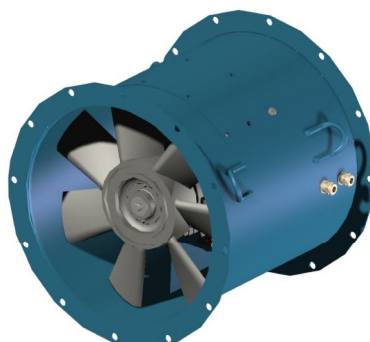




WENTYLATORY OSIOWE WENTYLATORY TUNELOWE

TYP
MPV



ZASTOSOWANIE

Typowym zastosowaniem tego wentylatora jest mechaniczna wentylacja ładowni, maszynowni itp. gdzie występuje przemieszczanie dużych objętości powietrza przy stosunkowo niewielkich spadkach ciśnienia. Montowany w przewodzie wentylacyjnym lub na szczycie przewodu wentylacyjnego.

MPV-A1

Do zastosowania przy niskich objętościach i średnich spadkach ciśnienia aż do wysokich objętości i niskich spadków ciśnienia. Najlepiej jeśli opór systemu znajduje się od strony wlotowej, tj. zwykle w wylocie systemu wentylacyjnego. Należy zachować ostrożność podczas instalacji w systemach, w których opór znajduje się przy końcówce wylotowej, szczególnie jeśli znajduje się ona zaraz za wentylatorem. Powstający w ten sposób wir może zwiększyć opór do wielokrotności wartości obliczeniowych.

MPV-D1

Do zastosowania przy niskich objętościach i umiarkowanych spadkach ciśnienia aż do wysokich objętości i średnich spadków ciśnienia. Najkorzystniej jest jeśli opór systemu znajduje się od strony wylotu. Cyrkulacja powietrza w systemach ogrzewania, wentylacji i klimatyzacji i system wywiewny.

Z wirnikiem napędzanym typu D o różnych kątach nachylenia w celu dostosowania do określonych wydajności i wysokości ciśnienia.

Łopatki można regulować gdy nie pracują. Z wirnikiem napędzanym typu D, wentylator będzie również wyposażony w łopatki kierujące.

MPV dostępny jest również w asortymencie od rozmiaru nr 206 do rozmiaru nr 1600

KONSTRUKCJA

Wieloletnie doświadczenie przyczyniło się do powstania prostej konstrukcji, z wirnikiem osadzonym bezpośrednio na wale silnika, łącząc najlepsze cechy z prostoty i niezawodności z najniższą możliwą ceną. W celu realizacji specyfikacji klientów dostępne są również rozwiązania na specjalne zamówienie, takie jak model odporny na iskrzenie.

WYKONANIE

Zwykle produkowane z ocynkowanej ogniowo stali okrętowej klasy A. Inne materiały, takie jak odporne na wodę morską aluminium lub stal nierdzewna dostępne są na życzenie.

MPV – są dostępne w wielu wykonaniach i z różnych typów materiału.

WIRNIK NAPĘDZANY

Wirnik wykonany jest z aluminium odpornego na działanie soli i amoniaku, o aerodynamicznym kształcie i wyważeniu, lub z tworzywa sztucznego (poliamid). Wykonywany jest w dwóch typach.

Typ A: Odlew jednoczęściowy

SILNIK ELEKTRYCZNY

Wentylatory są zwykle dostarczane ze standardowym indukcyjnymi klatkowymi silnikami elektrycznymi. Mogą również zostać dostarczone wyposażone w silniki elektryczne innego typu, jak silniki przeciwwybuchowe lub 2-biegowe.

AKCESORIA

- Przeciwołńierze
- Kratka ochronna wlot/wylot: (mieści się zakresie dostawy dla MPV - E i MPV - B)
- Stopy do montażu poziomego/pionowego
- Zestaw do podłączenia elastycznego (wlot/wylot)
- Zewnętrzna skrzynka przyłączeniowa
- Wykonanie przeciwwybuchowe z osłoną przeciwwiskrową;
- Amortyzatory drgań



AXIAL FANS

MPV - A1B



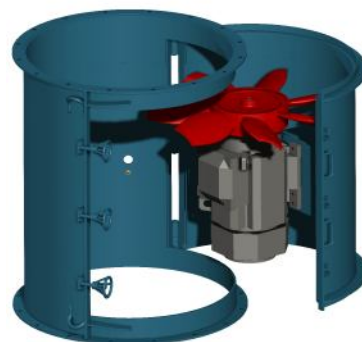
MPV - A1K



MPV - A1E



MPV - A1M



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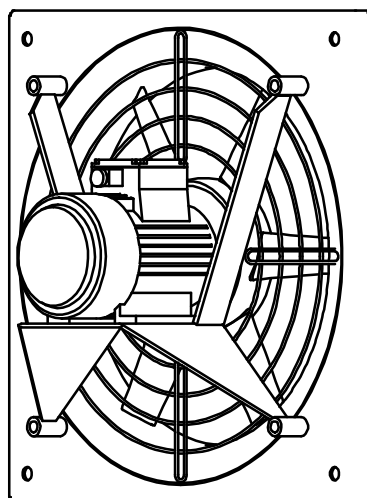
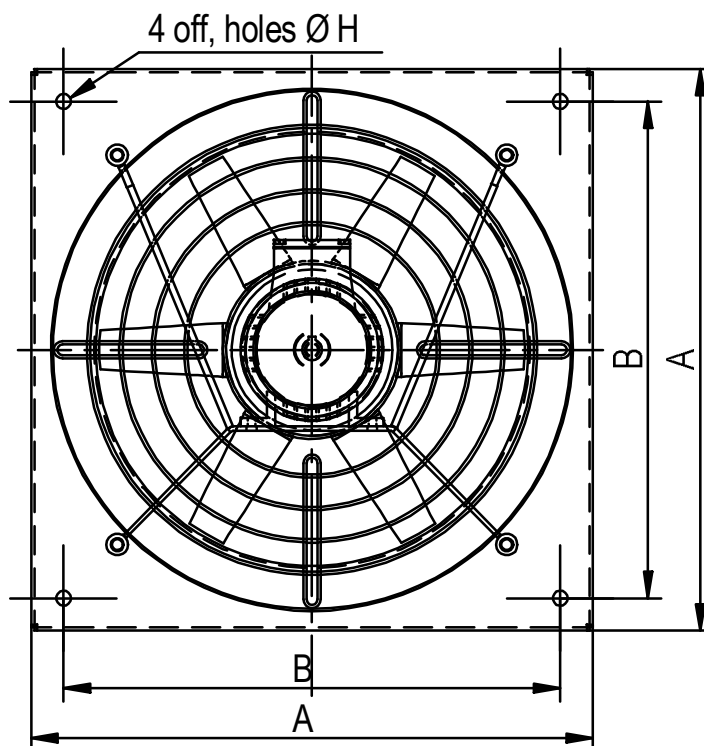
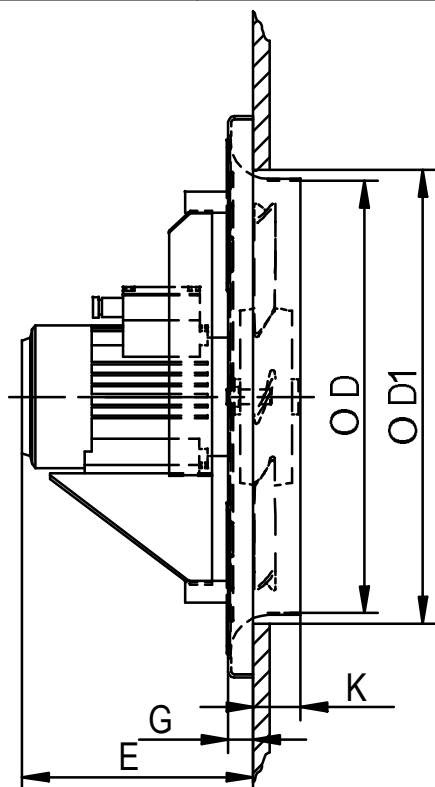


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NYBORG AXIAL FLOW FAN Type "B"

MPV - A1B



MPV	A	B	Ø D	Ø D1	E	K	G	Ø H	Weight [kg] ex cl. motor
250	340	285	250	280	180	40	15	10	
315	400	350	315	320	200	45	15	10	
355	460	410	355	370	210	45	15	10	
400	520	460	400	420	220	45	20	14	
450	570	510	450	470	250	45	20	14	
500	650	580	500	520	210	70	20	14	
550	700	630	550	570	220	70	20	14	
630	800	720	630	650	235	80	20	14	
710	870	800	710	730	260	115	25	14	
800	970	900	800	830	360	115	25	18	
900	1080	980	900	930	400	122	28	18	
1000	1180	1100	1000	1030	440	151	34	18	
1120	1300	1200	1120	1140	650	151	34	18	

GENERAL DESCRIPTION :

AXIAL FLOW FAN, MPV-A1B, is a medium pressure axial fan, designed for static pressure up to 1000 Pa. The MPV-A1B is made in heavy duty design, for industry, mining, marine and offshore applications. Ex-execution is also available.

FAN FRAME and MOTOR PEDESTAL are normally made of steel (st.37), and are hot dipped galvanized. Other materials are also available as options like AISI 316L or Alum.

The IMPELLER is designed for high efficiency and low noise. The impeller is made of a salt- and amoniareisitive aluminium alloy or PAG.

WIRE GUARD: Included.

MOTOR : The fans are normally delivered with 3-phased motors in accordance with the IEC recommendations, or special motors on request, like ex-motors.

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15/11-02



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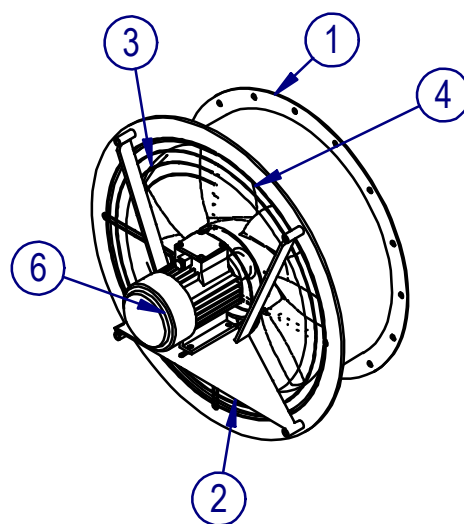
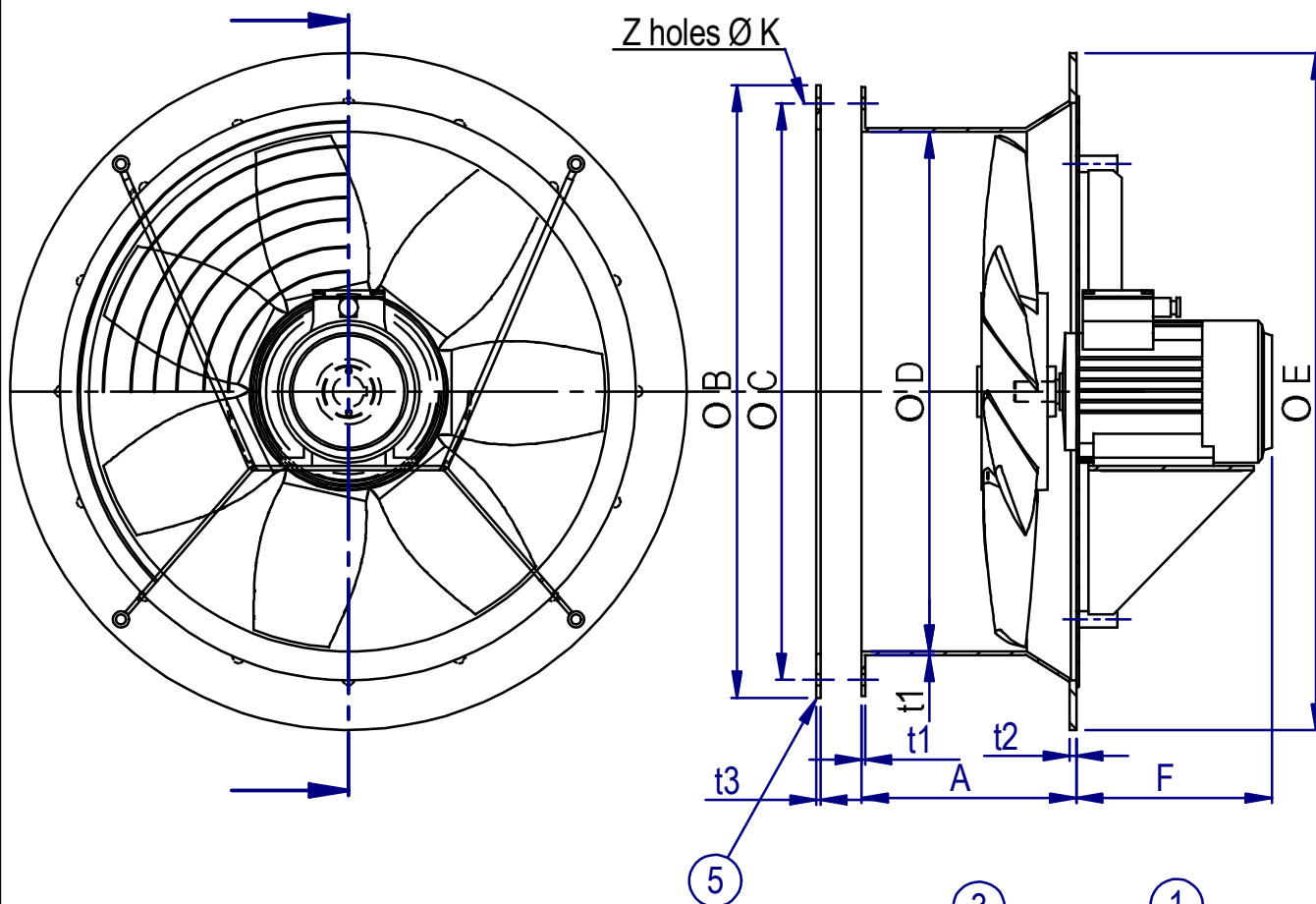
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MPV - A1B



NYBORG AXIAL FLOW FAN Type "E"

MPV - A1E



MPV	A	B	C	Ø D	Ø E	F	Z x K	t1	t2	t3	Max weight fan [kg]
250	202	334	310	250	430		8x12	3	6	5	15
315	194	400	360	315	430		8x14	3	6	5	17
355	195	440	405	355	485		8x14	3	6	8	19
400	198	484	460	400	530		12x14	3	6	8	24
450	215	534	510	450	595		12x14	4	6	8	27
500	250	584	560	500	660		12x14	4	6	8	36
630	260	736	698	630	820		16x14	4	8	8	51
710	320	816	775	710	900		16x14	4	8	8	73
800	320	906	870	800	990		16x19	4	8	8	85
900	320	1028	980	900	1110		16x19	4	8	10	112
1000	400	1128	1080	1000	1275		20x19	6	8	10	186
1120	420	1248	1200	1120	1405		20x19	6	10	12	232
1250	520	1380	1320	1250	1550		24x14	6	10	12	
1400	520	1530	1490	1400	1740		32x19	6	10	12	

6	El.Motor, min IP54, IEC std		
5	Contra Flange	St.37	Option
4	Wire Guard	St.37/HDG	
3	Impeller	Alum./PAG	
2	Motor Bracket	St.37/HDG	
1	Fan Housing	St.37/HDG	
Item	Description	Material	Remarks

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18/11-02



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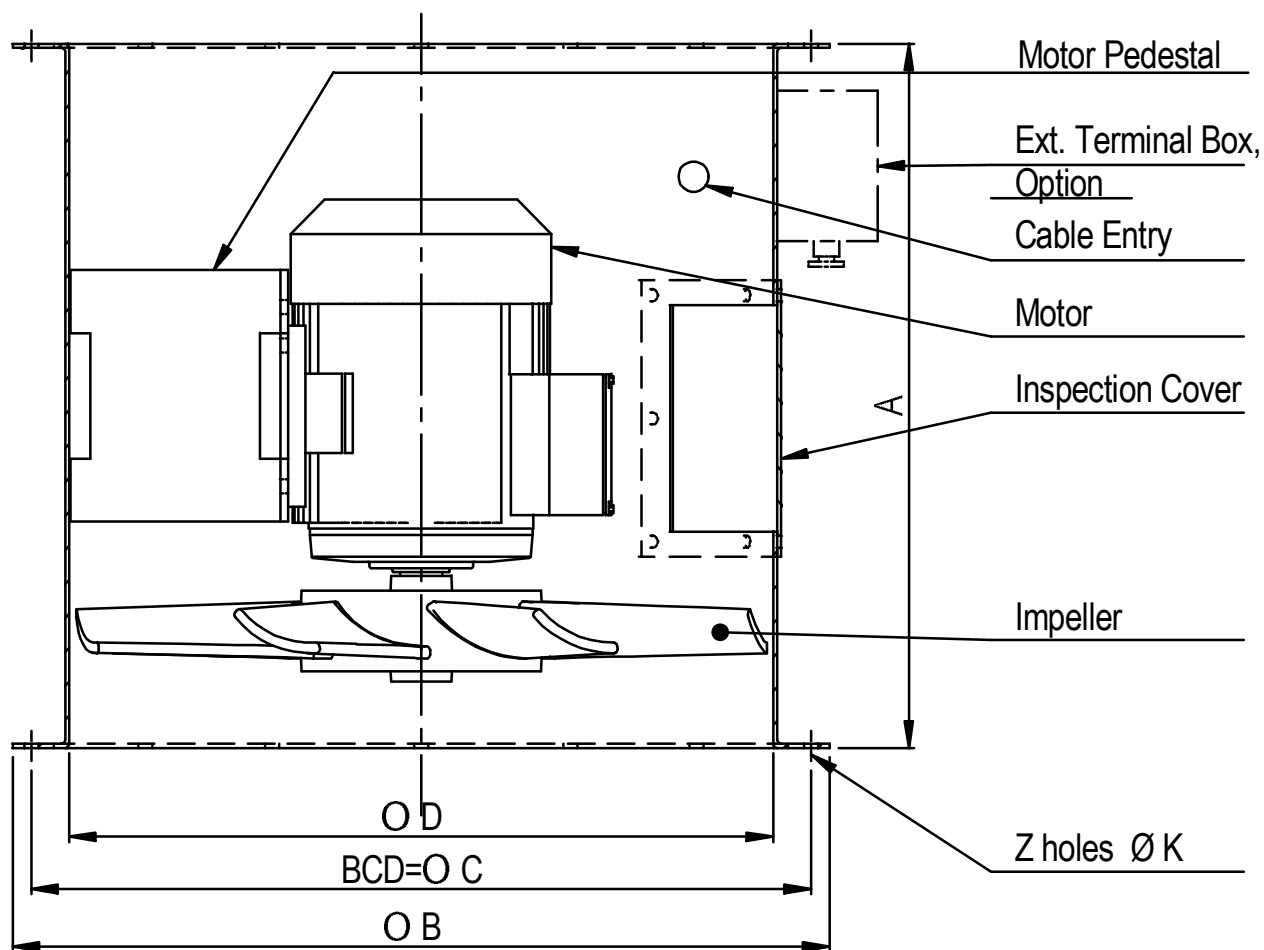
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MPV - A1E

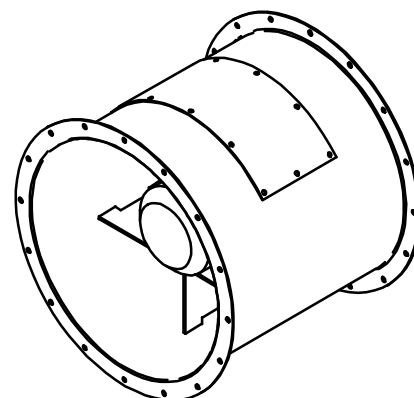


NYBORG AXIAL FLOW FAN Type "K"

MPV - A1K



MPV	A	B	C	D	T	Z x K	Weight [kg] ex cl. motor
250	330	334	310	250	3	8x12	10
315	360	400	360	315	3	8x14	12
355	420	440	405	355	3	8x14	17
400	420	484	460	400	3	12x14	19
450	500	534	510	450	3	12x14	26
500	500	584	560	500	3	12x14	30
630	630	736	698	630	4	16x14	58
710	700	816	775	710	4	16x14	76
800	750	906	870	800	5	16x19	150
900	800	1028	980	900	5	16x19	190
1000	890	1128	1080	1000	6	20x19	230
1120	1000	1248	1200	1120	6	20x19	290
1250	1000	1380	1320	1250	6	24x14	330
1400	1300	1530	1490	1400	6	32x19	420



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04/04-02

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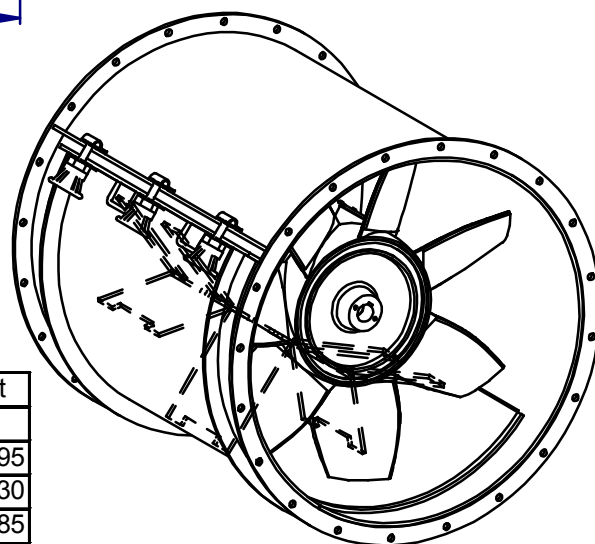
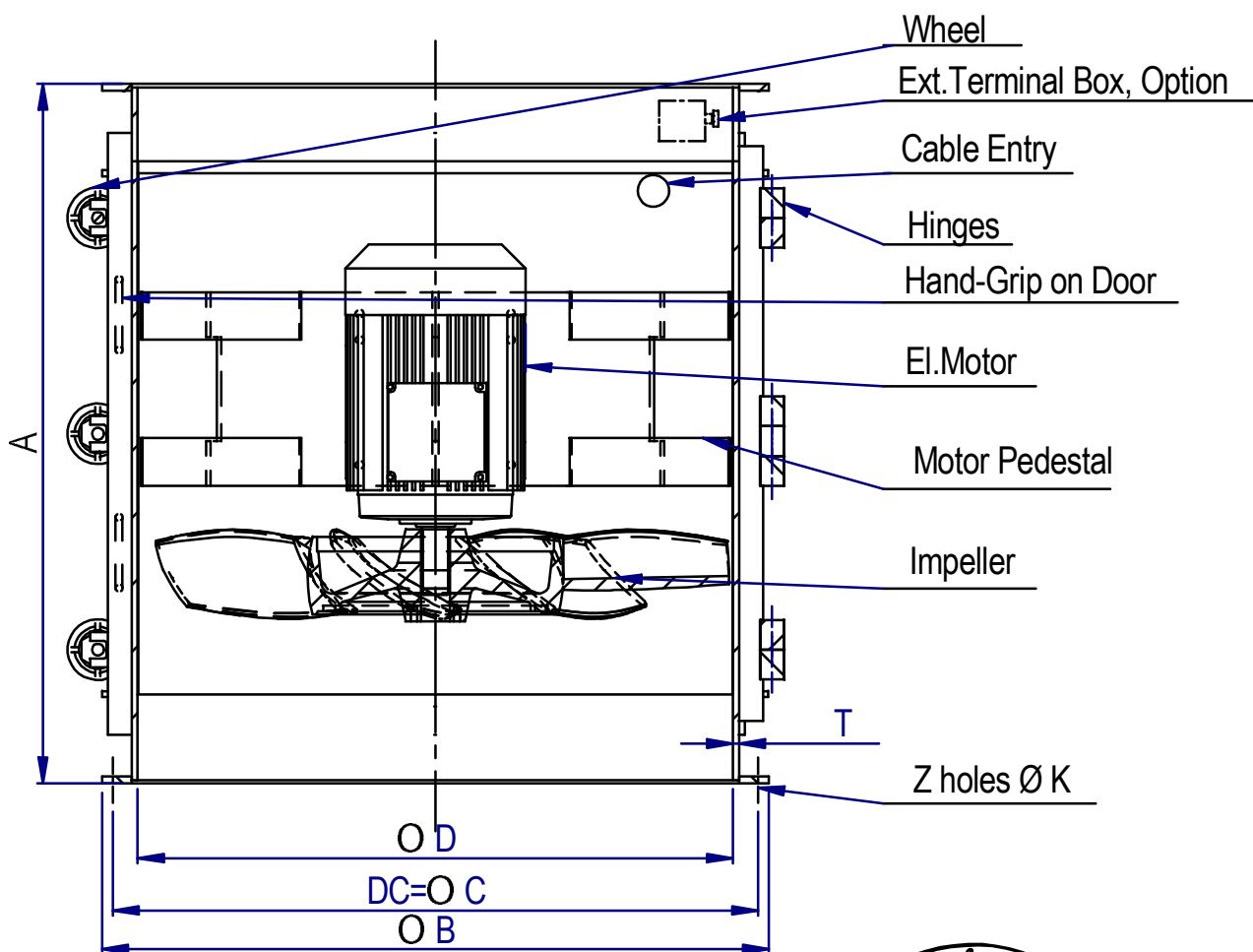
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MPV - A1K



NYBORG AXIAL FLOW FAN Type "M"

MPV - A1M



MPV	A	B	C	D	T	Z x K	Weight
400	550	484	460	400	10	12x14	95
500	600	584	560	500	10	12x14	130
630	685	736	698	630	10	16x14	185
710	825	816	775	710	10	16x14	261
800	890	906	870	800	10	16x19	303
900	1175	1028	980	900	10	16x19	434
1000	1175	1128	1080	1000	10	20x19	476
1120	1250	1248	1200	1120	10	20x19	598
1250	1400	1380	1320	1250	10	24x14	675
1400	1500	1530	1490	1400	10	32x19	750

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MPV - A1M



SOUND POWER LEVELS (SWL) CALC. NYBORG AXIAL- FLOW FANS

50Hz

FAN DATA			dB values at centre Hz									Theor
FAN MODEL	Rpm	Impeller	63	125	250	500	1000	2000	4000	8000	dBA	
MPV 250 A	1450	A6T/24	55	62	59	64	65	61	57	55		58
MP V 250 A	2900	A6T/24	60	79	71	77	79	75	72	70		74
MPV 315 A	1450	315 /6/35	58	66	62	66	69	65	60	59		62
MP V 315 A	2900	315 /6/30	64	83	75	81	83	79	76	74		78
MPV 355 A	1450	355/6/35	57	65	63	65	67	63	59	57		64
MPV 355 A	2900	355/8/35	67	86	78	84	86	82	79	77		81
MPV 400 A	1450	400/8/35	68	65	66	68	69	66	61	57		68
MPV 400 A	2900	400/8/35	69	88	80	86	88	84	82	79		84
MPV 500 A	1450	500/8/35	75	72	73	75	76	73	68	64		74
MPV 500 A	2900	500/10/30	75	94	86	92	94	90	88	85		92
MPV 630 A	1450	A7T/22	81	78	79	81	82	79	74	70		79
MPV 710 A	1450	A7T/24	85	82	83	85	86	83	78	75		86
MPV 800 A	1450	A7T/22	88	85	96	88	89	86	82	78		88
MPV 900 A	1450	A7T/22	91	90	92	92	93	90	85	81		92
MPV 1000 A	950	A7T/21	83	85	83	85	87	84	78	74		86
MPV 1000 A	1450	A7T/21	95	93	86	95	96	94	88	84		95
MPV 1120 A	950	A7L/16	88	90	88	90	92	89	83	79		91
MPV 1120 A	1450	A7L/16	98	96	96	98	99	96	91	87		98
MPV 1250 A	950	A7L/16	92	94	92	93	95	92	86	82		94
MPV 1250 A	1450	A7L/16	101	98	99	101	102	99	94	90		101

- Sound power levels in dB. ref. 10⁻¹² W, internal values in fan openings.
- dBA values applies to 1 m. distance based on a theoretical free field environment.
- The sound power level values above are only intended as a guide, and may be used for calculations for sound pressure levels. (heard by the human ear).



SOUND POWER LEVELS (SWL) CALC. NYBORG AXIAL- FLOW FANS

60Hz

FAN DATA			dB values at centre Hz										Theor
FAN MODEL	Rpm	Impeller	63	125	250	500	1000	2000	4000	8000	10000	dBA	
MPV 250 A	1750	A6T/24	55	63	62	67	67	63	59	57		60	
MPV 250 A	3500	A6T/24	77	77	79	82	83	80	77	66		74	
MPV 315 A	1750	315/6/35	58	66	62	66	69	65	60	59		64	
MPV 315 A	3500	315/6/30	84	84	85	88	87	88	82	74		80	
MPV 355 A	1750	355/6/35	60	68	64	68	70	66	62	60		66	
MPV 355 A	3500	355/8/35	59	85	76	84	86	82	81	79		83	
MPV 400 A	1750	400/8/35	63	71	67	71	73	69	65	63		70	
MPV 400 A	3500	400/8/35	63	89	80	88	90	86	85	83		86	
MPV 500 A	1750	500/8/35	69	77	73	77	79	75	71	69		76	
MPV 500 A	3500	500/10/30	70	96	87	95	97	93	92	90		94	
MPV 630 A	1750	A7T/22	76	84	80	84	86	82	78	76		81	
MPV 710 A	1750	A7T/24	78	90	86	90	92	88	84	82		88	
MPV 800 A	1750	A7T/22	85	93	89	93	95	91	87	85		91	
MPV 900 A	1750	A7T/22	89	93	92	96	98	94	90	88		94	
MPV 1000 A	1150	A7T/21	89	88	88	90	93	88	82	82		89	
MPV 1000 A	1750	A7T/21	90	98	94	98	100	96	92	90		98	
MPV 1120 A	1150	A7L/16	95	94	94	96	98	94	88	84		95	
MPV 1120 A	1750	A7L/16	93	101	97	101	103	99	95	93		101	
MPV 1250 A	1150	A7L/16	97	96	96	98	100	96	90	86		98	
MPV 1250 A	1750	A7L/16	98	105	101	105	98	93	99	97		105	

- Sound power levels in dB. ref. 10^{-12} W, internal values in fan openings.
- dBA values applies to 1 m. distance based on a theoretical free field environment.
- The sound power level values above are only intended as a guide, and may be used for calculations for sound pressure levels. (heard by the human ear).



GALVANIZE SPECIFICATION STEEL FANS

Step No	Description	Thickness	Type	Manufacturer
1	Cleaning	-	Nitric acid	-
2	Galvanizing	80 my	Zn	-



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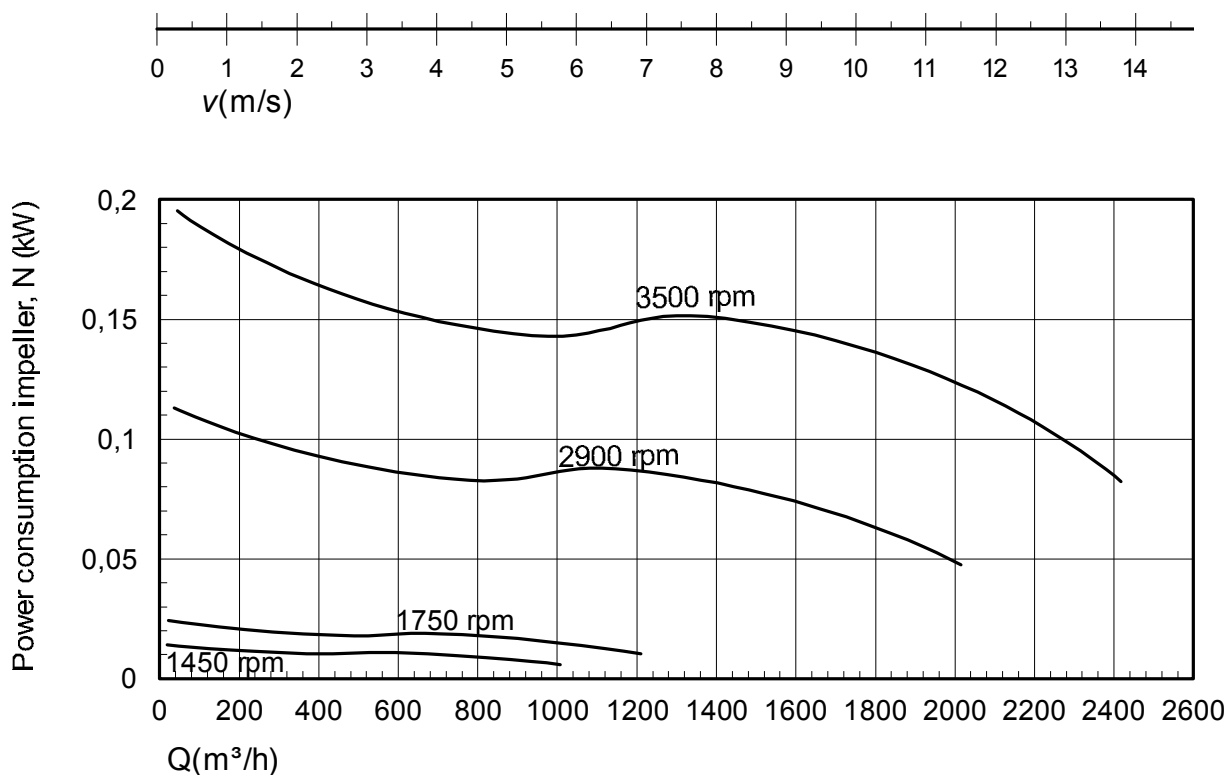
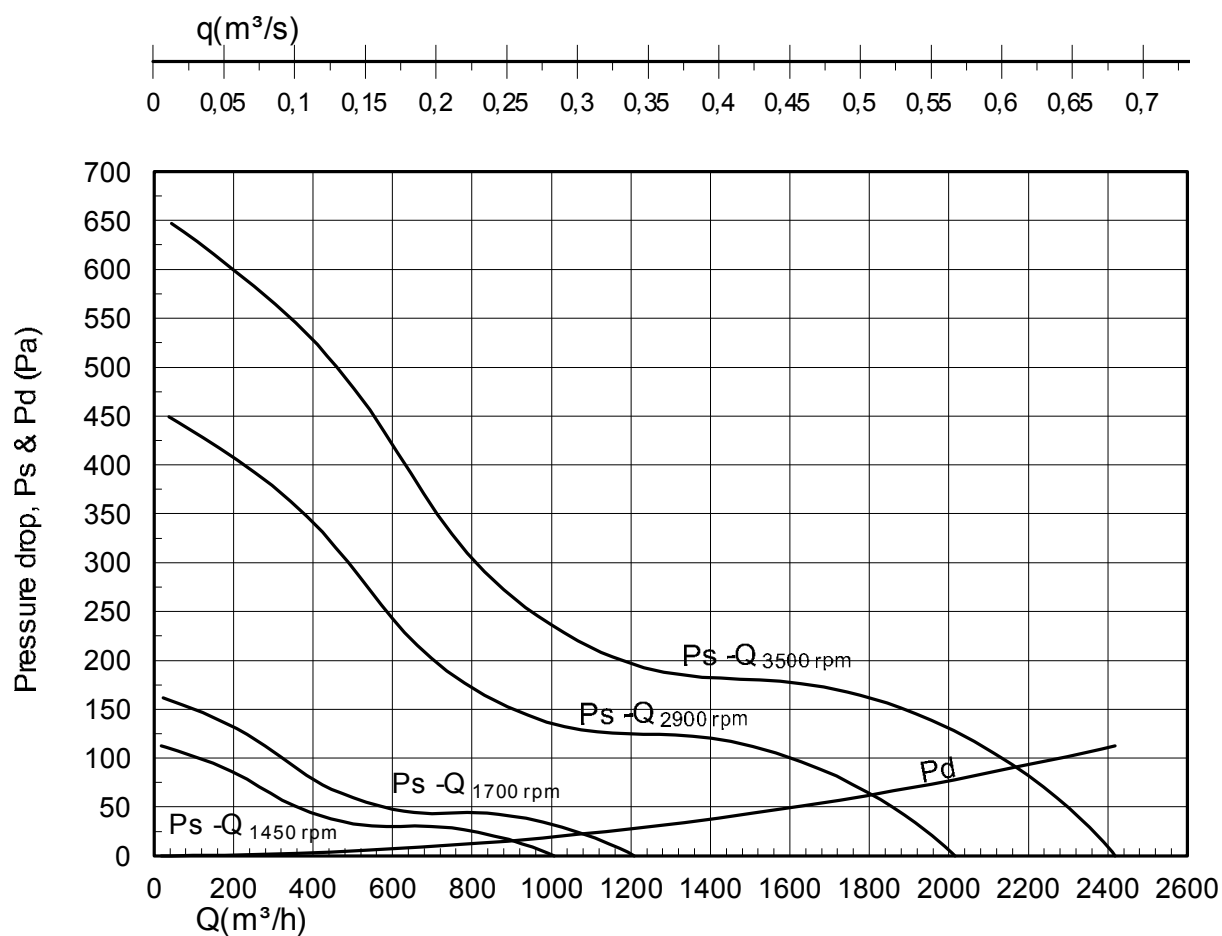
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NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 250 A

Imp: A6T / 24



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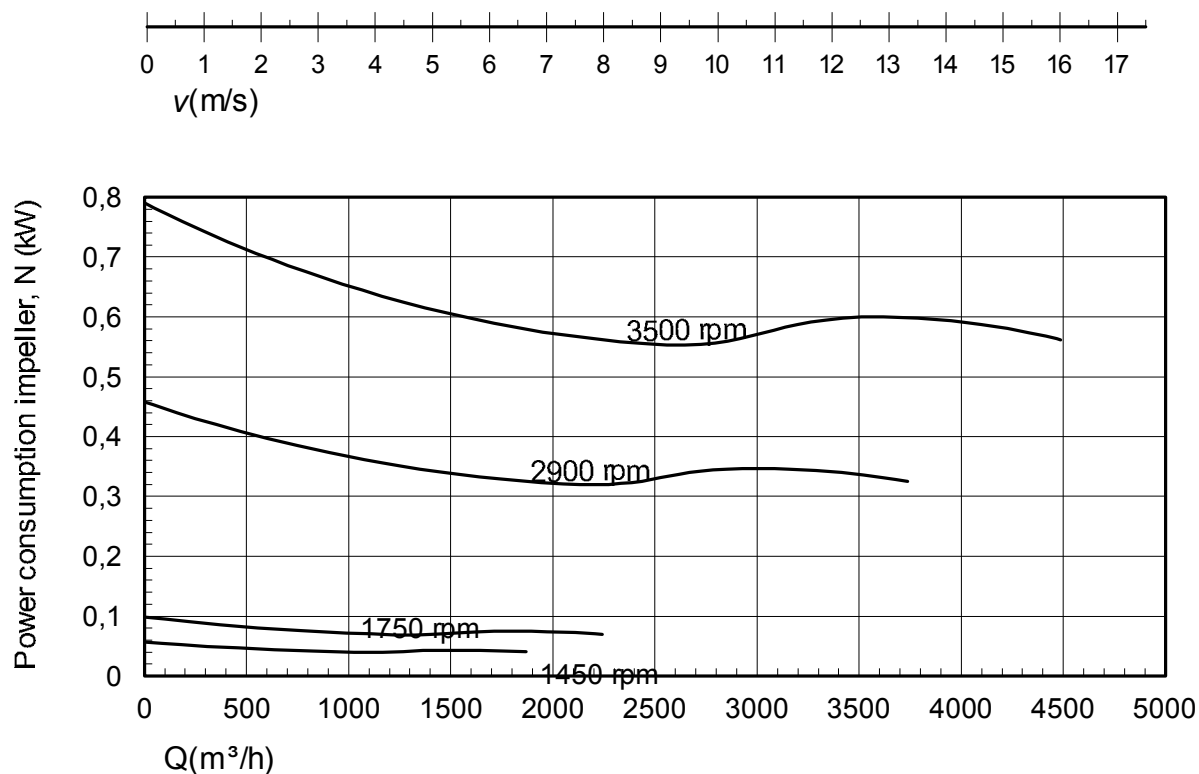
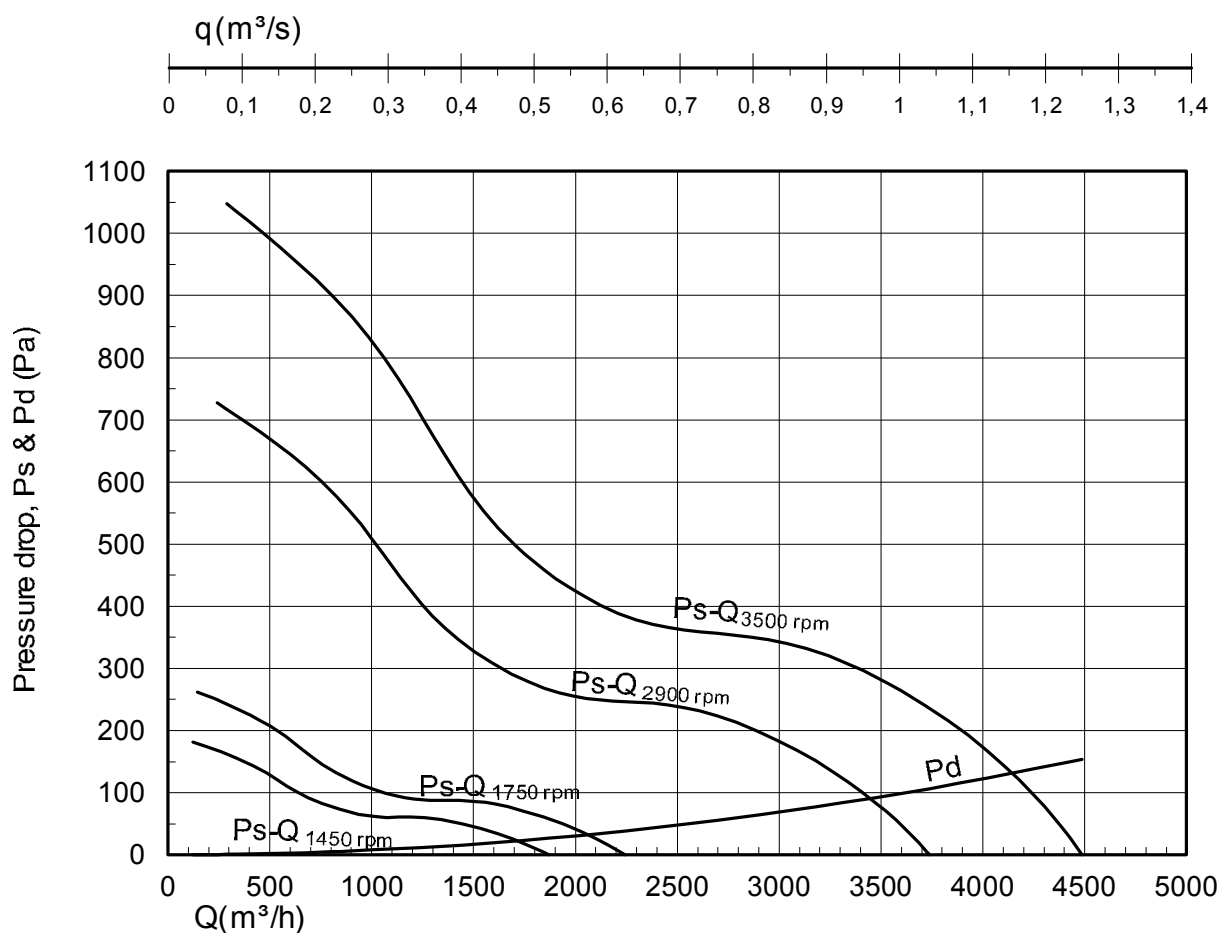
MPV 250 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 315 A

Imp: A6T / 24



nyborg12.prs/19



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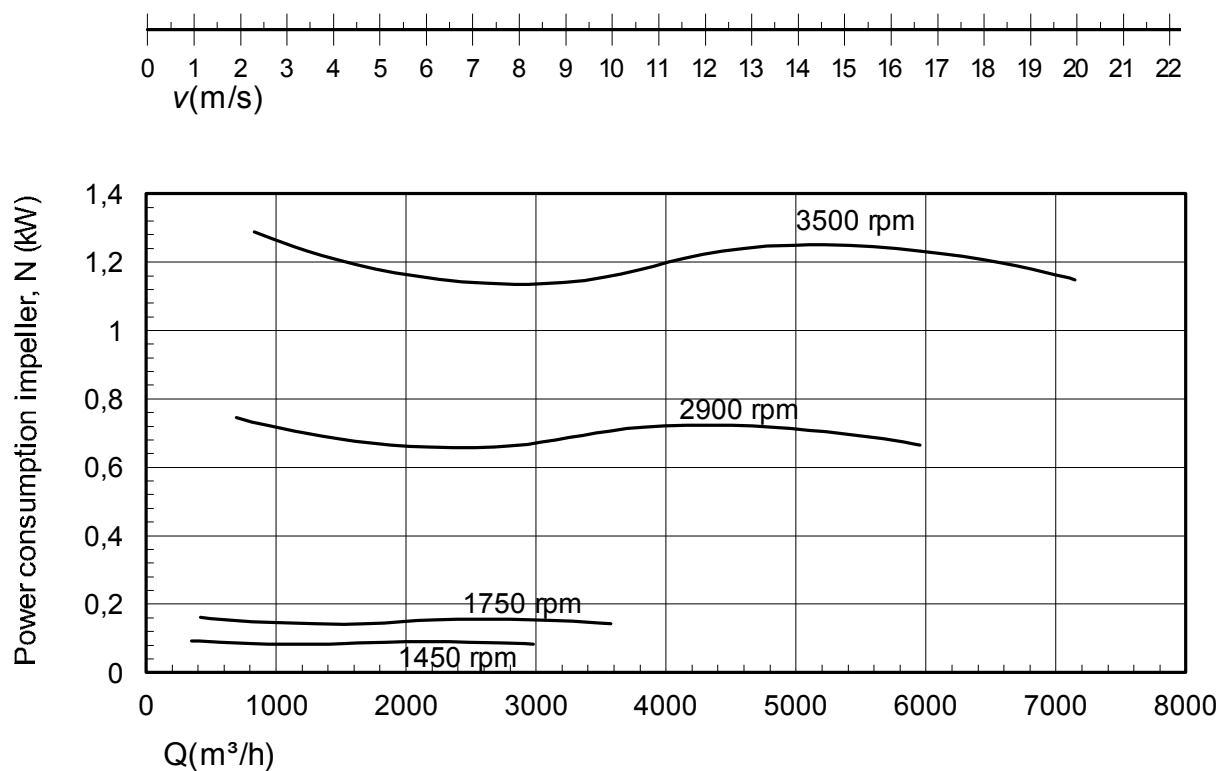
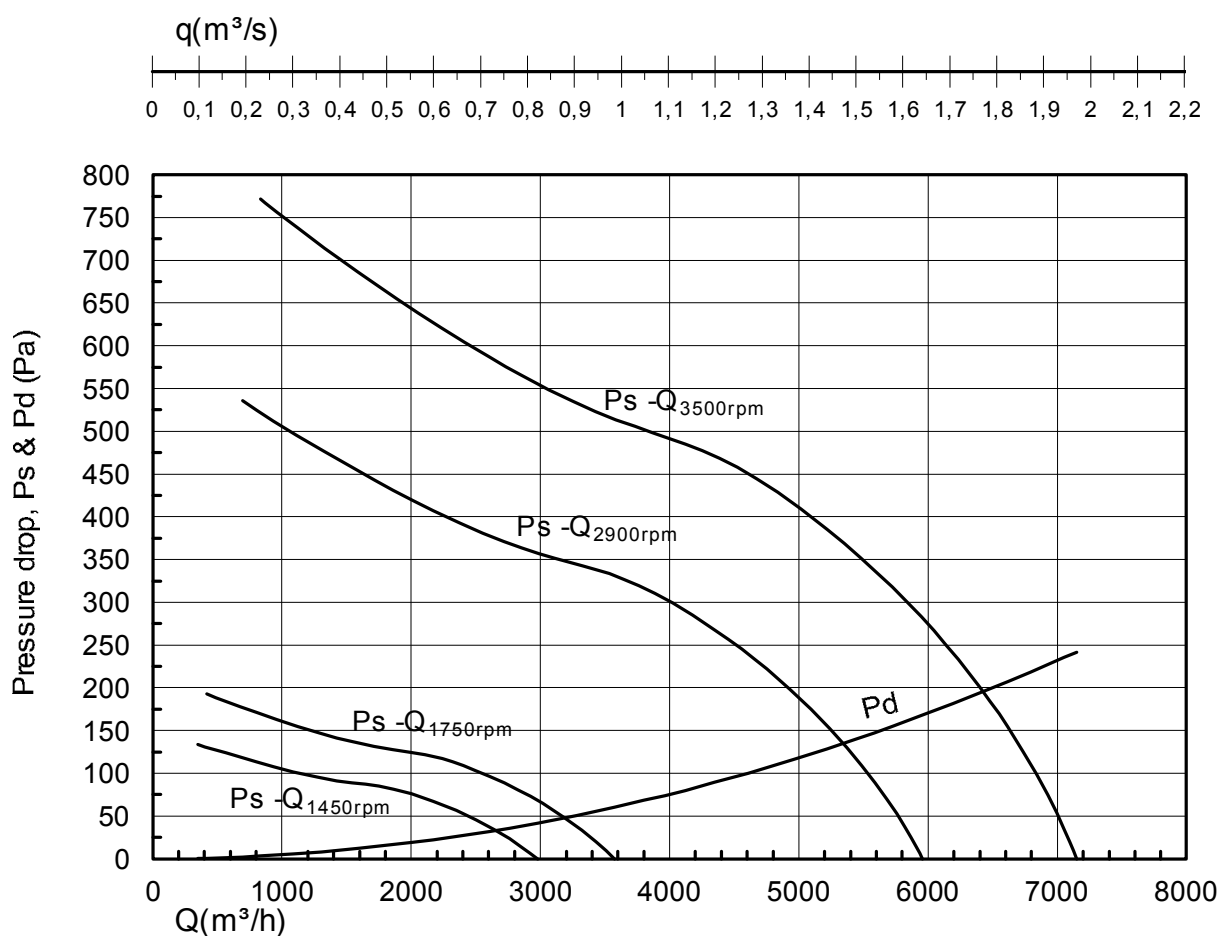
MPV 315 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 355 A

