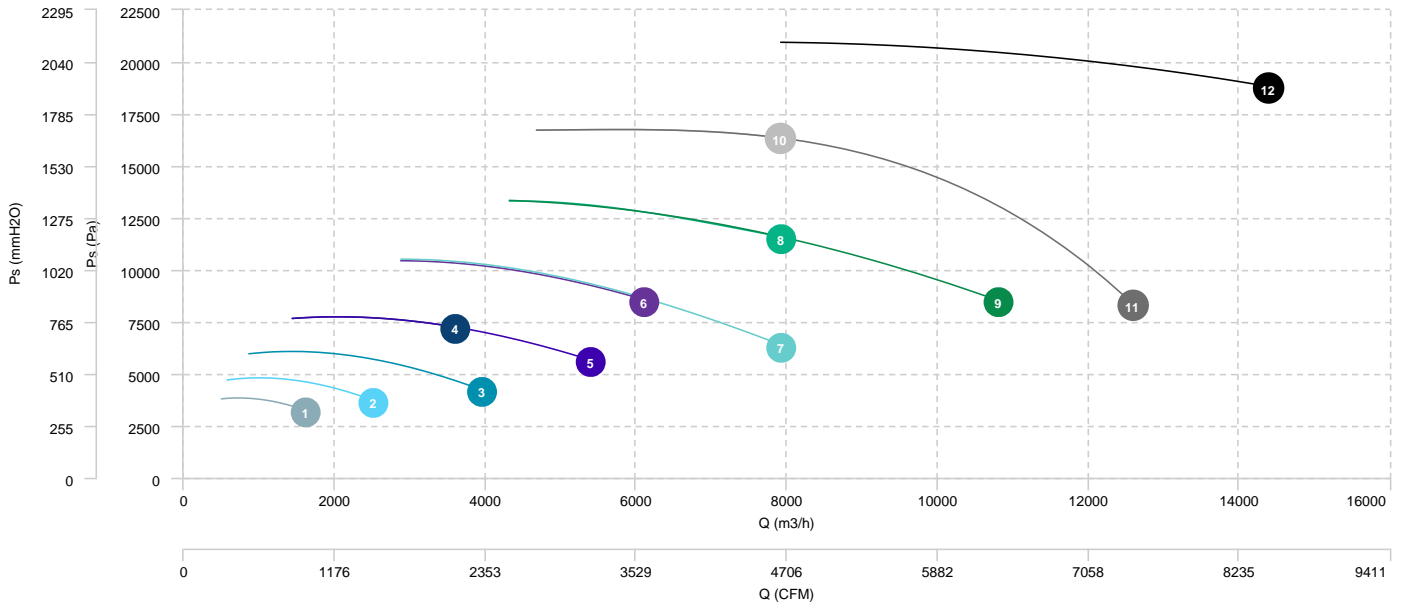




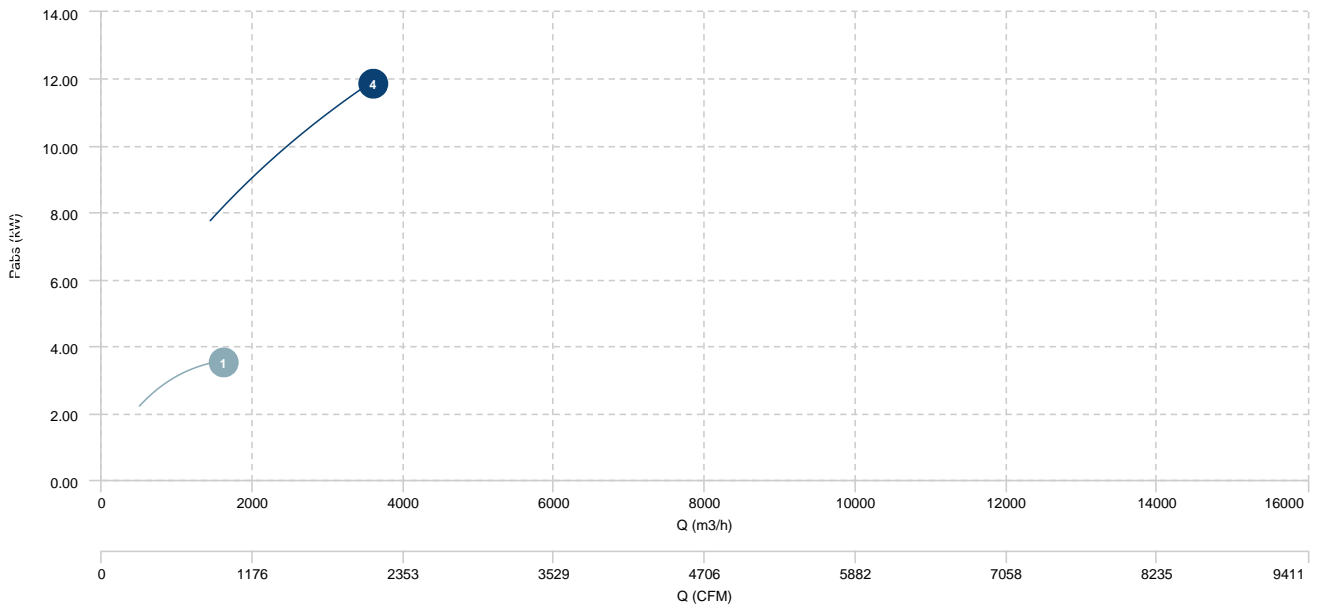
## CHARACTERISTIC CURVE

1	AAVG/N 450 T2 2,2kW	2	AAVG/N 501 T2 4kW	3	AAVG/N 561 T2 7,5kW	4	AAVG/N 631 T2 11kW
5	AAVG/N 632 T2 15kW	6	AAVG/N 711 T2 22kW	7	AAVG/N 712 T2 30kW	8	AAVG/N 801 T2 37kW
9	AAVG/N 802 T2 45kW	10	AAVG/N 901 T2 55kW	11	AAVG/N 902 T2 75kW	12	AAVG/N 1001 T2 110kW