Imp: A6T / 22



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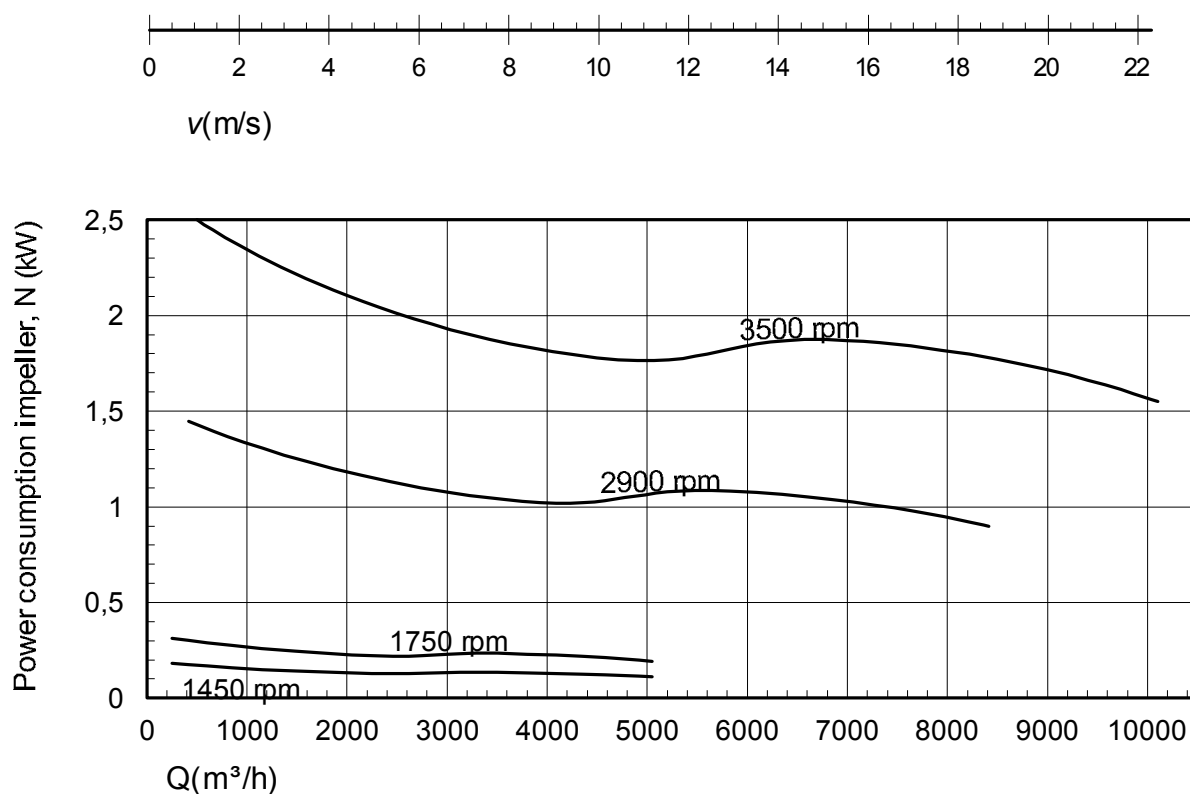
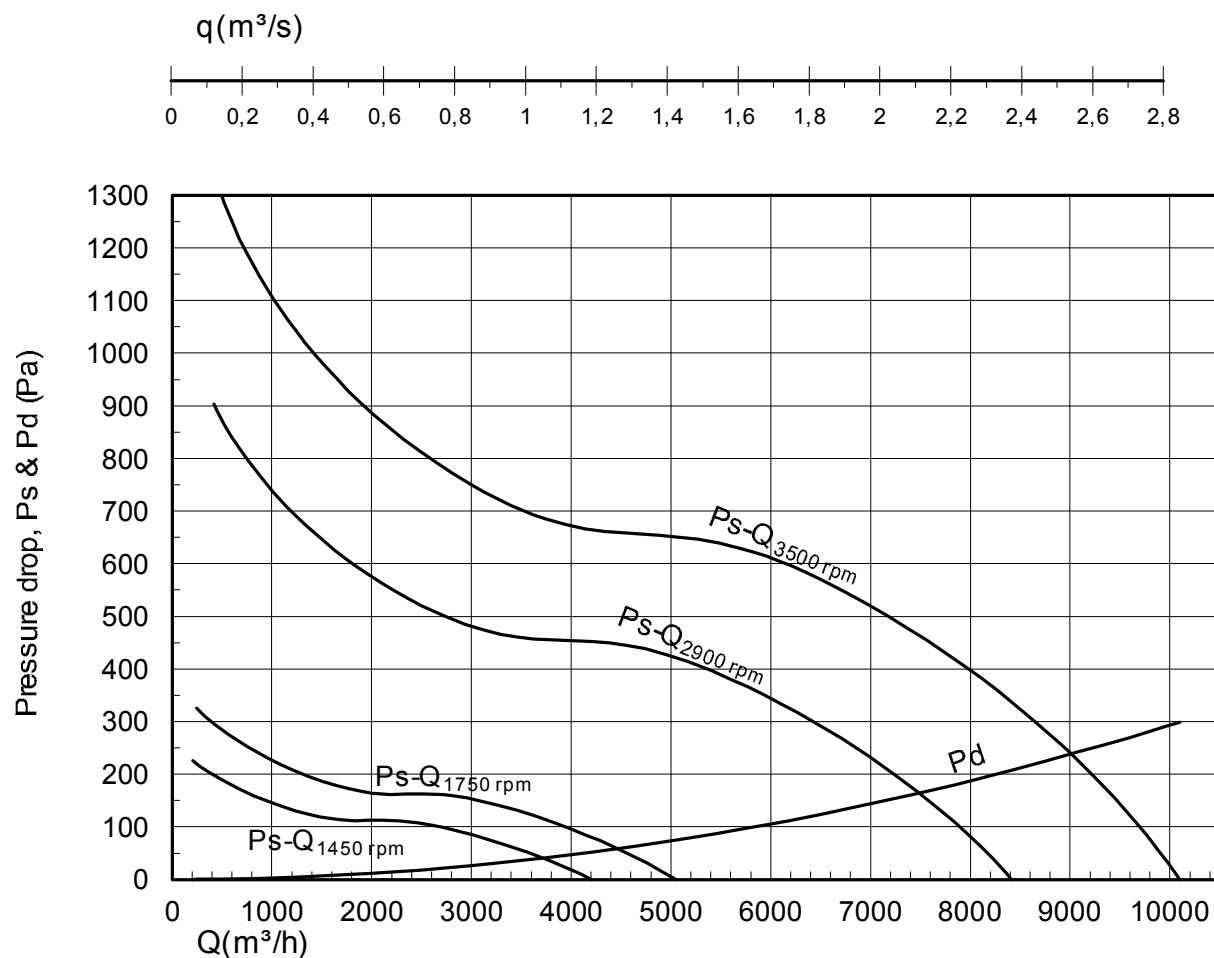
MPV 355 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 400 A

Imp: A7L / 13



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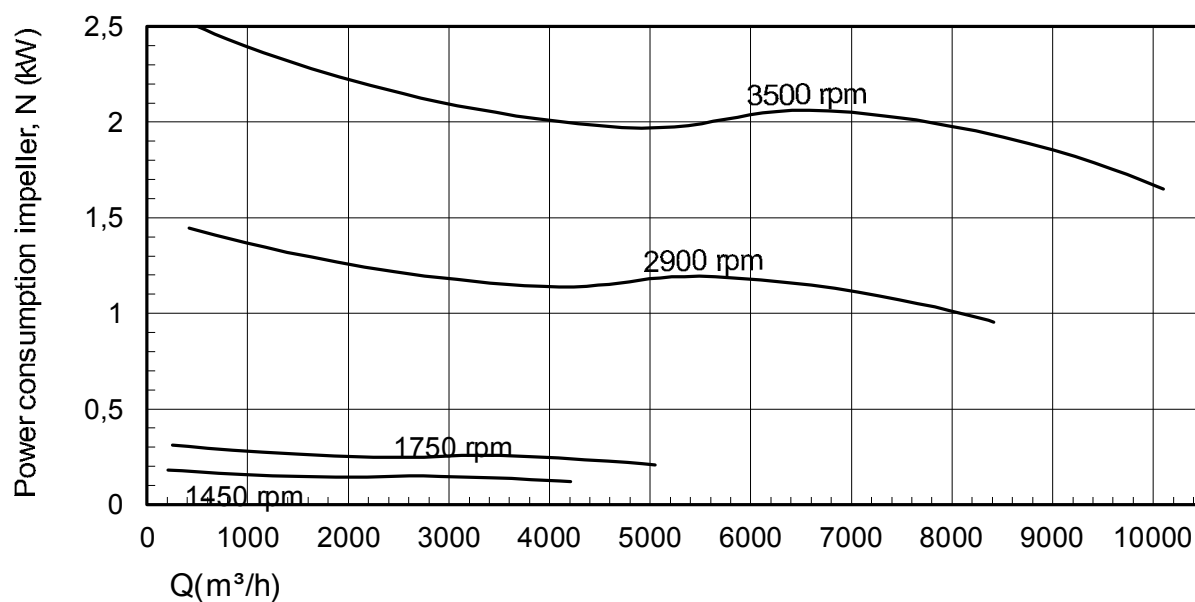
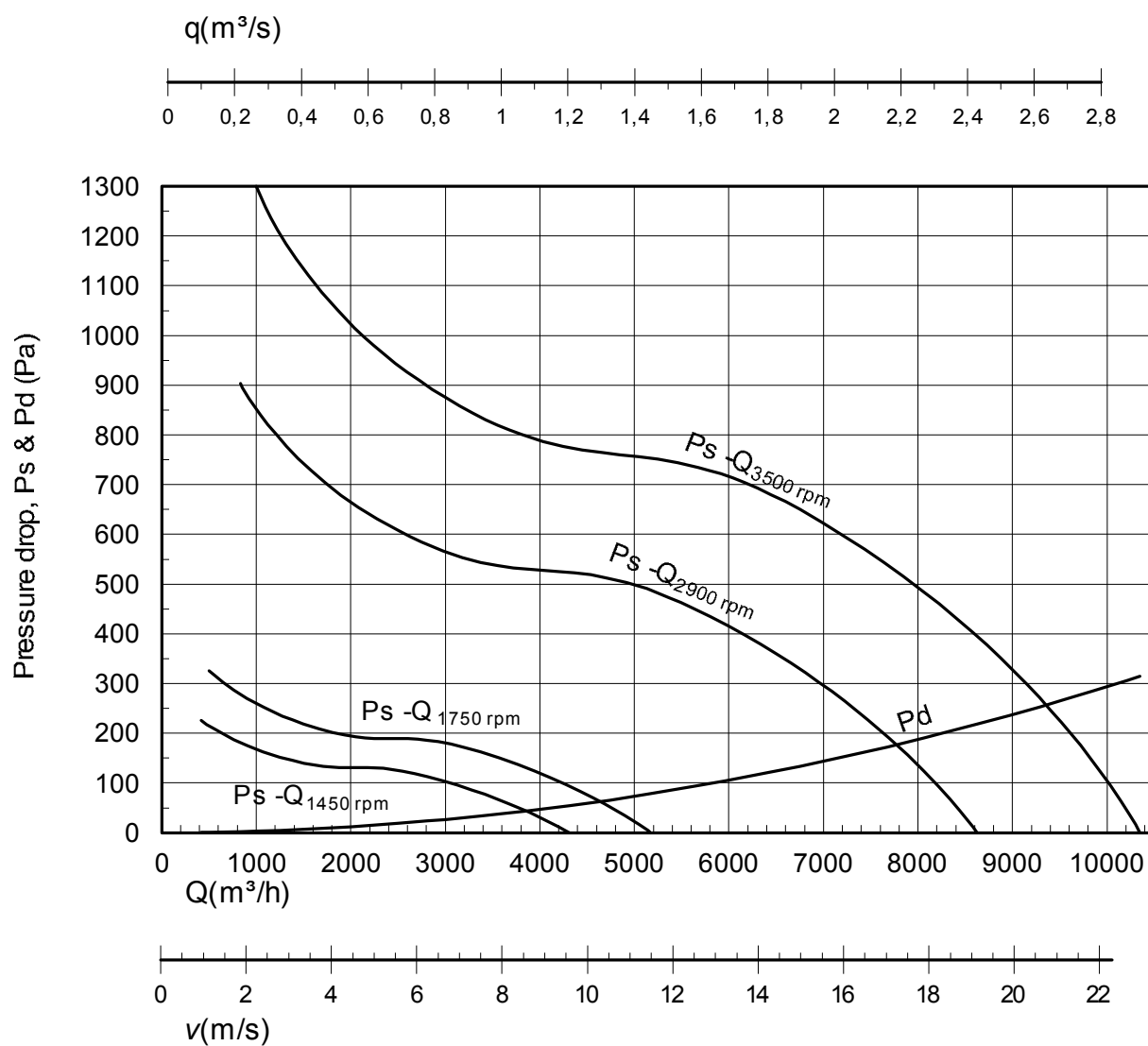
MPV 400 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 400 A

Imp: A7T / 22



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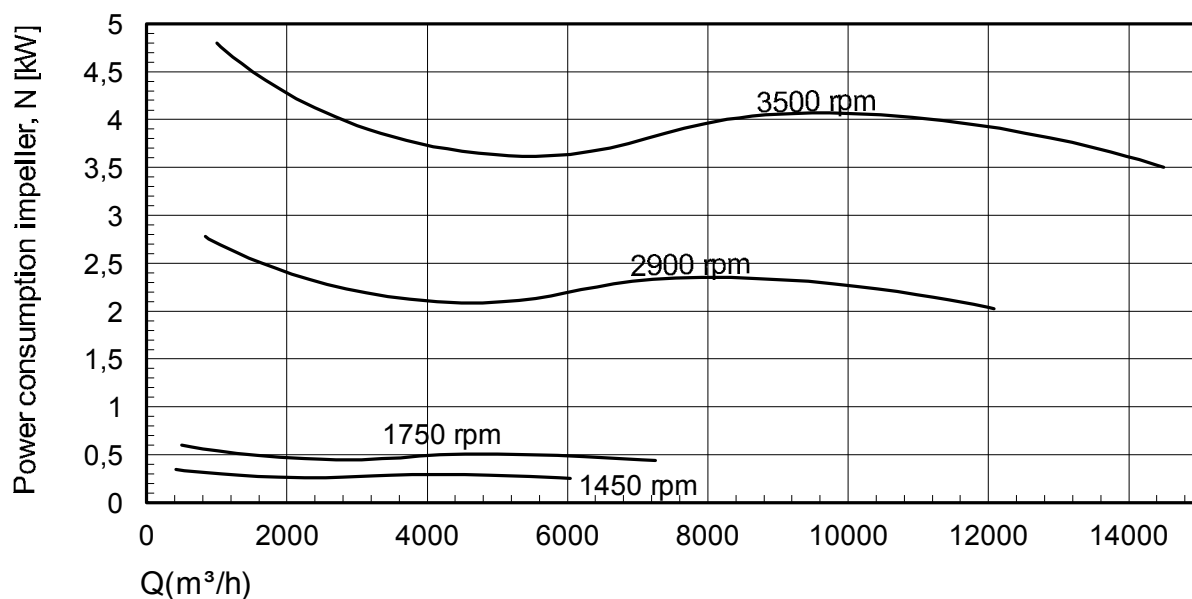
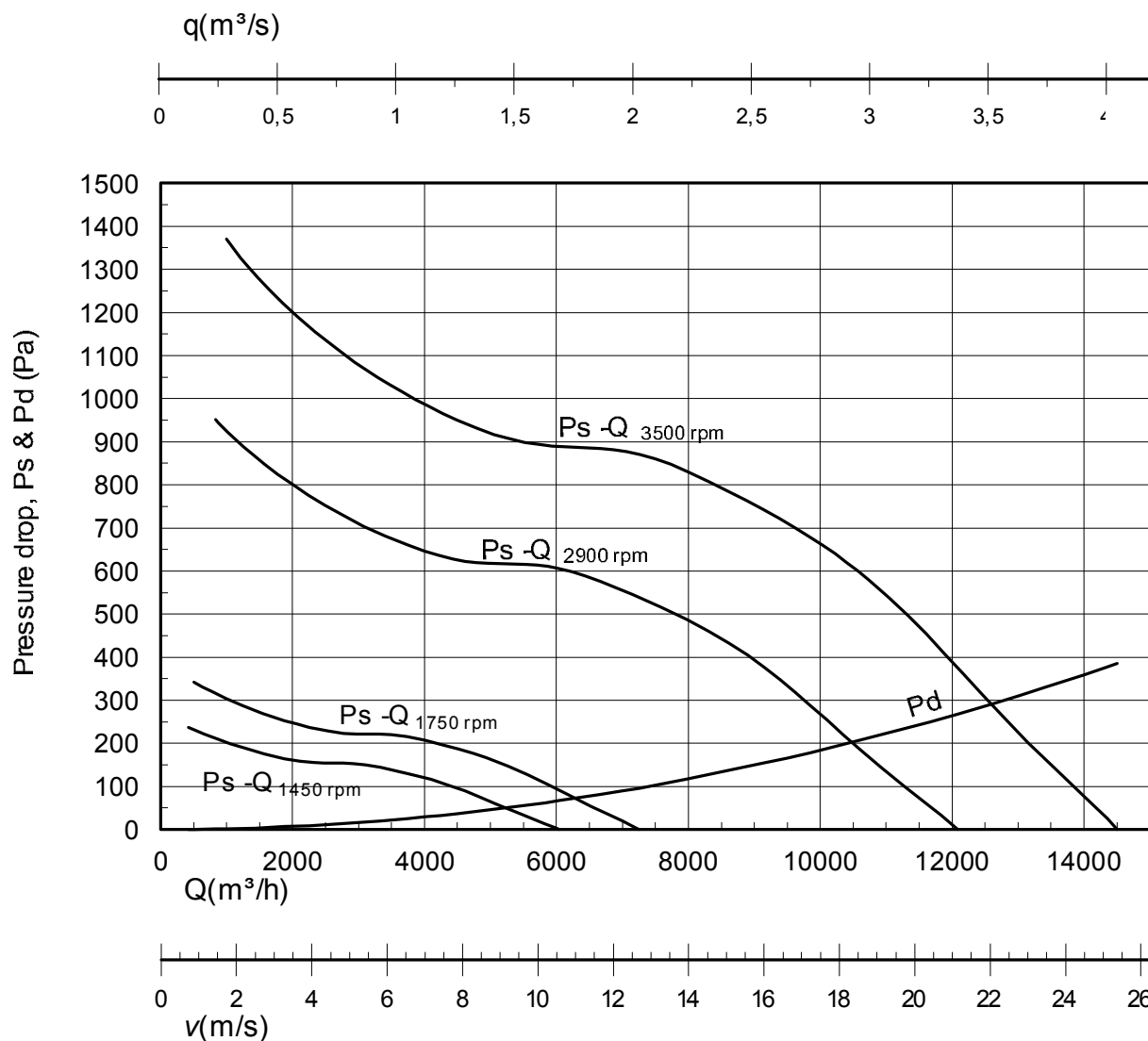
MPV 400 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 450 A

Imp: A7L / 14



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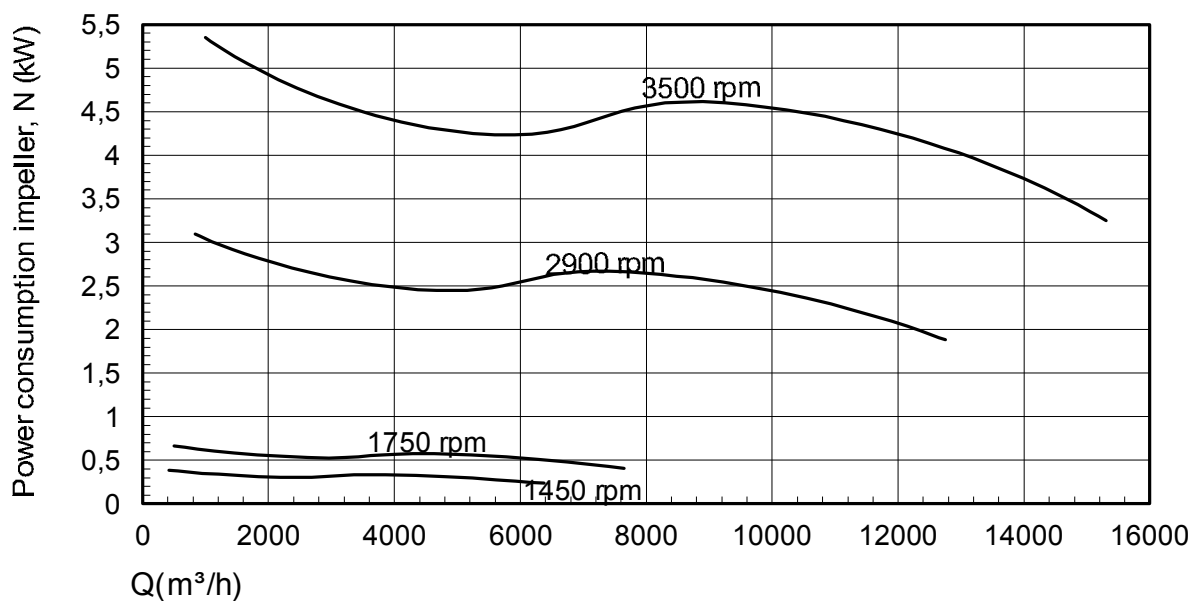
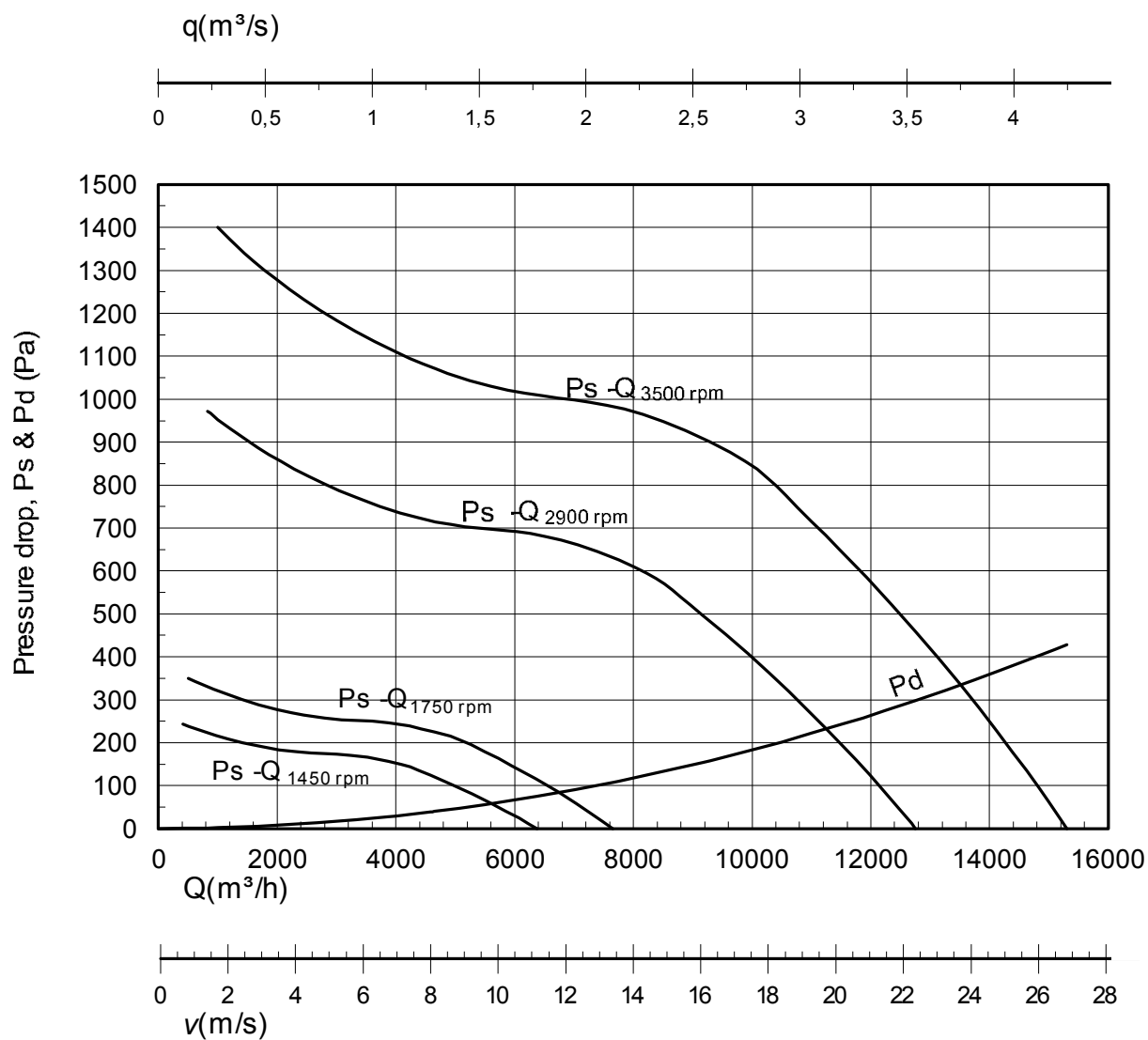
MPV 450 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 450 A

Imp: A7T / 22



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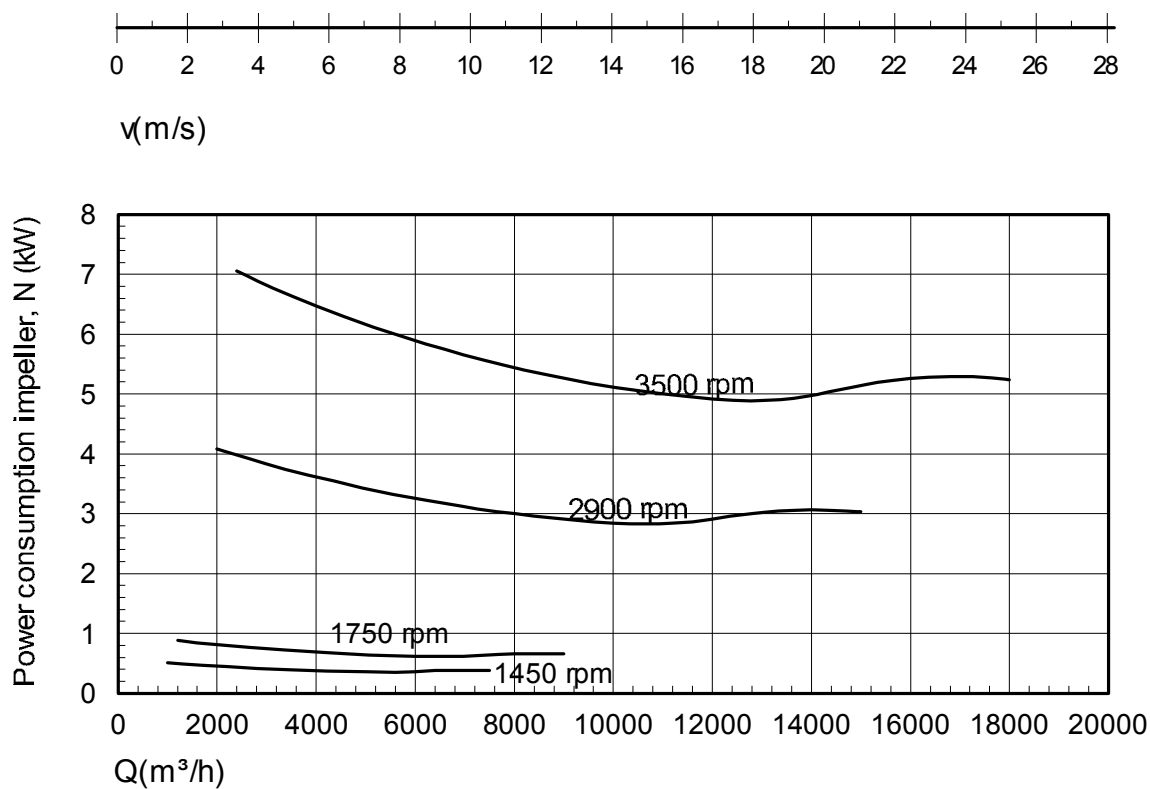
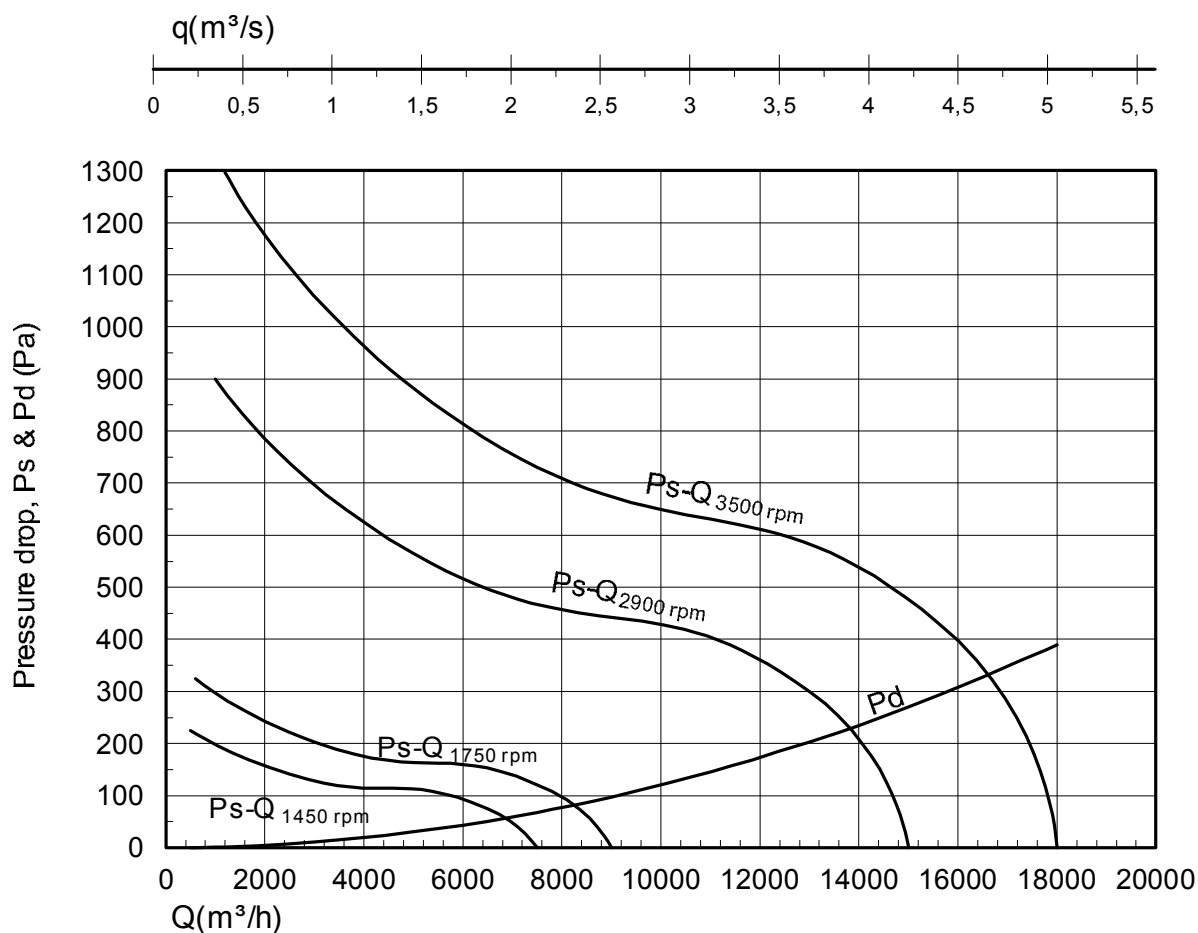
MPV 450 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 500 A

Imp: A7L / 16



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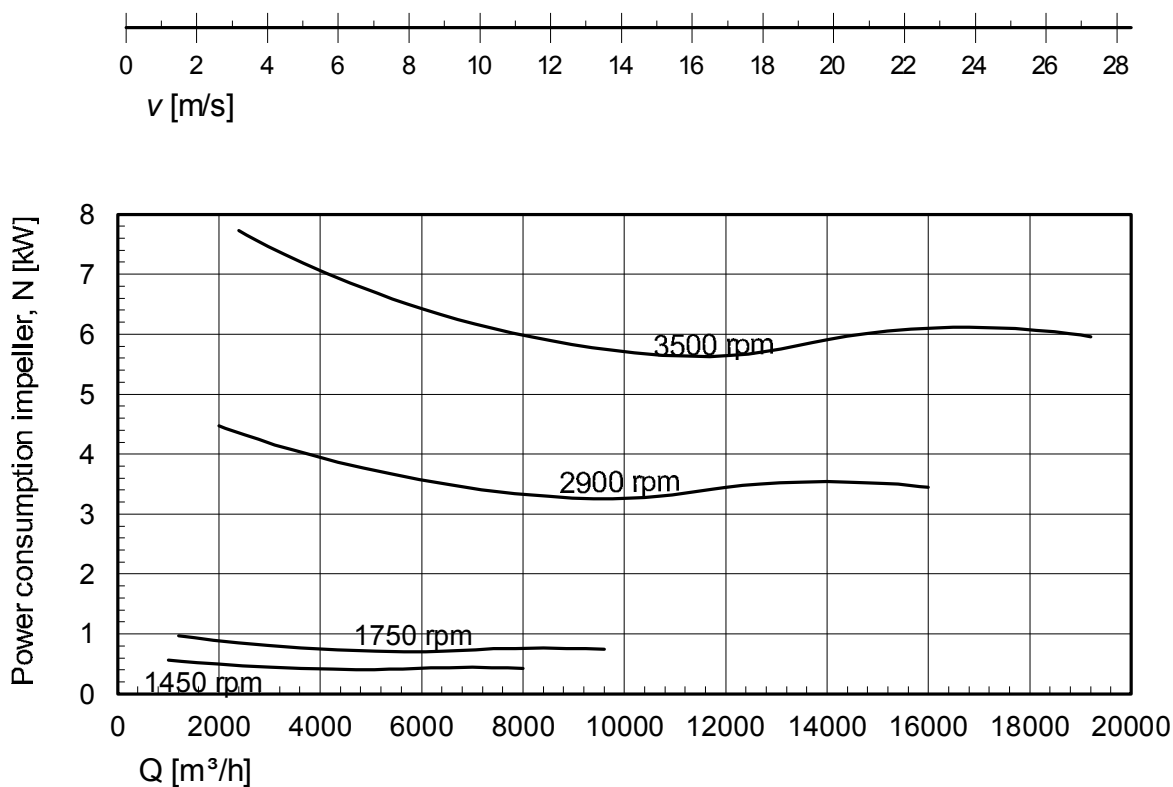
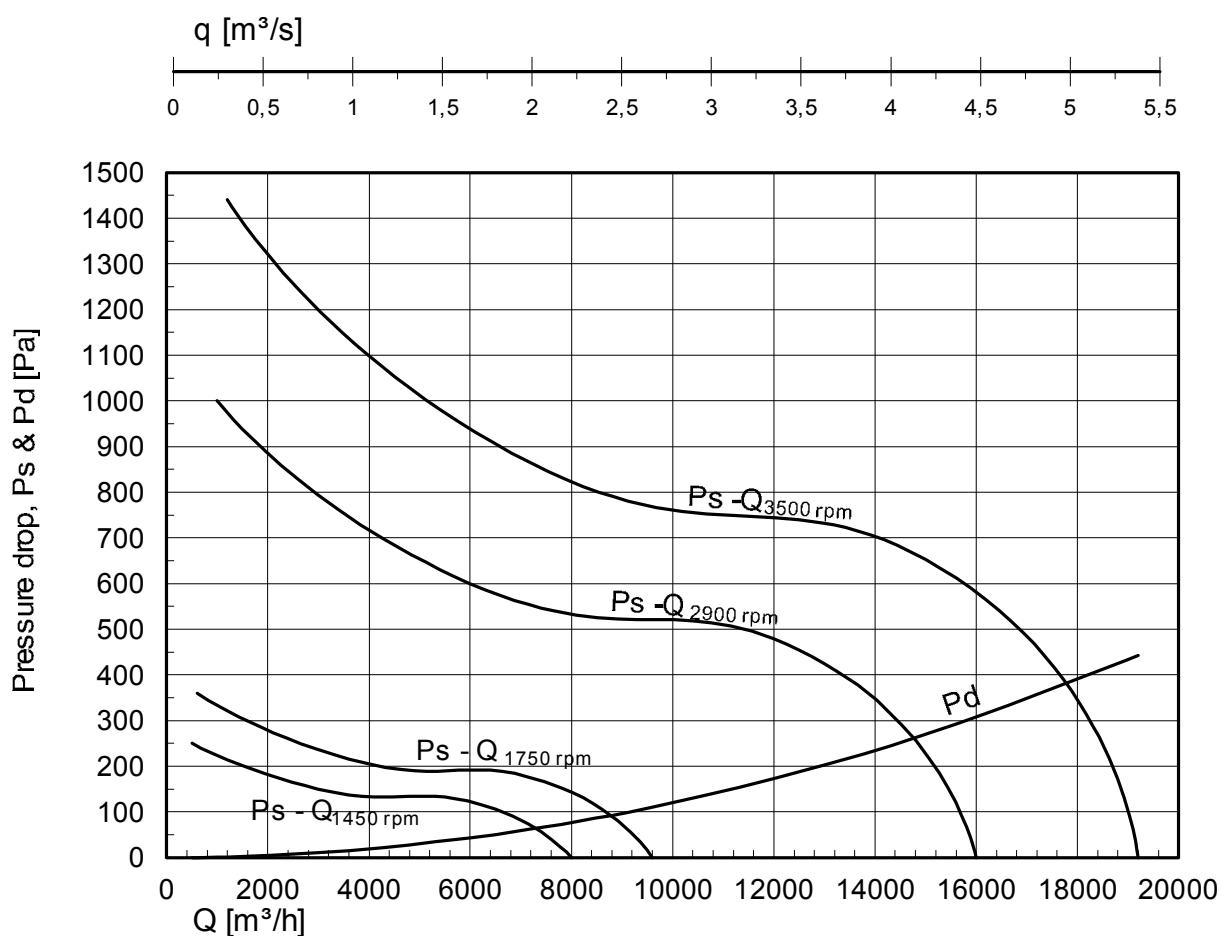
MPV 500 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 500 A

Imp: A7T / 22

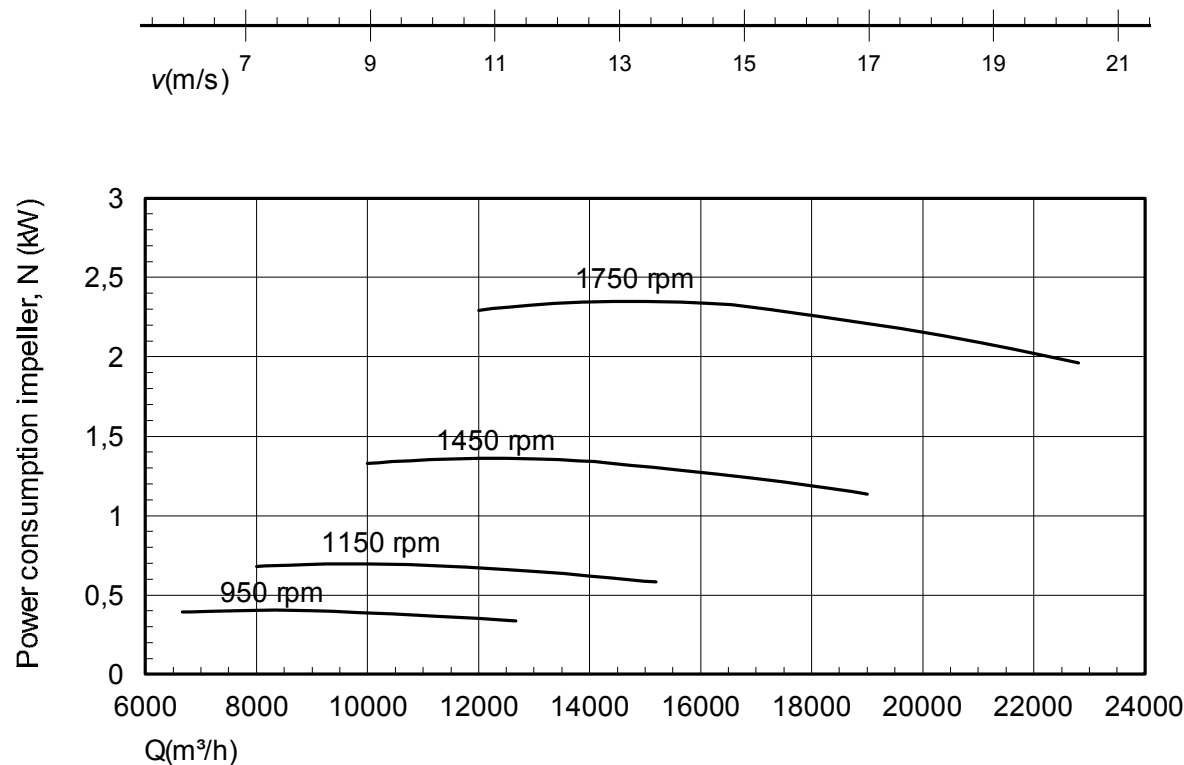
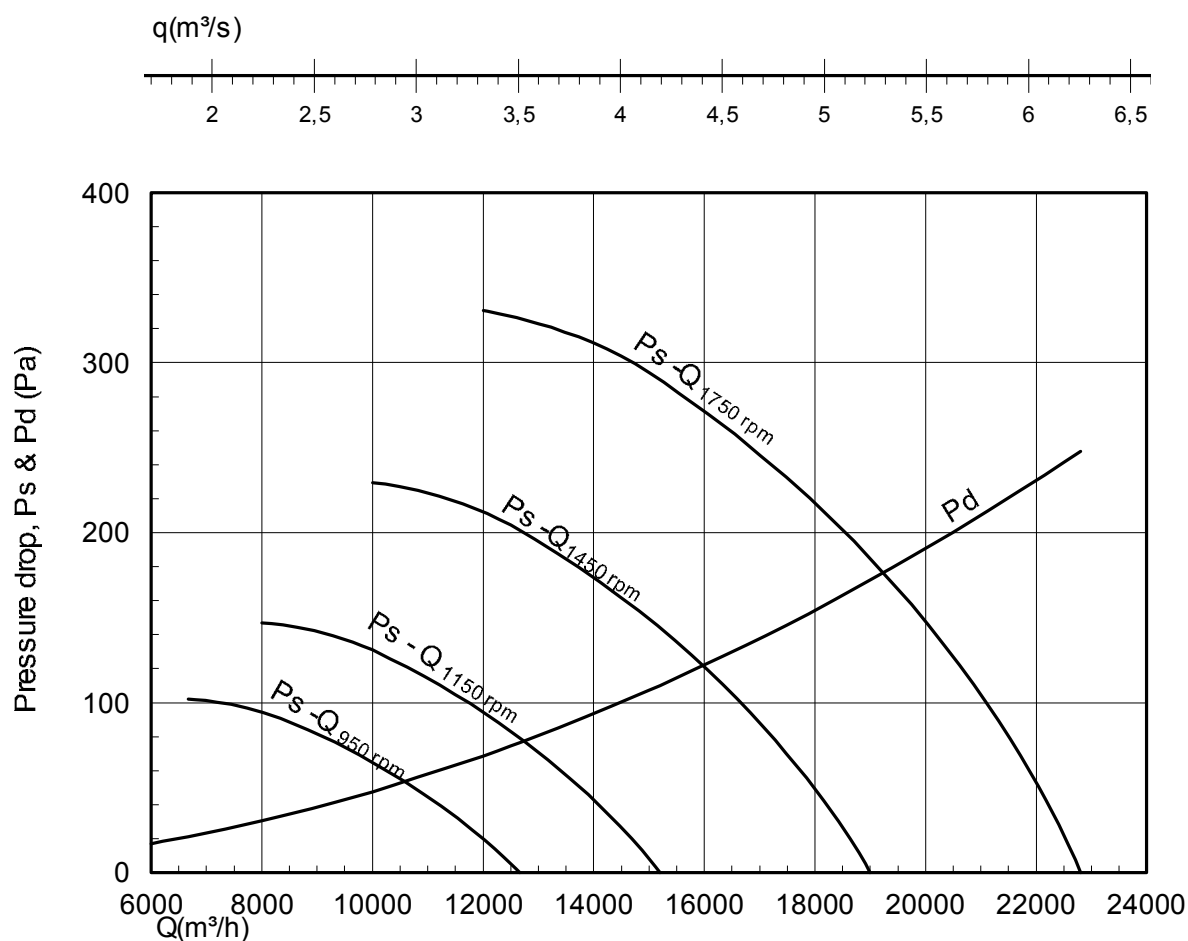




NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 630 A

Imp: A7L / 18



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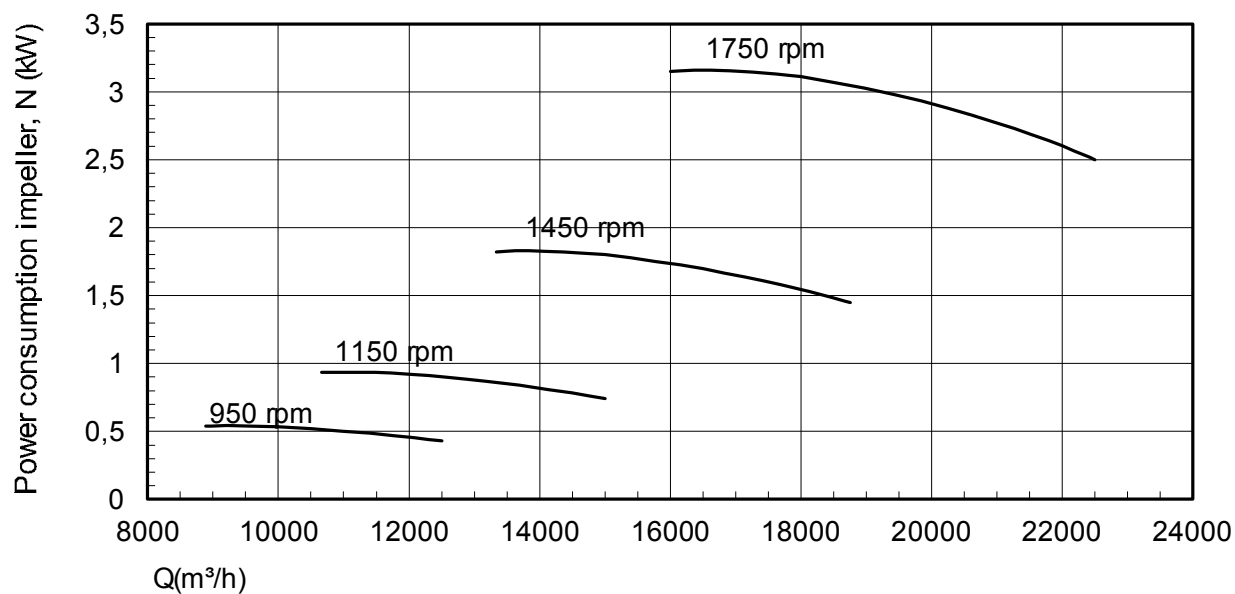
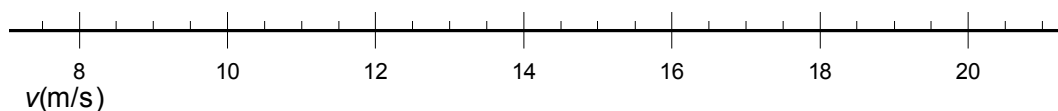
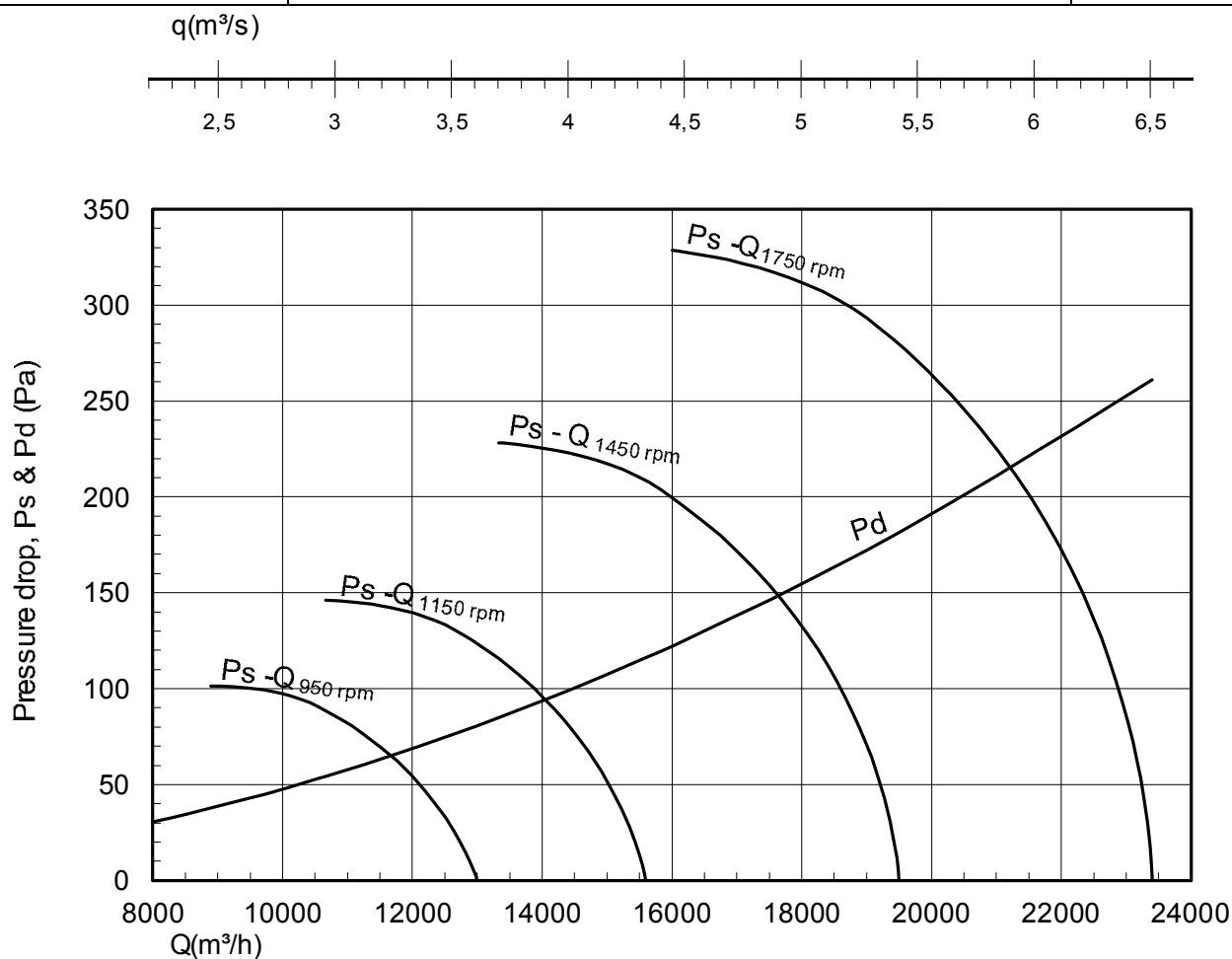
MPV 630 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 630 A

Imp: A7T / 22



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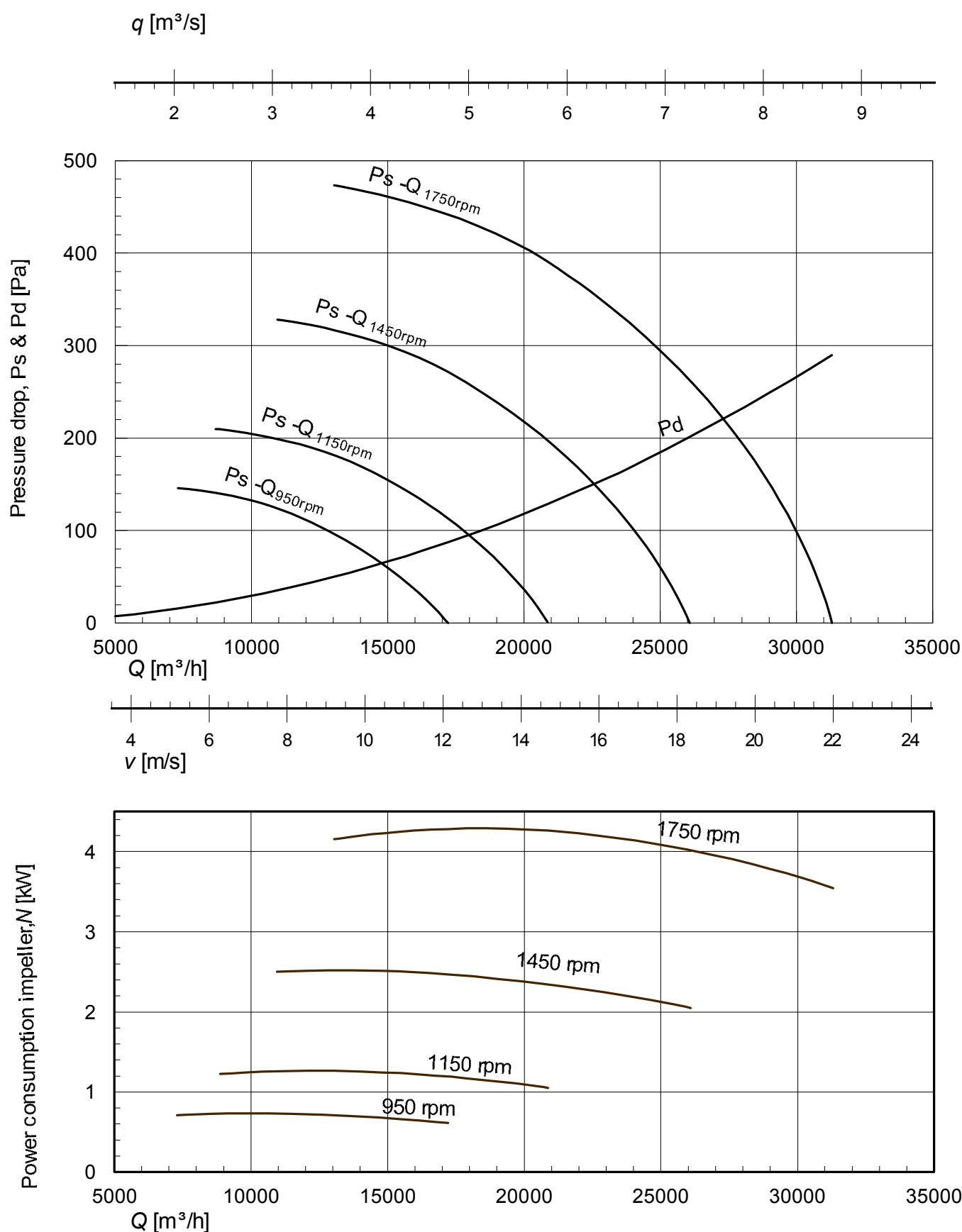
MPV 630 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 710 A

Imp: A7L / 18



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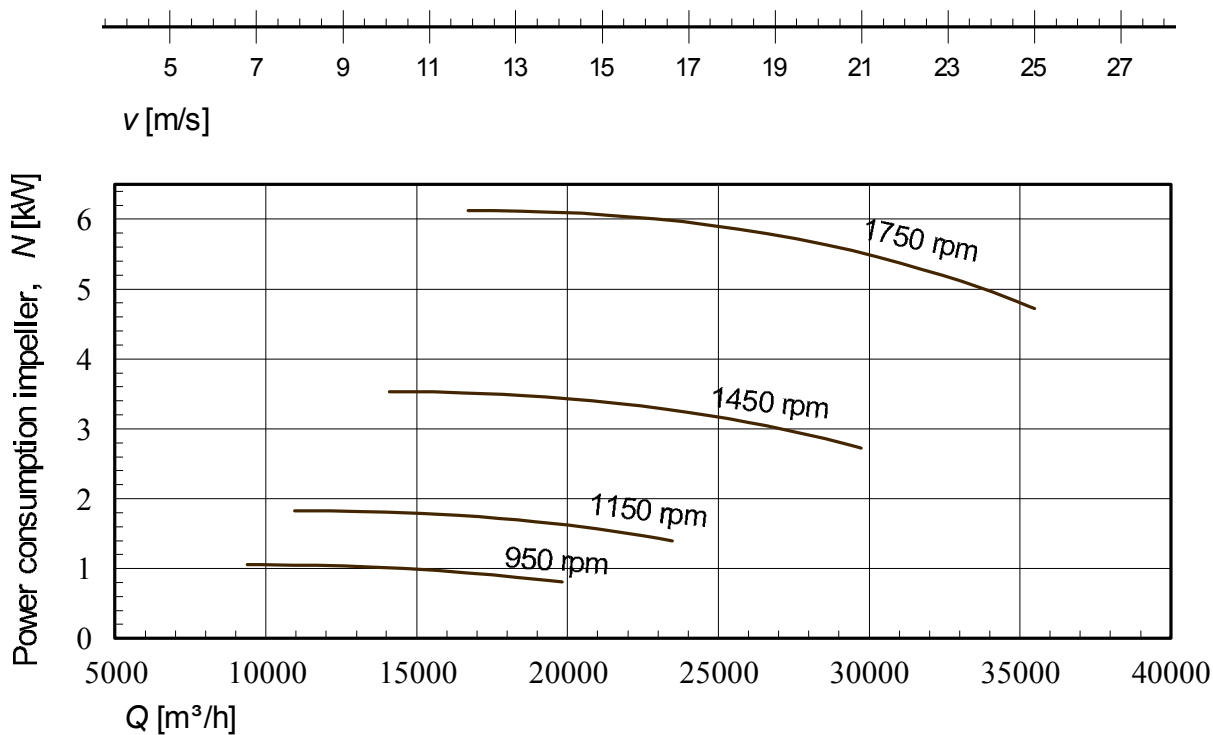
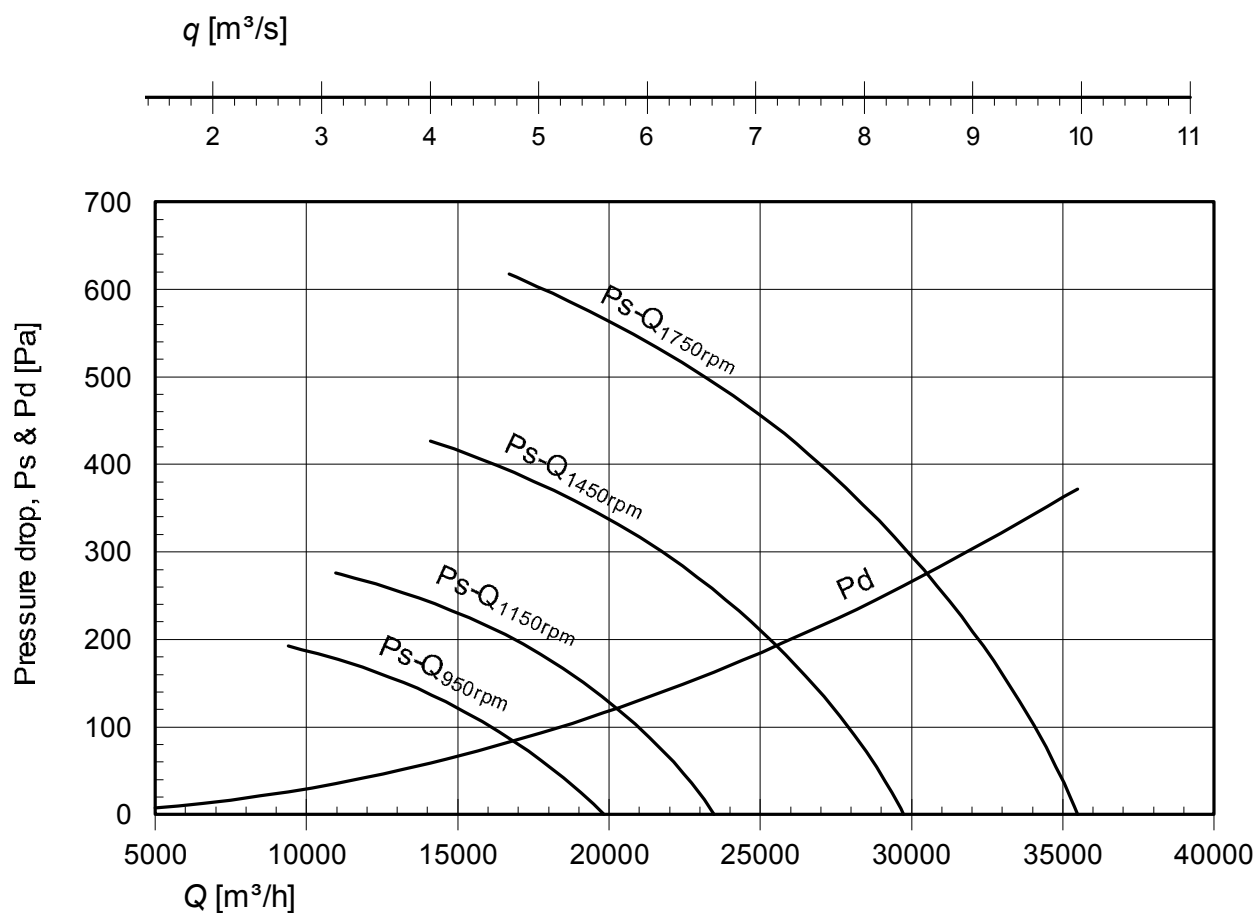
MPV 710 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 710 A

Imp: A7T / 24

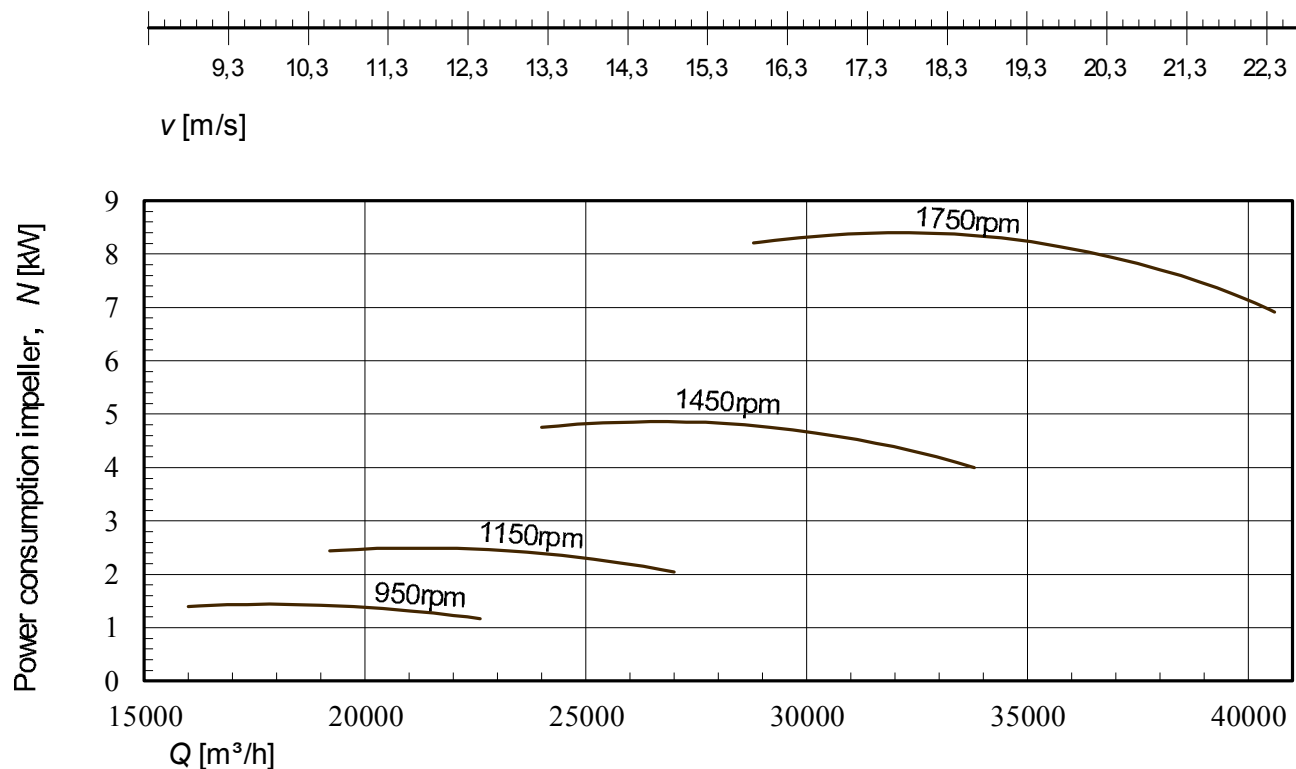
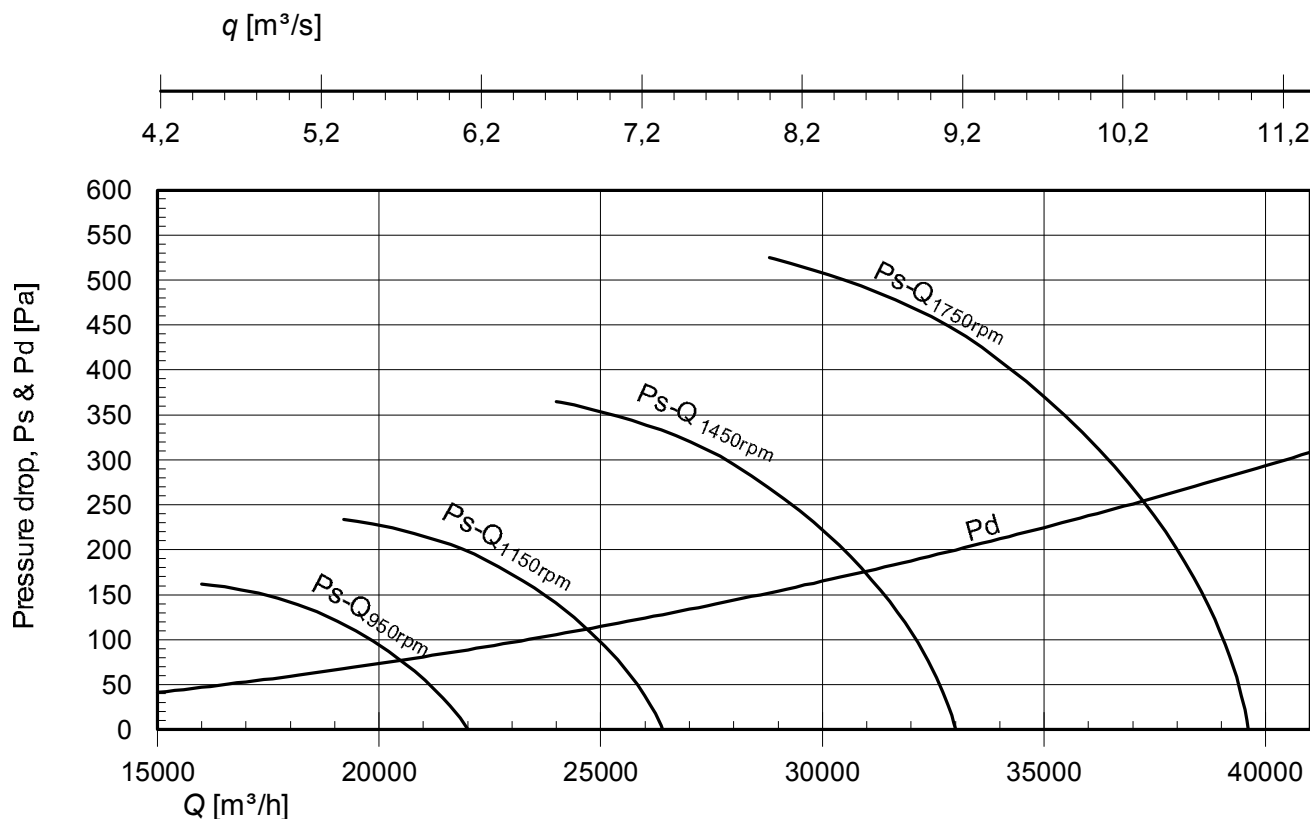




NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 800 A

Imp: A7L / 16



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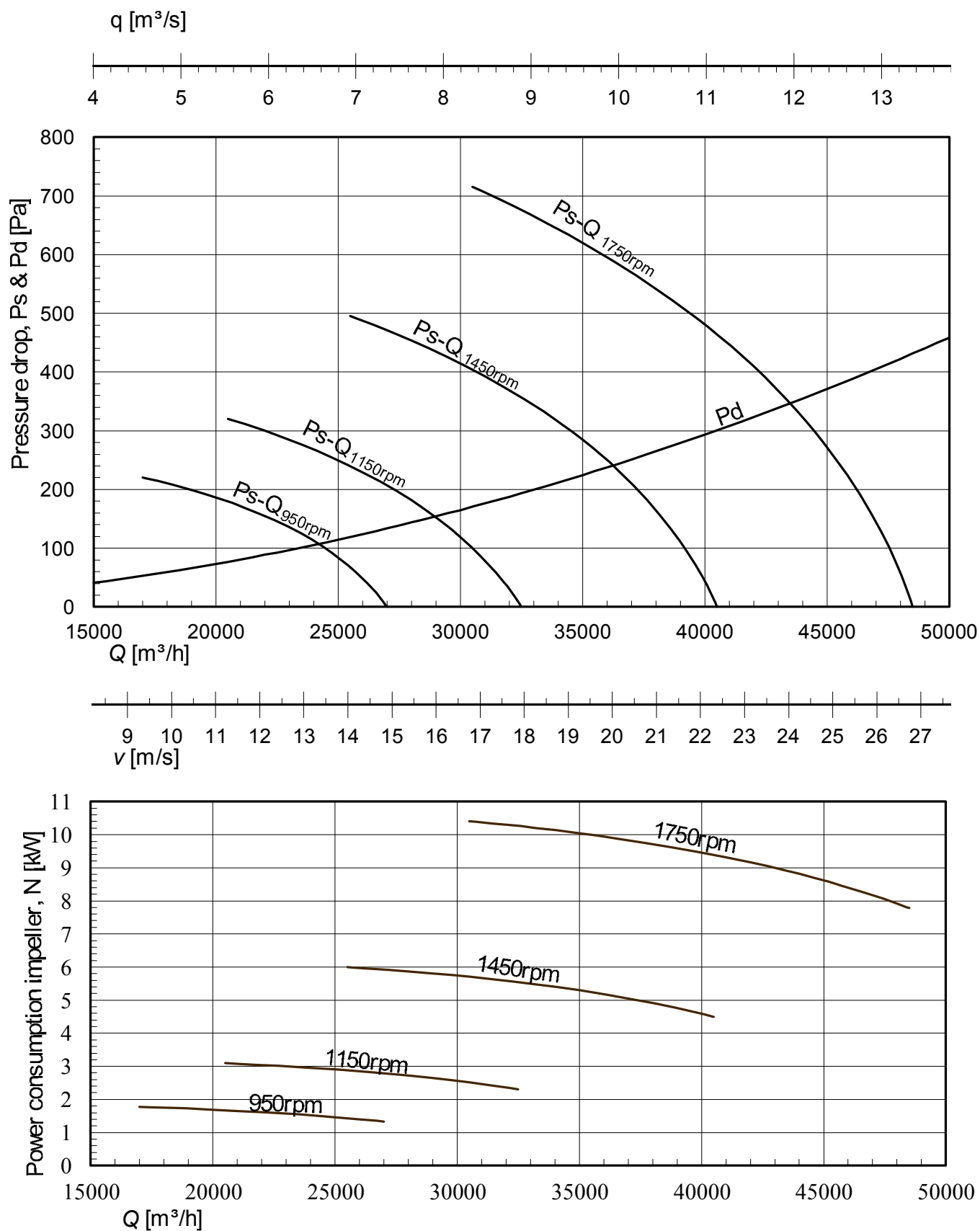
MPV 800 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 800 A

Imp: A7T / 22

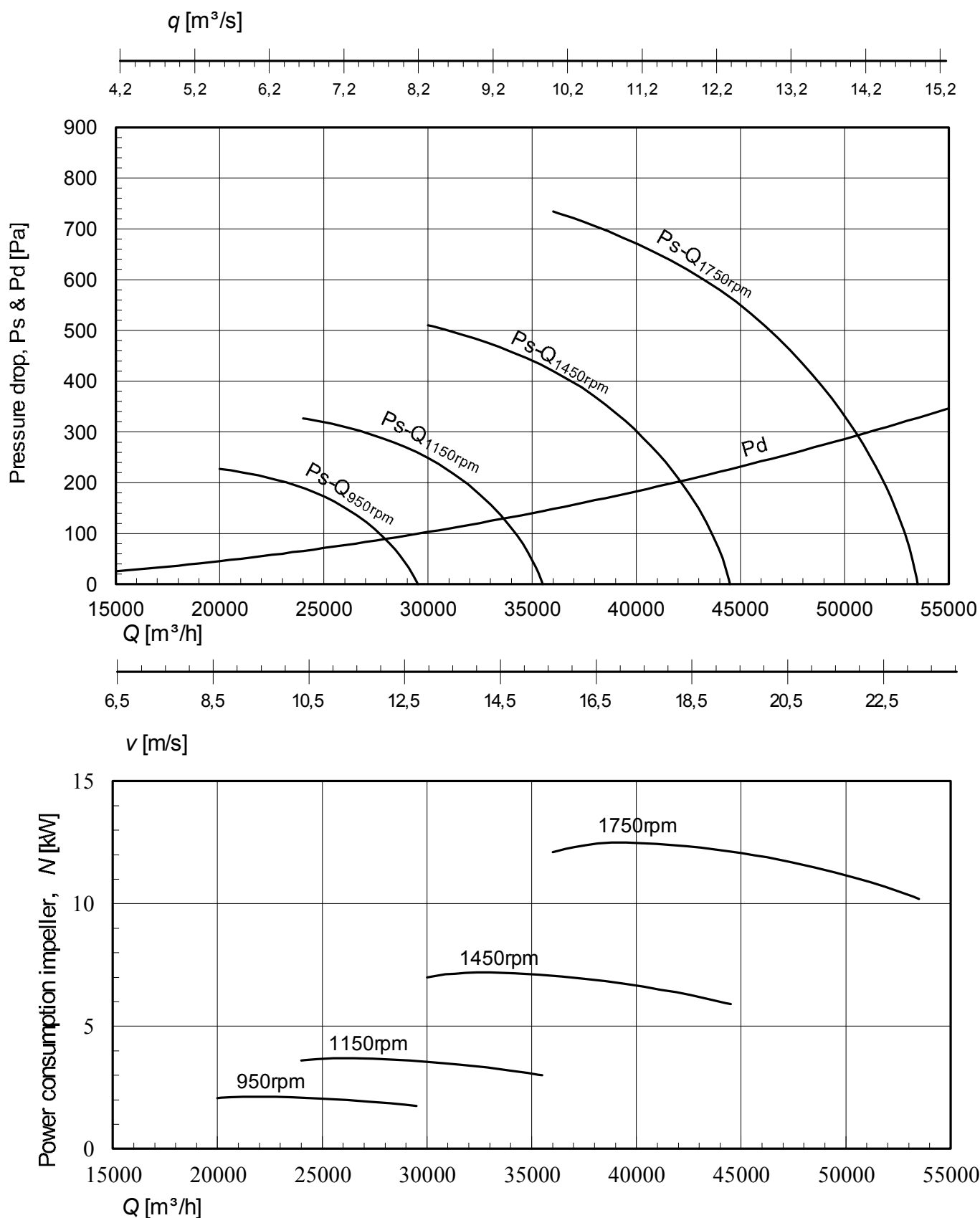




NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 900 A

Imp: A7L / 16



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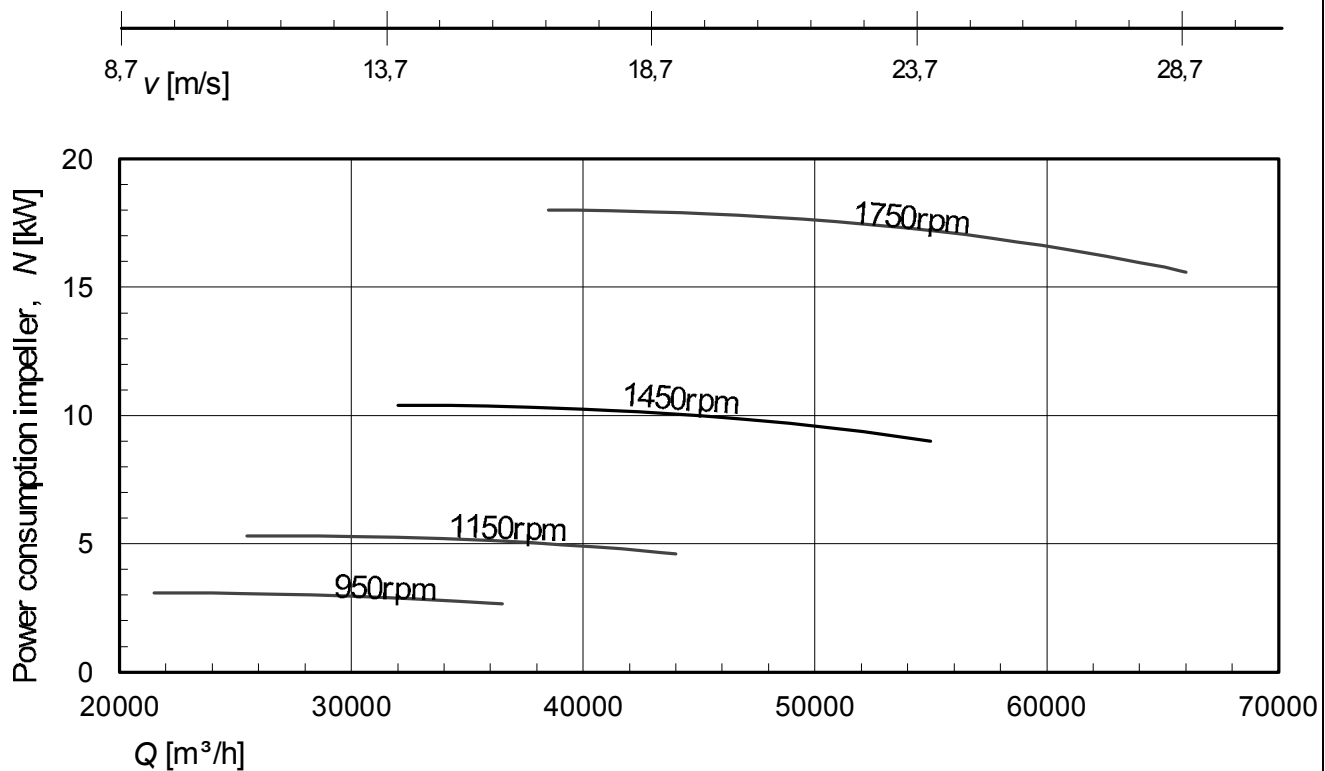
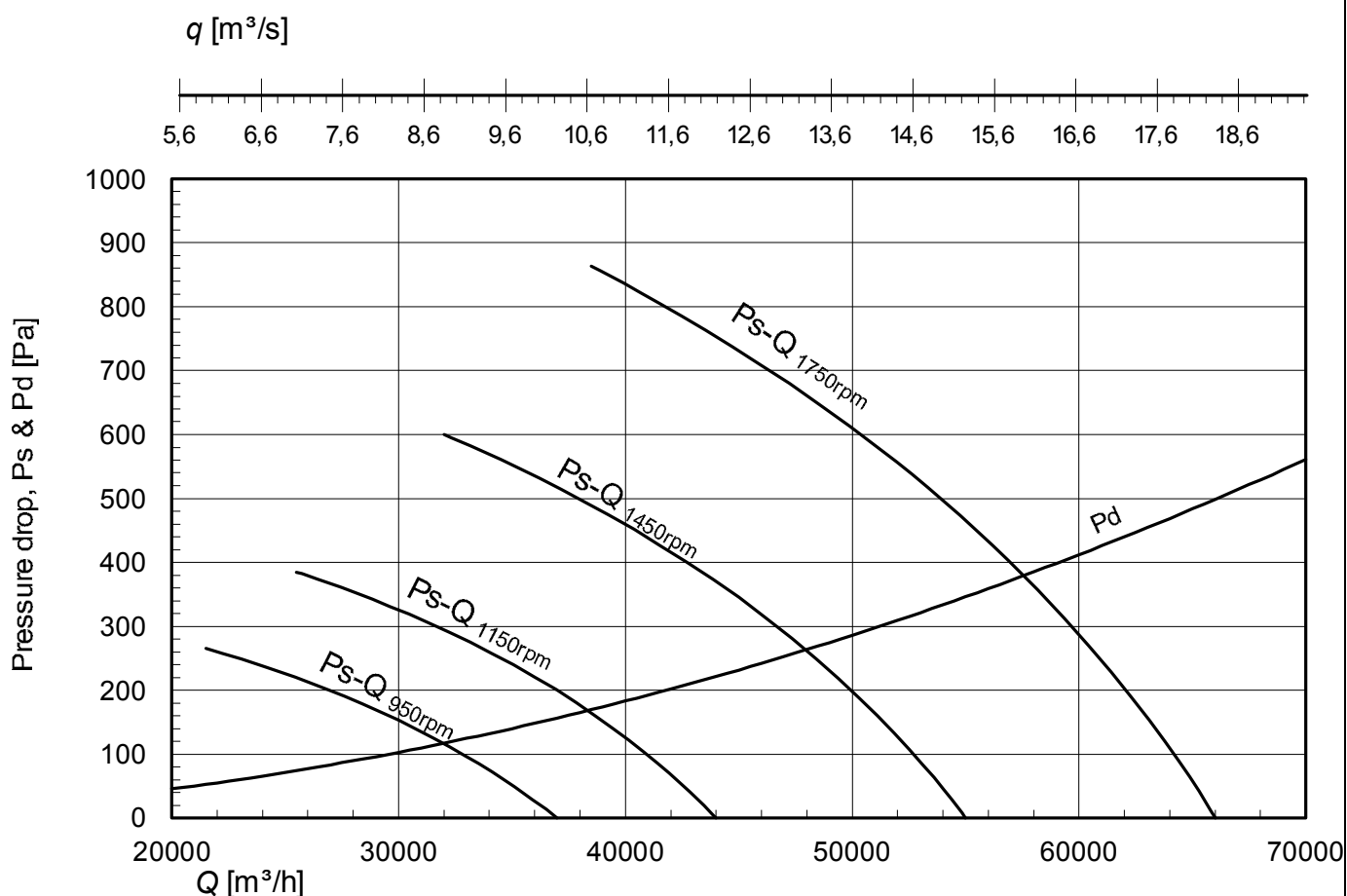
MPV 900 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 900 A

Imp: A7T / 22



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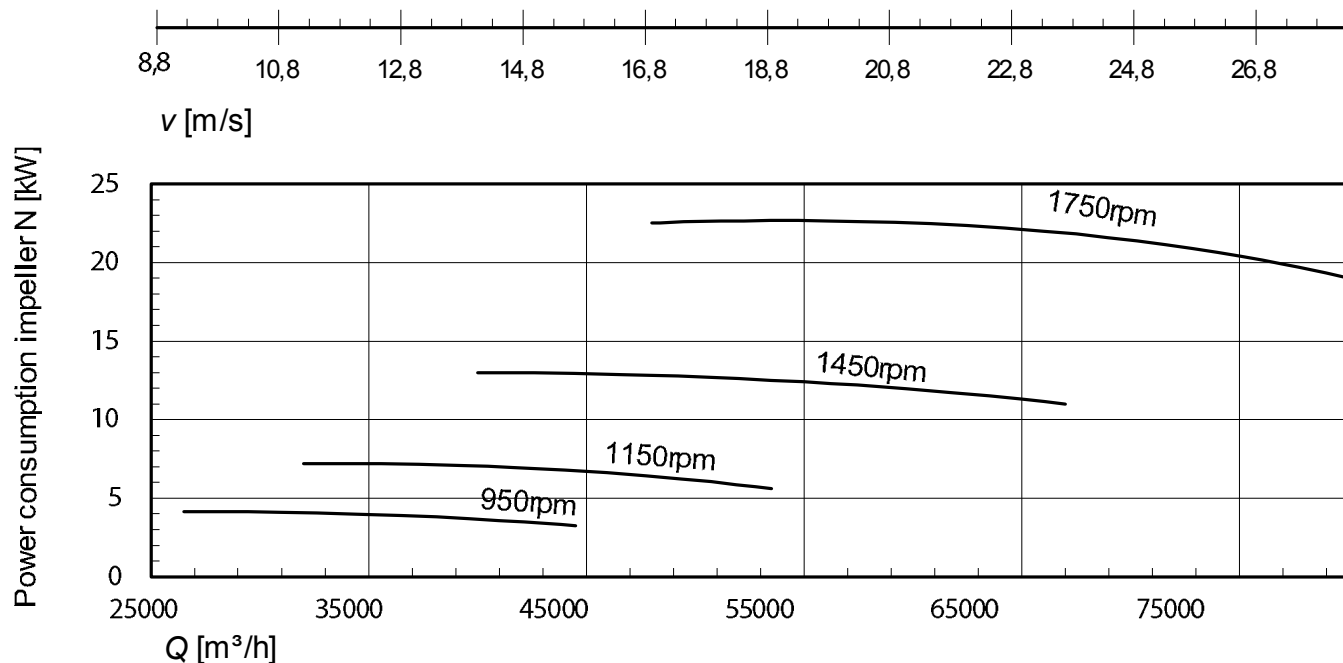
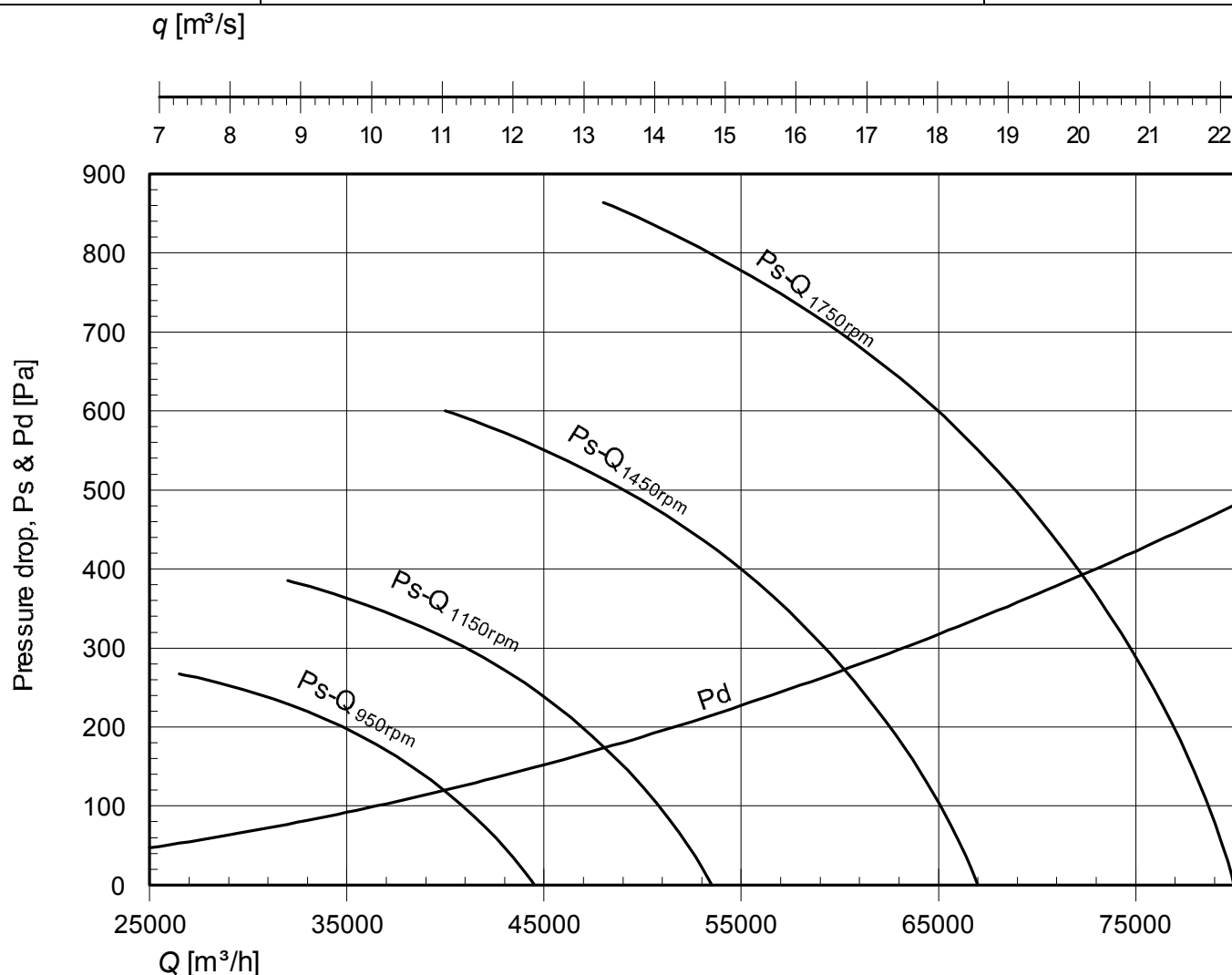
MPV 900 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 1000 A

Imp: A7L / 16



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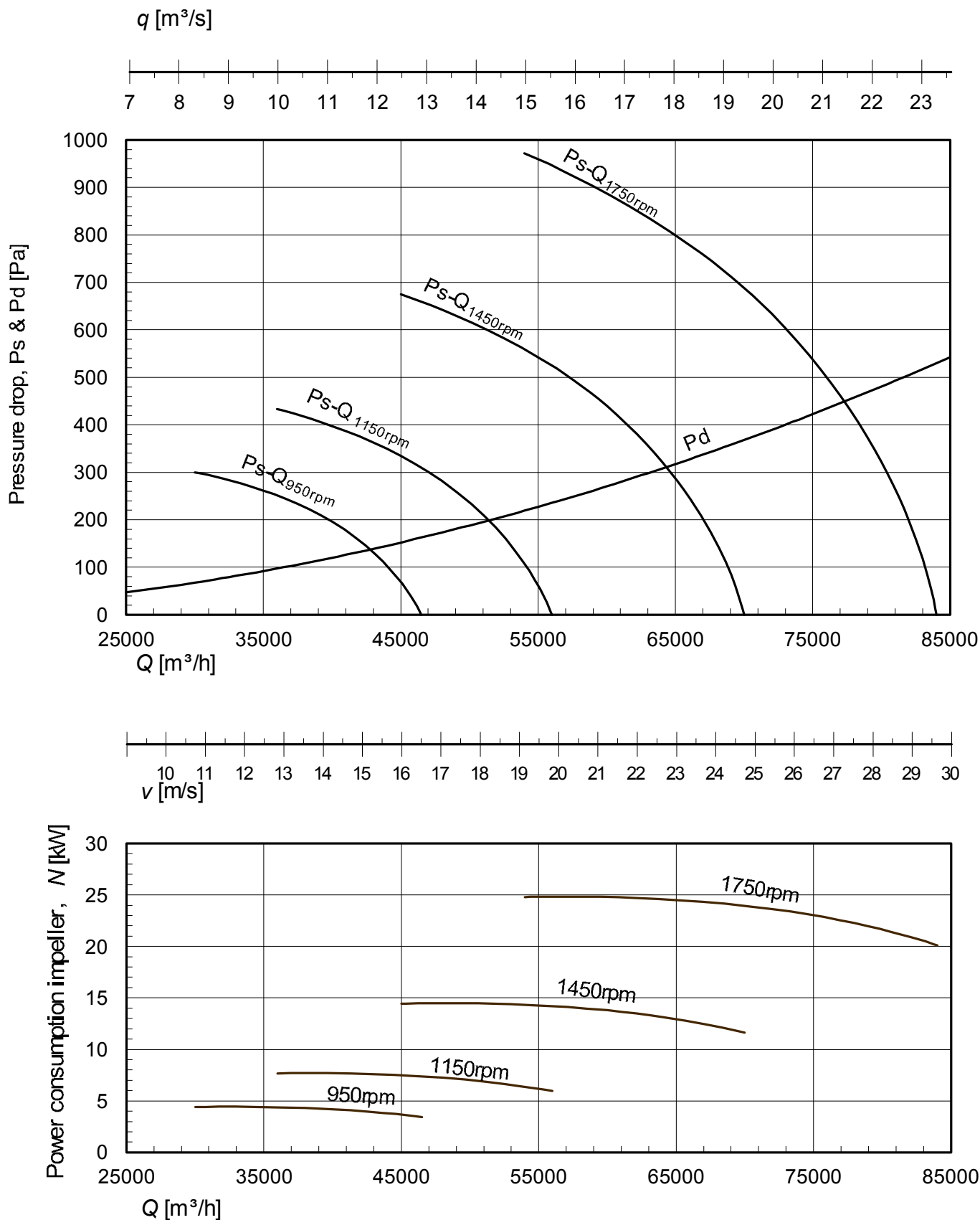
MPV 1000 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 1000 A

Imp: A7T / 21

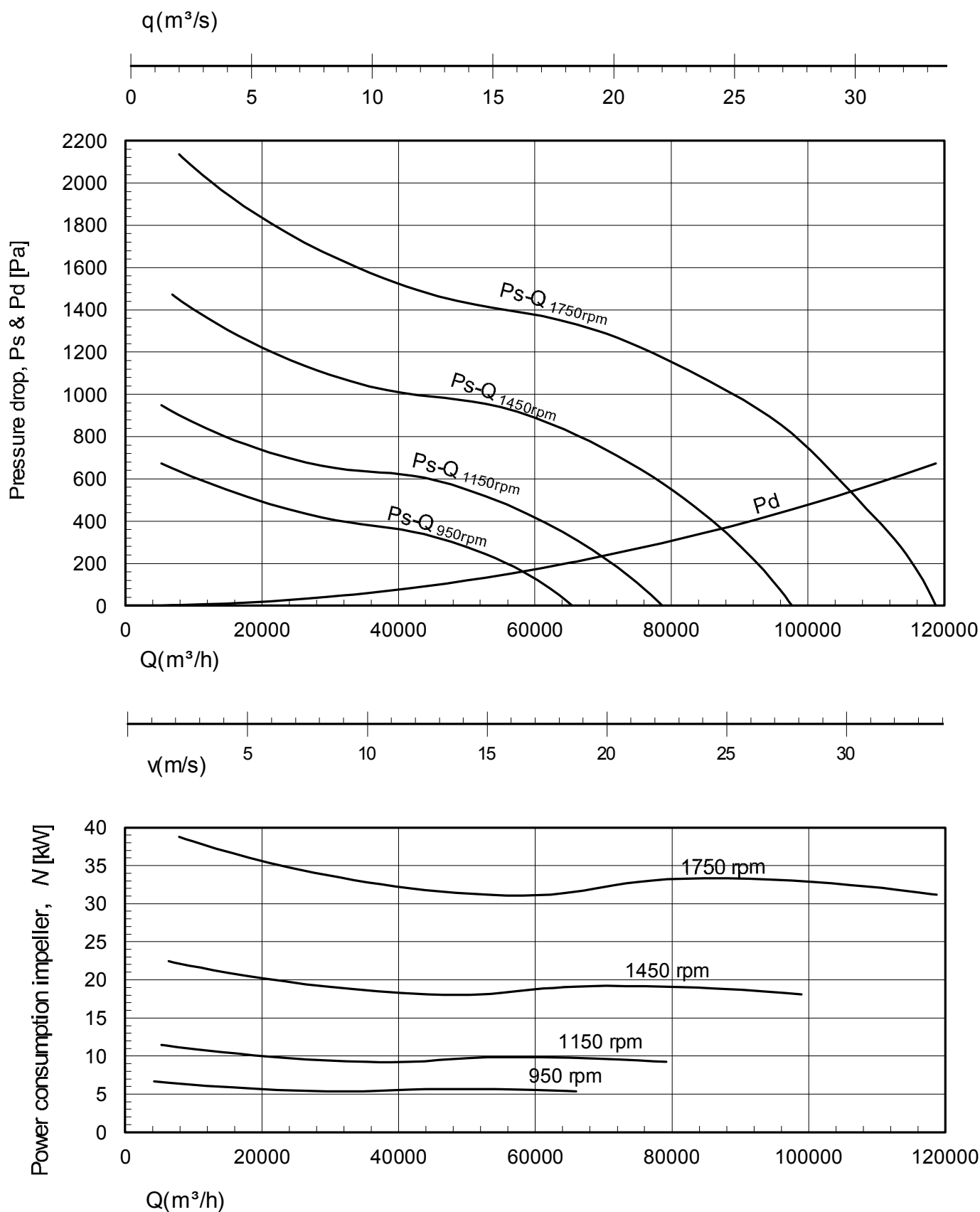




NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 1120 A

Imp: A7L / 16

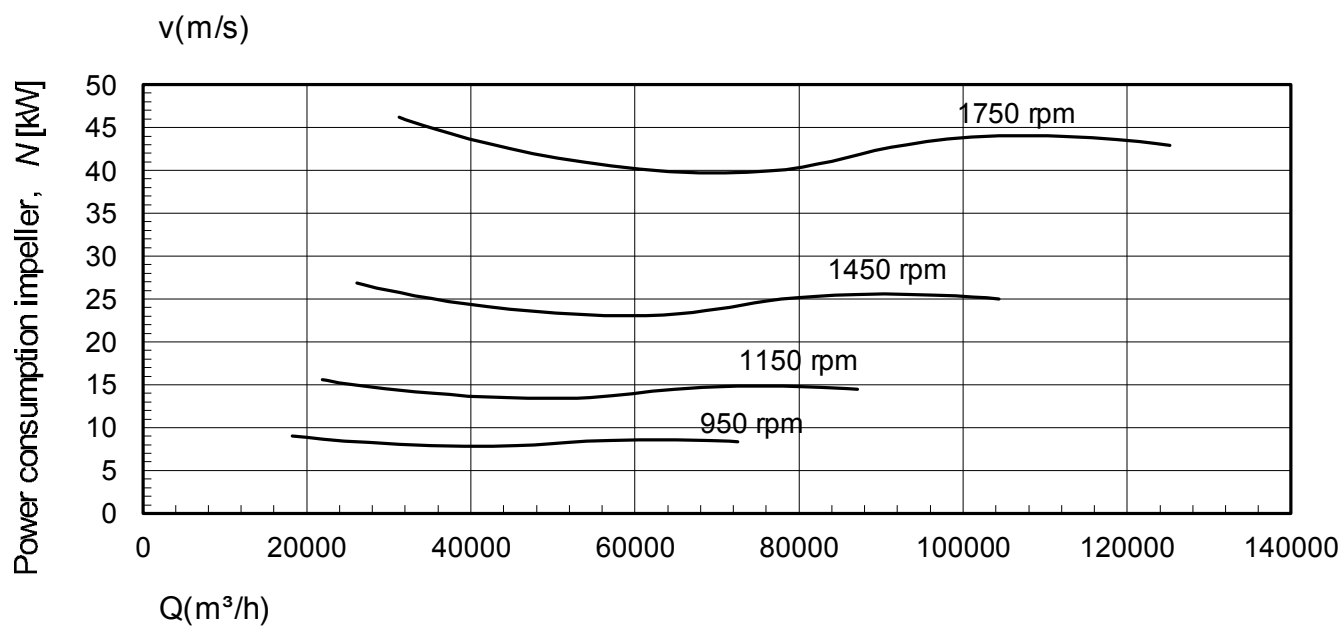
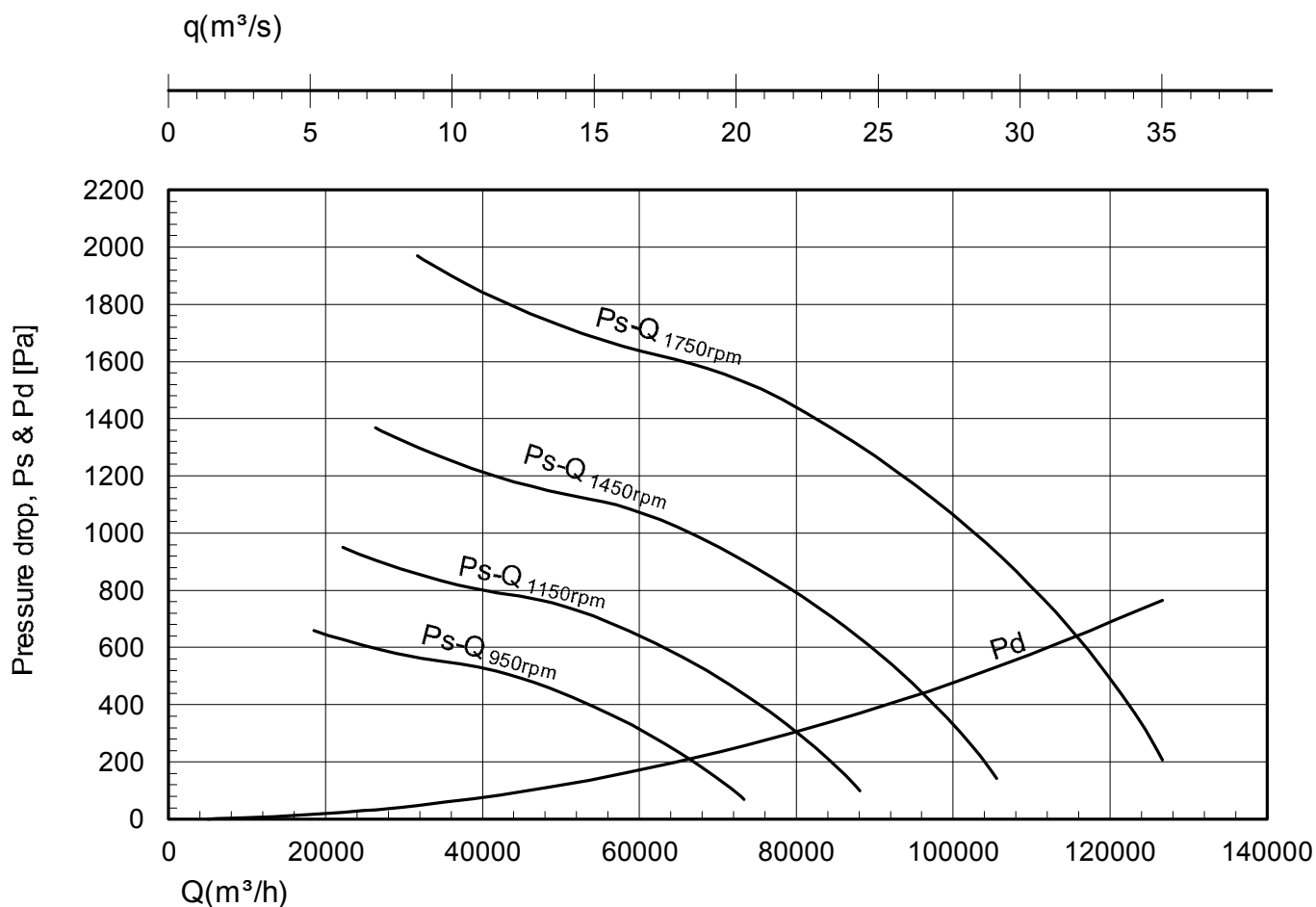




NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 1120 A

Imp: A9T / 21



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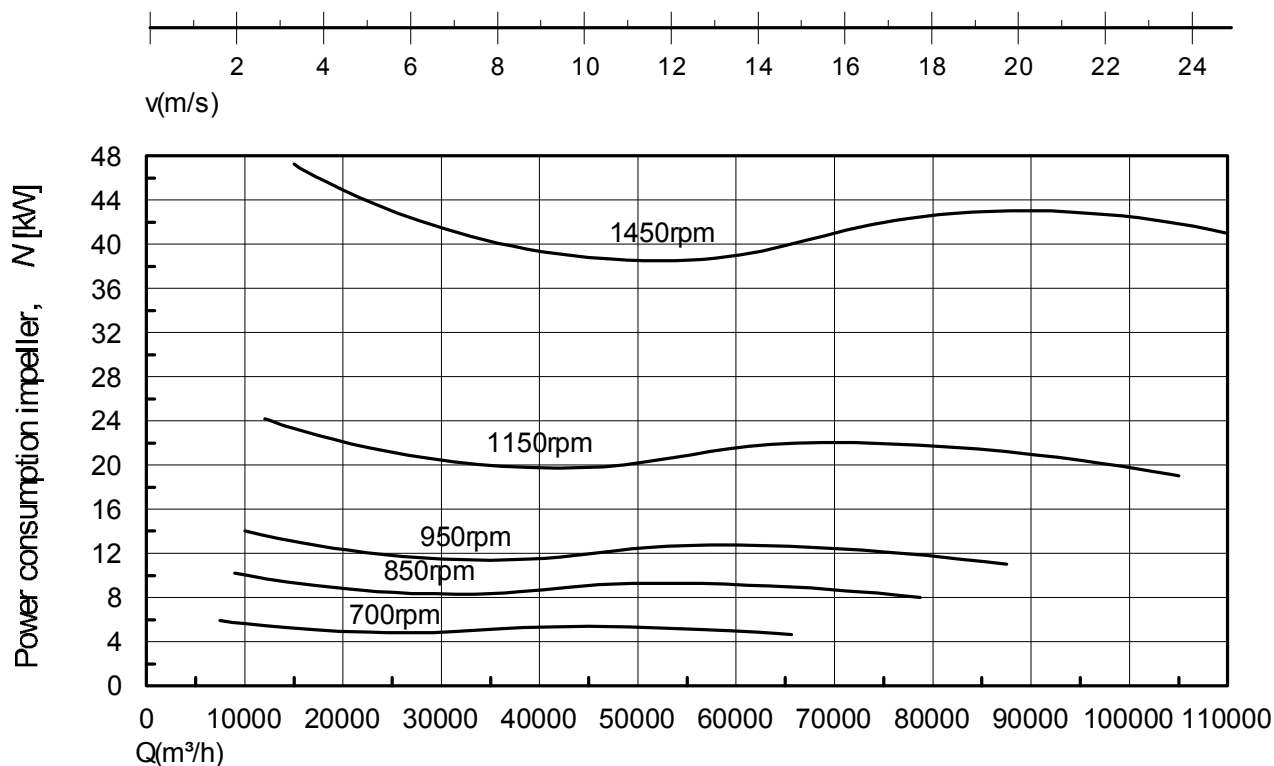
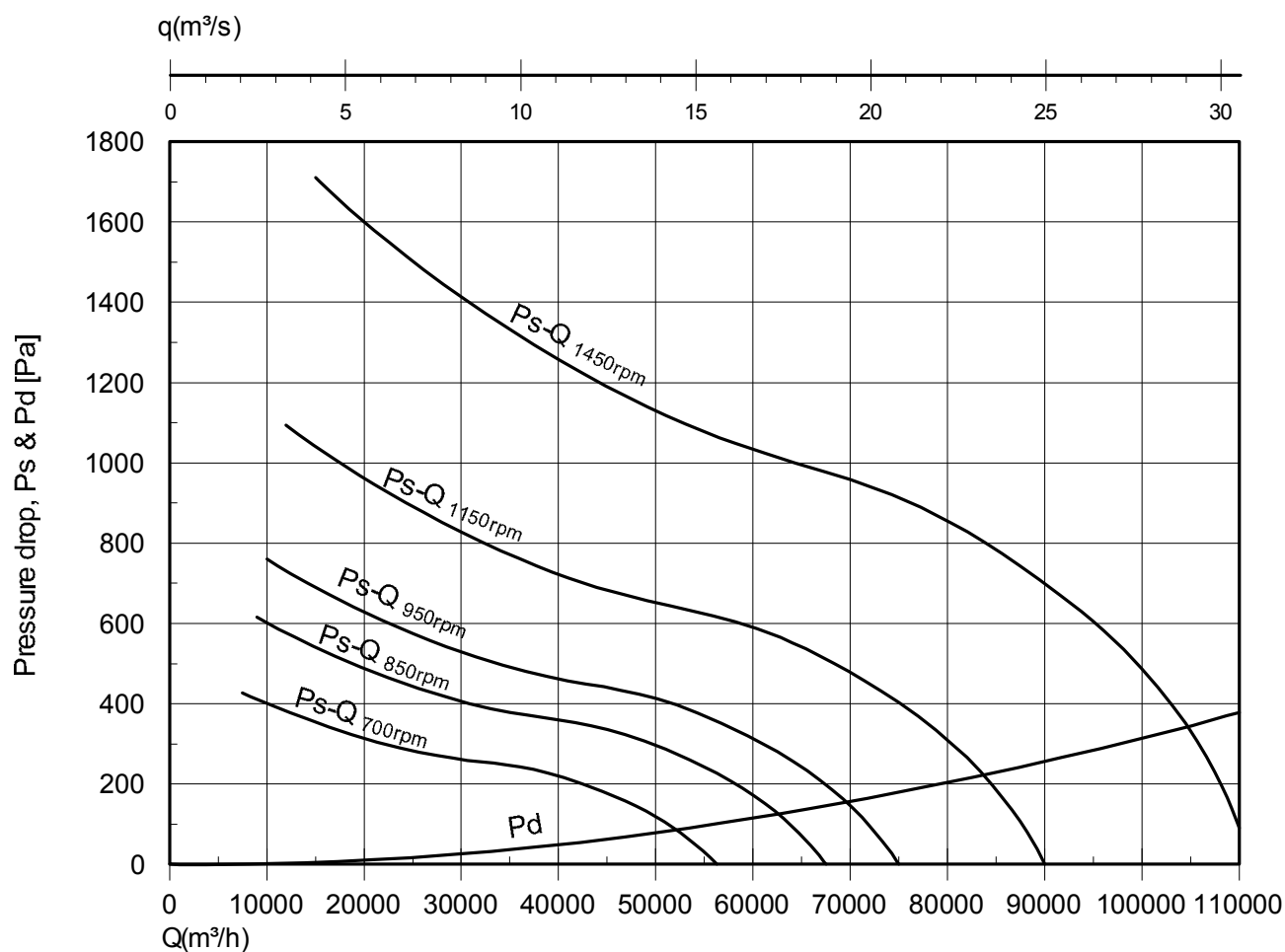
MPV 1120 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 1250 A

Imp: A7L / 16



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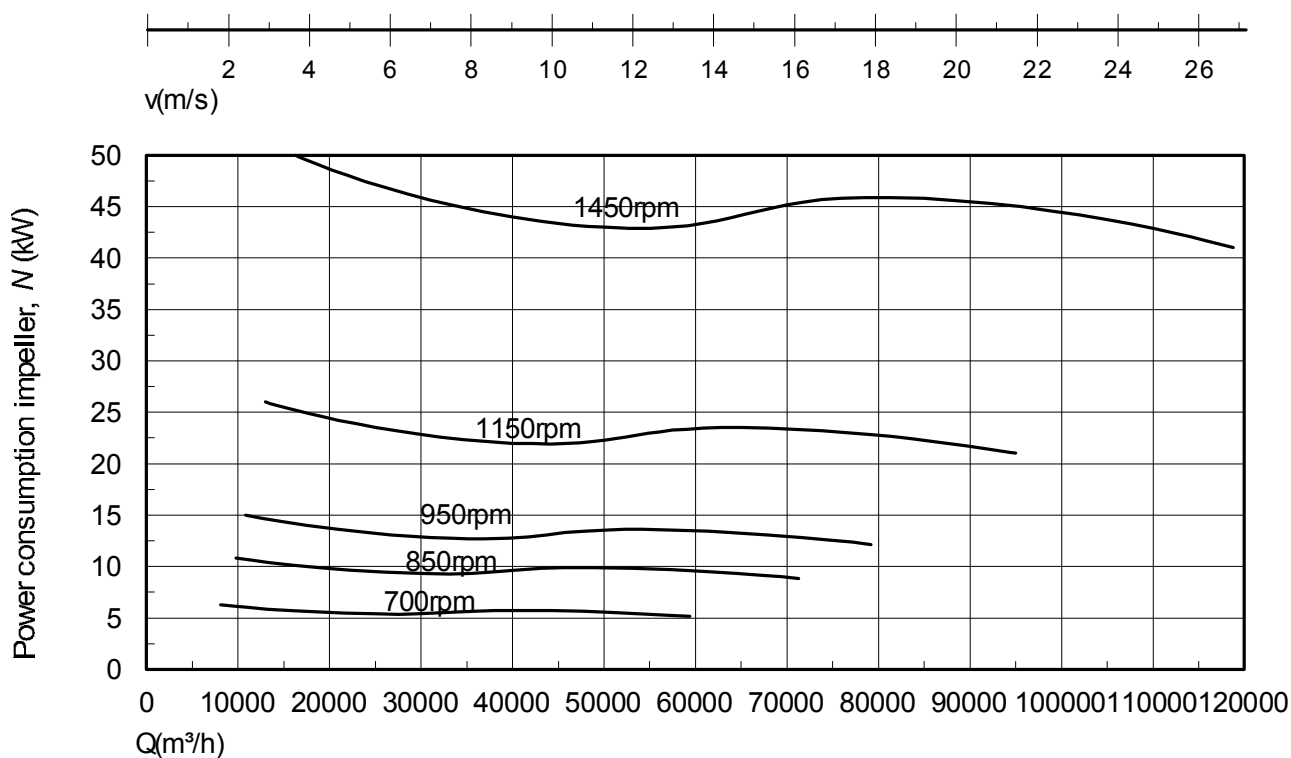
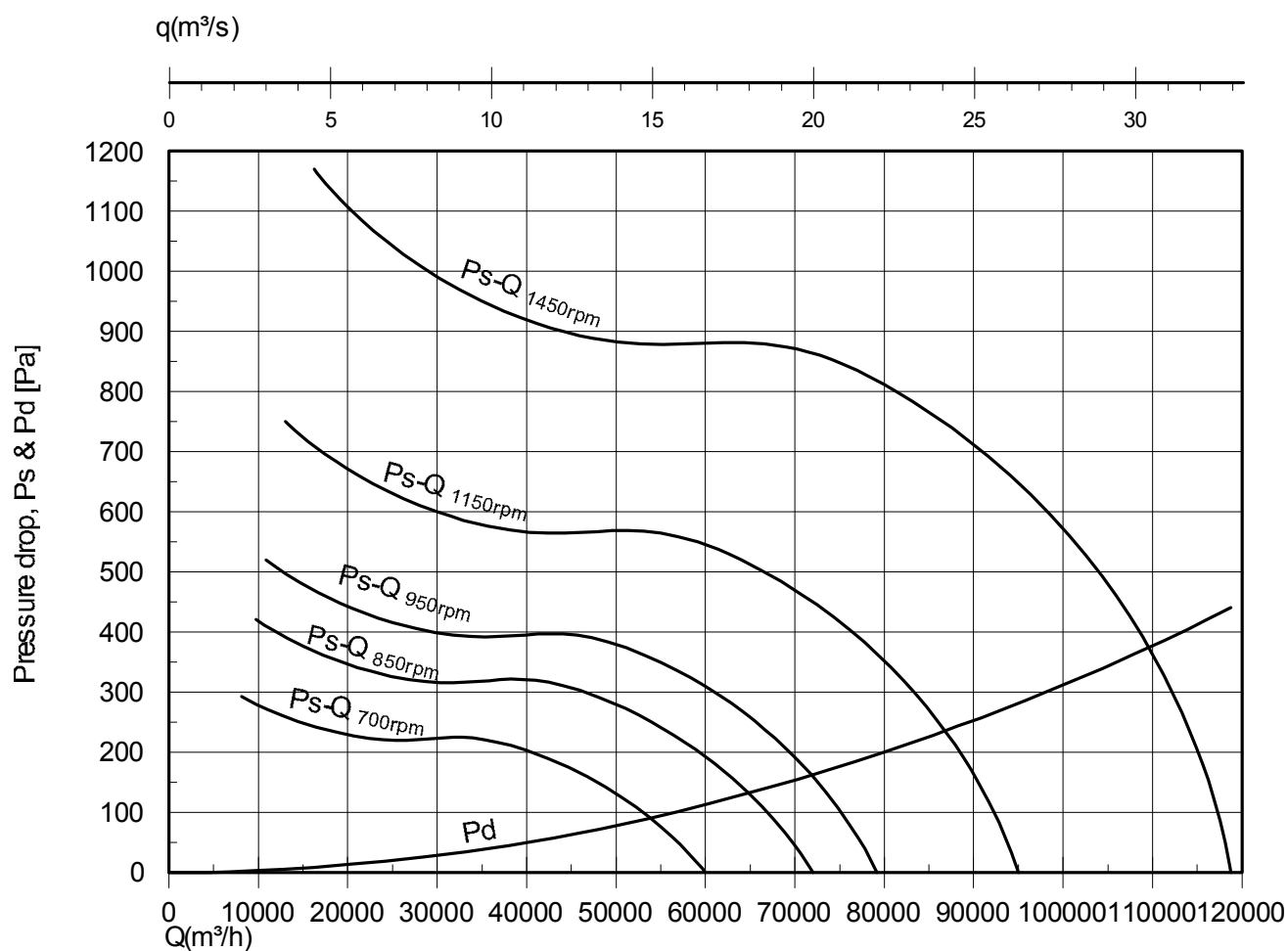
MPV 1250 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 1250 A

Imp: A9T / 21



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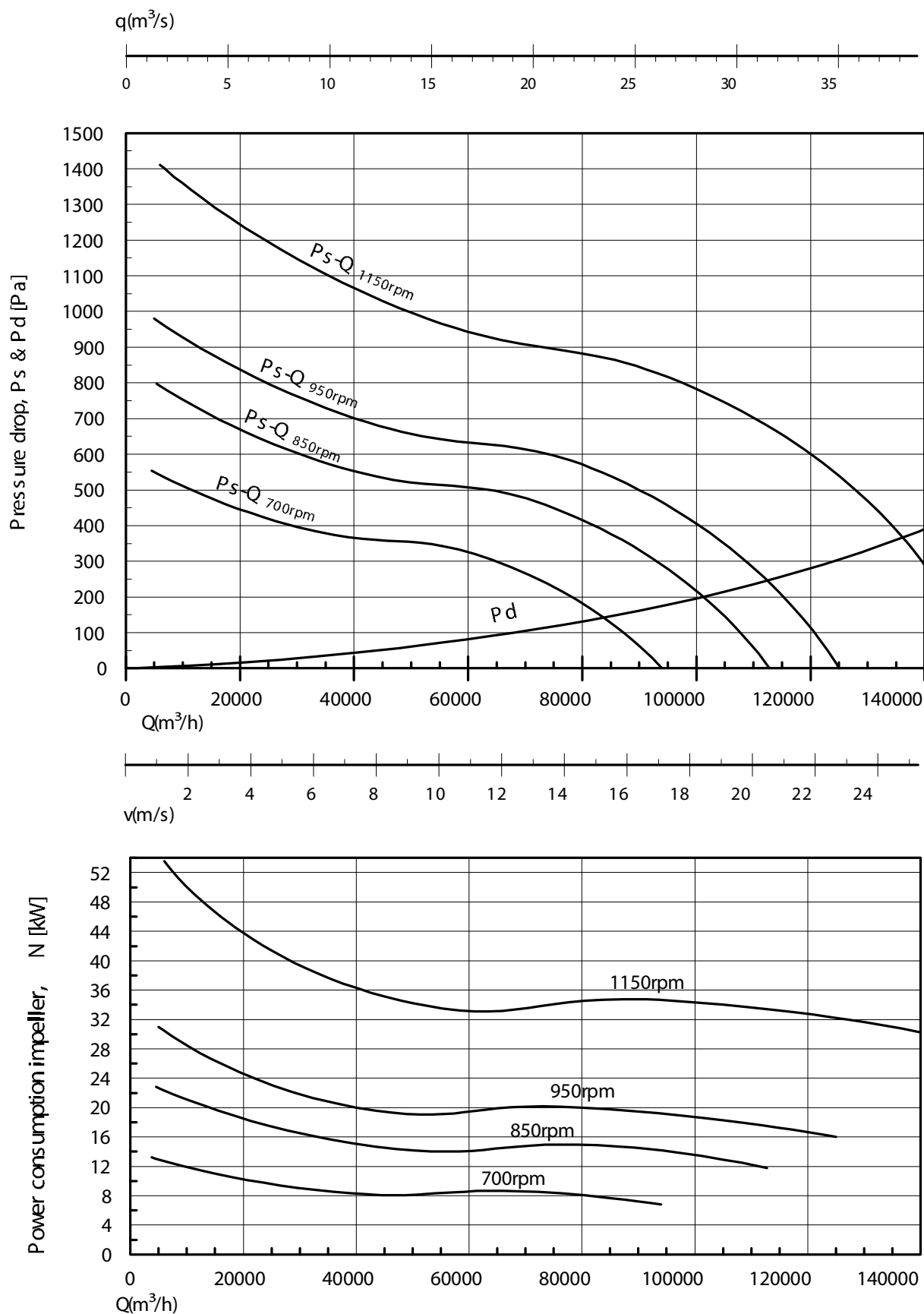
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MPV 1250 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 1400 A
Imp: A9T / 22



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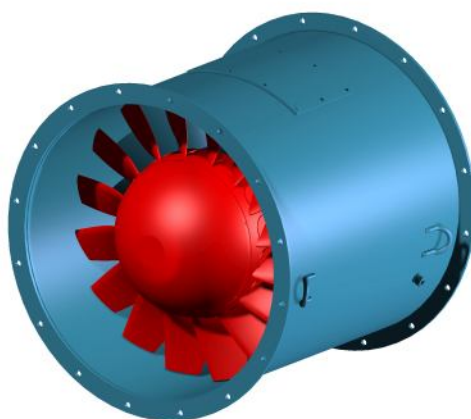
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MPV 1400 A

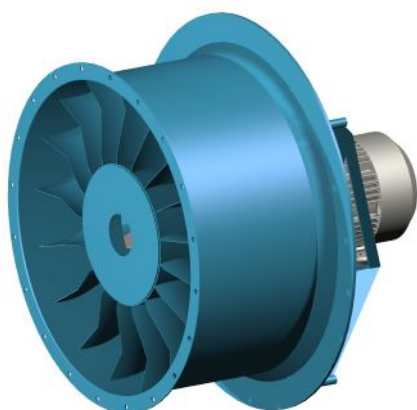


VANEAXIAL FANS

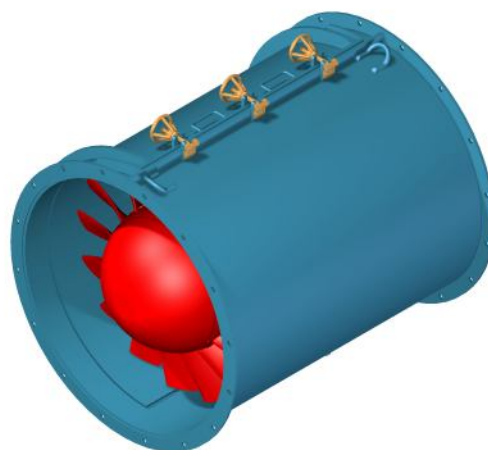
MPV - D1K
WOMR - 025K ÷ 050K
WOM - 63 ÷ 160



MPV - D1E



MPV - D1M
WOMB - 040K ÷ 050K
WOM(O) - 63 ÷ 160



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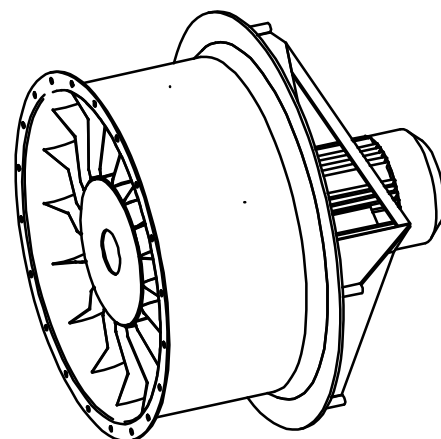
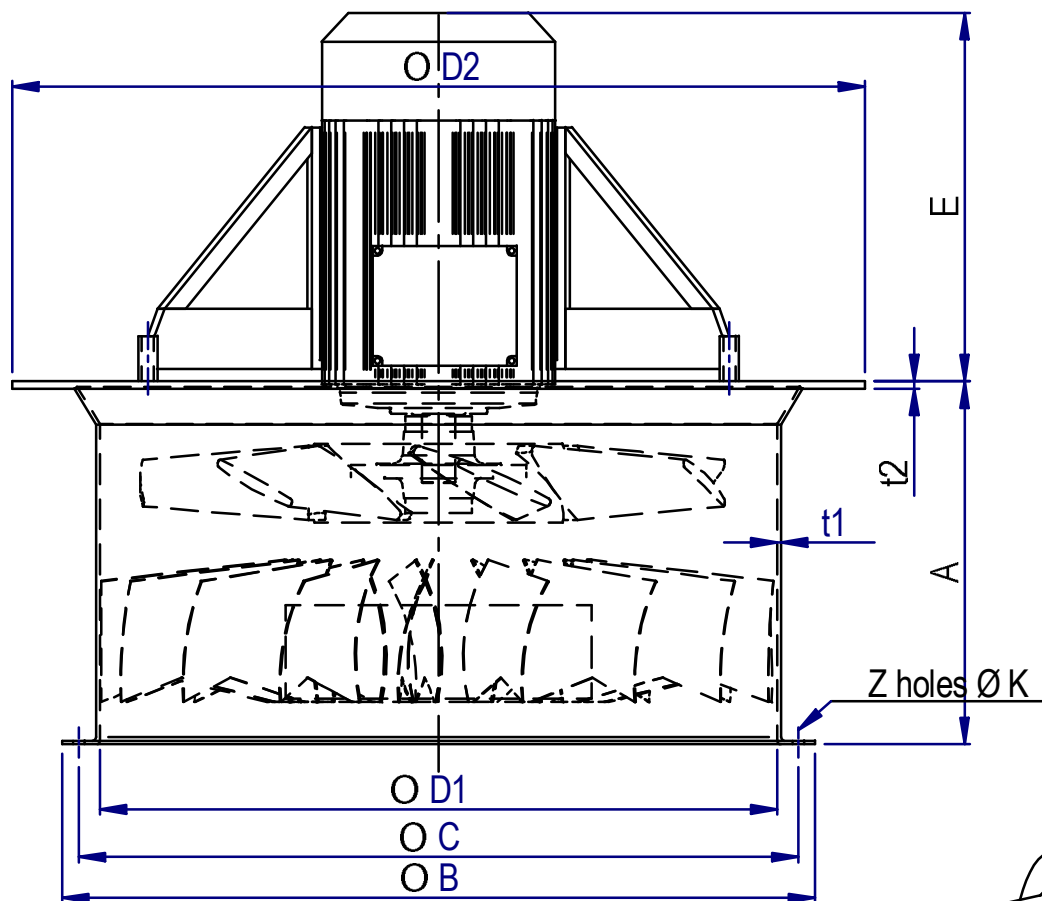


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NYBORG VANEAXIAL FAN Type "E"

MPV - D1E



MPV	A	B	C	D1	D2	E	t1	t2	Z x K
250		337	310	250	280		3	6	8x12
315		387	360	315	430		3	6	8x14
355		442	405	355	485		3	6	8x14
400		492	460	400	530		4	6	12x14
450		542	510	450	595		4	6	12x14
500		592	560	500	660		4	6	12x14
630		741	698	630	820		4	8	16x14
710		816	775	710	900		4	8	16x14
800		911	870	800	990		4	8	16x19
900		1028	980	900	1110		5	8	16x19
1000		1120	1080	1000	1275		6	8	20x19
1120		1248	1200	1120	1405		6	10	20x19

4-2234

17/12-02

R.Berge



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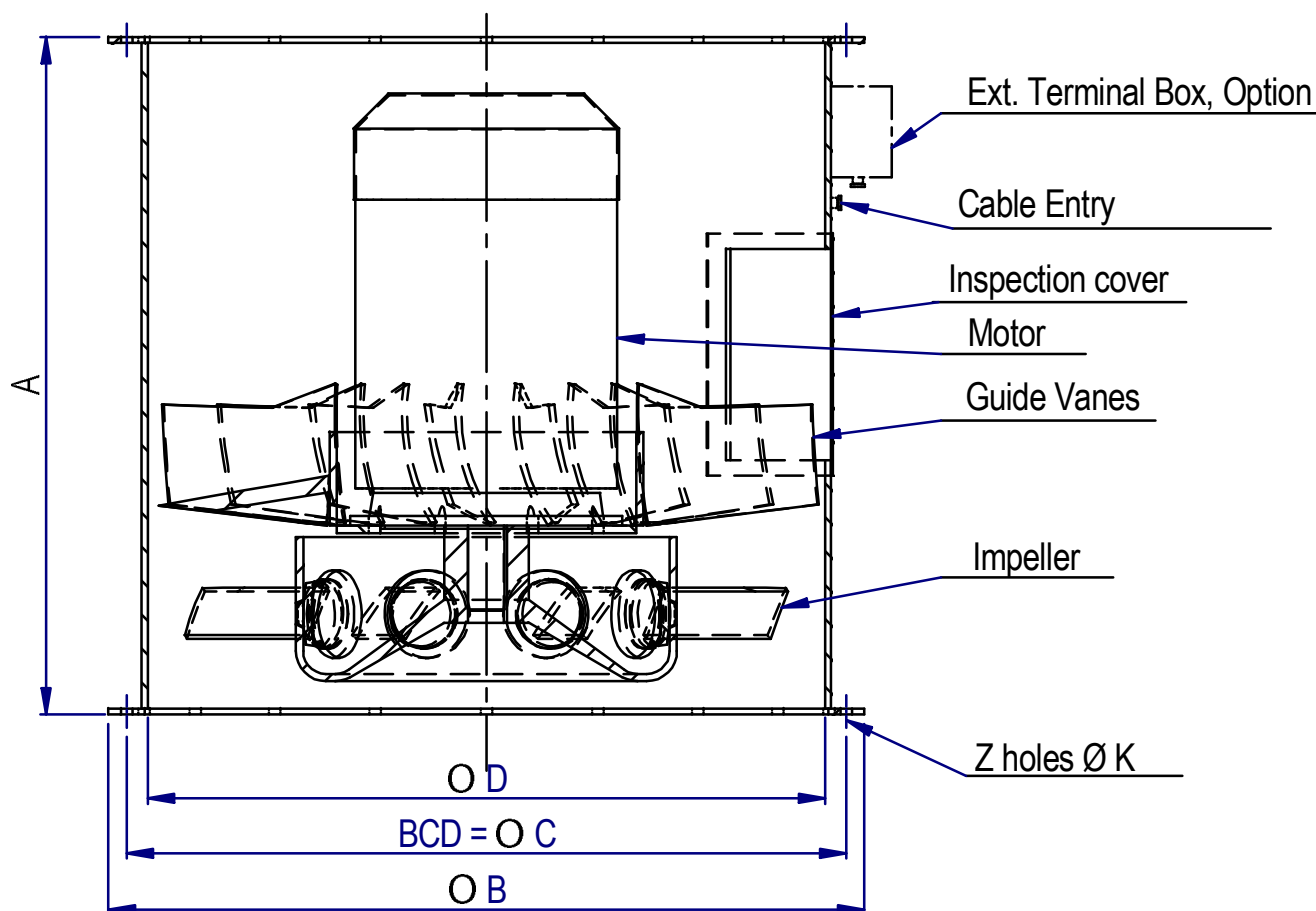
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MPV - D1E

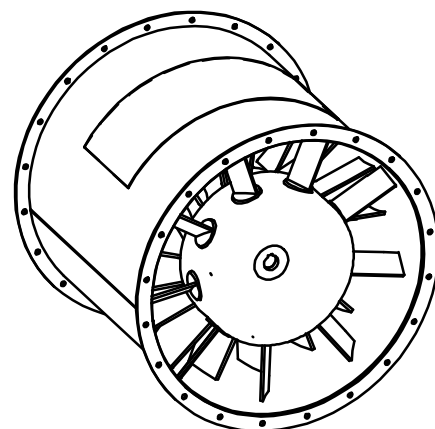


NYBORG VANEAXIAL FAN Type "K"

MPV - D1K



MPV	A	B	C	D	T	Z x K	Weight [kg] excl. motor
250	400	334	310	250	3	8x12	22
315	350	400	360	315	3	8x14	25
355	455	440	405	355	3	8x14	46
400	410	484	460	400	3 (10)	12x14	52 (65)
500	600	584	560	500	3	12x14	80
630	510	736	698	630	4 (10)	16x14	81 (132)
710	660	806	775	710	4 (10)	16x14	126 (202)
800	720	906	870	800	4 (10)	16x19	146 (236)
900	970	1028	980	900	5 (10)	16x19	230 (336)
1000	970	1128	1080	1000	5 (10)	20x19	246 (377)
1120	1050	1228	1200	1120	5 (10)	20x19	337 (480)
1250	1200	1380	1320	1250	6 (10)	24x14	401 (588)
1600	1600	1730	1690	1600	6 (10)	32x19	745 (1095)



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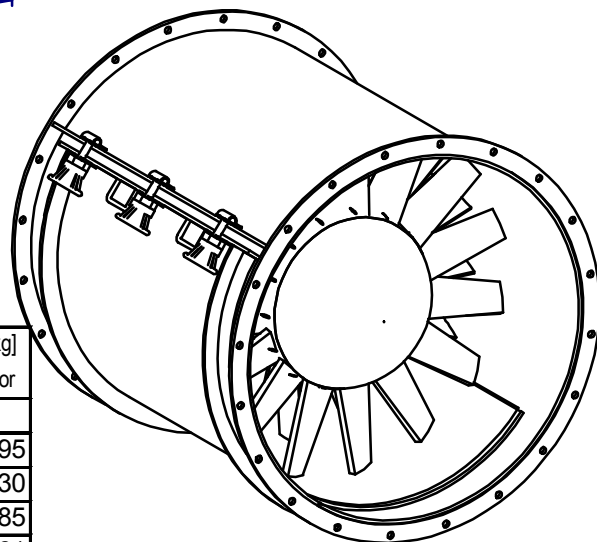
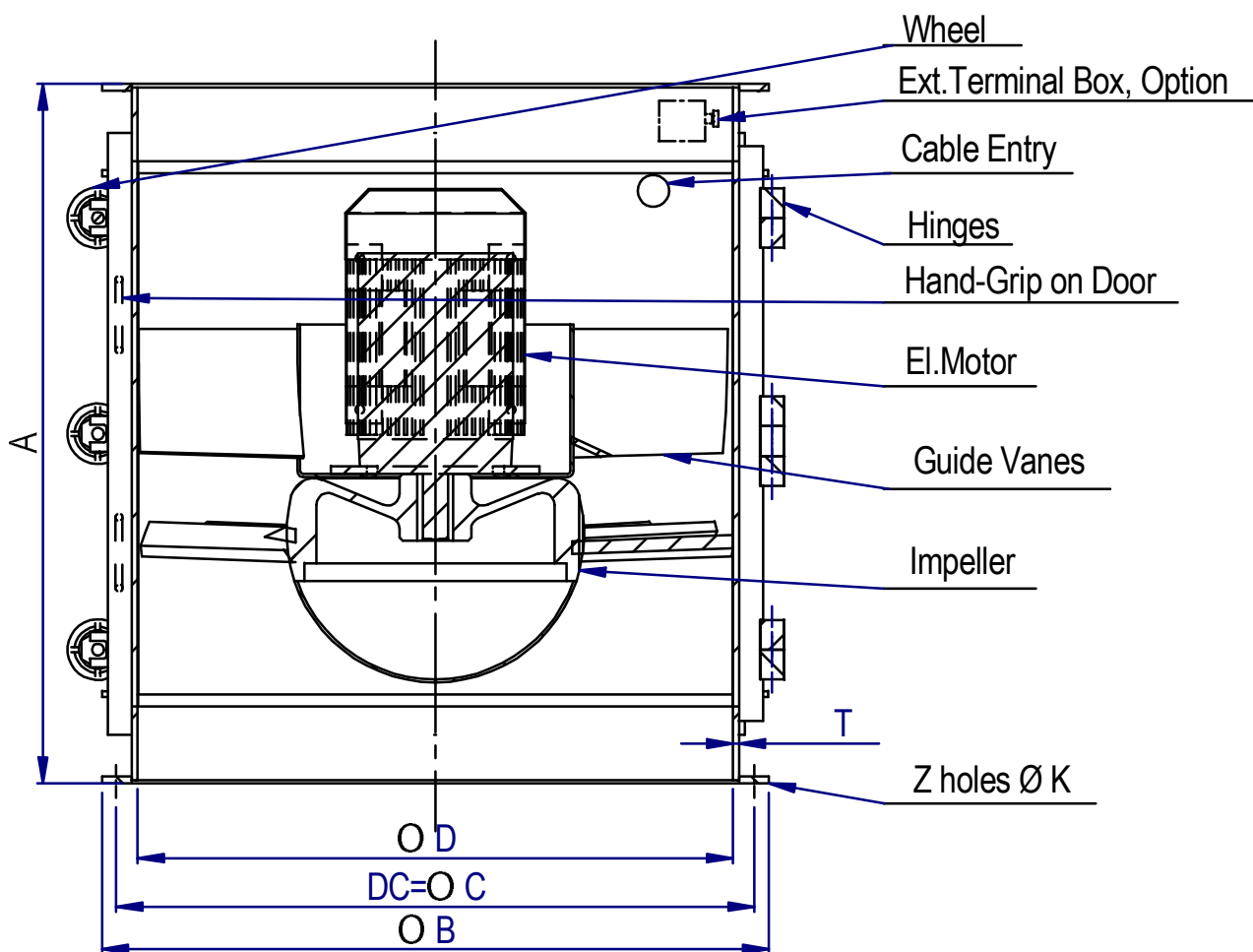
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MPV - D1K



NYBORG VANEAXIAL FAN Type "M"

MPV - D1M



MPV	A	B	C	D	T	Z x K	Weight [kg] excl. motor
400	550	484	460	400	10	12x14	95
500	600	584	560	500	10	12x14	130
630	685	736	698	630	10	16x14	185
710	825	816	775	710	10	16x14	261
800	890	906	870	800	10	16x19	303
900	1175	1028	980	900	10	16x19	434
1000	1175	1128	1080	1000	10	20x19	476
1120	1250	1248	1200	1120	10	20x19	598
1250	1400	1380	1320	1250	10	24x14	675
1400	1500	1530	1490	1400	10	32x19	750

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16/12-02
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MPV - D1M

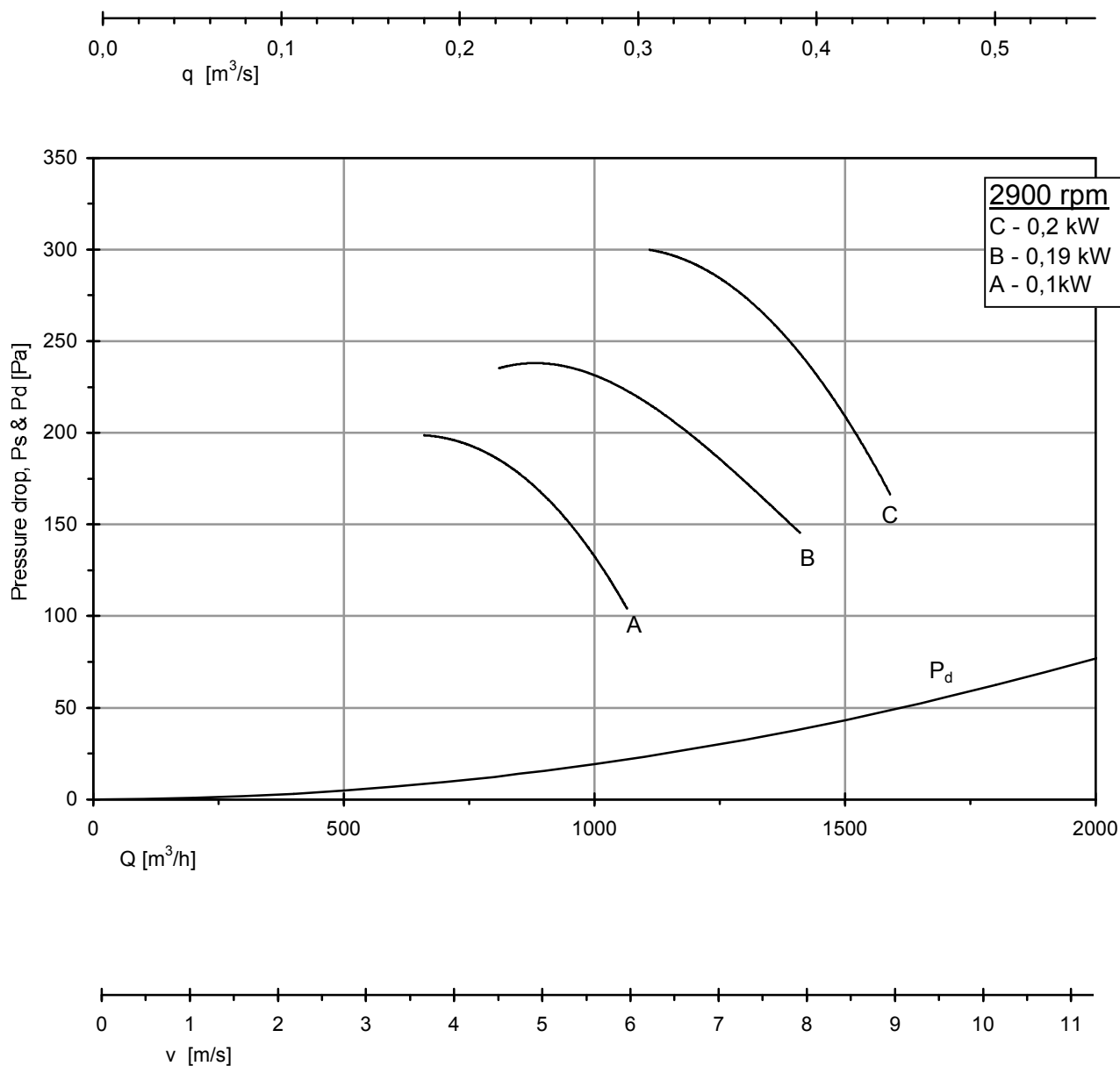


NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 2900 rpm (50Hz)

MPV 250 D

WOMR – 025K



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MPV 250 D

WOMR – 025K

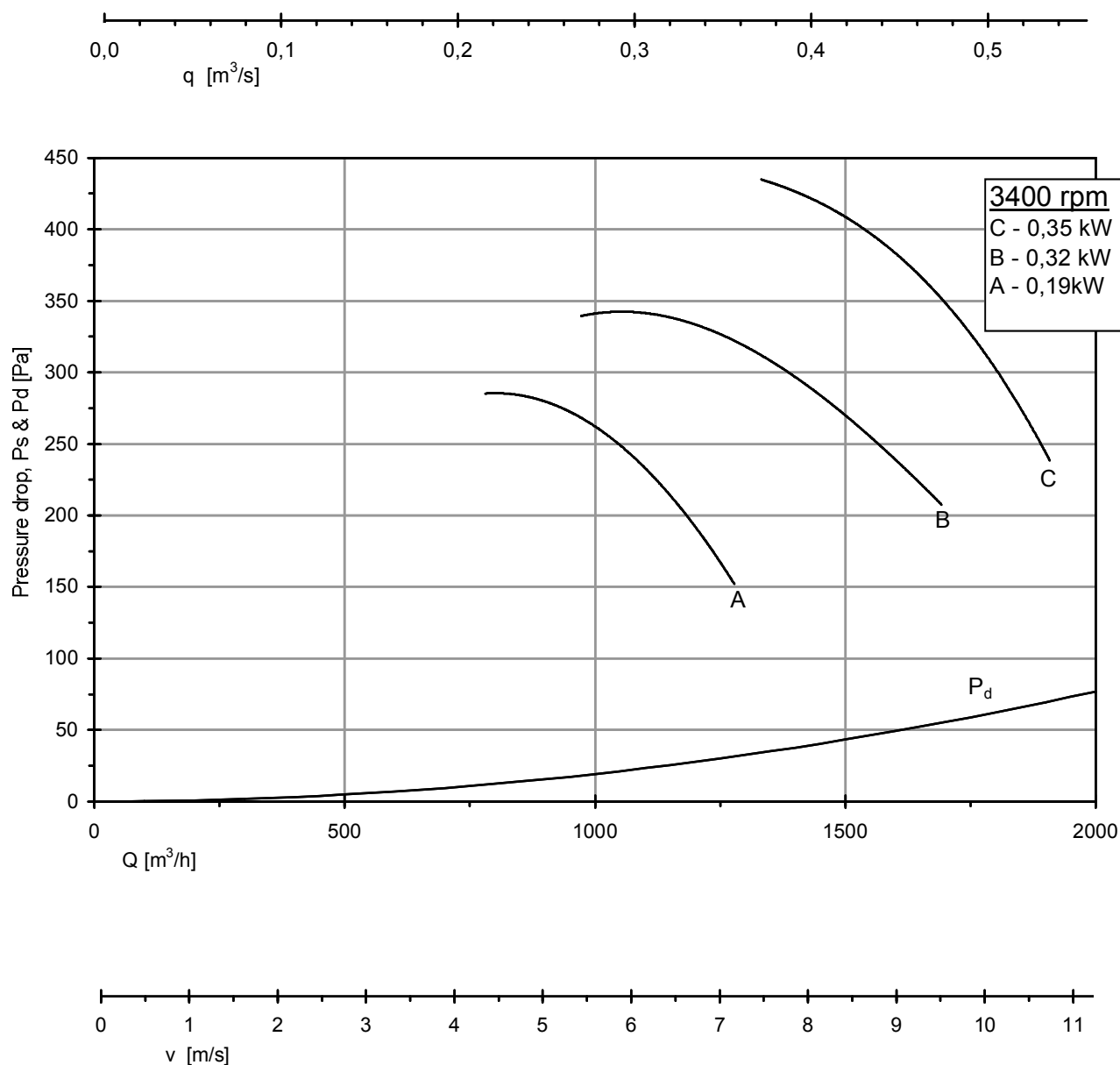


NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 3400 rpm (60Hz)

MPV 250 D

WOMR – 025K



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MPV 250 D

WOMR – 025K

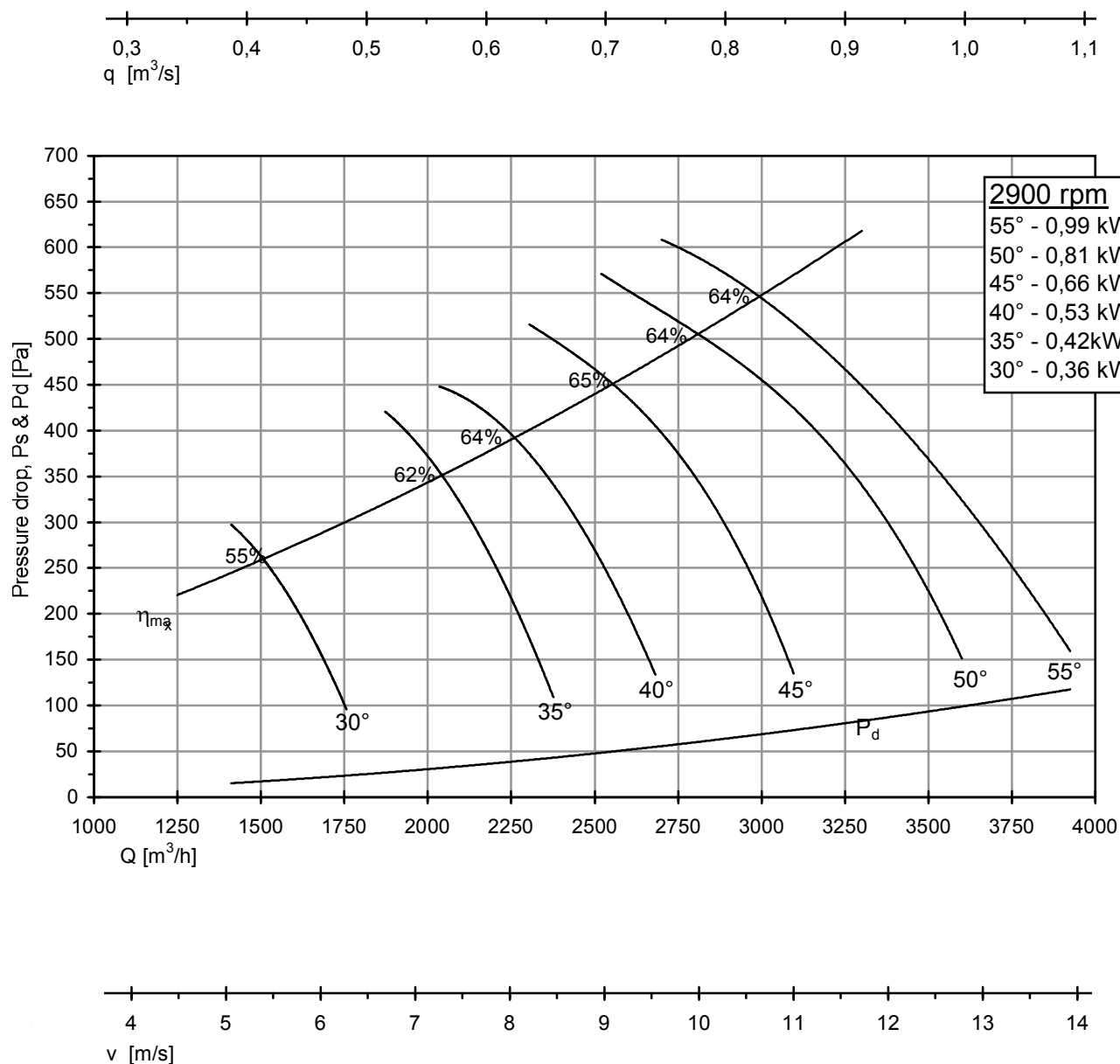


NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 2900 rpm (50Hz)