### AIR FLOW - PRESSURE

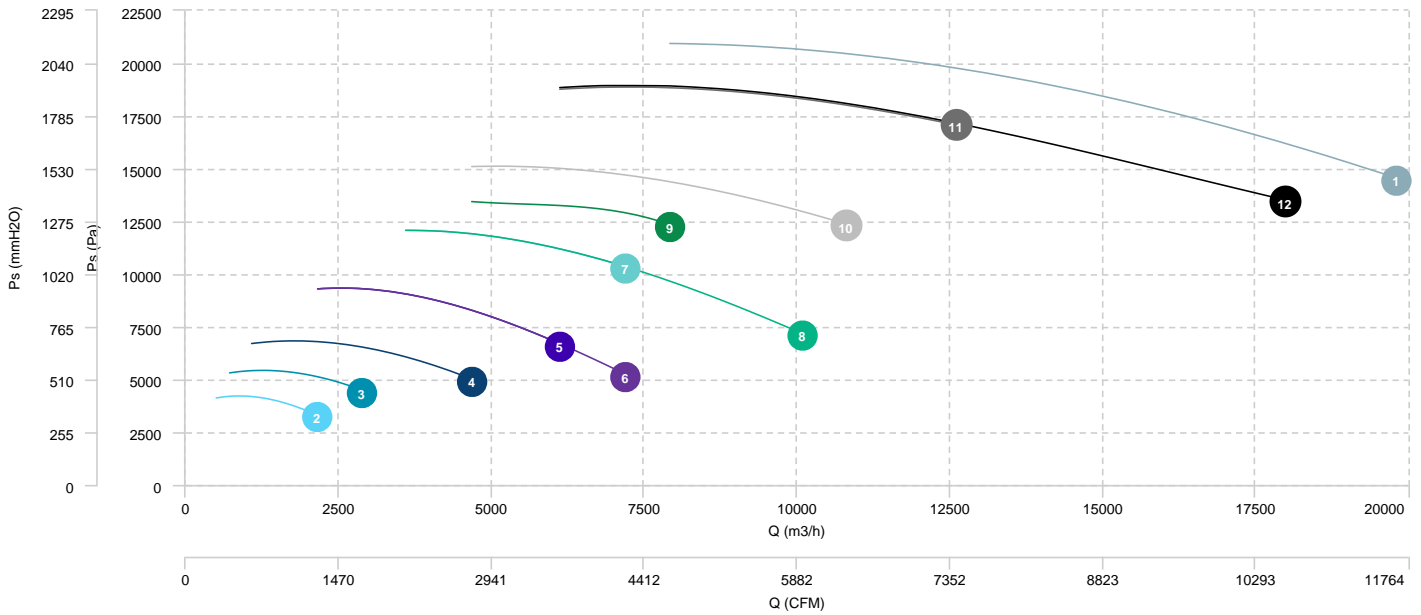


### AIR FLOW - ABSORBED POWER



1	AAVG/N 1002 T2 132kW	2	AAVG/NR 501 T2 3kW	3	AAVG/NR 561 T2 5,5kW	4	AAVG/NR 632 T2 11kW
5	AAVG/NR 711 T2 18,5kW	6	AAVG/NR 712 T2 22kW	7	AAVG/NR 801 T2 30kW	8	AAVG/NR 802 T2 37kW
9	AAVG/NR 901 T2 45kW	10	AAVG/NR 902 T2 55kW	11	AAVG/NR 1001 T2 90kW	12	AAVG/NR 1002 T2 110kW

## AIR FLOW - PRESSURE



## Sound data

### Sound / 2 poles

		Sound power Lw dB (A)								
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
AAVG/N 450 T2 2,2kW	Inlet	62	77	85	93	94	93	85	86	99
AAVG/N 501 T2 4kW	Inlet	63	78	86	94	95	94	86	87	100
AAVG/N 561 T2 7,5kW	Inlet	67	82	90	98	99	98	90	91	104
AAVG/N 631 T2 11kW	Inlet	70	84	92	101	102	101	92	93	107
AAVG/N 632 T2 15kW	Inlet	70	84	93	101	102	101	93	94	107
AAVG/N 711 T2 22kW	Inlet	72	87	95	104	104	103	95	96	109
AAVG/N 712 T2 30kW	Inlet	73	88	96	105	105	104	96	97	110
AAVG/N 801 T2 37kW	Inlet	77	91	99	108	109	108	99	101	114
AAVG/N 802 T2 45kW	Inlet	77	91	100	108	109	108	100	101	114
AAVG/N 901 T2 55kW	Inlet	80	94	103	111	112	111	103	104	117
AAVG/N 902 T2 75kW	Inlet	81	95	104	112	113	112	104	105	118