MPV 315 D

WOMR-031K



nybmw_xls1-3



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MPV 315 D

WOMR - 031K

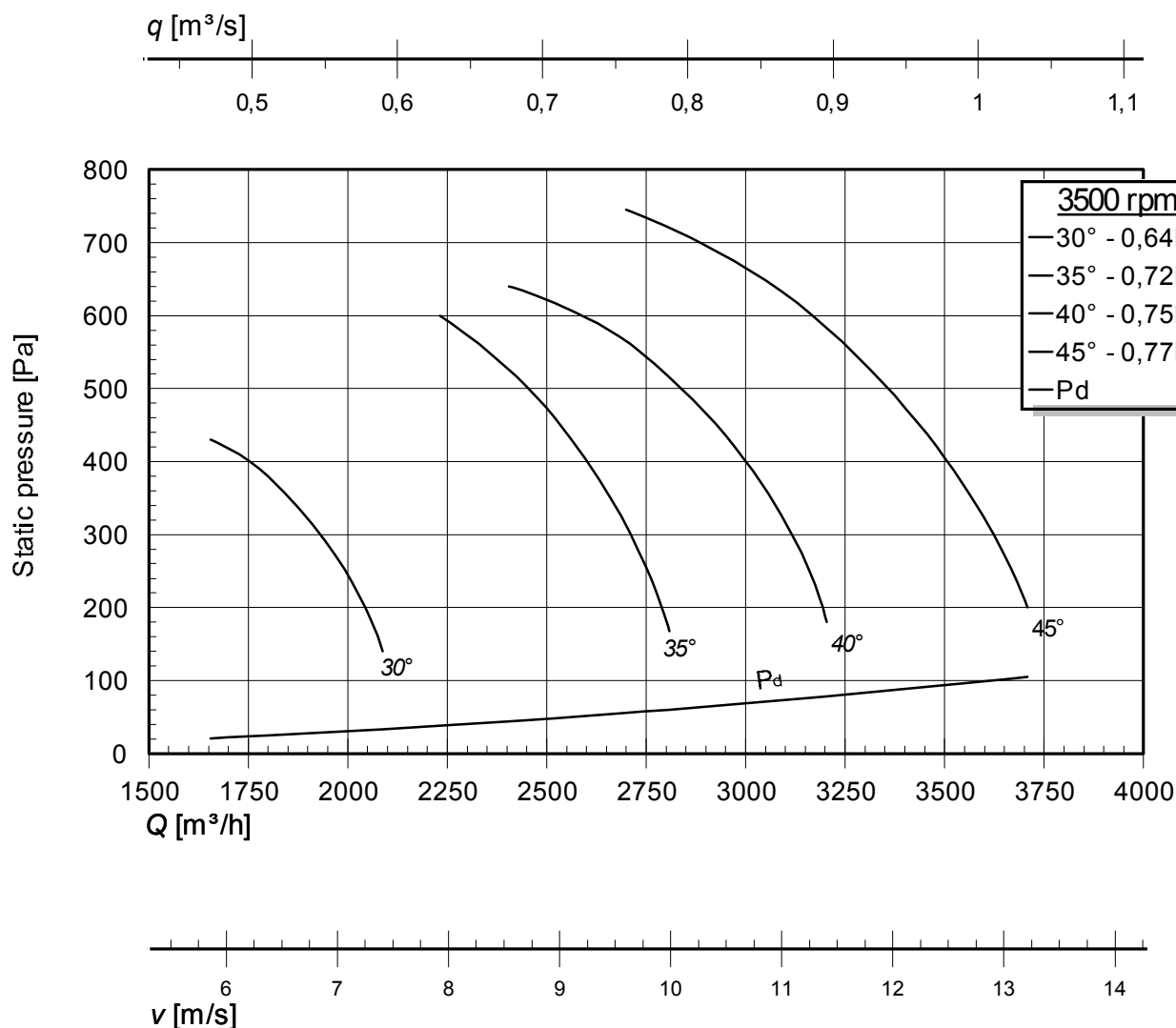


NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 3500rpm (60Hz)

MPV 315 D

WOMR-031K



N-mw04-29



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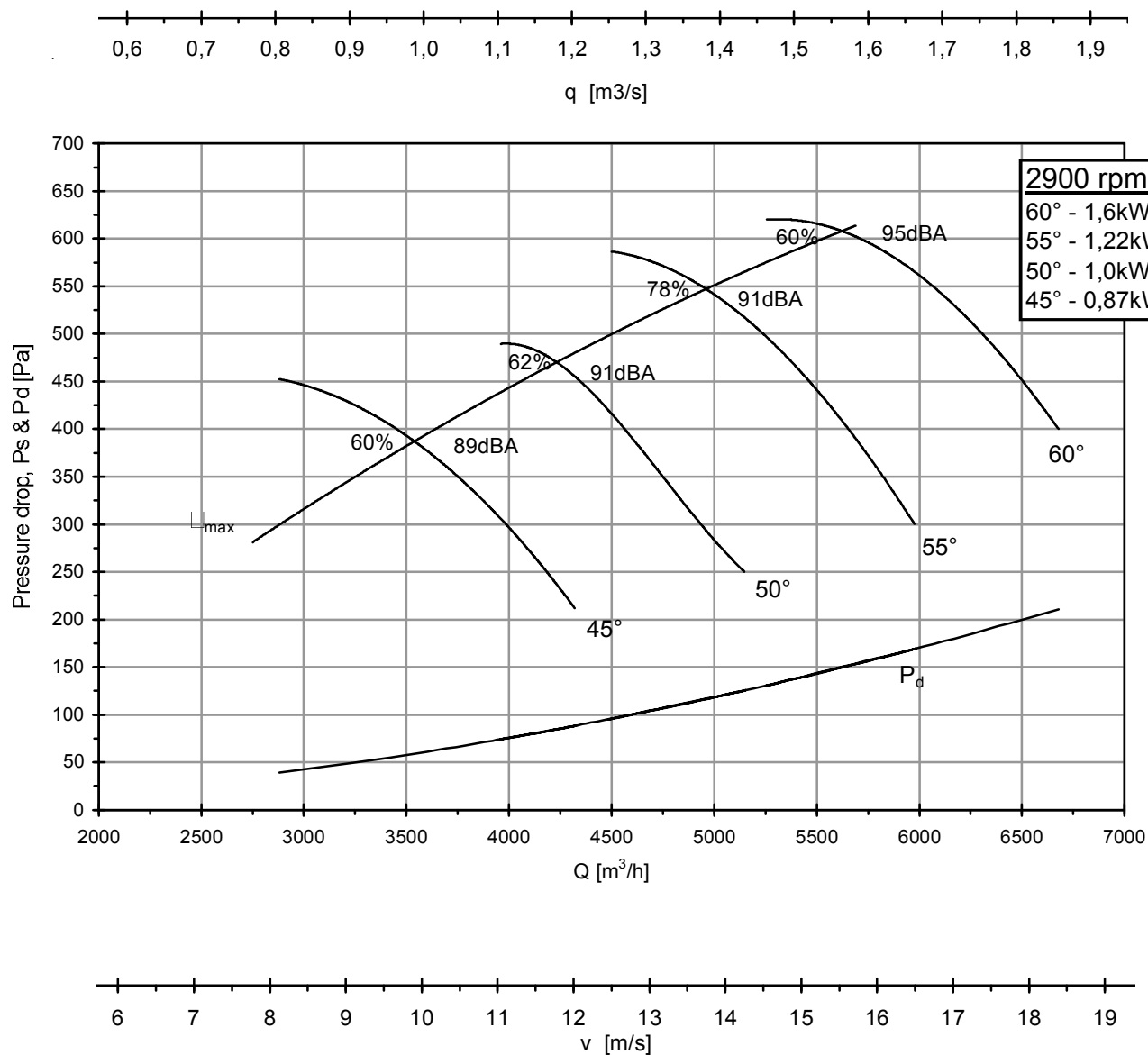
**MPV 315 D
WOMR - 031K**



NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 2900 rpm (50Hz)

Imp: WOM-355

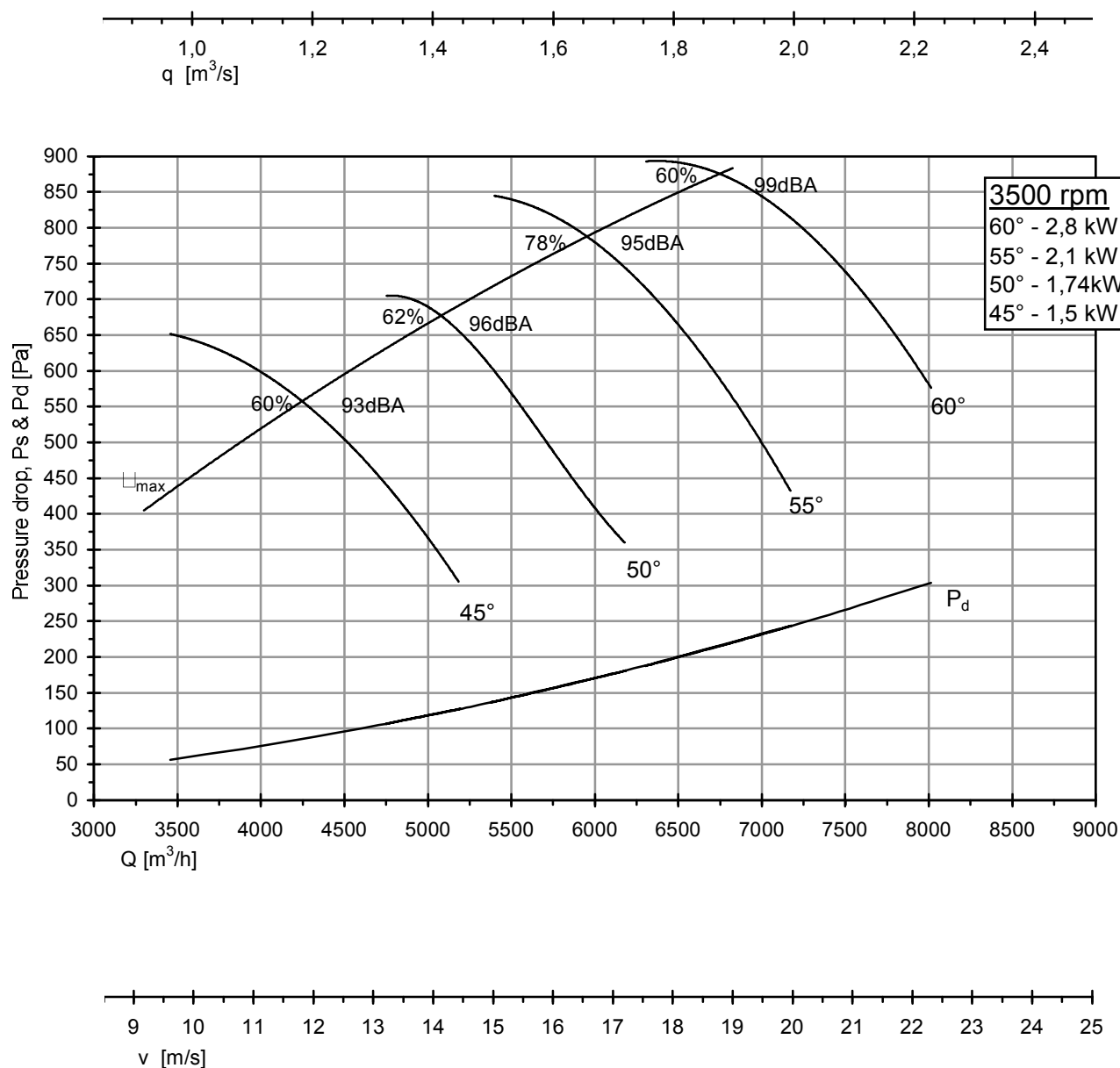




NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 3500 rpm (60Hz)

MPV 355 D1



nybmw_xls1-2



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MPV 355 D1

NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 2855 rpm (50Hz)

MPV 400 D1

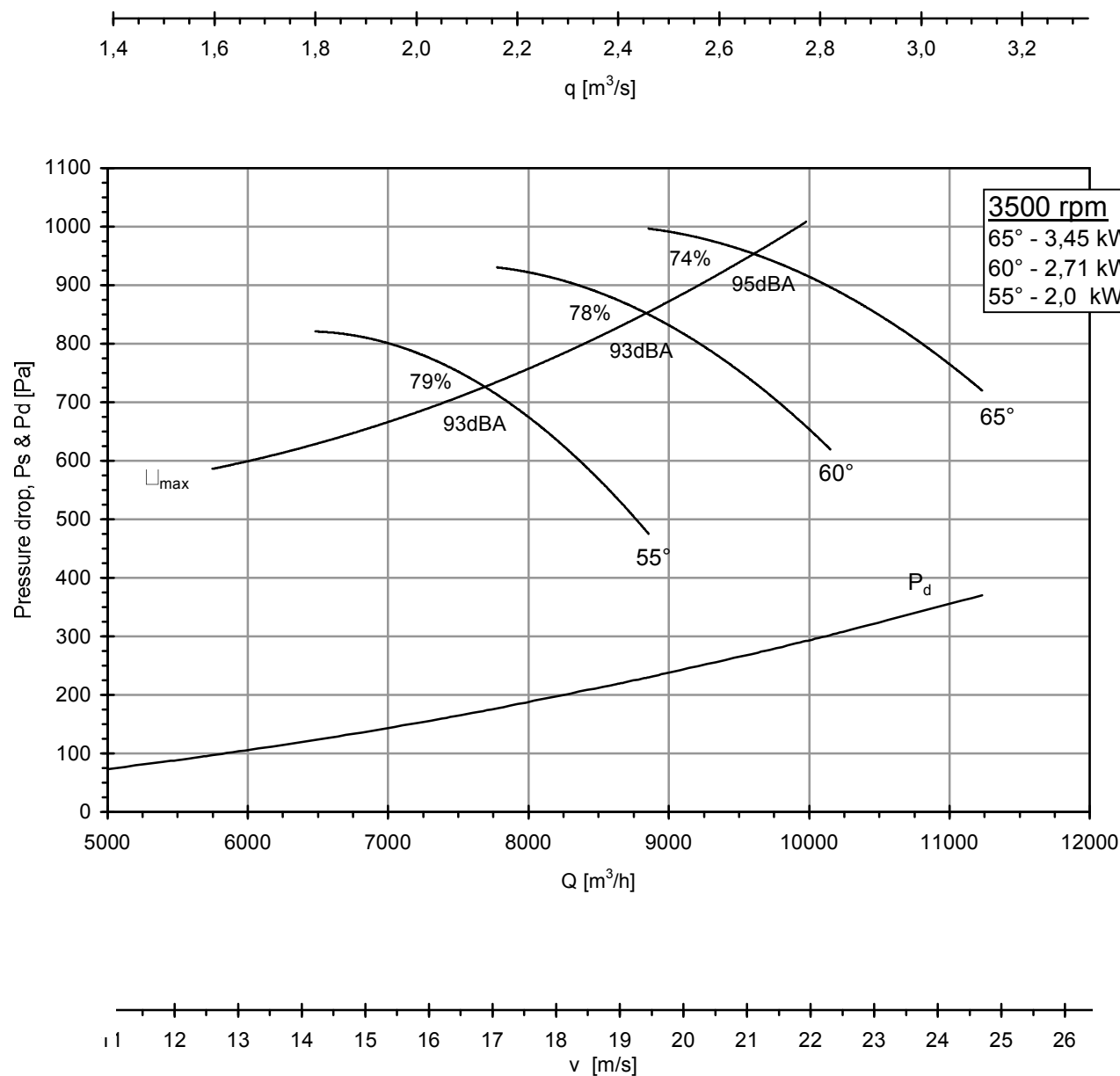
WOM(O) 40



NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 3500 rpm (60Hz)

MPV 400 D1
WOM(O) 40



nybmw_xls3-5
27.09.2005



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MPV 400 D1
WOM(O) 40



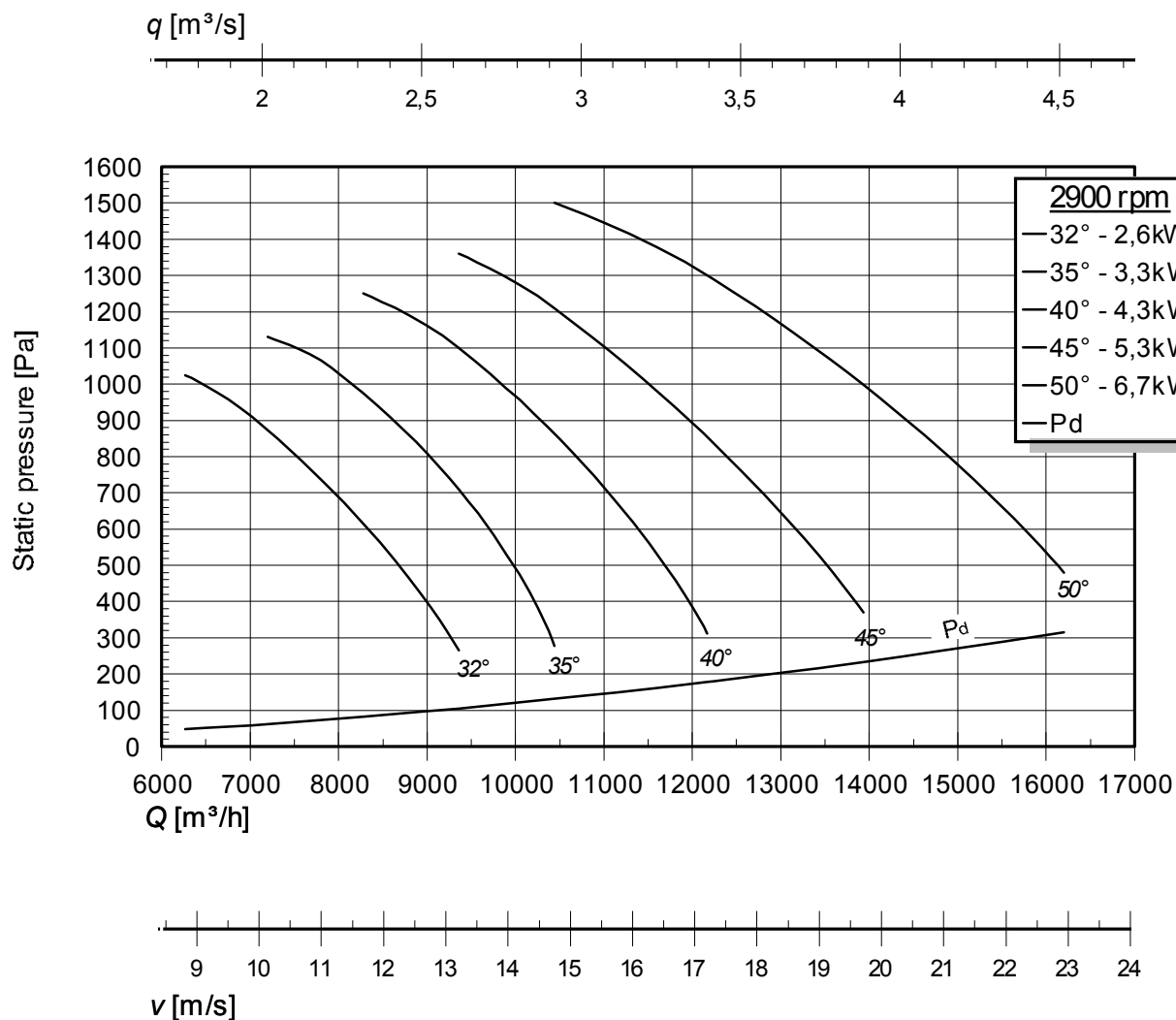
NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 2900rpm (50Hz)

MPV 500 D

WOMR 050K

WOMB 050K



N-mw04-26



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MPV 500 D

WOMR 050K

WOMB 050K



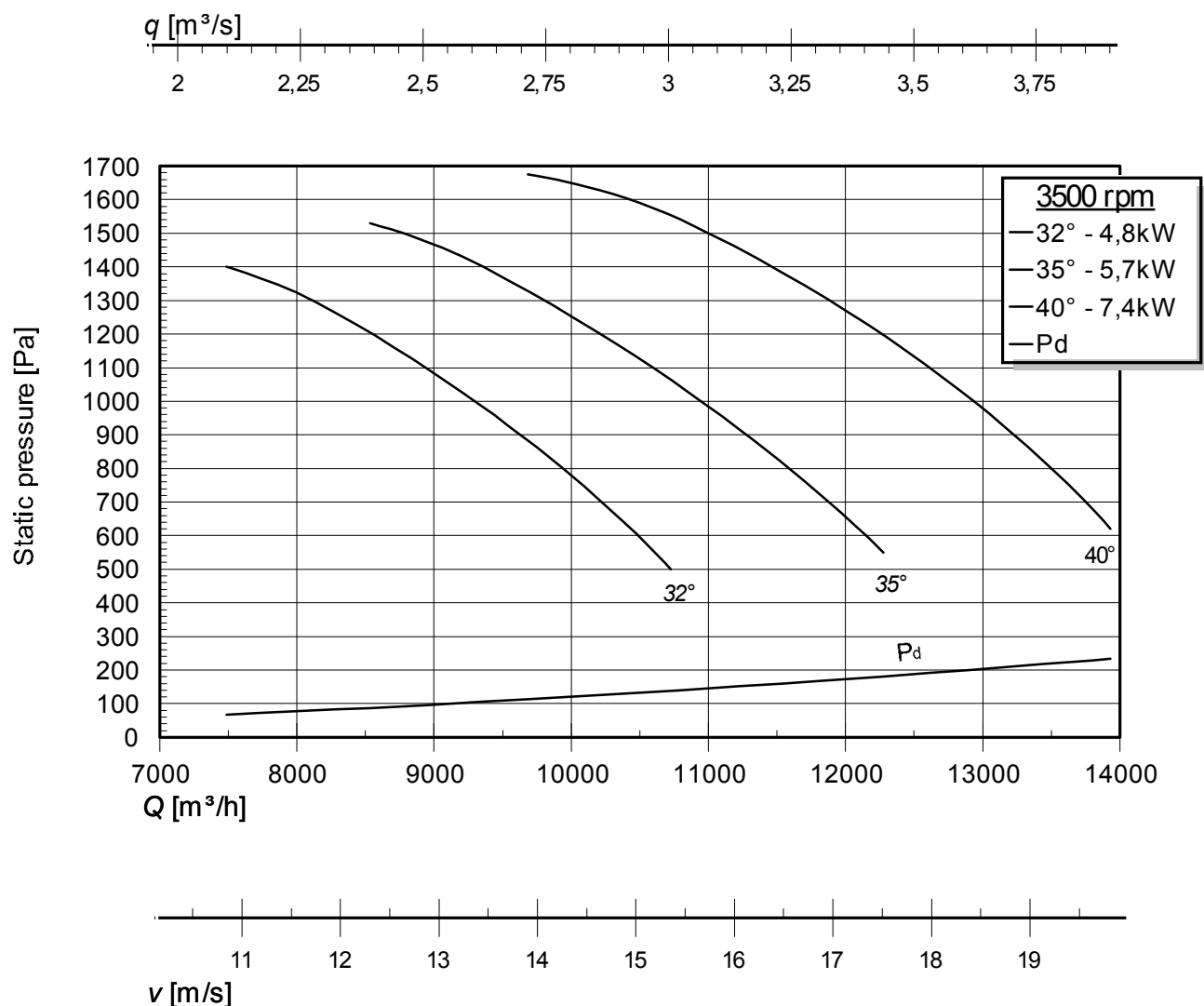
NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 3500rpm (60Hz)

MPV 500 D

WOMR 050K

WOMB 050K



N-mw04-27



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MPV 500 D

WOMR 050K

WOMB 050K

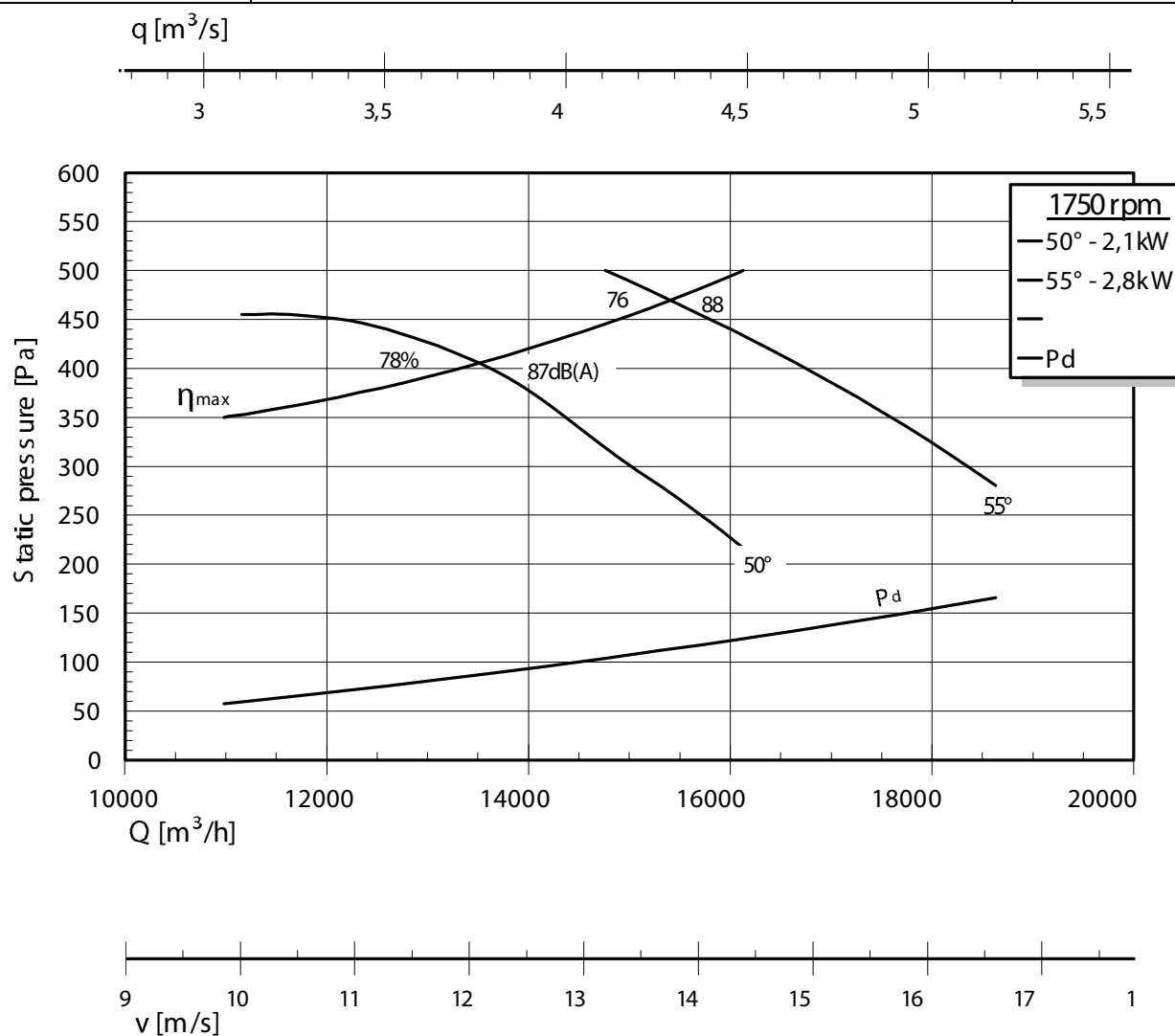
	NYBORG VANEAXIAL FAN PERFORMANCE DATA Speed 1460 rpm (50Hz)	MPV 630 D1 WOM(O) - 63
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NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 1750 rpm (60Hz)

MPV 630 D1
WOM(O) - 63



n-mw04prs-5



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MPV 630 D1
WOM(O) - 63

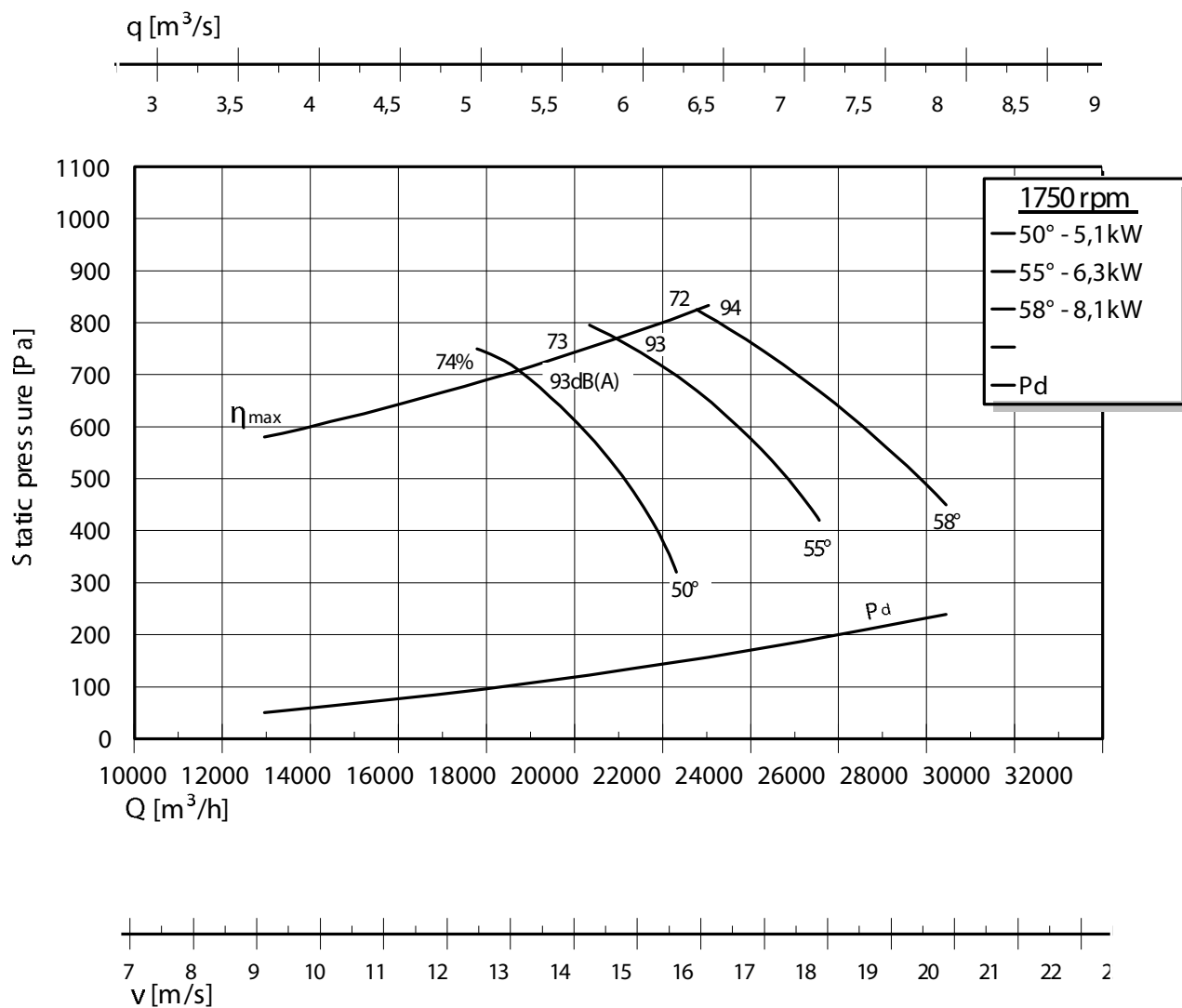
	NYBORG VANEAXIAL FAN PERFORMANCE DATA Speed 1470 rpm (50Hz)	MPV 710 D1 WOM(O) - 71
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NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 1750 rpm (60Hz)

MPV 710 D1
WOM(O) - 71



n-mw04prs-7



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MPV 710 D1
WOM(O) - 71

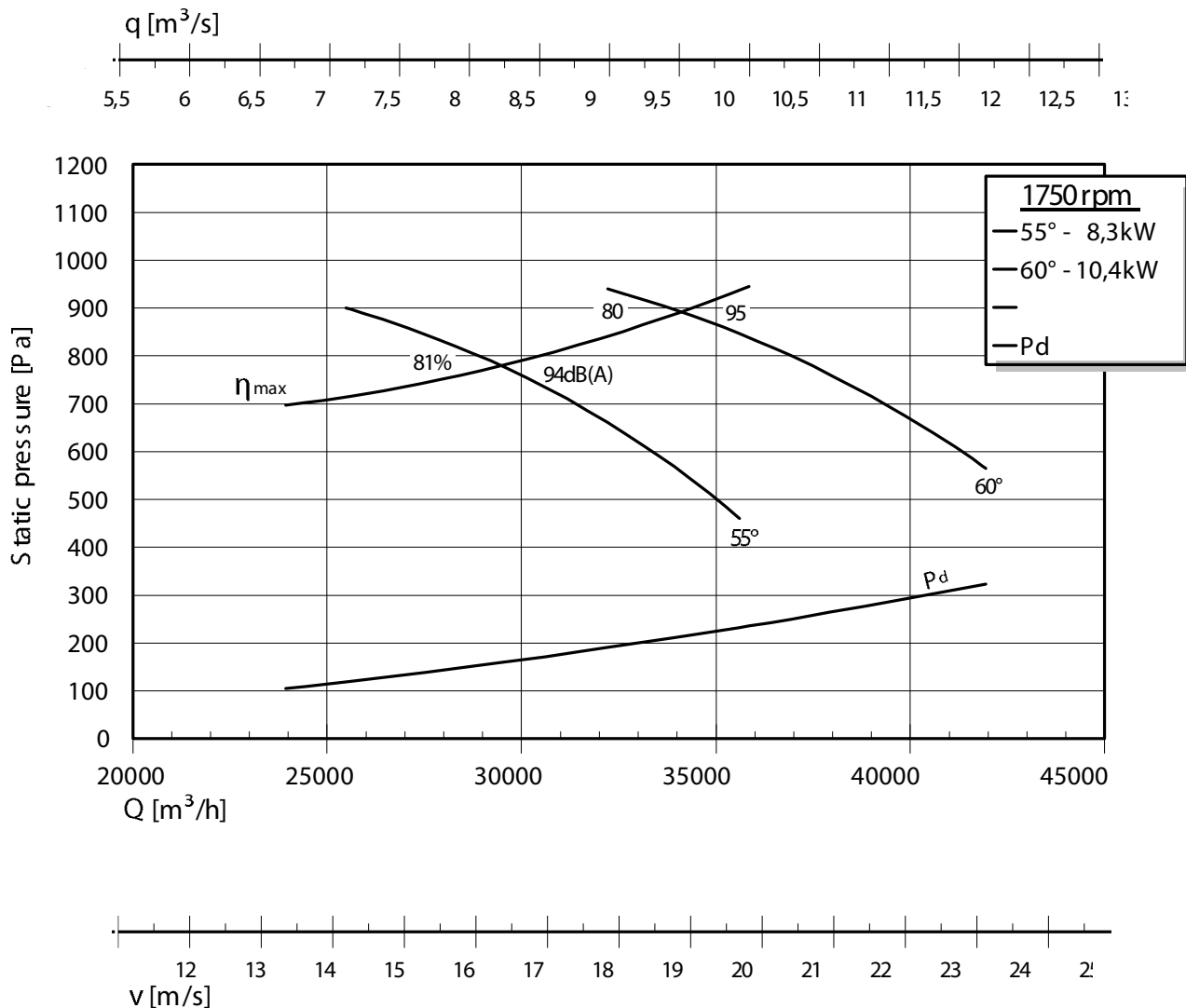
	NYBORG VANEAXIAL FAN PERFORMANCE DATA Speed 1490 rpm (50Hz)	
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NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 1750 rpm (60Hz)

MPV 800 D1
WOM(O) - 80



n-mw04prs-9



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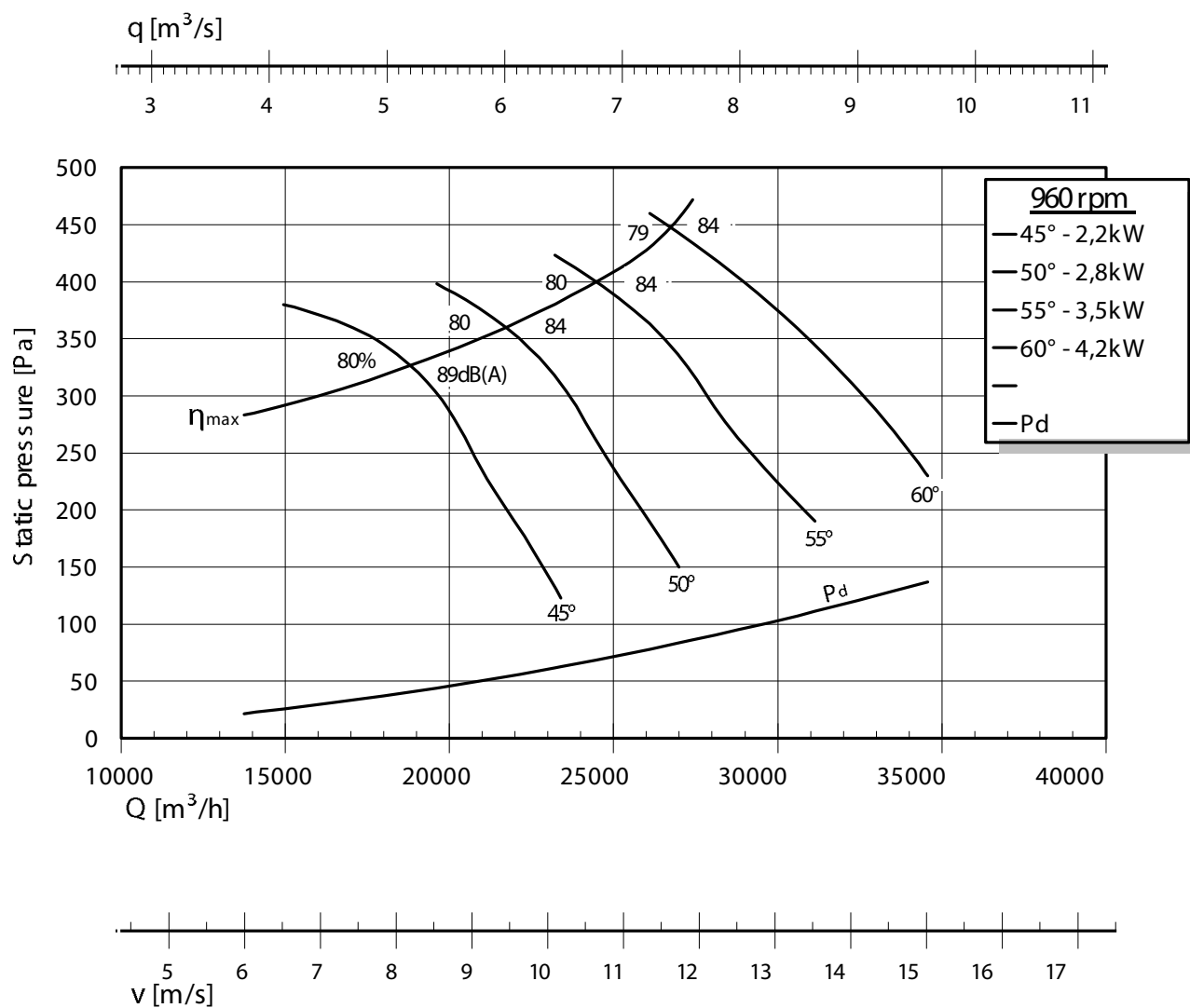
MPV 800 D1
WOM(O) - 80



NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 960 rpm (50Hz)

MPV 900 D1
WOM(O) - 90



n-mw04prs-10



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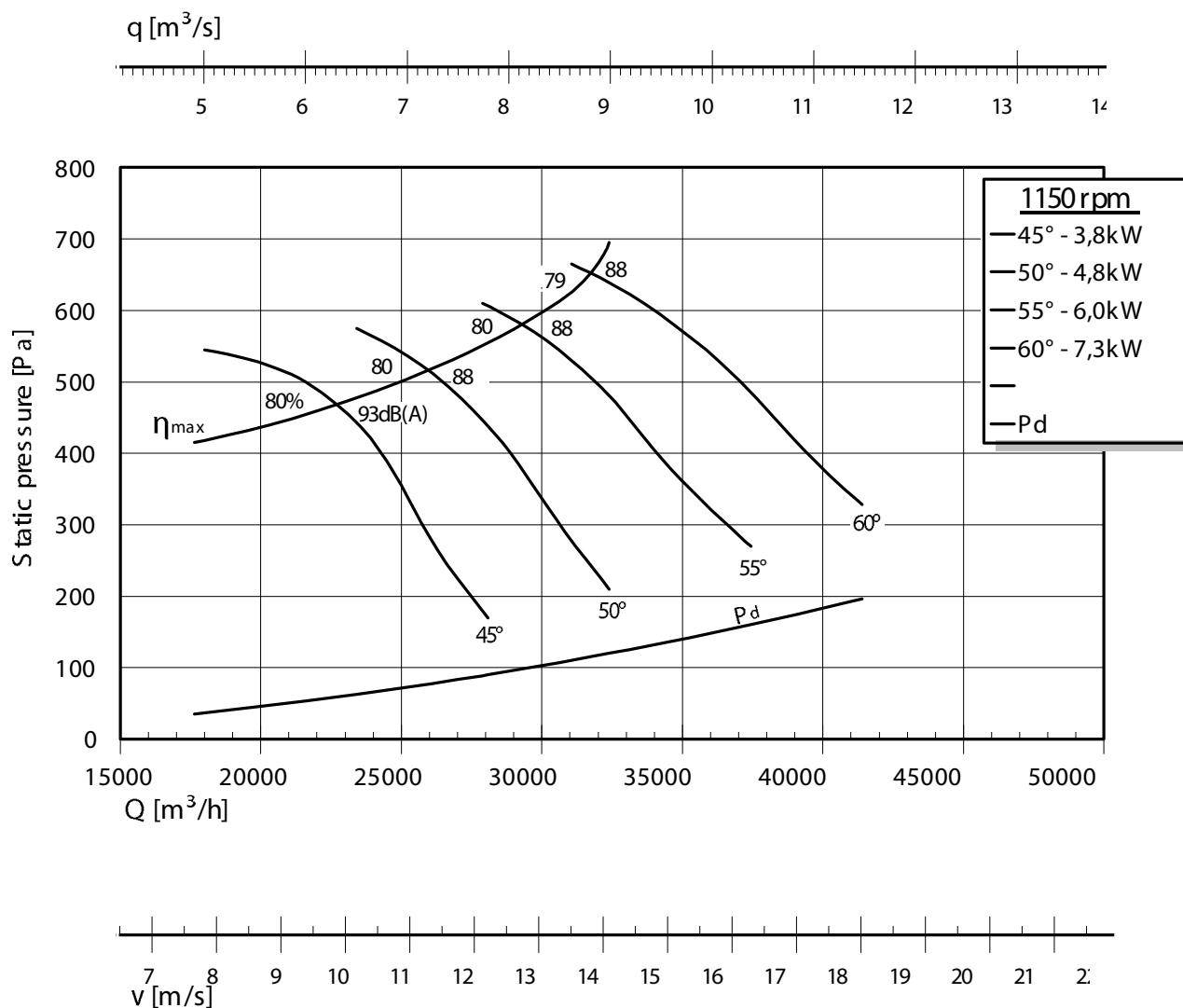
MPV 900 D1
WOM(O) - 90



NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 1150 rpm (60Hz)

MPV 900 D1
WOM(O) - 90



n-mw04prs-11



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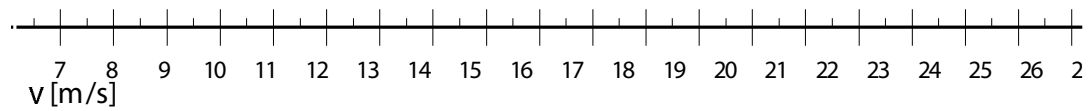
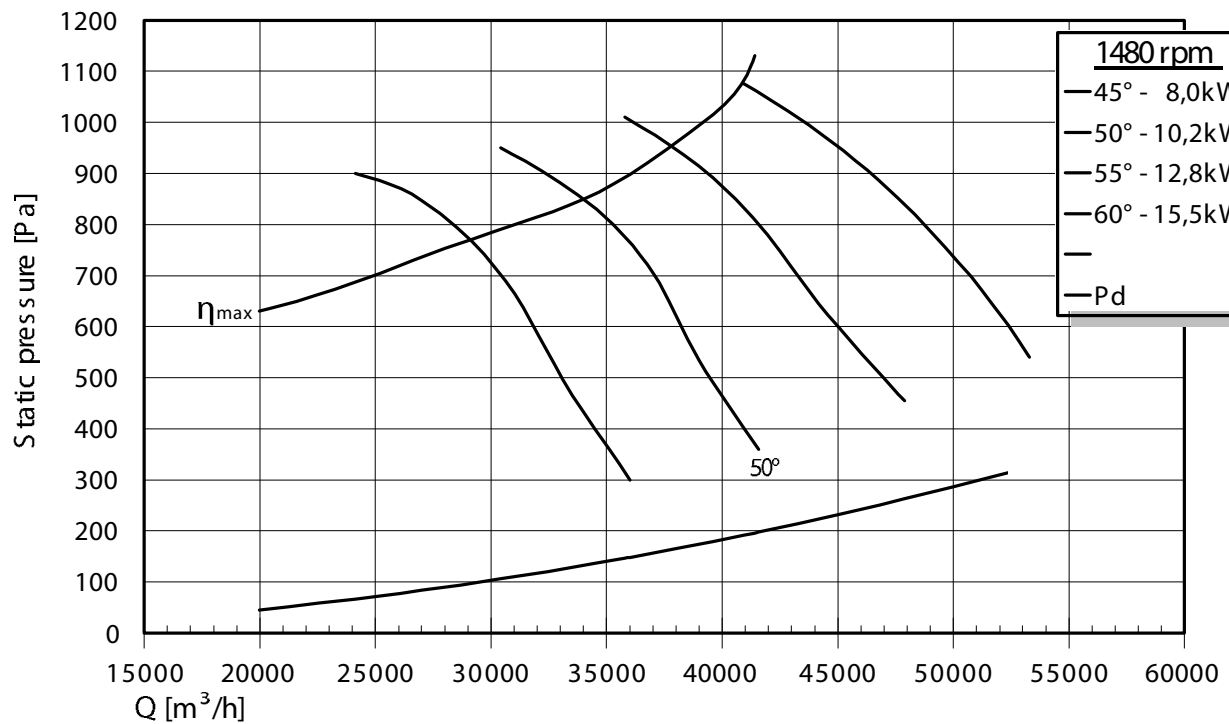
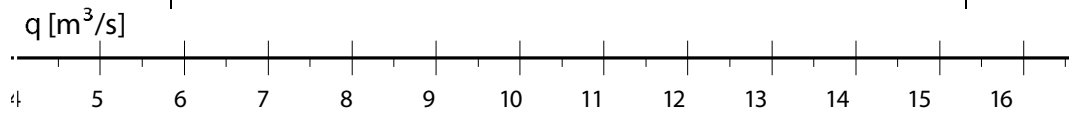


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MPV 900 D1
WOM(O) - 90

NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 1450 rpm (50Hz)

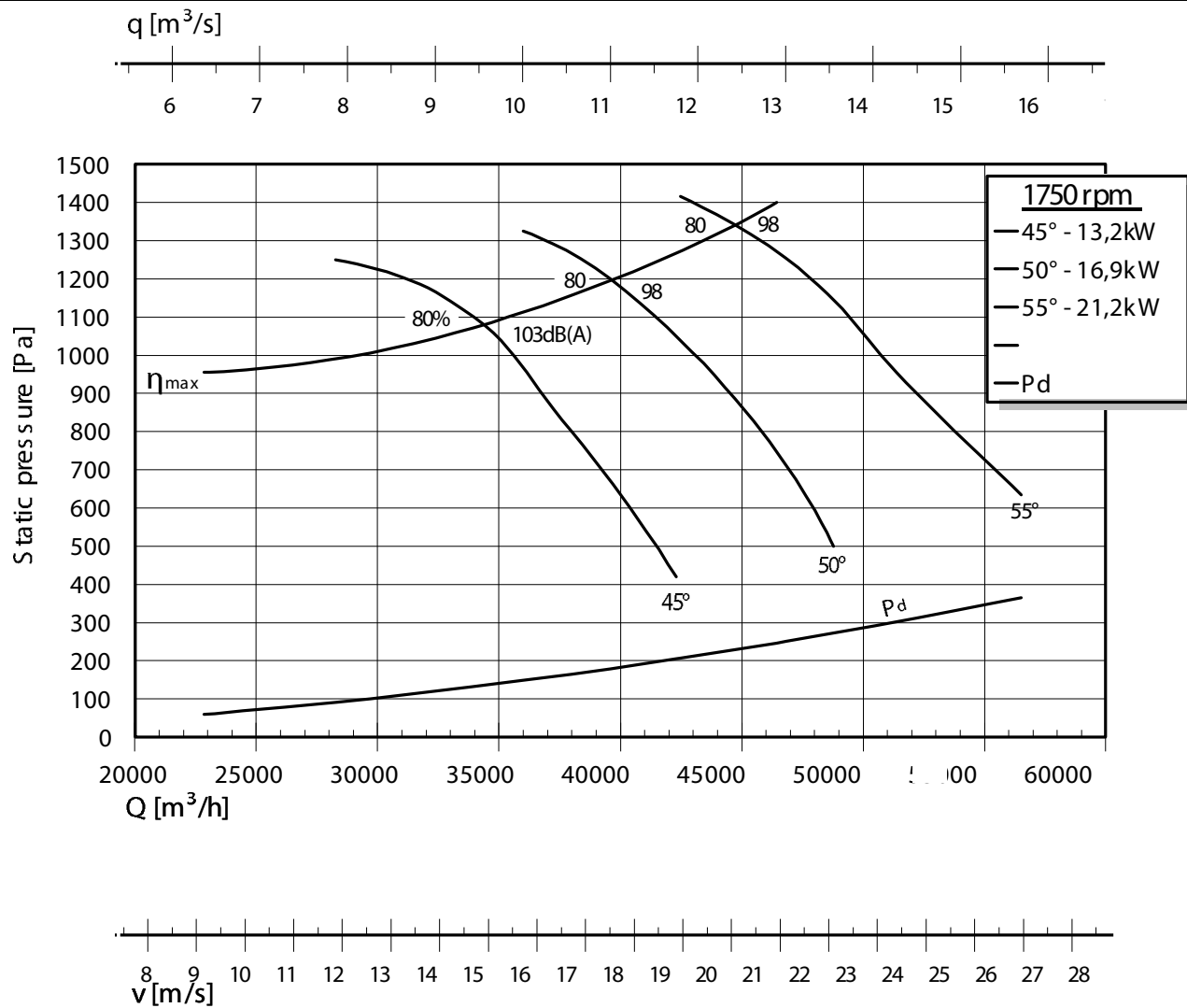




NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 1750 rpm (60Hz)

MPV 900 D1
WOM(O) - 90



n-mw04prs-13



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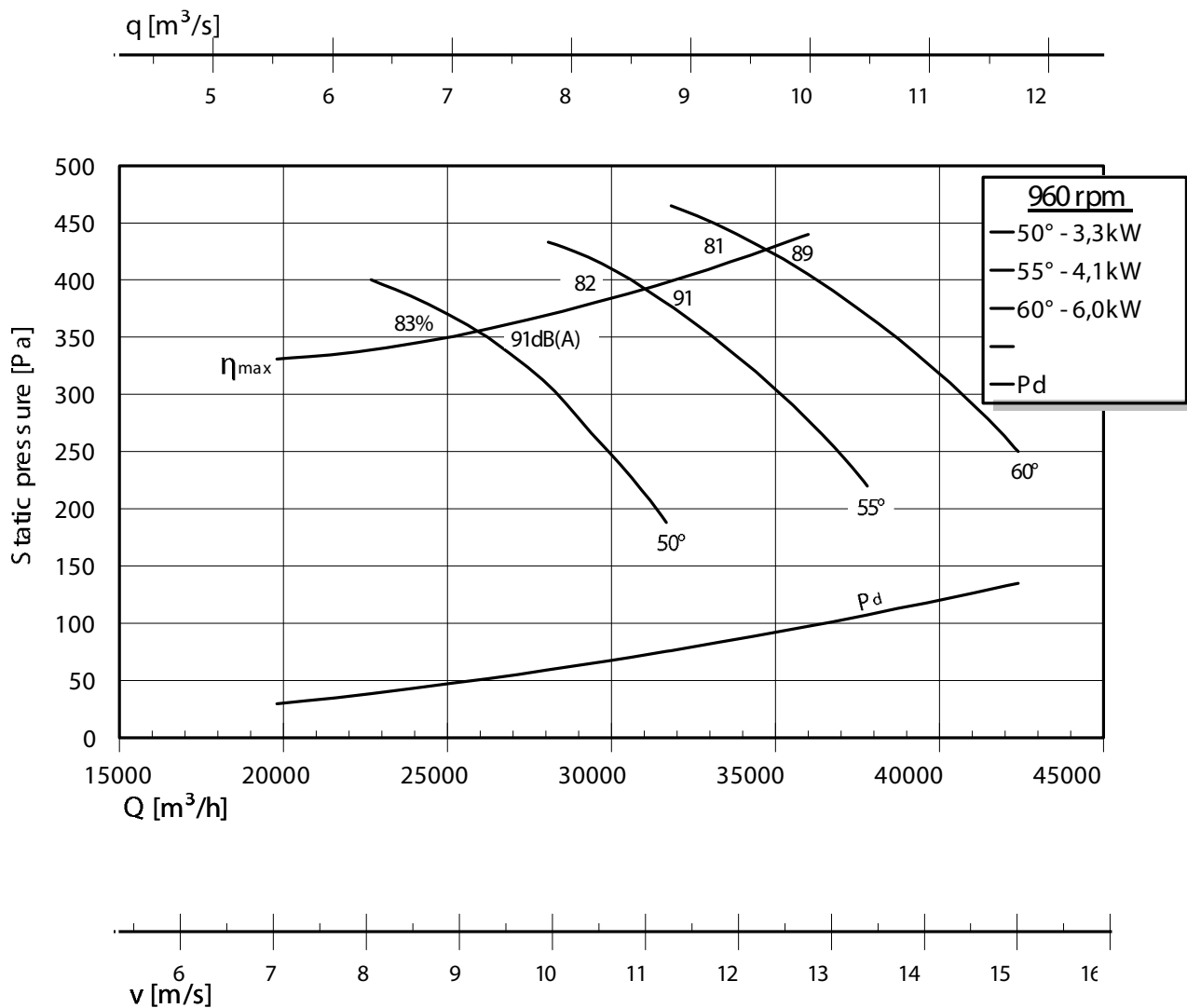
MPV 900 D1
WOM(O) - 90



NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 960 rpm (50Hz)

MPV 1000 D1
WOM(O) - 100



n-mw04prs-14



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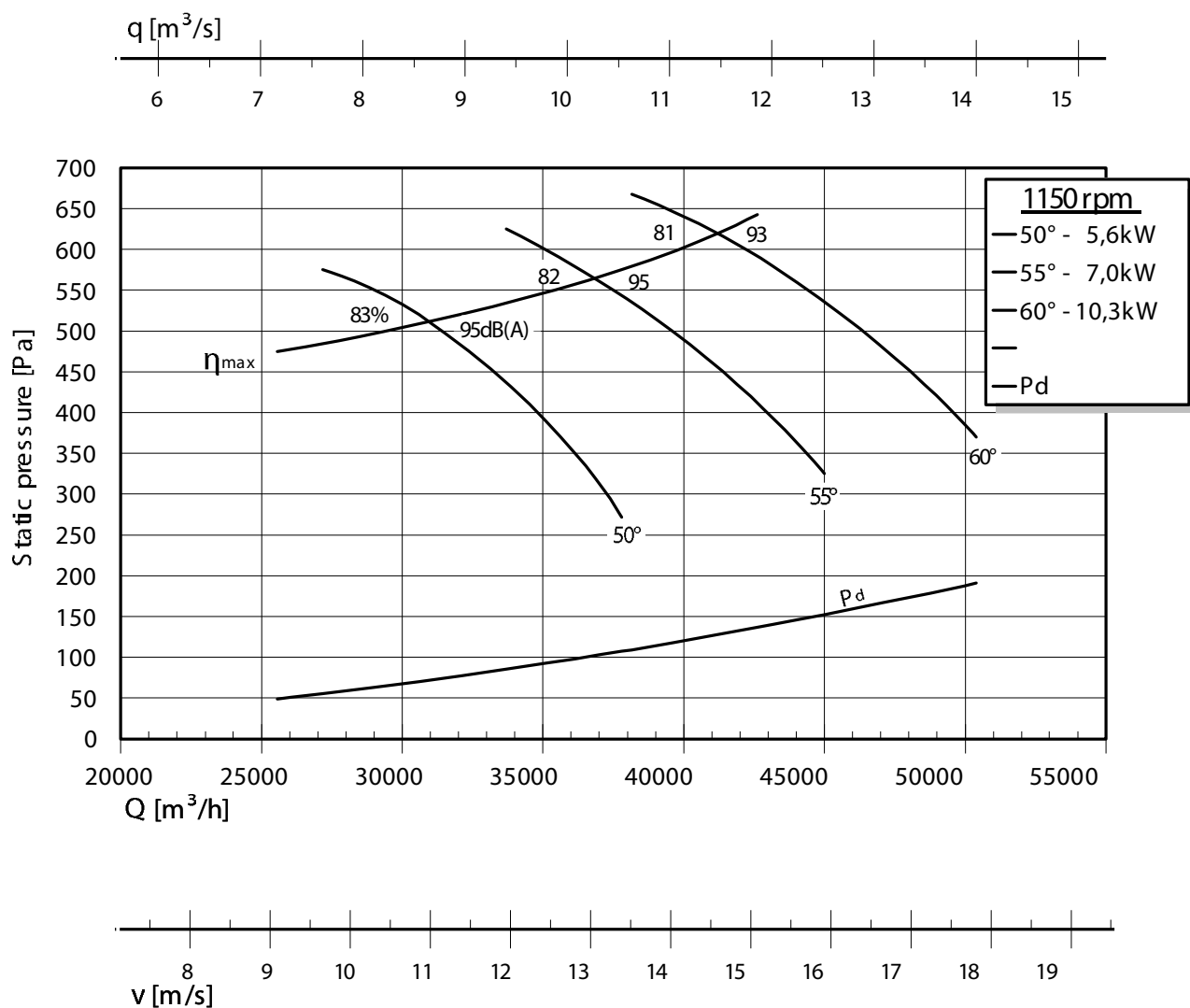
MPV 1000 D1
WOM(O) - 100



NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 1150 rpm (60Hz)

MPV 1000 D1
WOM(O) - 100



n-mw04prs-15



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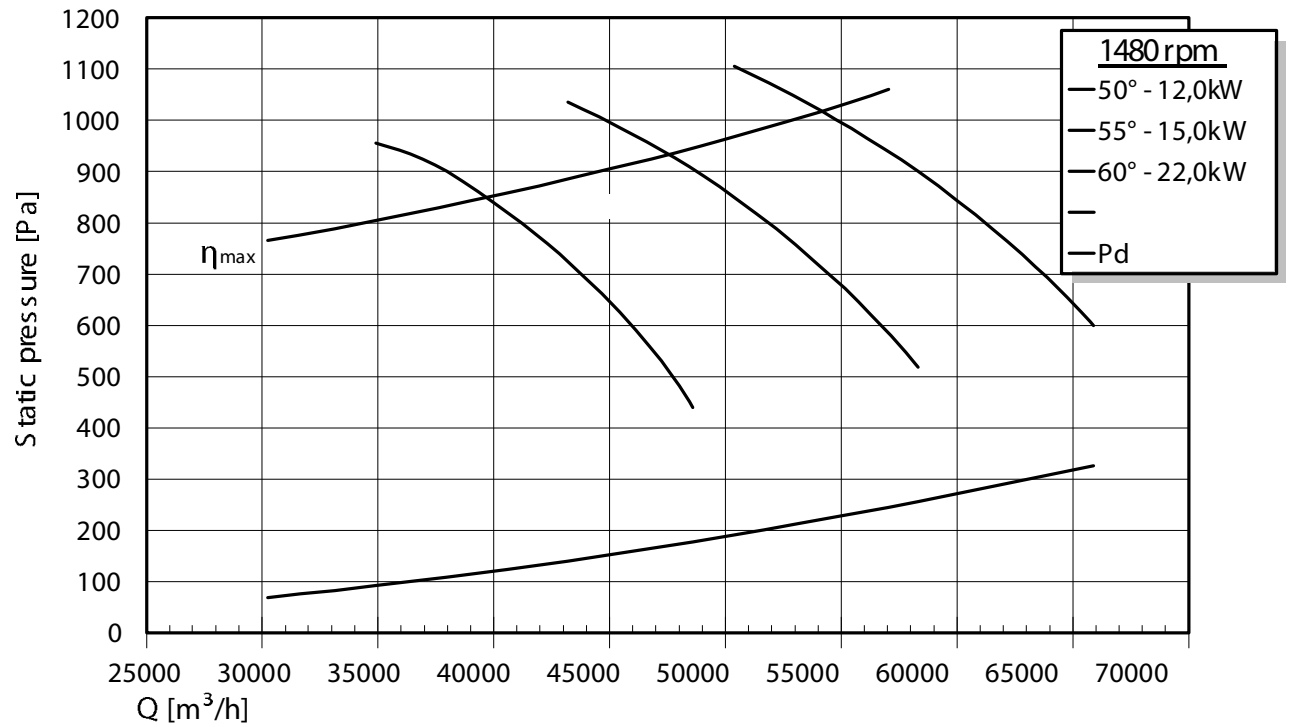
MPV 1000 D1
WOM(O) - 100

NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 1480 rpm (50Hz)

q [m³/s]

7 8 9 10 11 12 13 14 15 16 17 18 19



v [m/s]

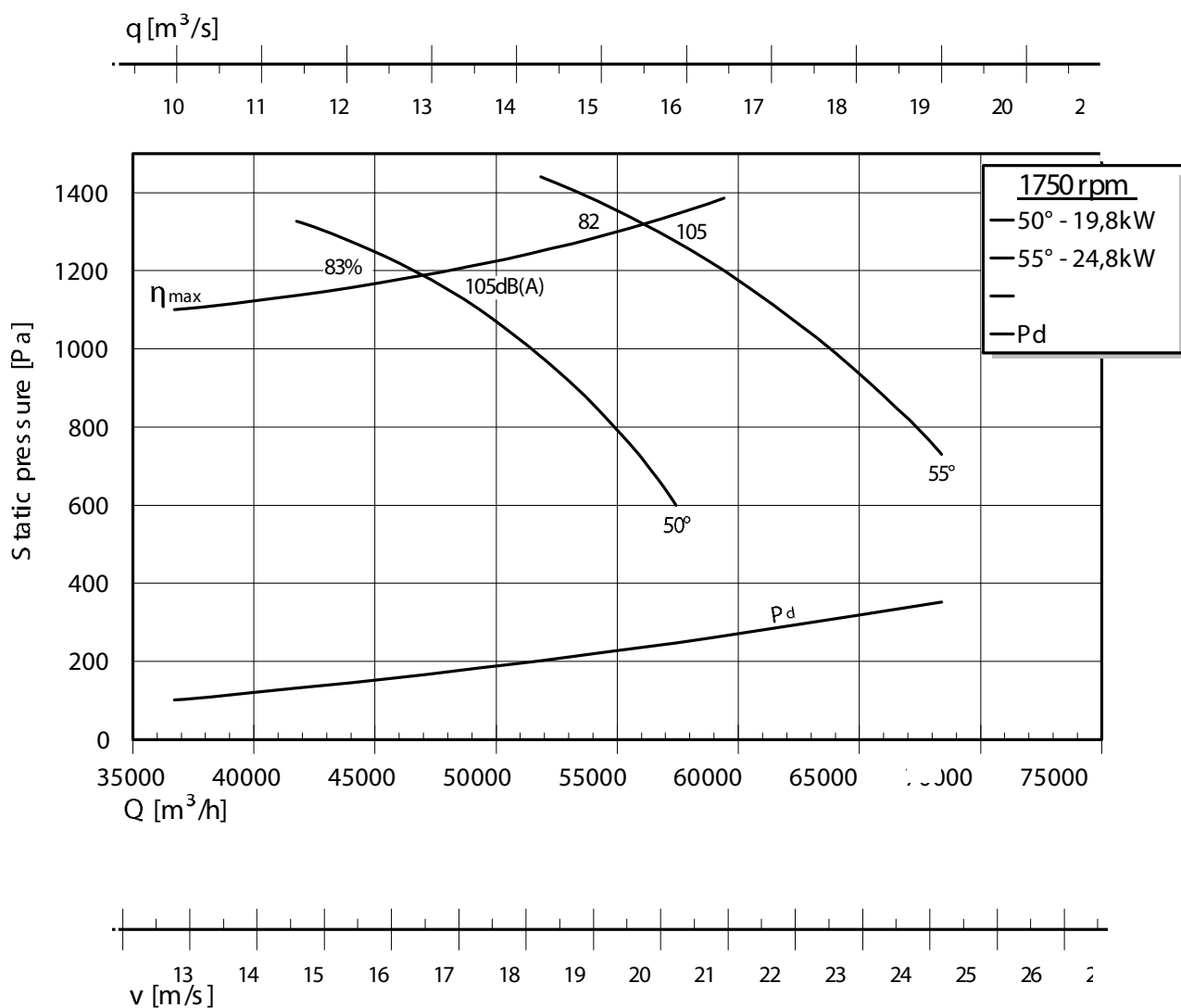
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25



NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 1750 rpm (60Hz)

MPV 1000 D1
WOM(O) - 100



n-mw04prs-17



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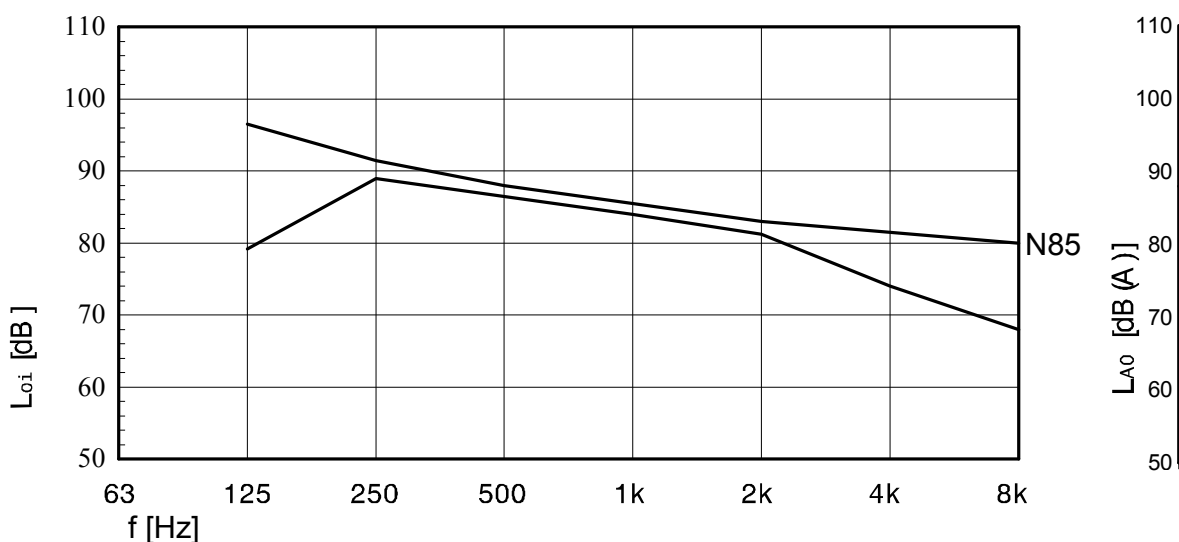
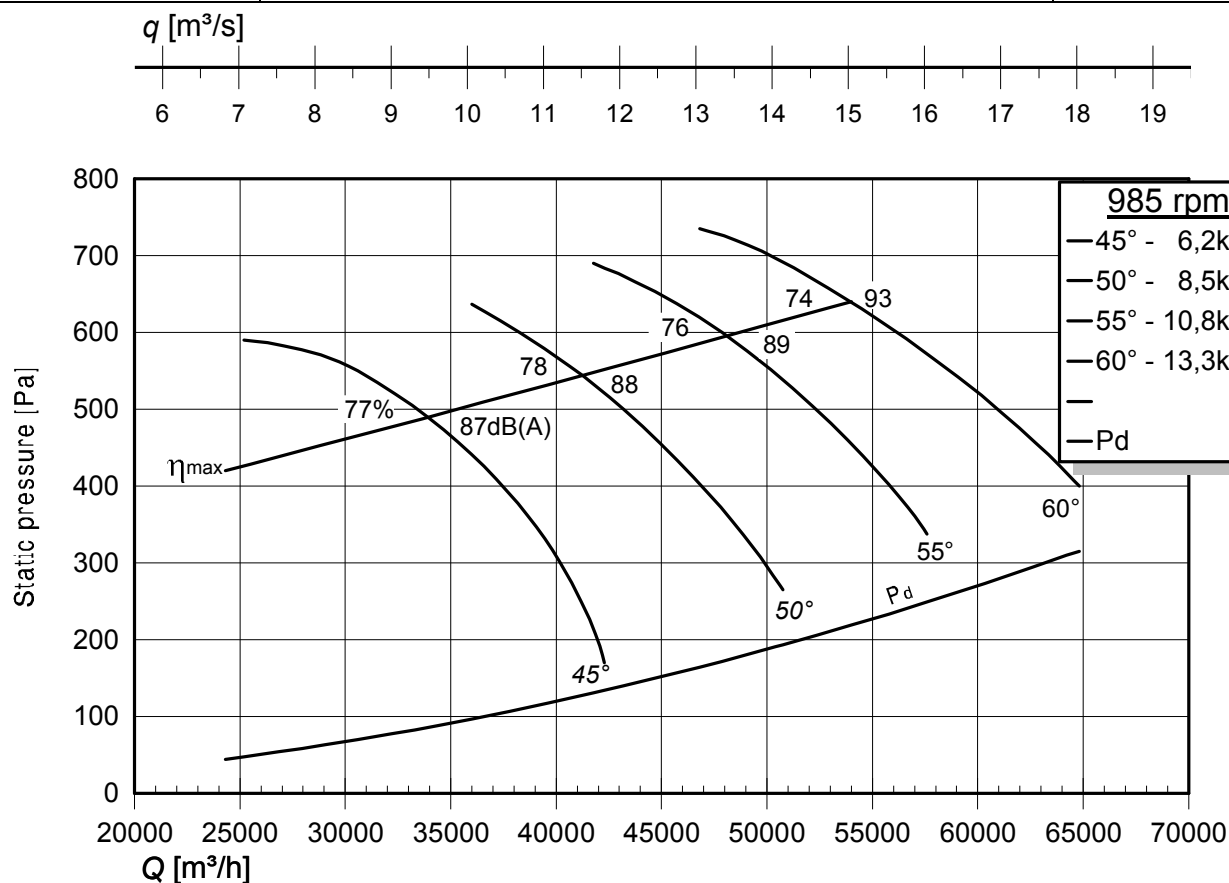
MPV 1000 D1
WOM(O) - 100



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

Speed 985 rpm (50Hz)

MPV 1120 D1
WOM(O) - 112



Acoustic pressure level spectrum L_{oi} measured close to optimum working point for $n=985$ r.p.m. and angle 50°

n-mw04prs-18



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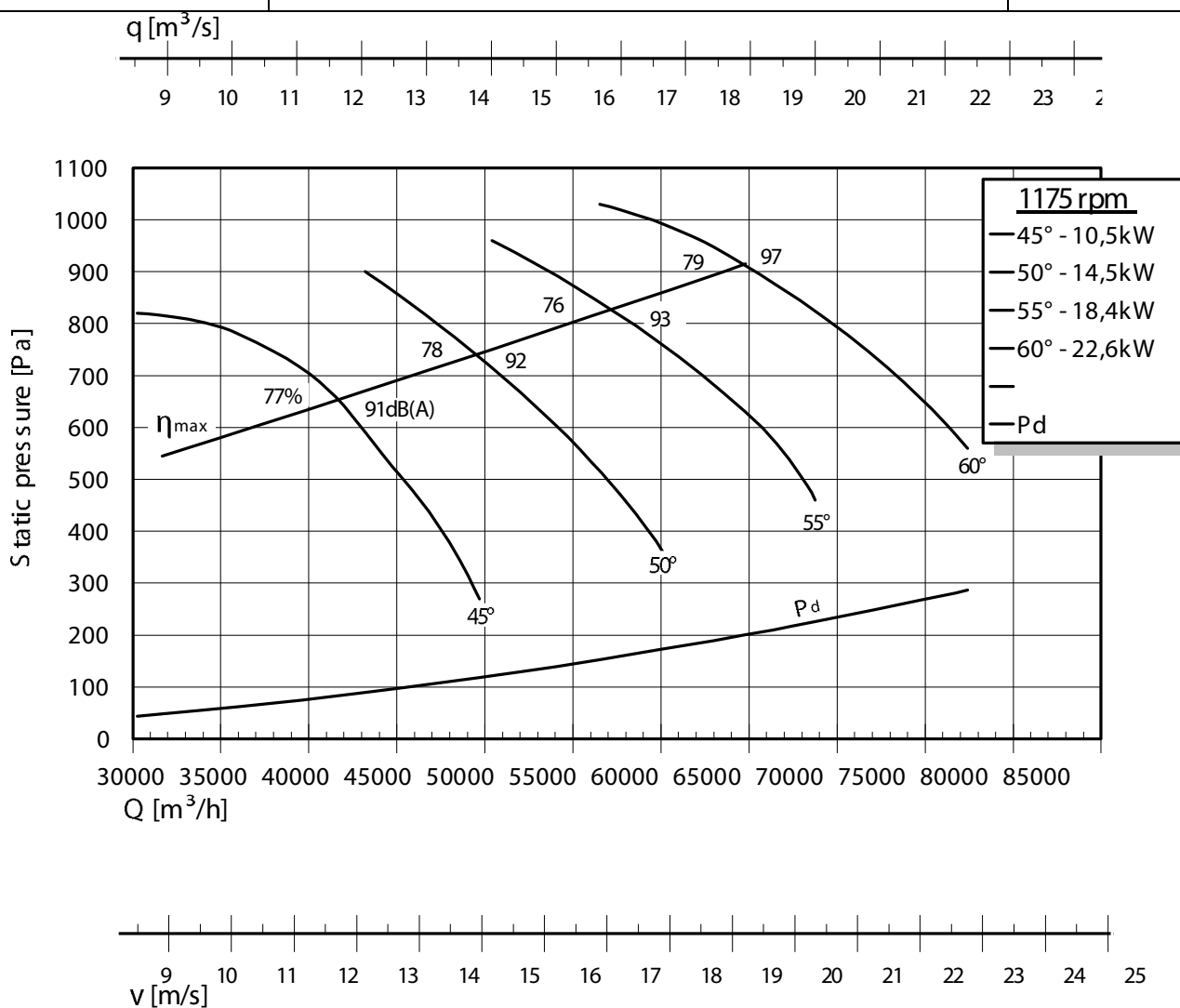
MPV 1120 D1
WOM(O) - 112



NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 1175 rpm (60Hz)

MPV 1120 D1
WOM(O) - 112



n-mw04prs-19



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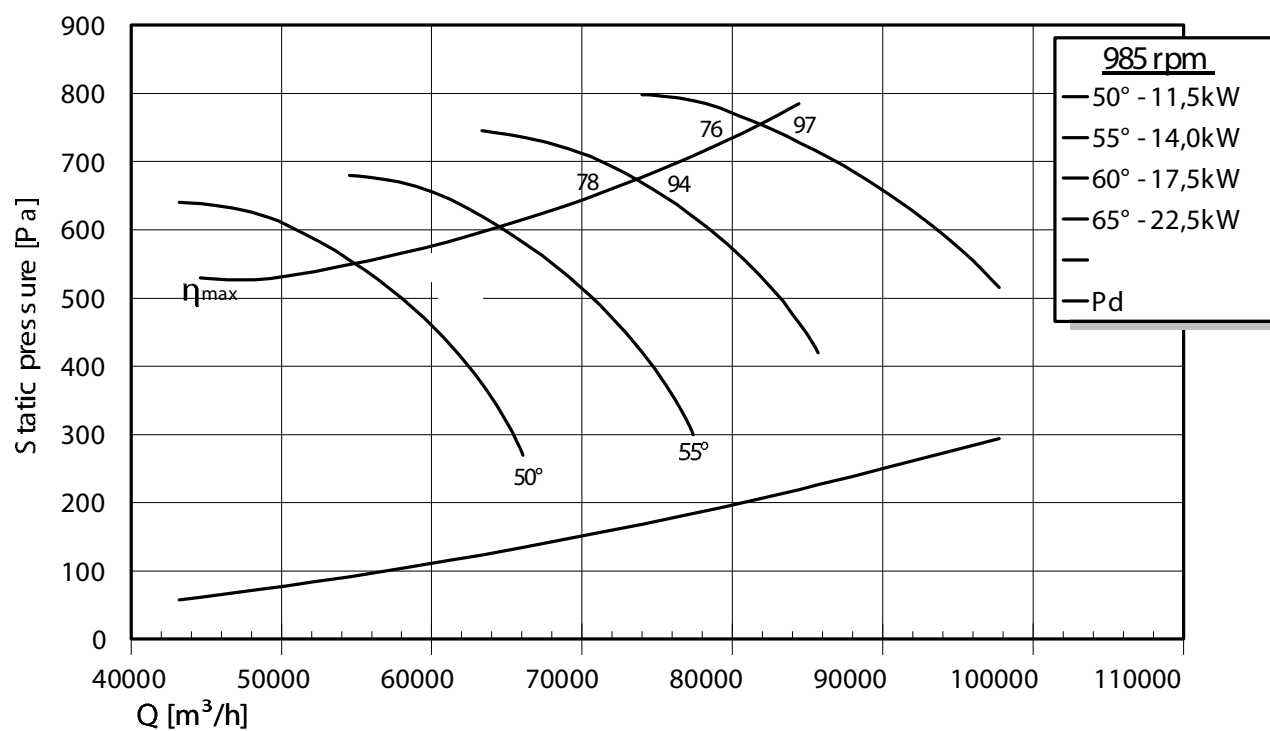
MPV 1120 D1
WOM(O) - 112

NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 985 rpm (50Hz)

q [m³/s]

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



v [m/s]

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

110

100

90

80

70

60

50

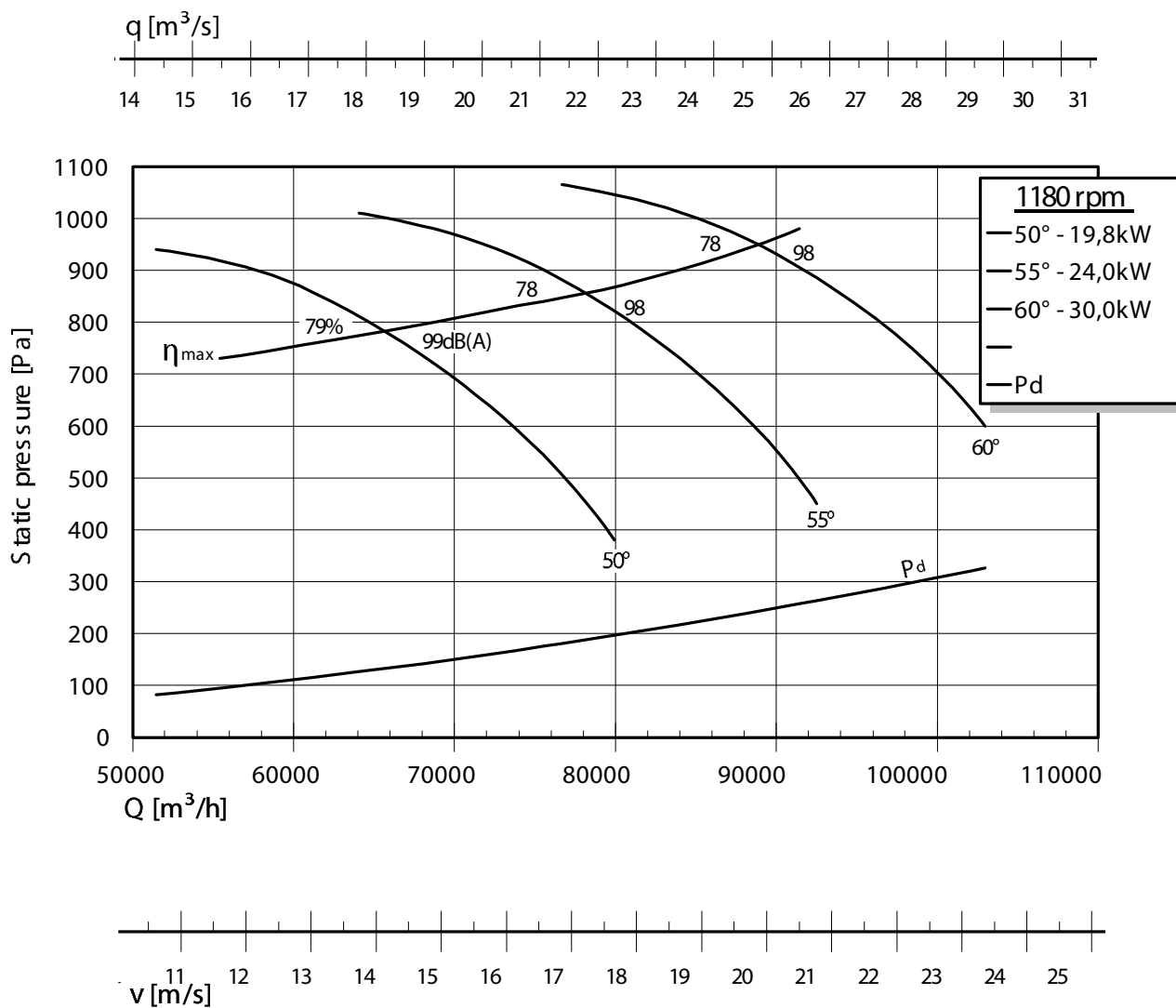
50



NYBORG VANEAXIAL FAN PERFORMANCE DATA

Speed 1180 rpm (60Hz)

MPV 1250 D1
WOM(O) - 125



n-mw04prs-21



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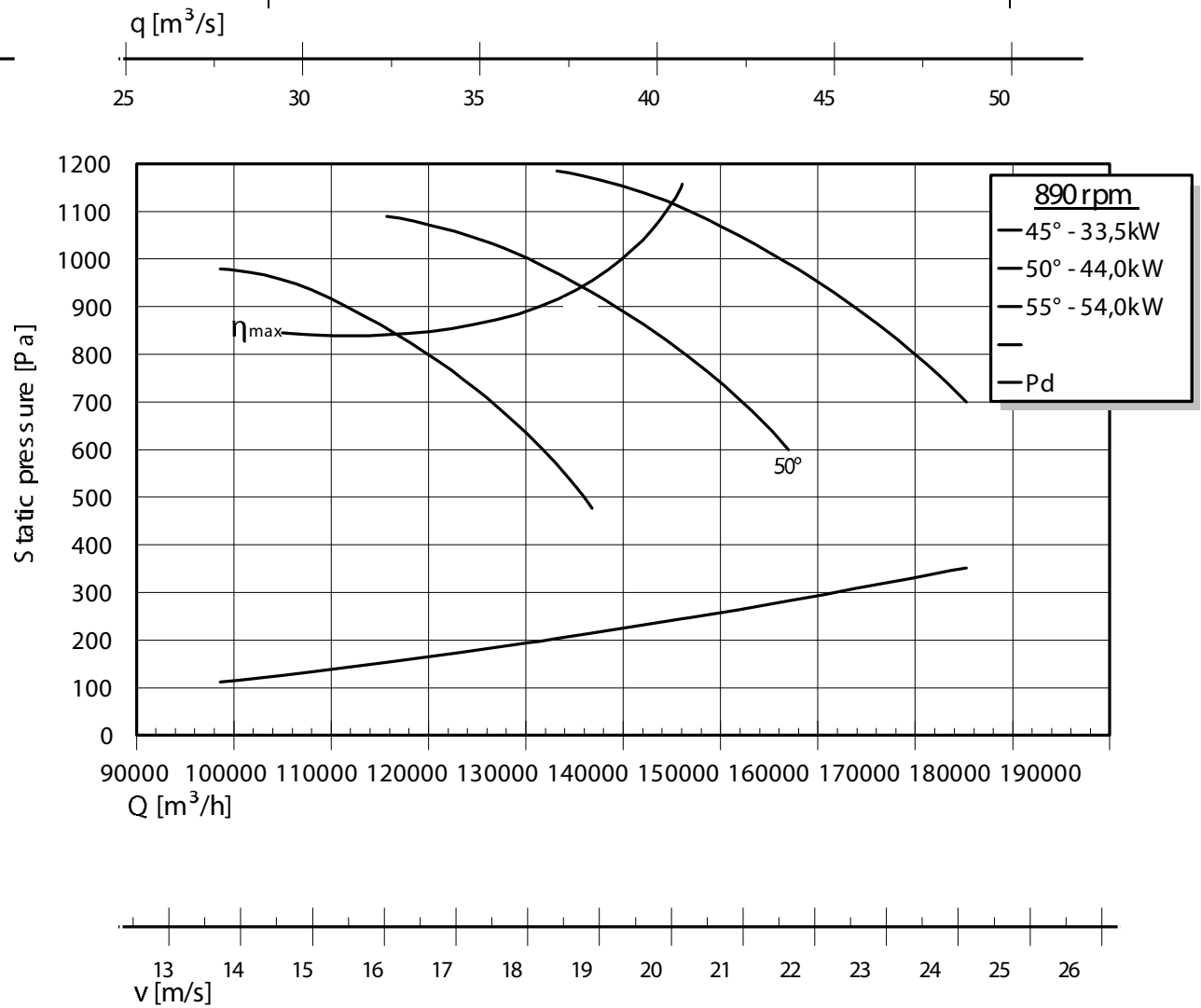


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MPV 1250 D1
WOM(O) - 125

NYBORG VANEAXIAL FAN PERFORMANCE DATA

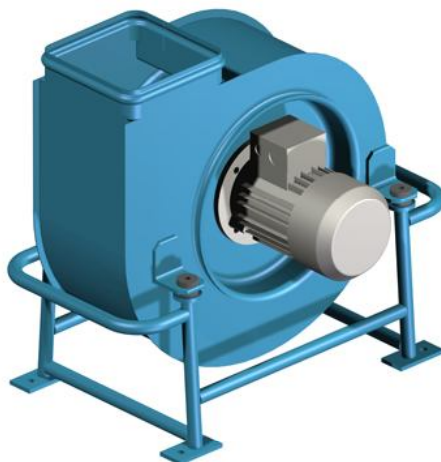
Speed 890 rpm (60Hz)





OKRĘTOWE WENTYLATORY ODŚRODKOWE ALFA 16÷100

ALFA 16÷100



ZASTOSOWANIE

Wentylatory typu Alfa 16÷100 w wykonaniu standardowym są przeznaczone do wymuszania ruchu obojętnego chemicznie medium w obrębie systemów wentylacyjnych oraz linii technologicznych na statkach pełnomorskich, bez ograniczeń w zakresie obszaru funkcjonowania. Wentylatory przeznaczone są do wymiany powietrza w ładowniach, maszynowniach i zamkniętych przedziałach. Temperatura medium przepływającego przez wentylator nie powinna przekraczać 318K (45°C), a zawartość pyłu nie może być większa niż 0,3g/m³. Wentylatory typu Alfa charakteryzuje krzywa poboru mocy dostosowana do sprawności: zużycie energii zmniejsza się po tym, jak wydajność wzrasta powyżej punktu wydajności optymalnej, dzięki czemu silnik napędu jest chroniony przed przeciążeniem. Specjalne wykonania wentylatorów:

*Alfa-16÷31 -z aluminium

*Alfa-16÷63 – zawieszane pod sufitem. Mogą zostać również wykonane tak jak wentylatory aluminiowe w rozmiarach 16÷31,5

Oprócz wspomnianych wersji, można wykonać następujące modyfikacje wentylatorów Alfa-16÷100:

- wersja odporna na korozję (1H18N9T) do wymuszania ruchu medium, które może powodować korozję.

KONSTRUKCJA

Wentylatory odśrodkowe typu Alfa są produkowane w 9 rozmiarach Alfa 16; 20; 25; 31,5; 40; 50; 63; 80 i 100. Każdy rozmiar może zostać wykonany w 8 modelach obudowy (rysunki): RD0, RD90, RD180, RD270, LG0, LG90, LG180 i LG270. Rysunki prawe (RD) stanowią lustrzane odbicie lewych (rysunki LG)

W standardowym wykonaniu wirnik napędzany, obudowa oraz stopa wentylatora wykonane są ze stali czarnej o standardowej jakości.

W wersji odpornej na korozję wirnik i obudowa wentylatora wykonane są ze stali odpornej na korozję.

W wersji aluminiowej wirnik, obudowa oraz stopa wentylatora są odlane ze stopu aluminium.

Wentylatory Alfa 16÷100 są wyposażone w amortyzatory drgań.

Wentylatory typu Alfa mają napęd bezpośredni (wirnik jest osadzony bezpośrednio na wale silnika). Elektryczne silniki wentylatorów są indukcyjnymi, trójfazowymi silnikami klatkowymi typu okrętowego przeznaczonymi do napięcia zasilania 3 x440V i częstotliwości 50 Hz.

Wentylatory typu Alfa 25÷100 mogą być również wyposażone w silniki przeznaczone do napięcia zasilania 3x440V i częstotliwości 60 Hz.

Ochrona antykorozyjna dla wykonania standardowych – powłoka malarska wykonana systemem złożonym z farb typu okrętowego

CHARAKTERYSTYKI

Charakterystyki przepływu przedstawiają się jako funkcję wydajności objętościowych dla podanych rozmiarów i prędkości obrotowej oraz gęstości powietrza 1,2 kg/m³

ZAMAWIANIE

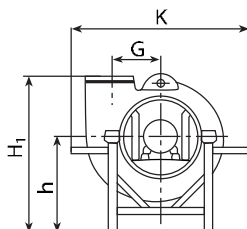
Składając zamówienie należy podać następujące dane techniczne: typ i rozmiar wentylatora, wersję wykonania, model obudowy (rysunek), sięganie całkowite, wydajność objętościowa, moc, prędkość obrotową silnika, napięcie zasilania oraz częstotliwość.



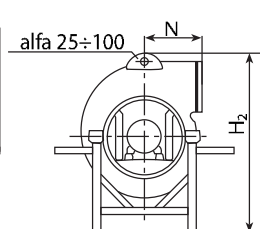
MARINE CENTRIFUGAL FANS

ALFA-16÷100

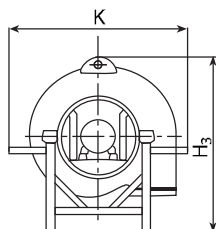
RD 0



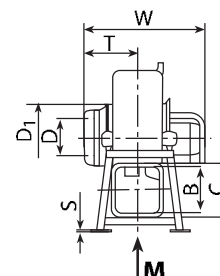
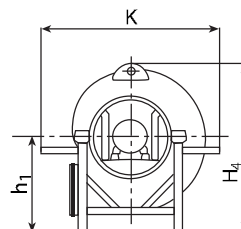
RD 90



RD 180



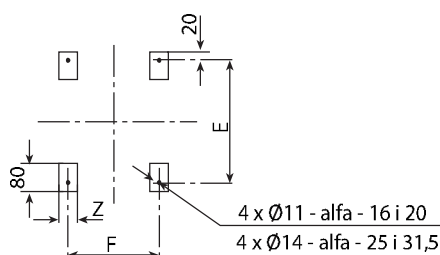
RD 270



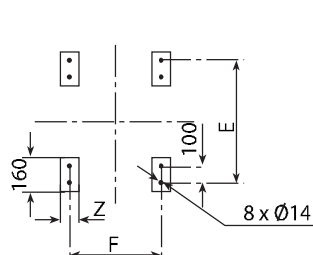
The fan size	h	h ₁	G	N	T	W	K	H ₁	H ₂	H ₃	H ₄	D	D ₁	B	C	E	F	S	Z
Alfa-16	250	-	141	206	145	370	504	456	473	452	425	160	200	140	158	405	250	6	40
Alfa-20	300	-	174	245	170	420	614	545	576	543	516	200	250	180	198	455	300		
Alfa-25	400	-	218	293	196	434÷514	776	693	790	748	713	250	315	224	242	545	355	8	50
Alfa-31,5	500	-	276	355	232	474÷582	952	855	975	923	880	315	400	280	298	640	450		
Alfa-40	560	630	351	465	295	580÷650	1410	1025	1165	1200	1115	400	500	355	375	840	560		
Alfa-50	670	750	435	561	333	670÷770	1335	1231	1410	1325	1335	500	630	450	470	980	670		
Alfa-63	900	-	552	681	400	812÷992	1720	1581	1805	1705	1615	630	800	560	582	1250	900	12	80

M

Alfa - 16÷31,5



Alfa - 40÷63



The fan size	Impeller		Weight of fan without motor
	Weight	GD ²	
	kg	Nm ²	kg
Alfa-16	2,0	0,4	12,5
Alfa-20	2,7	1,0	22,0
Alfa-25	4,6	2,3	38,0
Alfa-31,5	6,4	5,1	56,0
Alfa-40	13,5	19,7	95,0
Alfa-50	21,0	40,0	138,0
Alfa-63	40,0	128,0	340,0



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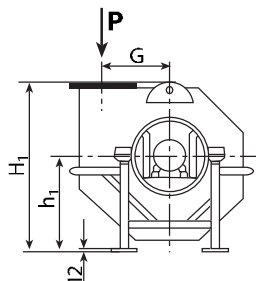
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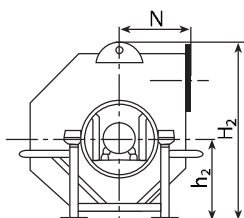
MARINE CENTRIFUGAL FANS

ALFA-16÷100

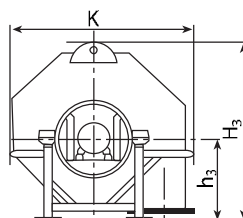
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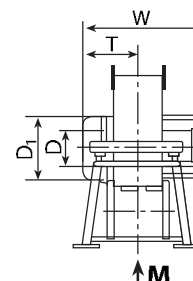
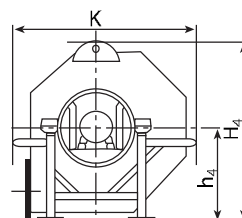
RD 90



RD 180



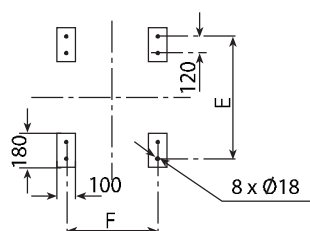
RD 270



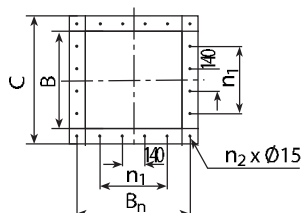
The fan size	G	N	T	W	K	h ₁	h ₂	h ₃	h ₄	H ₁	H ₂	H ₃	H ₄	D	D ₁	E	F
Alfa-80	700	796	592	1180÷1235	2090	1020	920	920	1200	1890	2070	1940	2110	800	1000	1480	1080
Alfa-100	830	936	710	1450÷1550	2440	1180	1000	1000	1450	2213	2375	2225	2495	1000	1250	1770	1225

M

Alfa - 80÷100



P



The fan size	B	B _n	C	n ₁	n ₂	Impeller		Weight of fan without motor
						Weight	GD ²	
						kg	Nm ²	kg
Alfa-80	710	780	838	3	20	78,0	410,0	702
Alfa-100	850	920	978	5	28	152,5	1270,0	975



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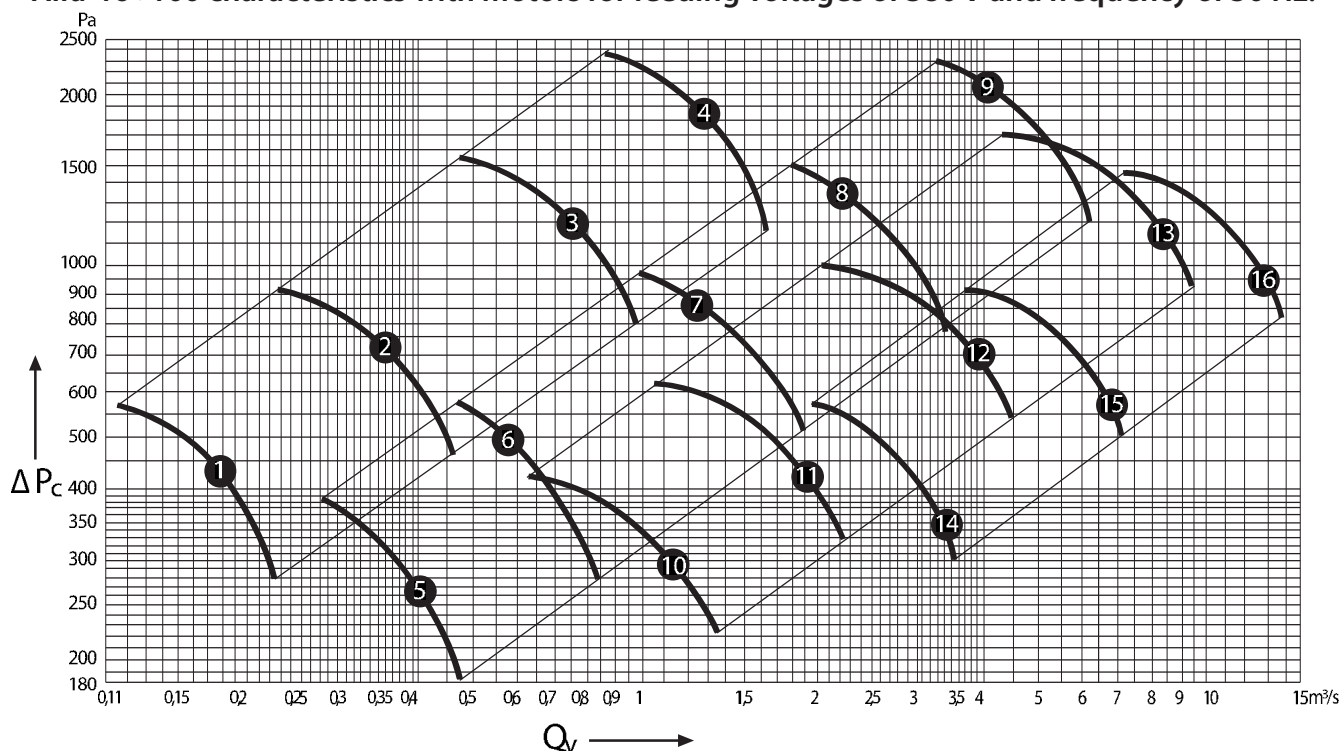
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MARINE CENTRIFUGAL FANS

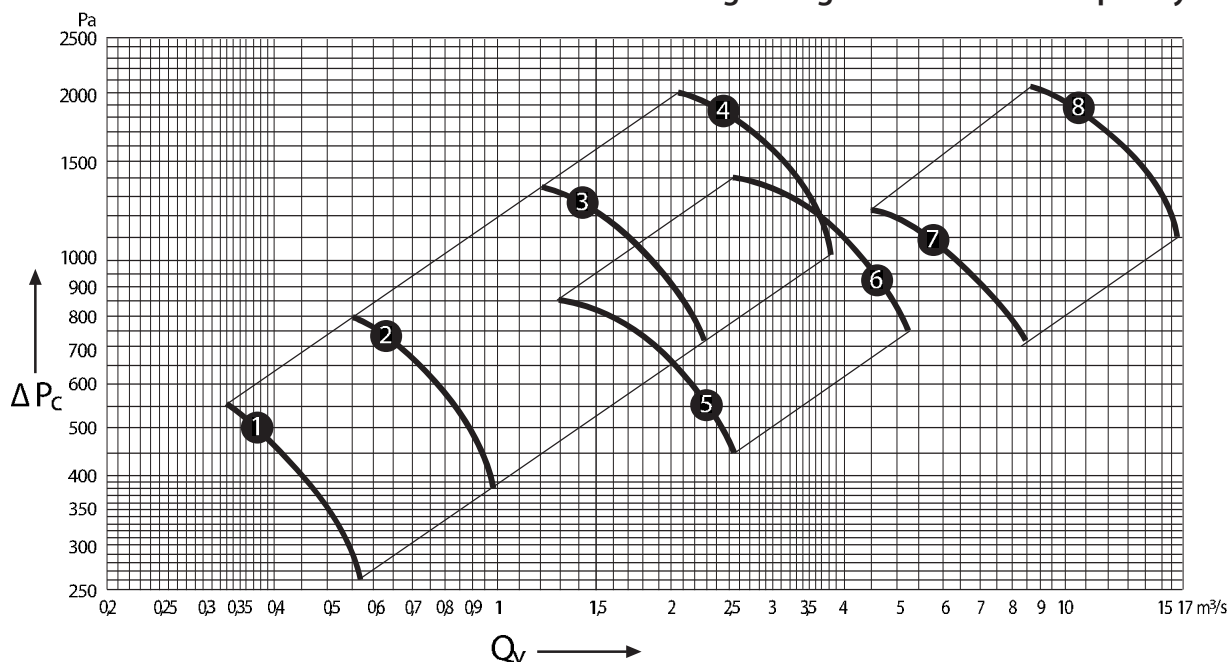
ALFA-16÷100

Alfa-16÷100 characteristics with motors for feeding voltages of 380 V and frequency of 50 Hz.