AAVG/N 1001 T2 110kW	Inlet	84	98	107	115	116	115	107	108	121
AAVG/N 1002 T2 132kW	Inlet	84	99	107	115	116	115	107	108	121
AAVG/NR 501 T2 3kW	Inlet	63	78	86	94	95	94	86	87	100
AAVG/NR 561 T2 5,5kW	Inlet	66	80	88	97	97	96	89	89	103
AAVG/NR 632 T2 11kW	Inlet	69	84	92	101	101	100	92	93	106
AAVG/NR 711 T2 18,5kW	Inlet	72	86	95	103	104	103	95	96	109
AAVG/NR 712 T2 22kW	Inlet	72	87	95	104	104	103	95	96	109
AAVG/NR 801 T2 30kW	Inlet	76	91	99	108	108	107	99	100	113
AAVG/NR 802 T2 37kW	Inlet	77	91	99	108	109	108	100	101	114
AAVG/NR 901 T2 45kW	Inlet	79	94	102	111	111	110	102	103	116
AAVG/NR 902 T2 55kW	Inlet	80	94	103	111	112	111	103	104	117
AAVG/NR 1001 T2 90kW	Inlet	83	97	106	114	115	114	106	107	120
AAVG/NR 1002 T2 110kW	Inlet	84	98	107	115	116	115	107	108	120

## erp data

ERP	
Fan type	Centrifugal fan backward blades with casing
Installation category	A
Efficiency category	Static
The fan has to be installed with FSC	No

## ERP / 2 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m3/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
AAVG/N 631 T2 11kW	11	68,24	68,11	3.600	7.253,45	11,94	2930	1,00