- | | | | |
|----------------------------------|-----------------------------------|----------------------------------|----------------------------------|
| 1 Alfa-16 / 0,25kW - 2780 r.p.m. | 5 Alfa-25 / 0,25kW - 1400 r.p.m. | 9 Alfa-63 / 16,6kW - 1420 r.p.m. | 13 Alfa-80 / 17,5kW - 985 r.p.m. |
| 2 Alfa-20 / 0,55kW - 2820 r.p.m. | 6 Alfa-31,5 / 0,5kW - 1420 r.p.m. | 10 Alfa-40 / 0,75kW - 920 r.p.m. | 14 Alfa-63 / 2,2kW - 720 r.p.m. |
| 3 Alfa-25 / 2,2kW - 2845 r.p.m. | 7 Alfa-40 / 2,8kW - 1425 r.p.m. | 11 Alfa-50 / 14kW - 9500 r.p.m. | 15 Alfa-80 / 10kW - 730 r.p.m. |
| 4 Alfa-31,5 / 4kW - 2915 r.p.m. | 8 Alfa-50 / 5kW - 1455 r.p.m. | 12 Alfa-63 / 5kW - 970 r.p.m. | 16 Alfa-100 / 22kW - 735 r.p.m. |

Alfa-25÷100 characteristics with motors for feeding voltages of 440 V and frequency of 50 Hz.



- | | | | |
|-----------------------------------|---------------------------------|---------------------------------|--------------------------------|
| 1 Alfa-25 / 1,3kW - 1715 r.p.m. | 3 Alfa-40 / 3,5kW - 1720 r.p.m. | 5 Alfa-50 / 3,4kW - 1160 r.p.m. | 7 Alfa-80 / 12kW - 880 r.p.m. |
| 2 Alfa-31,5 / 1,3kW - 1715 r.p.m. | 4 Alfa-50 / 8kW - 1755 r.p.m. | 6 Alfa-63 / 8kW - 1150 r.p.m. | 8 Alfa-100 / 35kW - 885 r.p.m. |



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MARINE CENTRIFUGAL FANS

ALFA-16÷100

The fan size	Electric motor type	Power	Rotation speed	Supply voltage	Frequency	Weight
		kW	rpm	V	Hz	kg
Alfa-16	mSKg63-2B	0,25	2780	380	50	4,4
Alfa-20	mSKg71-2B	0,55	2820			6,2
Alfa-25	mSKg71-4A	0,25	1400			5,2
	mSSKg90S-4	1,3	1715	440	60	18,5
	mSSKg90L-2	2,2	2845	380	50	22,0
Alfa-31,5	mSKg80-4A	0,5	1420			7,8
	mSSKg90S-4	1,3	1715	440	60	18,5
	mSSKg112M-2	4,0	2915	380	50	41,0
Alfa-40	mSSg90S-6	0,75	920			17,5
	mSSg100L-4B	2,8	1425			32,0
		3,5	1720	440	60	
Alfa-50	mSSg100L-6	1,4	950	380	50	28,0
	mSSg132S-6	3,4	1160	440	60	49,0
	mSSg132S-4	5,0	1455	380	50	54,0
	mSSg132M-4	8,0	1755	440	60	66,0
Alfa-63	mSSg132S-8	2,2	720	380	50	53,0
	mSSg132M-6B	5,0	970			66,0
	mSSg160M-6	8,0	1150	440	60	105,0
	mSSg180M-4	16,6	1470	380	50	165,0
Alfa-80	mSSg180L-8	10,0	730			
		12,0	880	440	60	
	m2Sg200L-6A	17,5	985	380	50	250,0
Alfa-100	m2Sg225M-8	22,0	735			315,0
	m2Sg250M-8	35,0	885	440	60	420,0

It is reserved the right of technical changes introducing



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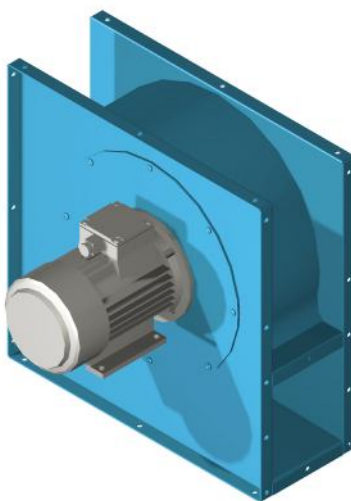


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WENTYLATORY ODŚRODKOWE

TYP
LSV/MSV/HSV



ZASTOSOWANIE

Wentylatory odśrodkowe dzielą się na trzy główne grupy: nisko-, średnio-, i wysokociśnieniowe.

KONSTRUKCJA

Konstrukcja oparta jest na się na trzech głównych grupach, nisko-, średnio-, i wysokociśnieniowych.

Konstrukcja i kształt wirnika napędzanego wentylatora jest uzależniony od jego zastosowania, uwarunkowanego wymaganą objętością powietrza i spadkiem ciśnienia.

Wirniki dzielą się na cztery główne grupy. W celu realizacji specyfikacji klientów, dostępne są również rozwiązania na specjalne zamówienie, takie jak model odporny na iskrzenie.

WYKONANIE

LSV i MSV są produkowane z odpornego na wodę morską aluminium i malowane.

Wykonanie ze stali nierdzewnej / AISI 316 lub na życzenie ze stali cynkowanej lub malowanej.

Wirnik wykonany jest z aluminium odpornego na działanie soli i amoniaku, o aerodynamicznym kształcie i wyważeniu. W czterech głównych grupach:

Typ B: łopatki odchylone w kierunku przeciwnym do obrotu wentylatora, wypukłe

Typ F: łopatki odchylone w kierunku obrotu wentylatora, koło 'Sciroccio'

Typ Z: łopatki odchylone w kierunku przeciwnym do obrotu wentylatora, wklęsłe samoczyszczące

Typ R: łopatki promieniste/promieniowe, do wentylatora transportowego

Przepustowość powietrza waha się od 1000 do 240 000 m³/n.

SILNIK ELEKTRYCZNY

Wentylatory są zwykle dostarczane ze standardowym indukcyjnymi klatkowymi silnikami elektrycznymi. Są również dostępne z silnikami elektrycznymi innego typu, jak silniki przeciwwybuchowe lub 2-biegowe

AKCESORIA

- Amortyzatory drgań
- Elastyczne połączenia wlot/wylot
- Cokół silnika (wymagany w przypadku ciężkich silników)
- Wlot kołnierzowy
- Przeciwołnierz wlot/wylot
- Kratka ochronna wlot/wylot
- Rama fundamentowa (tylko w przypadku wykonania z napędem pasowym)
- Właz inspekcyjny
- Wykonanie przeciwwybuchowe z osłoną przeciwwiskrową

KONSTRUKCJE SPECJALNE

- Wykonanie z napędem pasowym



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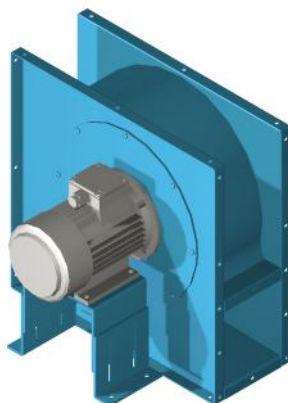


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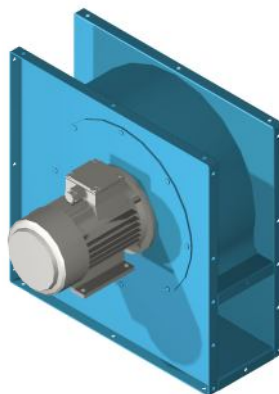


CENTRIFUGAL FANS

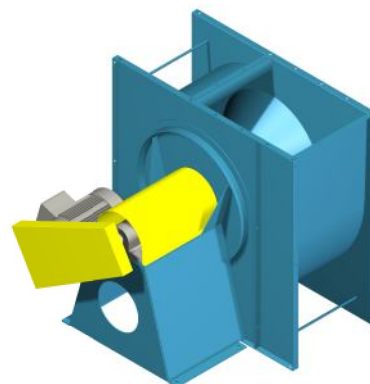
LSV - B1



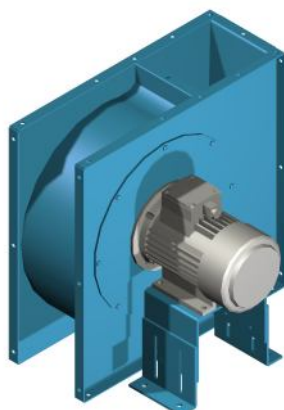
LSV - B1



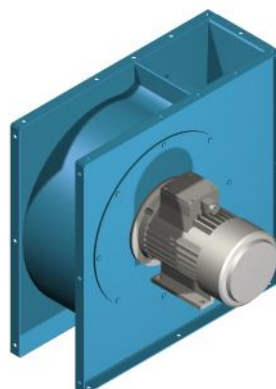
LSV - B3



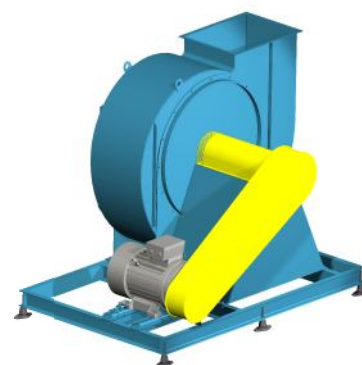
MSV - B1



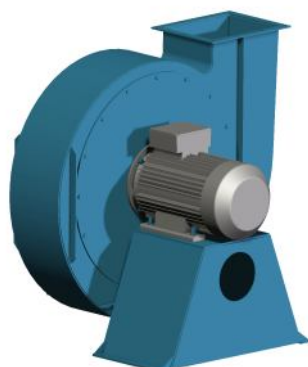
MSV - B1



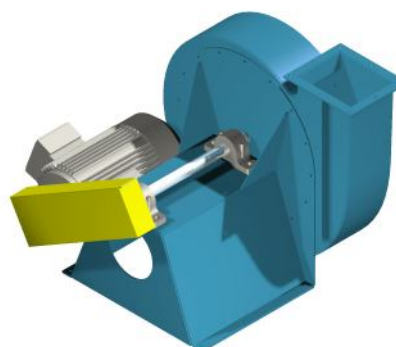
MSV - B2



HSV - B1



HSV - B3



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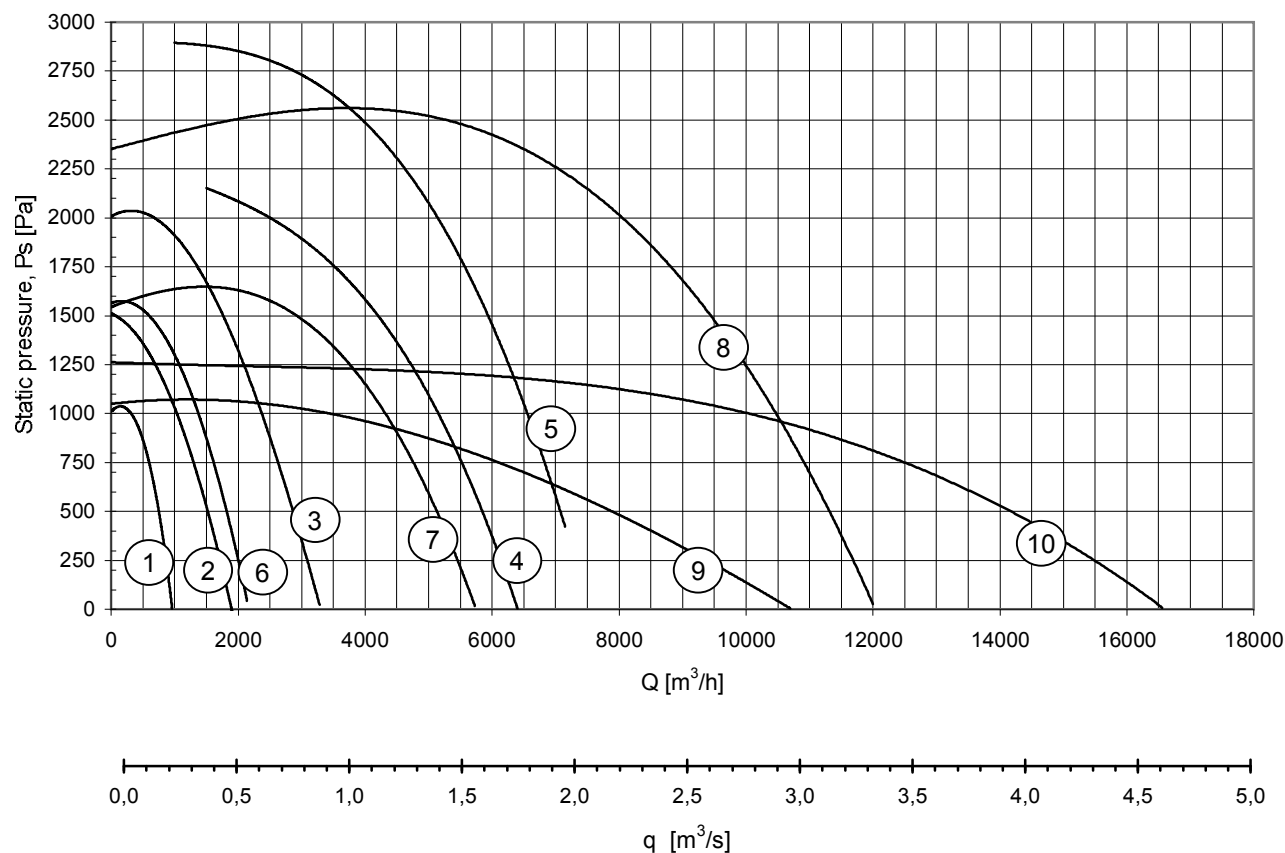


CENTRIFUGAL FANS

selection curves

(50Hz)

LSV and MSV



Curve	Fan	rpm	Fan power cons. [kW]	Sound press. [dBA] 1m	Motor	Motor power [kW]	Current [A] (400V)	Current [A] (230V)
1	MSV 125 B1	2900	0,34	70	71M02K	0,37	1,05	1,9
2	MSV 160 B1	2900	0,58	75	80M02K	0,86	1,85	3,35
3	MSV 200 B1	2900	1,18	79	90S02	1,5	3,5	6,1
4	MSV 250 B1	2900	3,4	85	112M02	4	8,2	14,2
5	MSV 315 B1	2900	5,5	88	132S02K	5,5	11,7	19,6
6	LSV 250 B1	2900	0,88	75	80M02	1,1	2,55	4,4
7	LSV 315 B1	2900	1,92	81	90L02	2,2	4,8	8,4
8	LSV 400 B1	2900	7,5	88	132S02	7,5	15	25,5
9	LSV 500 B1	1450	2,4	76	100L04	3	7	12
10	LSV 600 B1	1450	3,8	81	112M04	4	9,3	16

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LSV and MSV

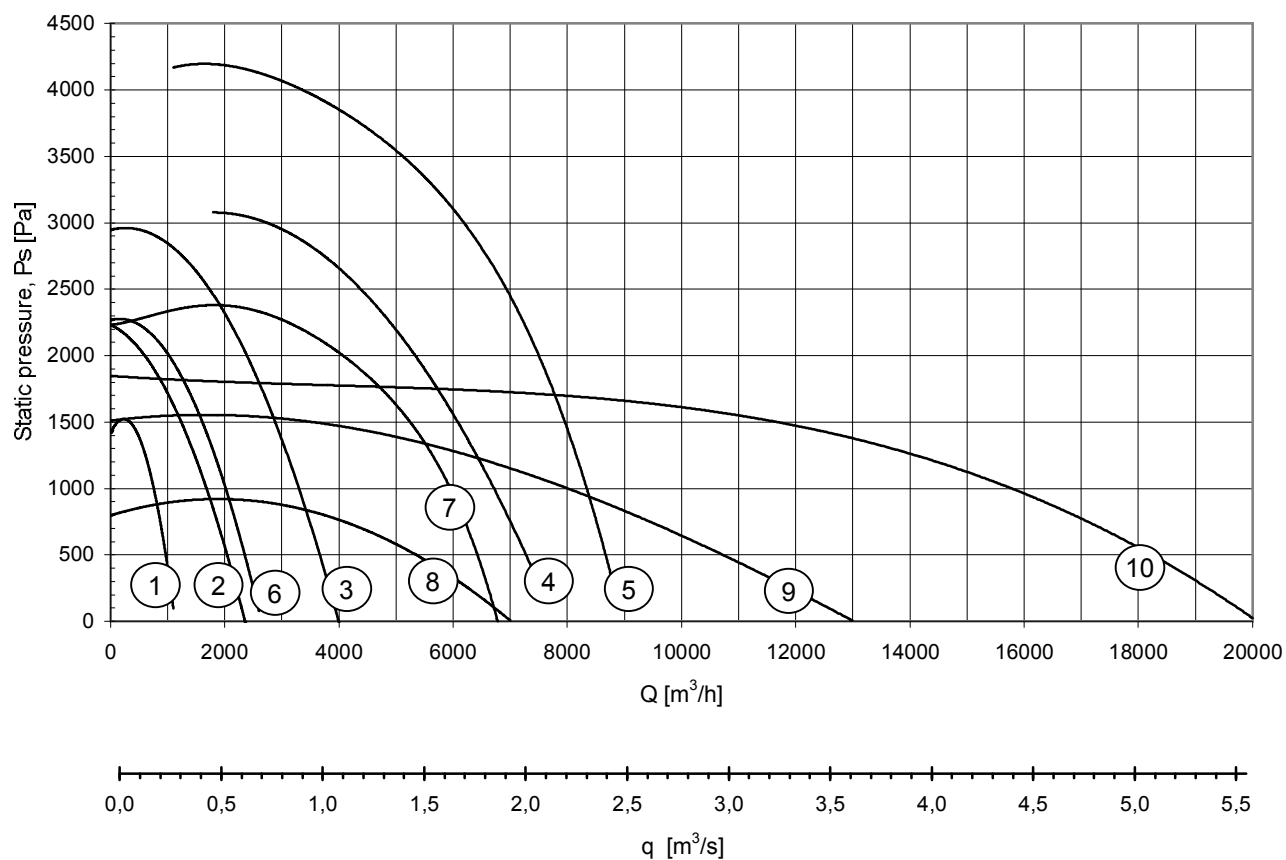


CENTRIFUGAL FANS

selection curves

(60Hz)

LSV and MSV



Curve	Fan	rpm	Fan power cons. [kW]	Sound press. [dBA] 1m	Motor	Motor power [kW]	Current [A] (440V)
1	MSV 125 B1	3500	0,58	75	71M02	0,63	1,4
2	MSV 160 B1	3500	1,02	80	80M02	1,3	2,5
3	MSV 200 B1	3500	2,08	83	90L02	2,55	4,8
4	MSV 250 B1	3500	6,1	89	112M02	6,3	11
5	MSV 315 B1	3500	9,6	93	132M02	12,6	20,6
6	LSV 250 B1	3500	1,55	82	90S02	1,75	3,4
7	LSV 315 B1	3500	3,4	85	100L02	3,45	6,3
8	LSV 400 B1	1750	1,55	72	90L04	1,75	3,6
9	LSV 500 B1	1750	4,2	79	112M04	4,6	8,8
10	LSV 600 B1	1750	6,7	84	132M04	8,6	16

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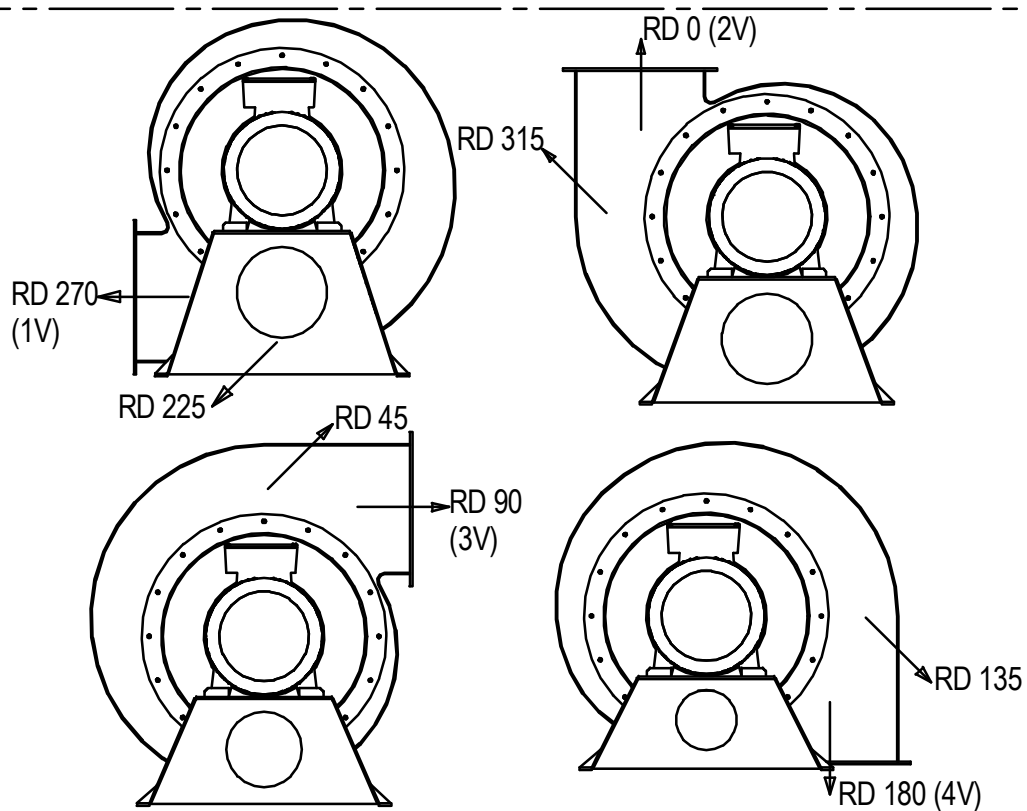
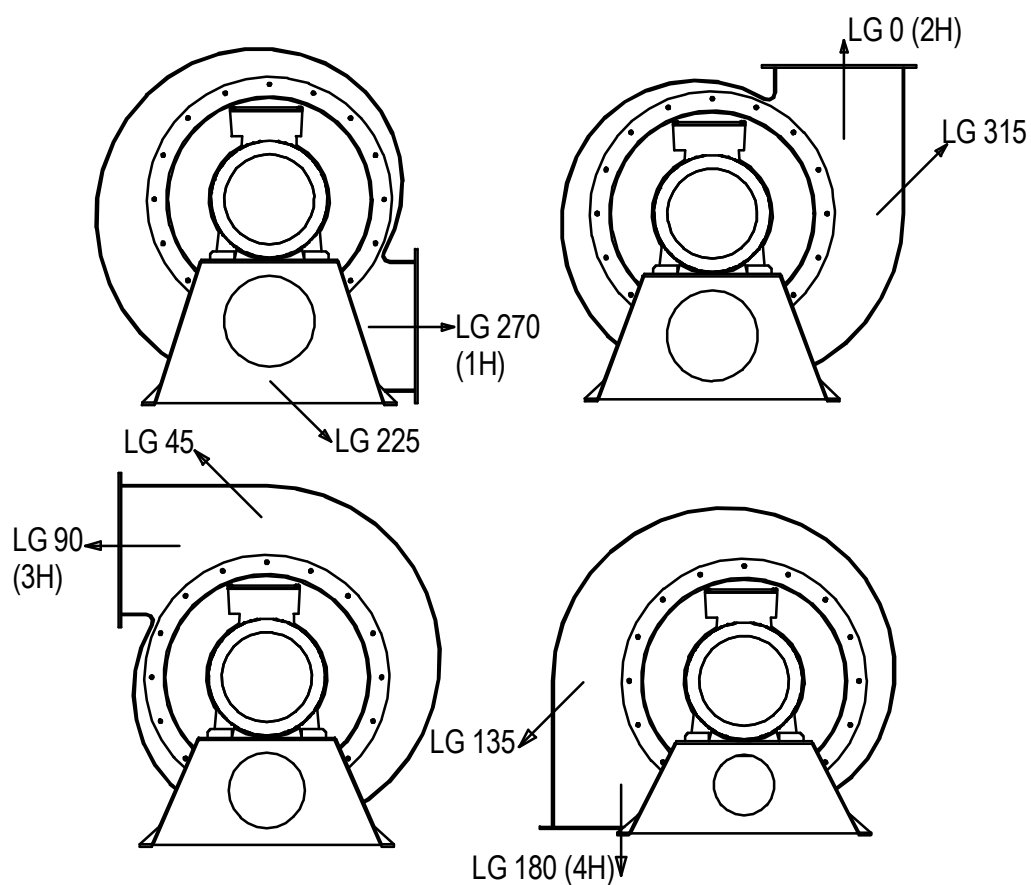


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LSV and MSV



MOUNTING POSITIONS IN ACCORDANCE TO EUROVENT CENTRIFUGAL FANS



06.12.00

F. Østro
4-2013-1



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Centrifugal Fans

Explanation of Fan Model Number

Fan model number is stated in the following way: Centrifugal Fan model MSV 160 B1.

MSV	160	B	1
figure no 1-3	Figure no 4-6	7	8

1. - 3. figure:

LSV : Low pressure centrifugal fan
MSV : Medium pressure centrifugal fan
HSV, HZV, HRV : High pressure centrifugal fan

4. -6. figure:

The size of the fan.

The numbers refers to nominal diameter (mm) on the fan's suction flange.

8.figure

- 1: Direct driven. impeller mounted on motor shaft
- 2: Belt driven. motor placed alongside the fan
- 3: Belt driven. motor mounted on the fan, belt screened



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SOUND POWER LEVELS (SWL) CALC. NYBORG CENTRIFUGAL FANS

FAN DATA			dB values at centre Hz								Theor
FAN MODEL	Rpm	Impeller	63	125	250	500	1000	2000	4000	8000	dBA
LSV 250 B	1450	B12x300x80	80	72	70	62	62	57	54	52	57
LSV 250 B	2900	B12x300x80	90	93	85	84	76	75	71	67	75
LSV 315 B	1450	B12x350x100	84	76	74	66	66	61	58	56	61
LSV 315 B	2900	B12x350x100	96	99	91	90	82	81	77	73	81
LSV 400 B	1450	B6x450x100	92	84	82	74	74	69	66	64	70
LSV 500 B	1450	B7x550x125	98	90	88	80	80	75	72	70	76
LSV 600 B	1450	B7x650x140	103	95	93	85	85	80	77	75	81
MSV 125 B	2900	B9x250x50	85	88	80	79	71	70	66	62	70
MSV 160 B	2900	B12x300x60	89	92	84	83	75	74	70	66	75
MSV 200 B	1450	B12x350x70	83	75	73	65	66	60	57	55	60
MSV 200 B	2900	B12x350x70	97	100	92	91	83	82	78	74	79
MSV 250 B	1450	B12x400x80	88	80	78	70	70	65	63	60	65
MSV 250 B	2900	B12x400x80	100	103	95	94	86	85	81	77	85
MSV 315 B	1450	B12x450x90	91	83	81	73	73	68	65	63	69
MSV 315 B	2900	B12x450x90	103	106	98	97	89	88	84	80	88

- Sound power levels in dB. ref. 10^{-12} W, internal values in fan openings.
- dBA values applies to 1 m. distance based on a theoretical free field environment.
- The sound power level values above are only intended as a guide, and may be used for calculations for sound pressure levels. (heard by the human ear).



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SOUND POWER LEVELS (SWL) CALC. NYBORG CENTRIFUGAL FANS

FAN DATA			dB values at centre Hz								Theor
FAN MODEL	Rpm	Impeller	63	125	250	500	1000	2000	4000	8000	dBA
LSV 250 B	1750	B12x300x80	82	76	74	67	65	61	58	55	61
LSV 250 B	3500	B12x300x80	95	98	93	90	84	81	77	74	82
LSV 315 B	1750	B12x350x100	85	79	77	70	68	64	61	58	64
LSV 315 B	3500	B12x350x100	98	101	96	93	87	84	80	77	85
LSV 400 B	1750	B6x450x100	93	87	85	78	76	72	69	66	72
LSV 500 B	1750	B7x550x125	99	93	91	84	82	78	75	72	79
LSV 600 B	1750	B7x650x140	104	98	96	89	87	83	80	77	84
MSV 125 B	3500	B9x250x50	89	92	87	84	78	75	71	68	75
MSV 160 B	3500	B12x300x60	94	97	92	89	83	80	76	63	80
MSV 200 B	1750	B12x350x70	84	78	76	69	67	63	60	57	63
MSV 200 B	3500	B12x350x70	97	100	95	93	86	83	79	76	83
MSV 250 B	1750	B12x400x80	90	84	82	75	73	69	66	63	70
MSV 250 B	3500	B12x400x80	102	105	100	97	91	88	84	81	89
MSV 315 B	1750	B12x450x90	94	88	86	79	77	73	70	67	73
MSV 315 B	3500	B12x450x90	106	109	104	101	95	92	88	85	93

- Sound power levels in dB. ref. 10^{-12} W, internal values in fan openings.
- dBA values applies to 1 m. distance based on a theoretical free field environment.
- The sound power level values above are only intended as a guide, and may be used for calculations for sound pressure levels. (heard by the human ear).



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PAINTING SPECIFICATION ALUMINIUM FANS

Surface preparation:

Step No	Description	Thickness	Type	Manufacturer
1	Washing	-	Aluminate (acid)	Alu-Nor
2	Cleaning	-	Water	-

Painting : Color RAL 5012

Step No	Description	Thickness	Type	Manufacturer
1	Primer	30 my	Joton Washprimer	Jotun
2	Topcoat	40 my	Jotun Ultra Topcoat	Jotun

GALVANIZE SPECIFICATION STEEL FANS

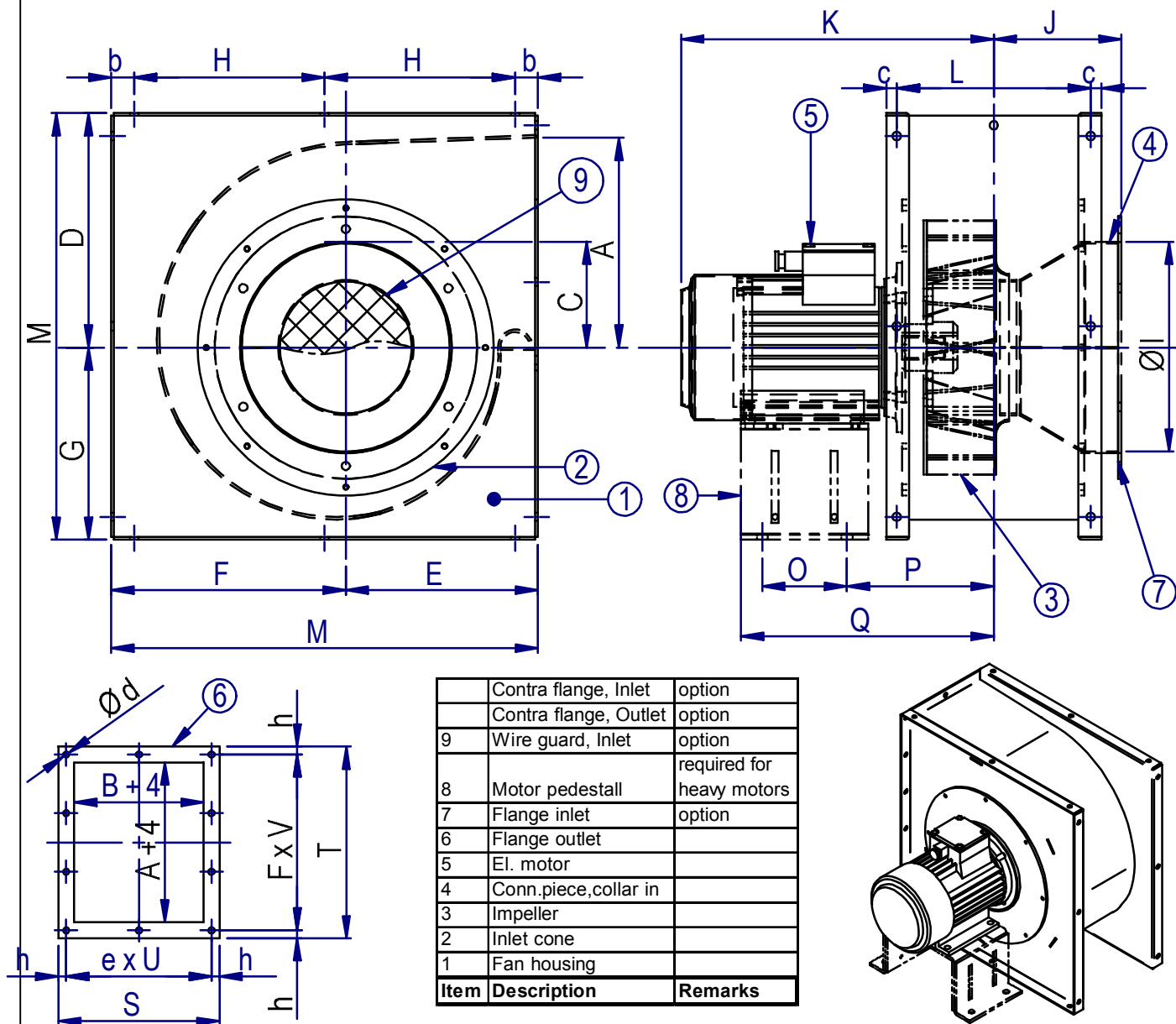
Surface preparation:

Step No	Description	Thickness	Type	Manufacturer
1	Cleaning	-	Nitric acid	-
2	Galvanizing	80my	Zn	-



LOW PRESSURE CENTRIFUGAL FAN Dimension Drawing

LSV - B1



Material: Alum.5052 (Option:AISI 316L)

Fan Size Ø I	A	B	C	D	E	F	G	H	J	K	L	M	weight [kg] excl. motor
250	248	200	125	277	227	277	227	225	146		229	504	10,5
315	296	230	150	327	272	307	252	262,5	161		258	579	13
400	405	298	200	433	353	413	333	350	197		334	766	24
500	494	384	250	533	403	543	413	440	250		420	946	34
600	600	460	300	633	503	623	493	530	288		496	1126	51
	b	c	d	e	f	h	U	V	S	T	O	P	Q
250	27	12,5	10	2	3	12,5	114,5	92,5	254	304			
315	27	12,5	10	2	3	12,5	129	108,5	284	350			
400	33	15	12	2	4	15	167	110	364	470			
500	33	15	12	3	4	15	140	132,5	450	560			
600	33	15	12	3	4	15	165,3	159	526	666			

4-2248

5/8-05
K.Klokk



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LSV - B1

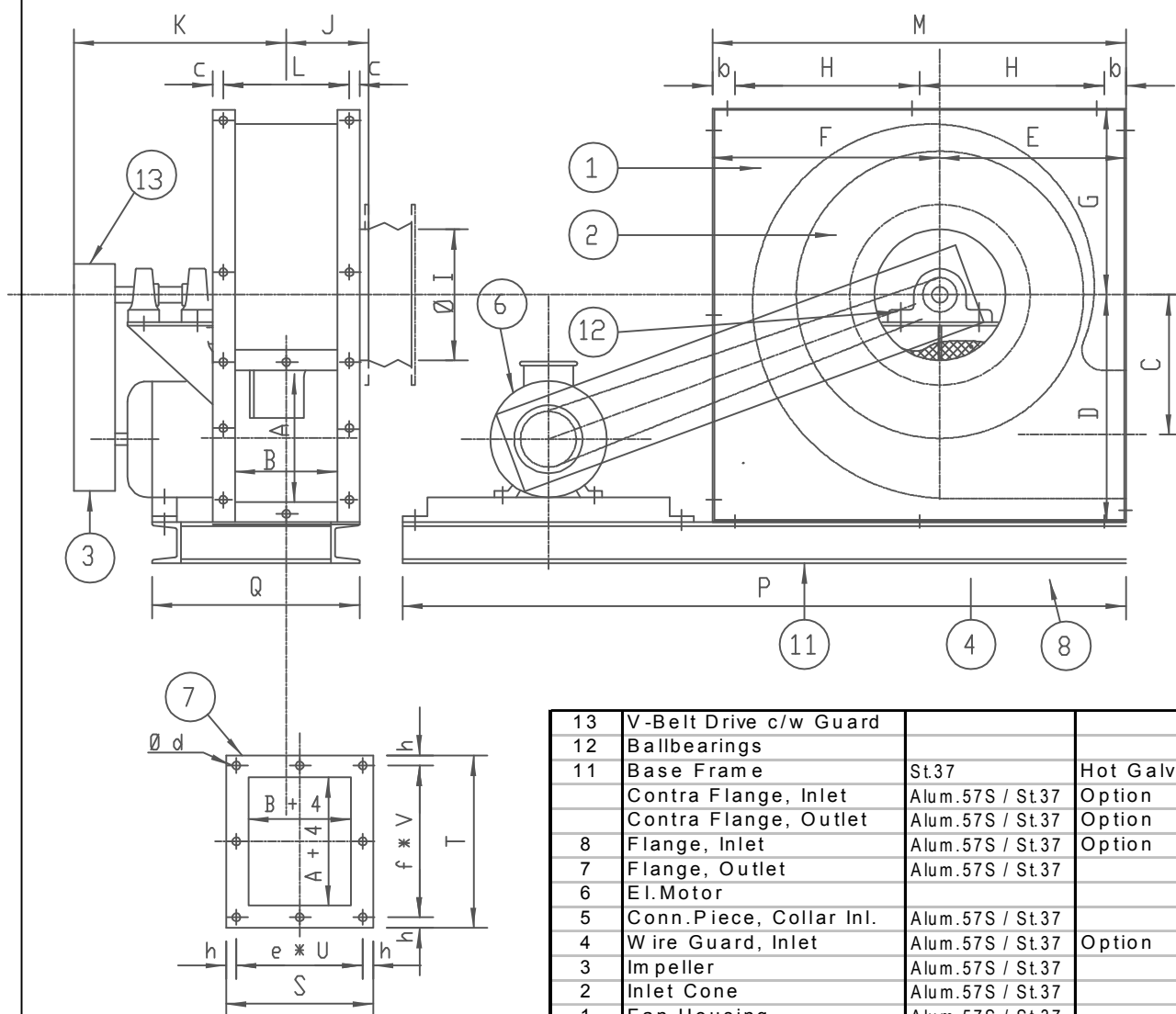


MEDIUM PRESSURE CENTRIFUGAL FAN

Belt Drive Design Dimension Drawing

MSV - B2

Bearing Pedestal



13	V-Belt Drive c/w Guard		
12	Ballbearings		
11	Base Frame	St.37	Hot Galv.
	Contra Flange, Inlet	Alum.57S / St.37	Option
	Contra Flange, Outlet	Alum.57S / St.37	Option
8	Flange, Inlet	Alum.57S / St.37	Option
7	Flange, Outlet	Alum.57S / St.37	
6	El.Motor		
5	Conn.Piece, Collar Inl.	Alum.57S / St.37	
4	Wire Guard, Inlet	Alum.57S / St.37	Option
3	Impeller	Alum.57S / St.37	
2	Inlet Cone	Alum.57S / St.37	
1	Fan Housing	Alum.57S / St.37	
Item	Description	Material	Remarks

Fan Size Ø I	A	B	C	D	E	F	G	H	J	K	L	M	
125	130	100	140	229	180	244	195	370	75		124	424	
160	156	125	170	277	227	277	227	225	100		154	504	
200	188	160	204	327	272	307	252	262,5	125		189	579	
250	250	190	233	392	282	392	282	305	145		224	674	
315	296	253	250	433	353	413	333	350	175		289	766	
	b	c	d	e	f	h	U	V	S	T	O	P	Q
125	22	10	9,5	1	1	10	124	154	144	174			
160	27	12,5	9,5	2	2	12,5	77	92,5	179	210			
200	27	12,5	9,5	2	2	12,5	94,5	108,5	214	242			
250	32	15	12	2	2	15	112	142	254	314			
315	33	15	12	2	3	15	144,5	110	319	360			

Date : 08/12-95

4-1140-m

Drawn : R.Berge



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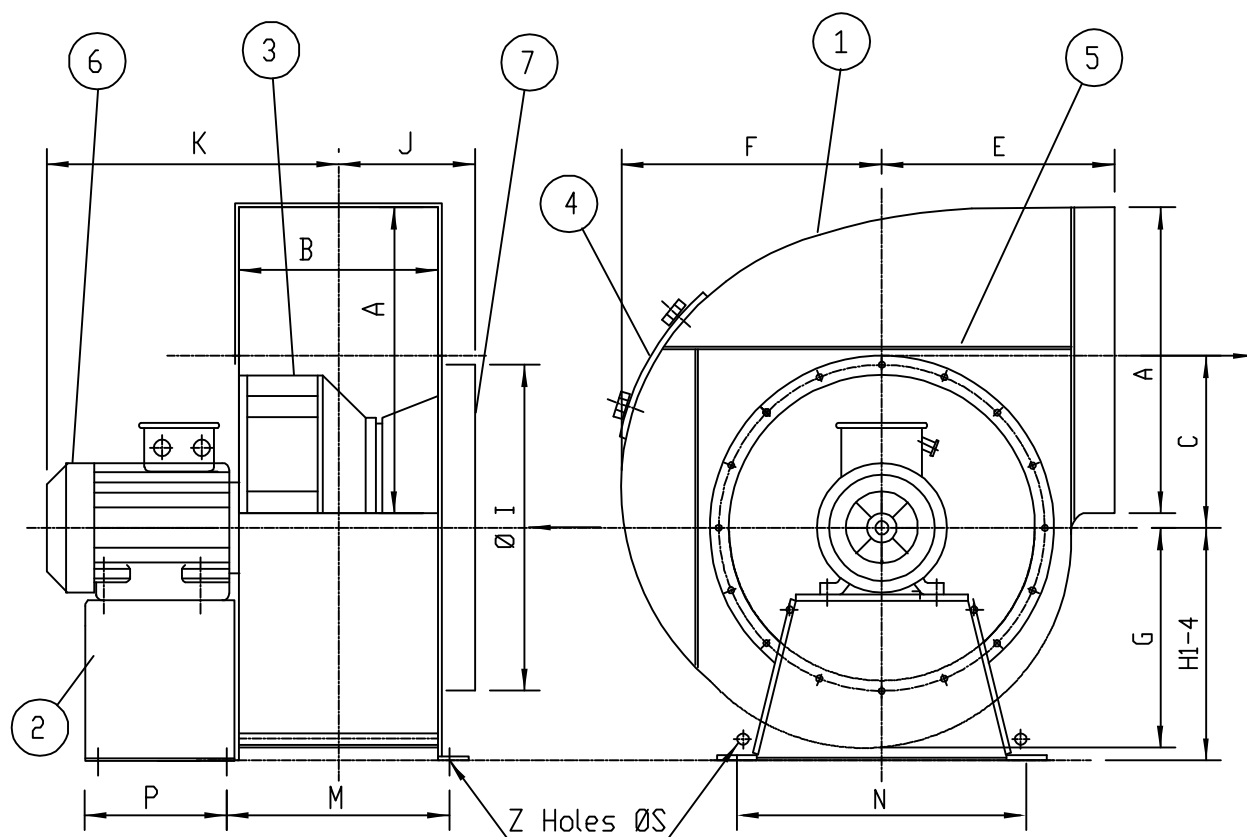
MSV - B2

Medium Pressure
Centrifugal Fan



LOW PRESSURE CENTR. FAN Direct Driven

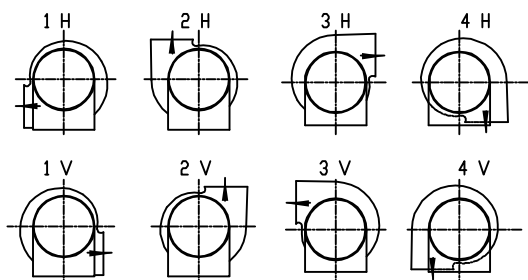
LSV-B1



SIZE NO	A= ØI	B	C	E	F	G	H1	H2	H3	H4	J	M	N	P	T	Z	S
700	700	548	400	500	625	530	800	650	550	460	330	695	760	400	4	4	14
800	800	620	450	540	680	575	900	750	650	500	365	765	850	350	4	4	14
900	900	706	500	600	755	635	1000	800	700	550	400		900		4	4	18
1000	1000	788	550	700	850	710	1100	900	750	650	475		1000		4	4	22

MOUNTING POSITIONS

To be seen against the inlet



- ① FAN HOUSING.
Matl.:
- ② MOTOR PEDESTAL.
Matl.:
- ③ FAN IMPELLER.
Matl.: Salt and amoniaresistive alum. alloy.
- ④ INSPECTION HATCH.
Matl.:
- ⑤ REINFORCEMENTS.
Matl.:
- ⑥ EL.MOTOR: Model:
kW: Rpm: V: Hz:
- ⑦ INLET CONE.
Matl.:

26.03.92

AMM

LSVB1BG



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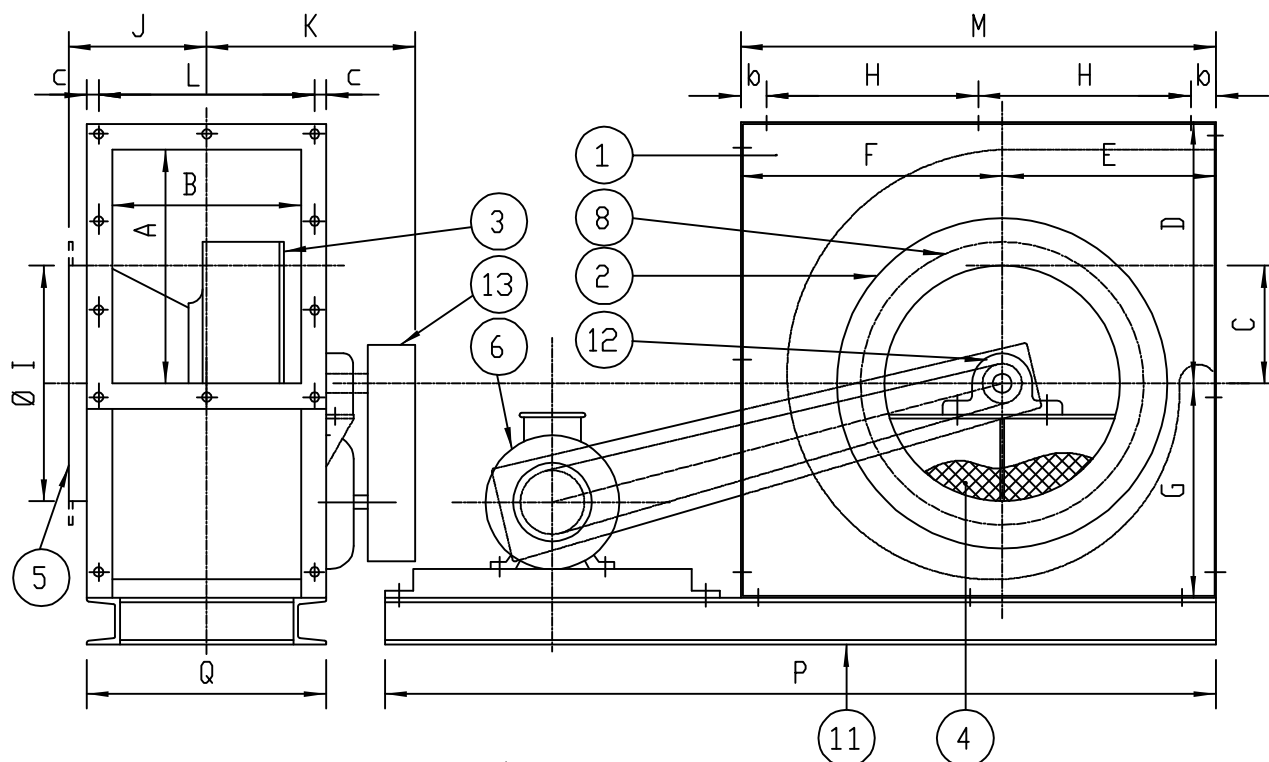
LSV-B1



LOW PRESSURE CENTRIFUGAL FAN Belt Drive Design Dimension Drawing

LSV - B2

Bearings in Inlet Cone



13	V-Belt Drive c/w Guard		
12	Ballbearings		
11	Base Frame	St.37	Hot Galv.
	Contra Flange, Inlet	Alum.57S / St.37	Option
	Contra Flange, Outlet	Alum.57S / St.37	Option
8	Flange, Inlet	Alum.57S / St.37	Option
7	Flange, Outlet	Alum.57S / St.37	
6	El.Motor		
5	Conn.Piece, Collar Inl.	Alum.57S / St.37	
4	Wire Guard, Inlet	Alum.57S / St.37	Option
3	Impeller	Alum.57S / St.37	
2	Inlet Cone	Alum.57S / St.37	
1	Fan Housing	Alum.57S / St.37	
Item	Description	Material	Remarks

Fan Size Ø I	A	B	C	D	E	F	G	H	J	K	L	M	
250	248	200	125	277	227	277	227	225	146		229	504	
315	296	230	150	327	272	307	252	262,5	161		258	579	
400	405	298	200	433	353	413	333	350	197		334	766	
500	494	384	250	533	403	543	413	440	250		420	946	
600	600	460	300	633	503	623	493	530	288		496	1126	
	b	c	d	e	f	h	U	V	S	T	O	P	Q
250	27	12,5	10	2	3	12,5	114,5	92,5	254	304			
315	27	12,5	10	2	3	12,5	129	108,5	284	350			
400	33	15	12	2	4	15	167	110	364	470			
500	33	15	12	3	4	15	140	132,5	450	560			
600	33	15	12	3	4	15	165,3	159	526	666			

Date : 08/12-94

4-1133-m

Drawn : R.Berge



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LSV - B2

Low Pressure
Centrifugal Fan

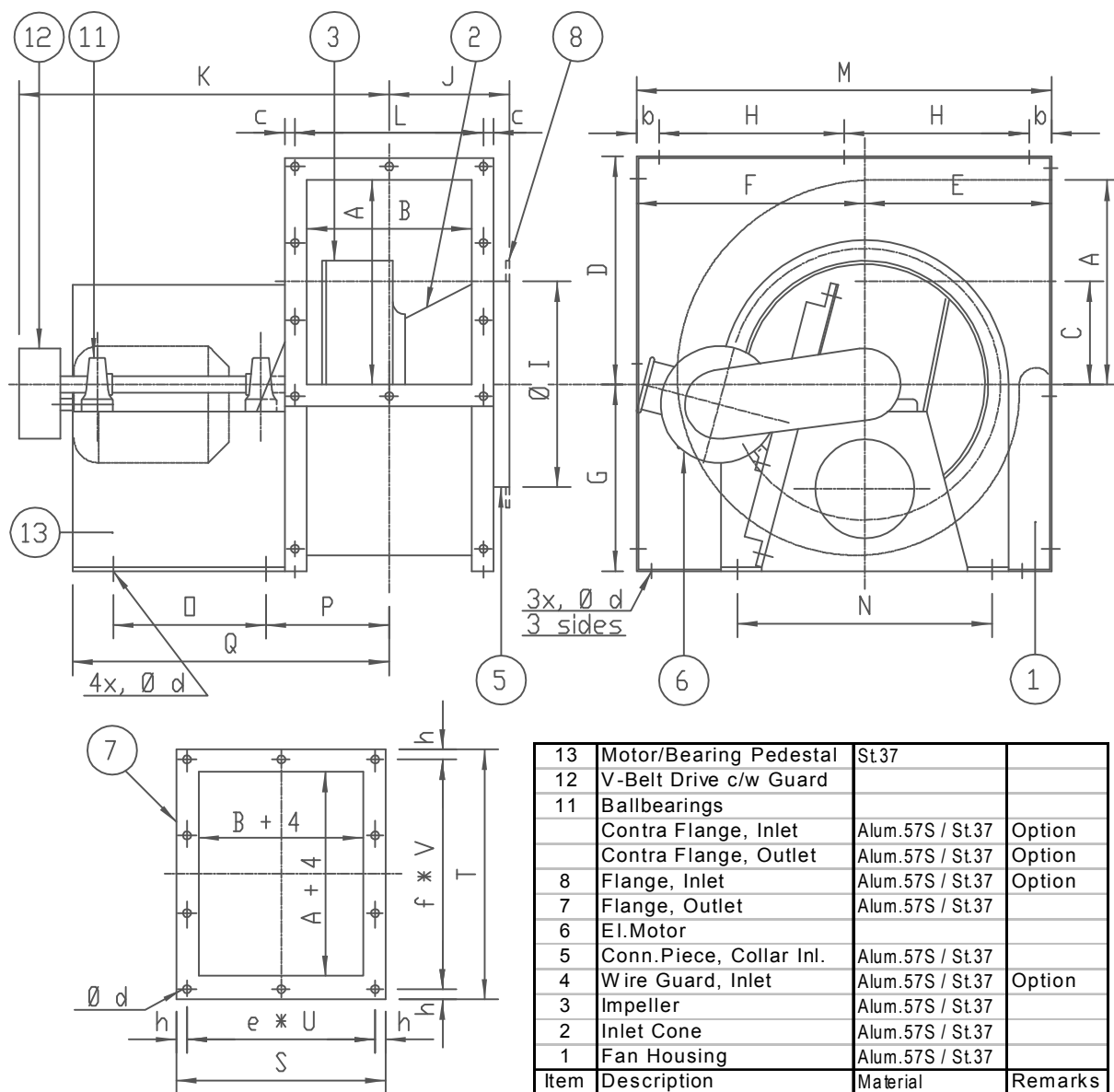


LOW PRESSURE CENTRIFUGAL FAN

Belt Drive Design

Dimension Drawing

LSV - B3
Motor-/ Bearing
Pedestal



Fan Size Ø I	A	B	C	D	E	F	G	H	J	K	L	M	
250	248	200	125	277	227	277	227	225	146		229	504	
315	296	230	150	327	272	307	252	262,5	161		258	579	
400	405	298	200	433	353	413	333	350	197		334	766	
500	494	384	250	533	403	543	413	440	250		420	946	
600	600	460	300	633	503	623	493	530	288		496	1126	
	b	c	d	e	f	h	U	V	S	T	O	P	Q
250	27	12,5	10	2	3	12,5	114,5	92,5	254	304			
315	27	12,5	10	2	3	12,5	129	108,5	284	350			
400	33	15	12	2	4	15	167	110	364	470			
500	33	15	12	3	4	15	140	132,5	450	560			
600	33	15	12	3	4	15	165,3	159	526	666			

Date : 09/12-94

4-1134-m

Drawn R.Berge



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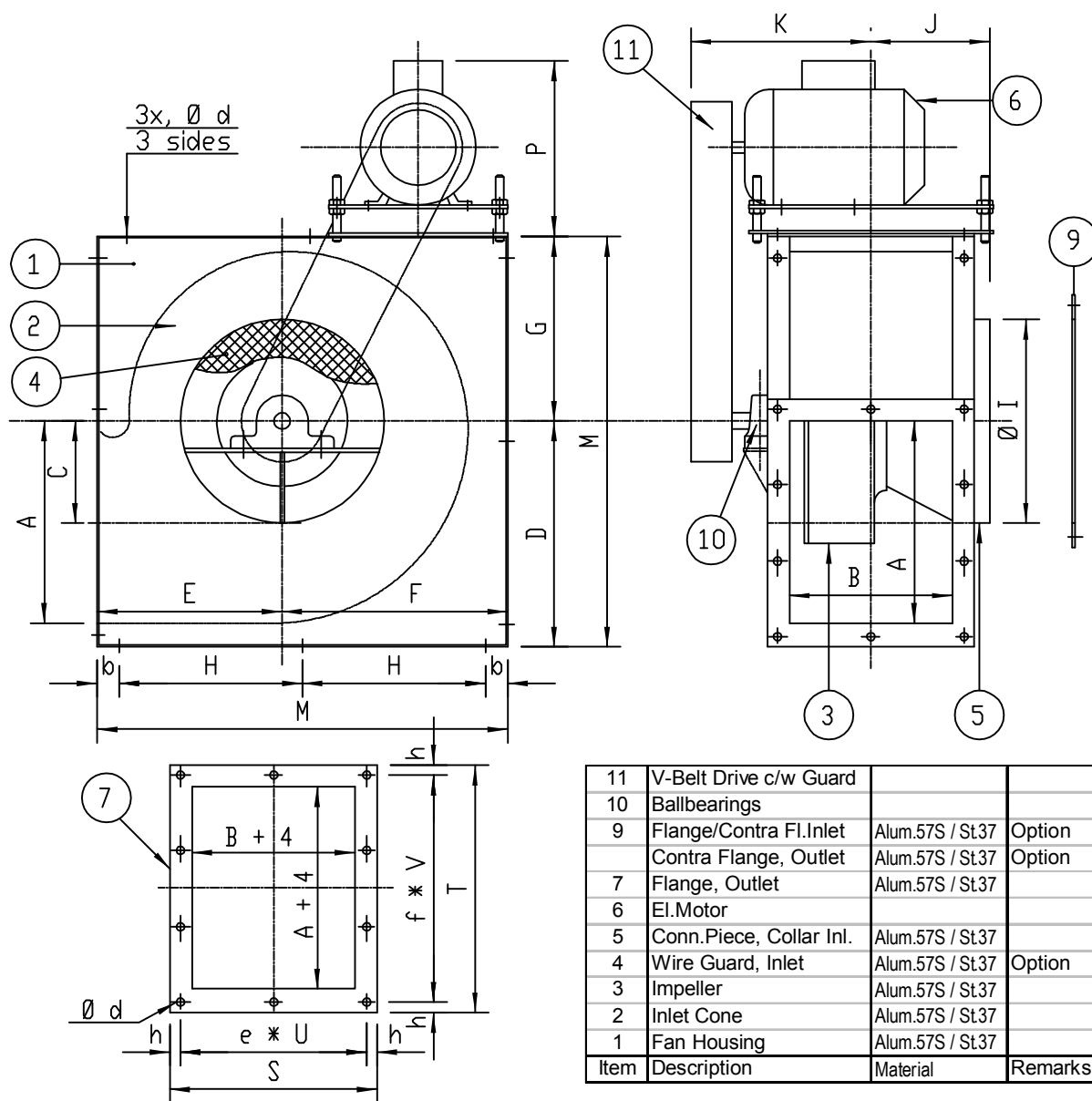
LSV - B3
Low Pressure
Centrifugal Fan



LOW PRESSURE CENTRIFUGAL FAN Belt Drive Design Dimension Drawing

LSV - B3

Motor on
Fan Housing



Fan Size Ø I	A	B	C	D	E	F	G	H	J	K	L	M	
250	248	200	125	277	227	277	227	225	146		229	504	
315	296	230	150	327	272	307	252	262,5	161		258	579	
400	405	298	200	433	353	413	333	350	197		334	766	
500	494	384	250	533	403	543	413	440	250		420	946	
600	600	460	300	633	503	623	493	530	288		496	1126	
	b	c	d	e	f	h	U	V	S	T	O	P	Q
250	27	12,5	10	2	3	12,5	114,5	92,5	254	304			
315	27	12,5	10	2	3	12,5	129	108,5	284	350			
400	33	15	12	2	4	15	167	110	364	470			
500	33	15	12	3	4	15	140	132,5	450	560			
600	33	15	12	3	4	15	165,3	159	526	666			

Date : 12/12-94

4-1135-m

Drawn : M.Berge



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LSV - B3

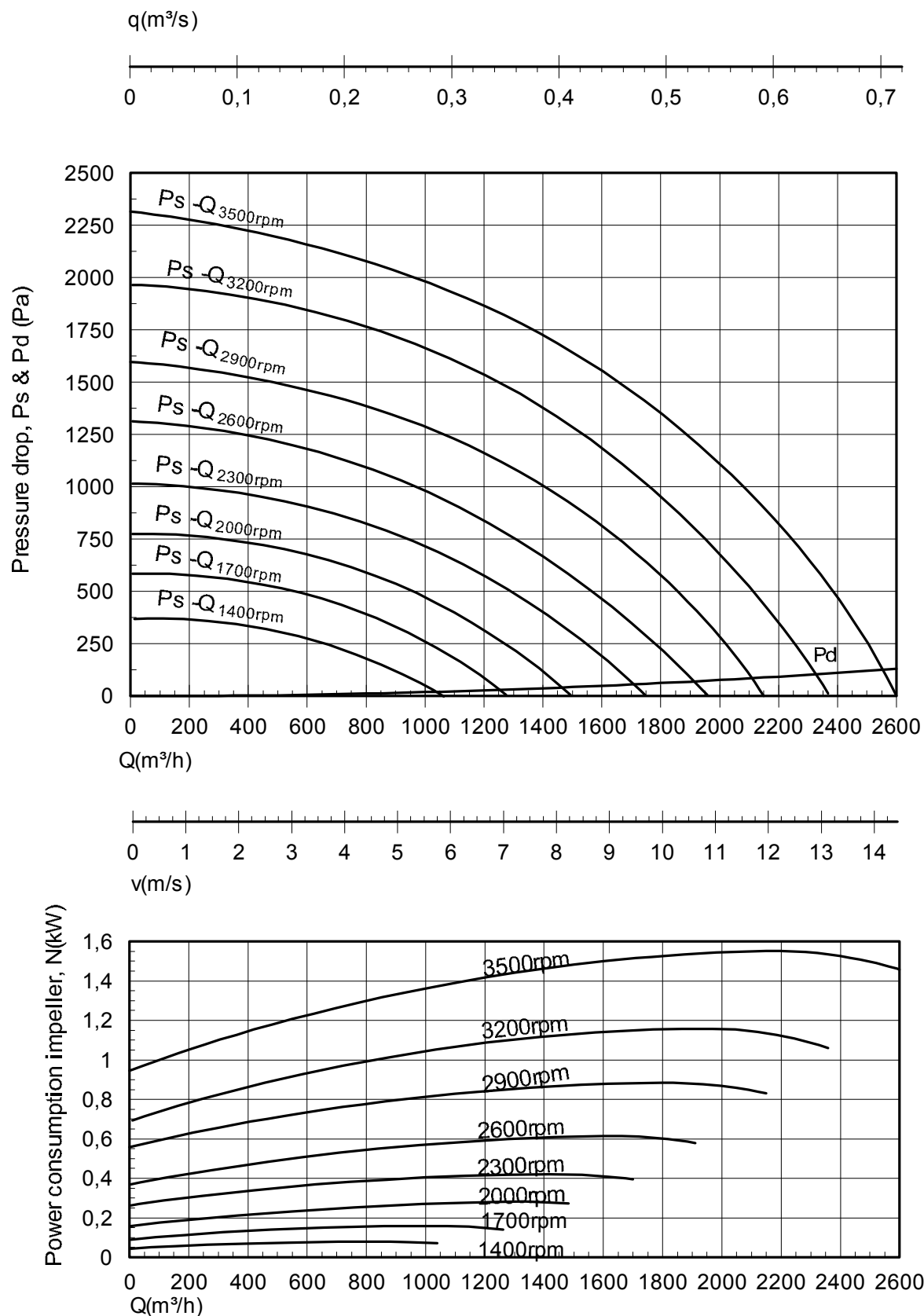
Low Pressure
Centrifugal Fan



LOW PRESSURE CENTR. FAN PERFORMANCE DATA

LSV 250 B

Imp: B12x300x80



Nyborg2.prs/24



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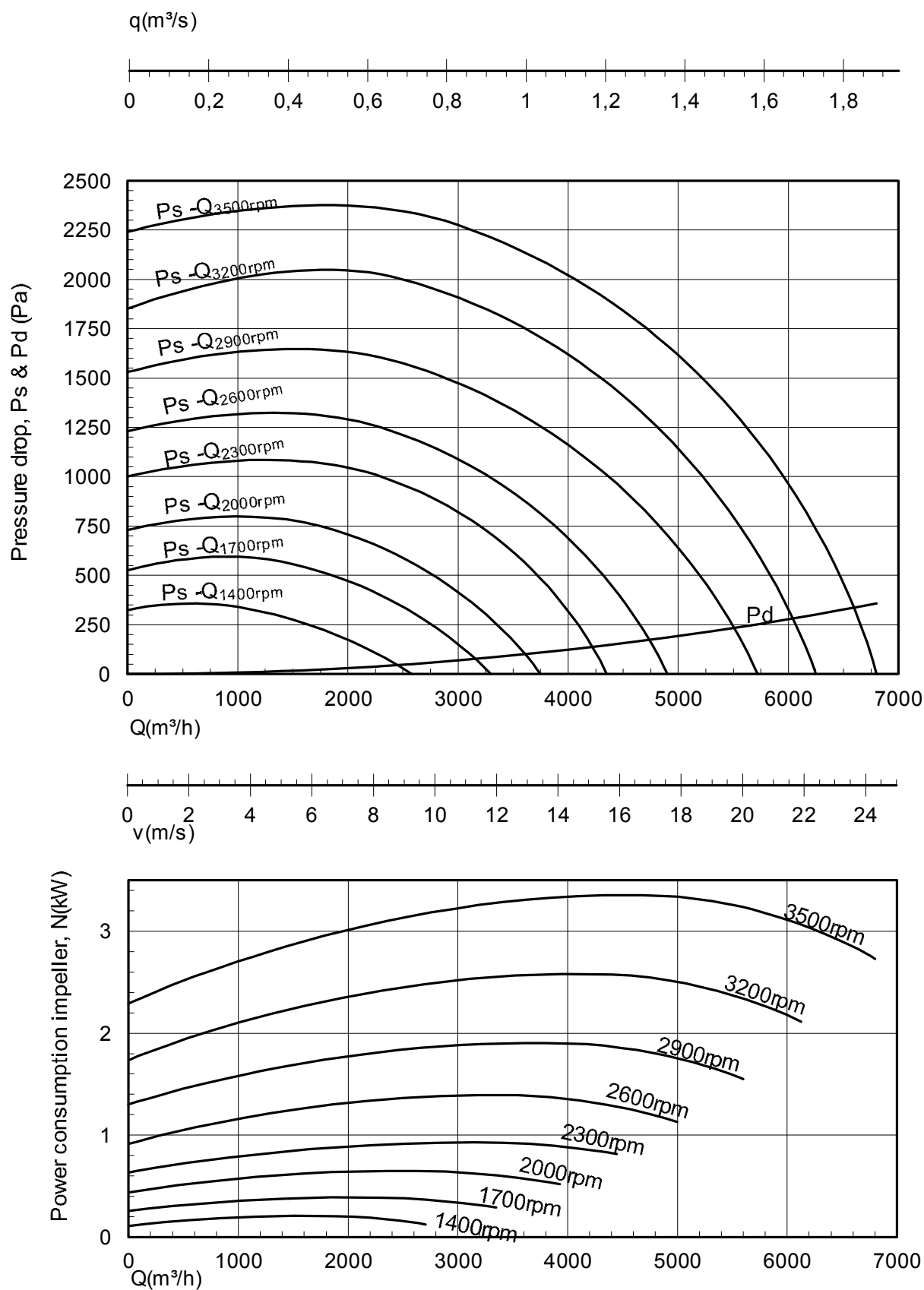
LSV 250 B



LOW PRESSURE CENTR. FAN PERFORMANCE DATA

LSV 315 B

Imp: B12x350x100



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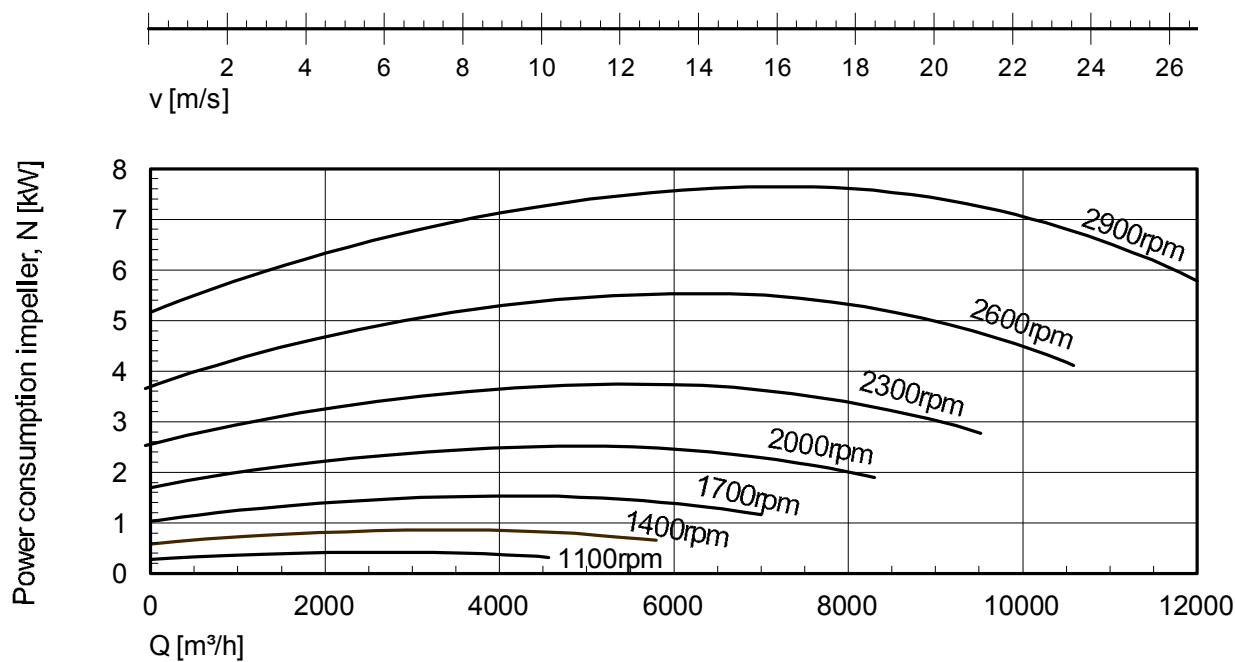
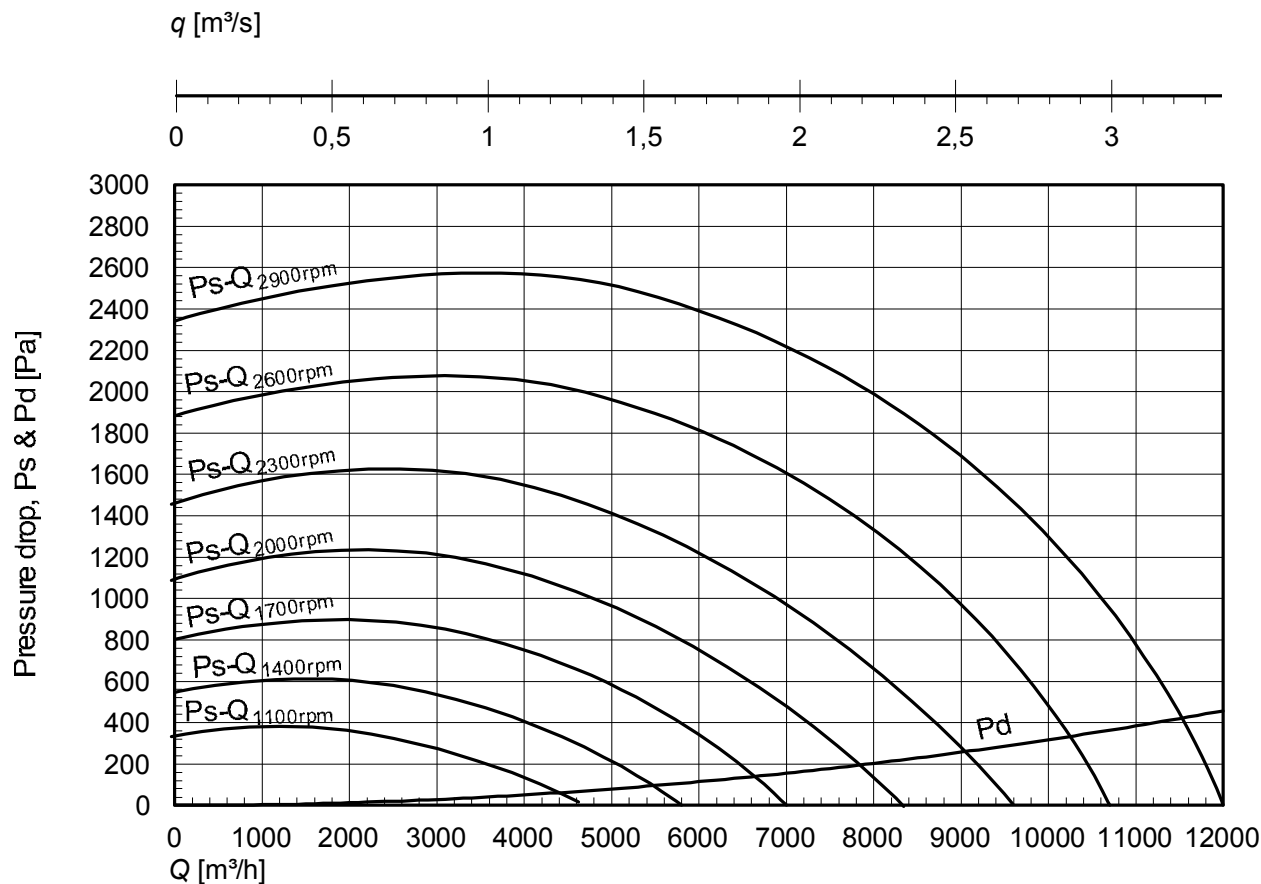
LSV 315 B



LOW PRESSURE CENTR. FAN PERFORMANCE DATA

LSV 400 B

Imp: B7x450x100



Nyborg10.prs/8



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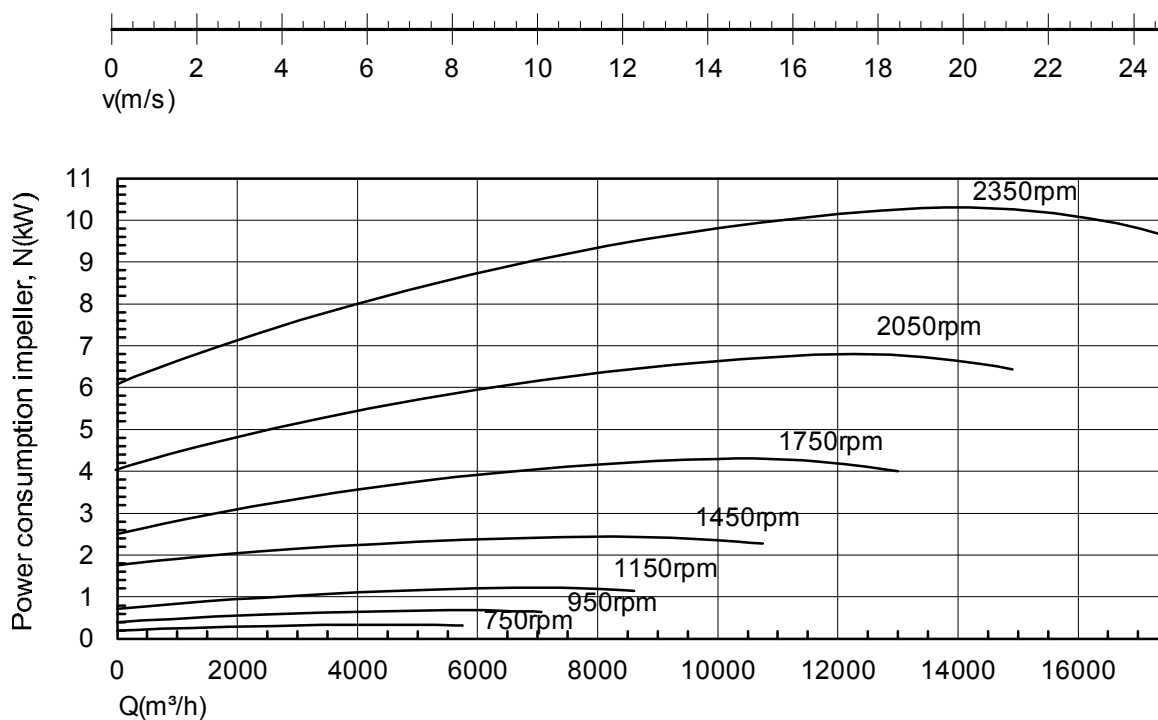
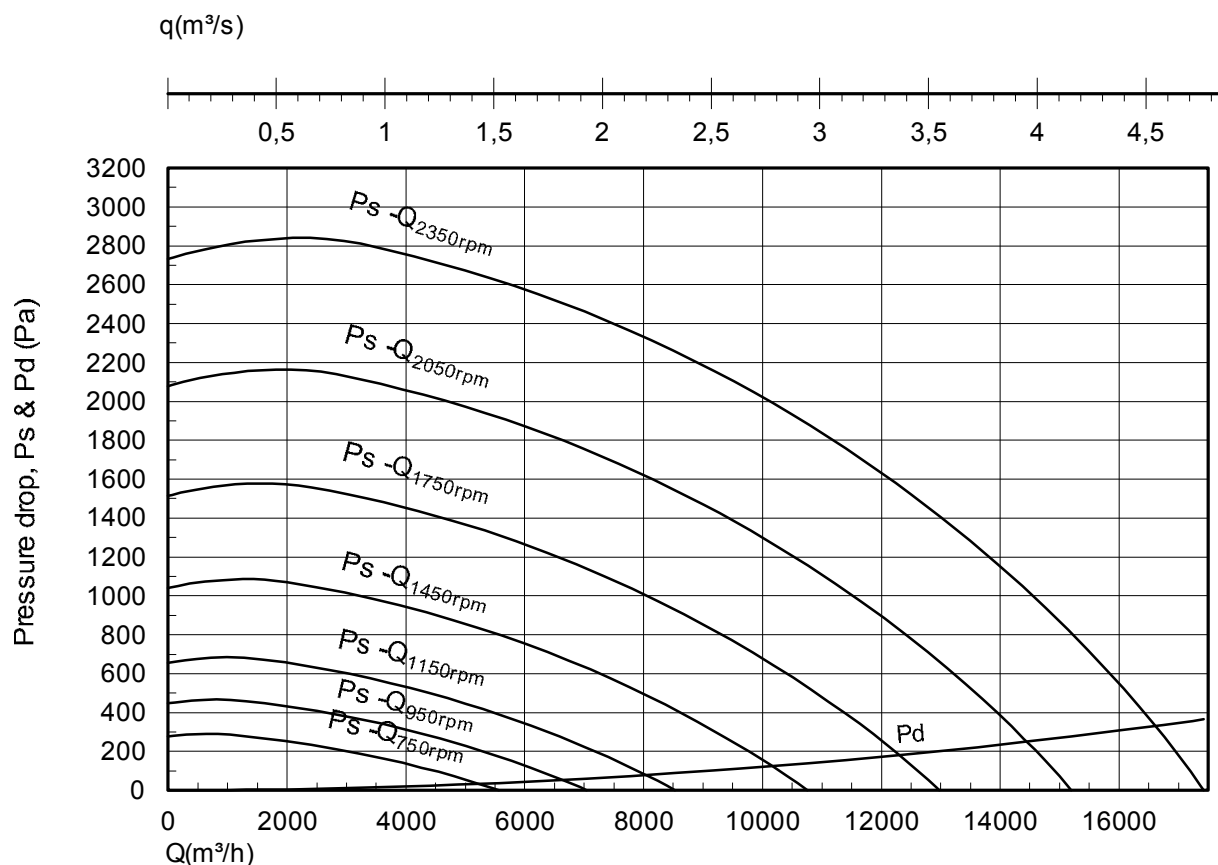
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LSV 400 B



HIGH PRESSURE CENTR. FAN PERFORMANCE DATA

LSV 500 B
Imp: B7x550x125



Nyborg02-22



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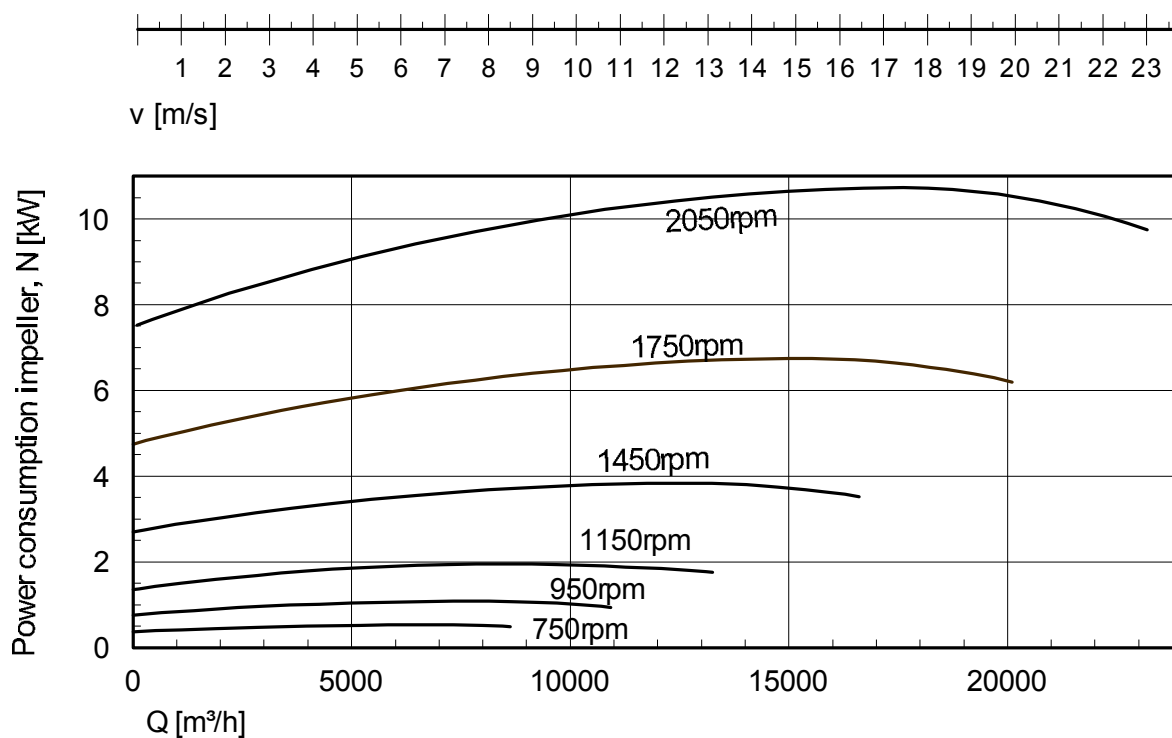
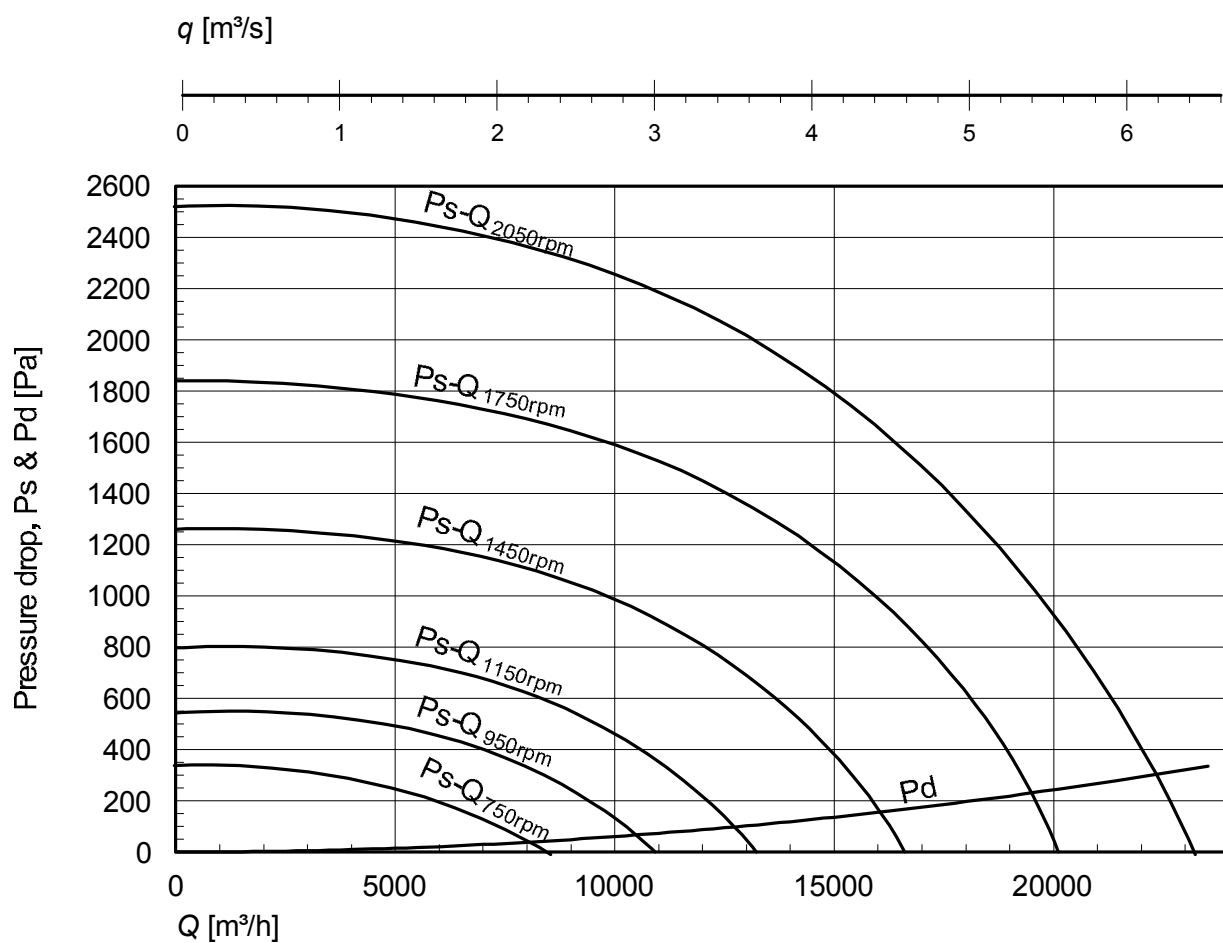
LSV 500 B



LOW PRESSURE CENTR. FAN PERFORMANCE DATA

LSV 600 B

Imp: B7x650x140



Nyborg10.prs/9



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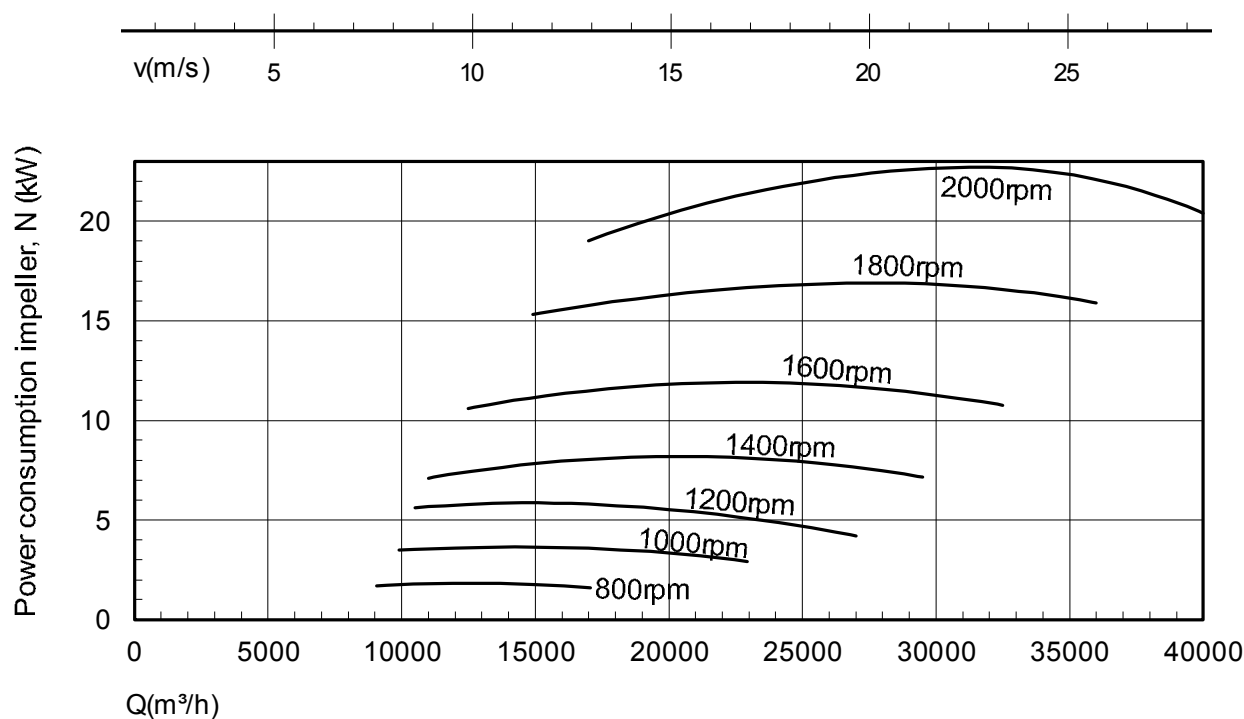
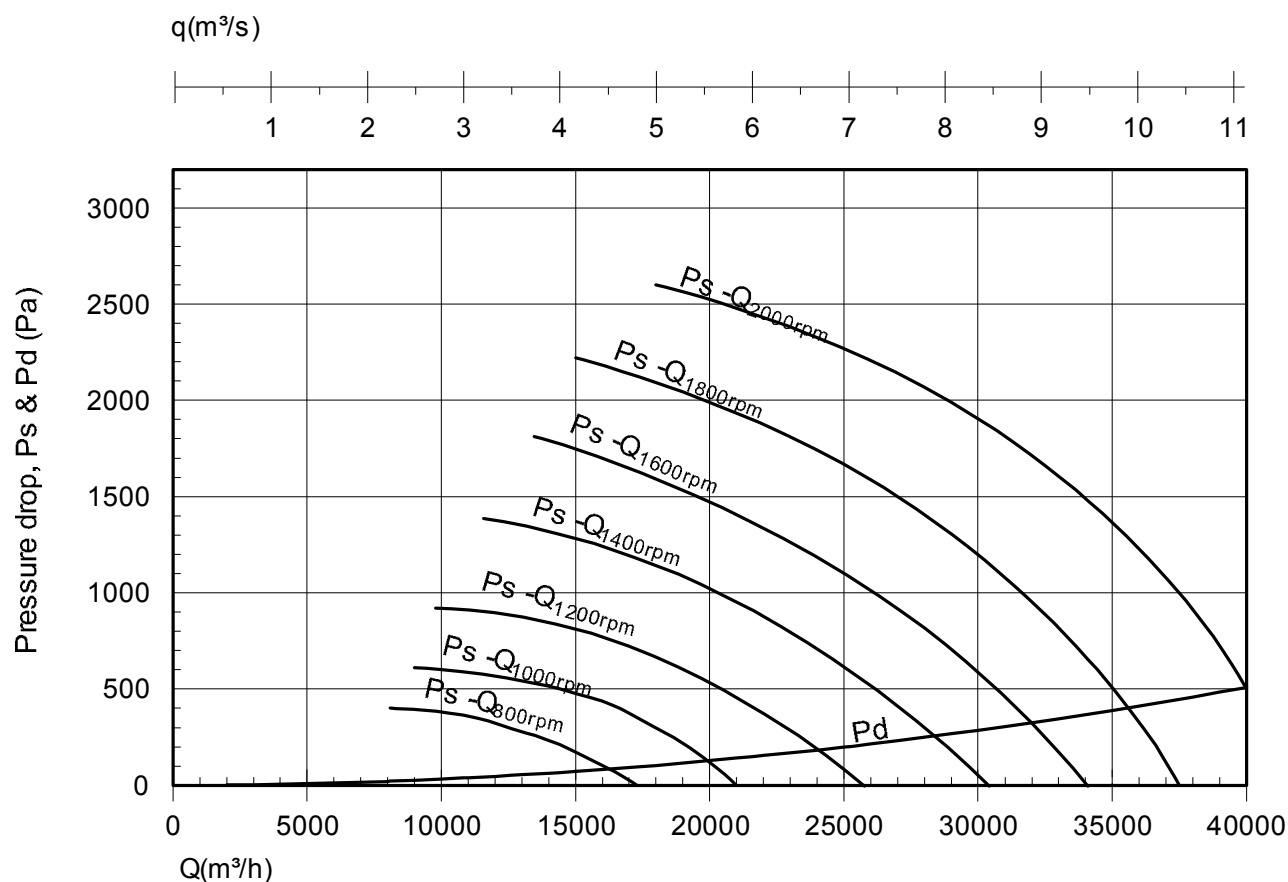
LSV 600 B



LOW PRESSURE CENTR. FAN PERFORMANCE DATA

LSV 700 B

Imp: B12x700x240



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LSV 700 B

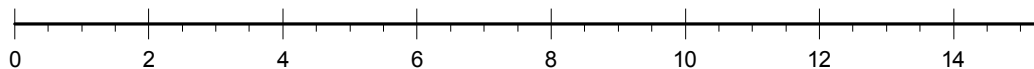


LOW PRESSURE CENTR. FAN PERFORMANCE DATA

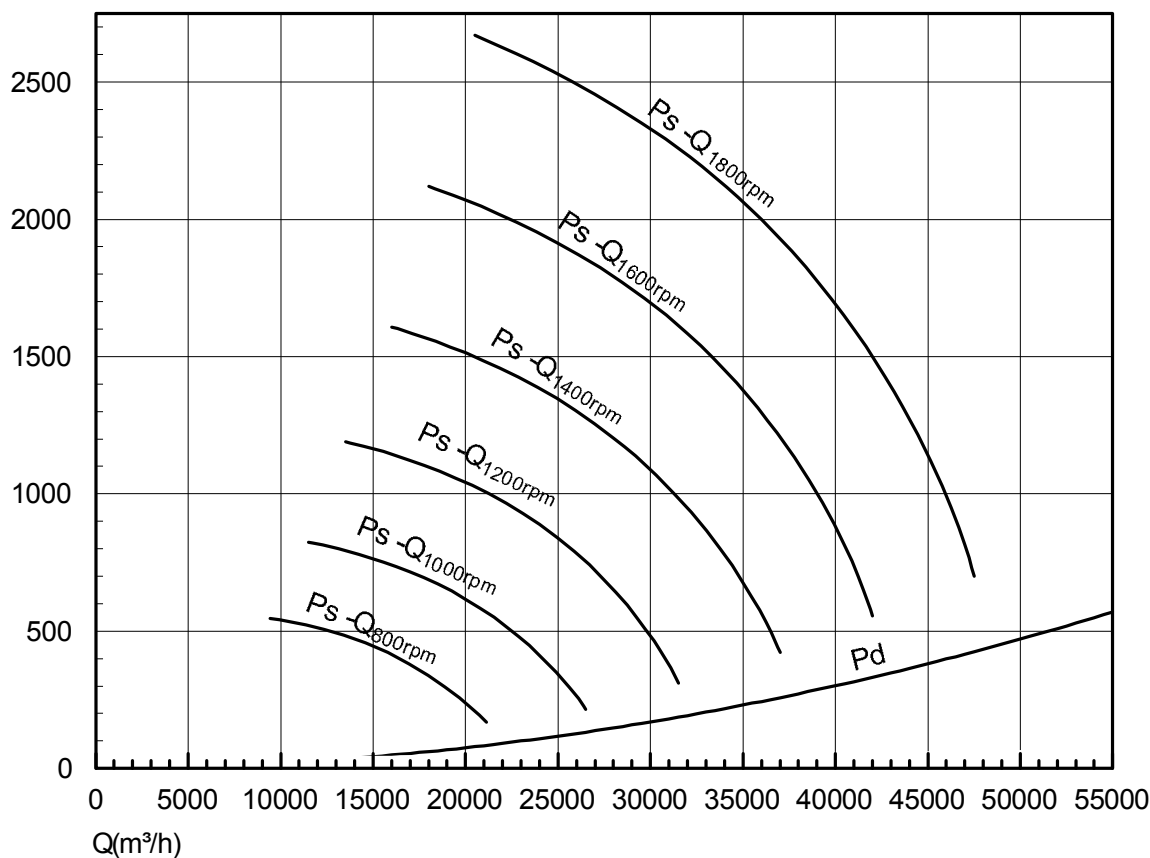
LSV 800 B

Imp: B12x800x225

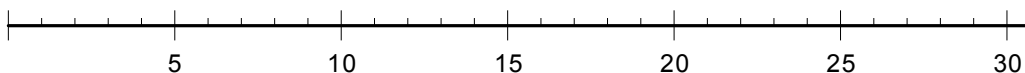
$q(m^3/s)$



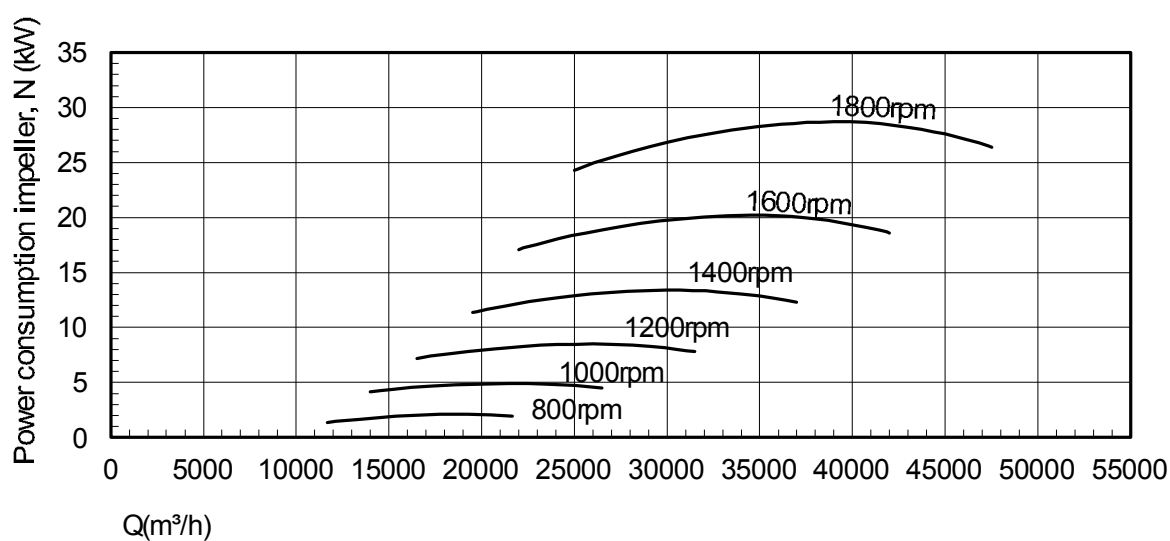
Pressure drop, Ps & Pd (Pa)



$v(m/s)$



Power consumption impeller, N (kW)

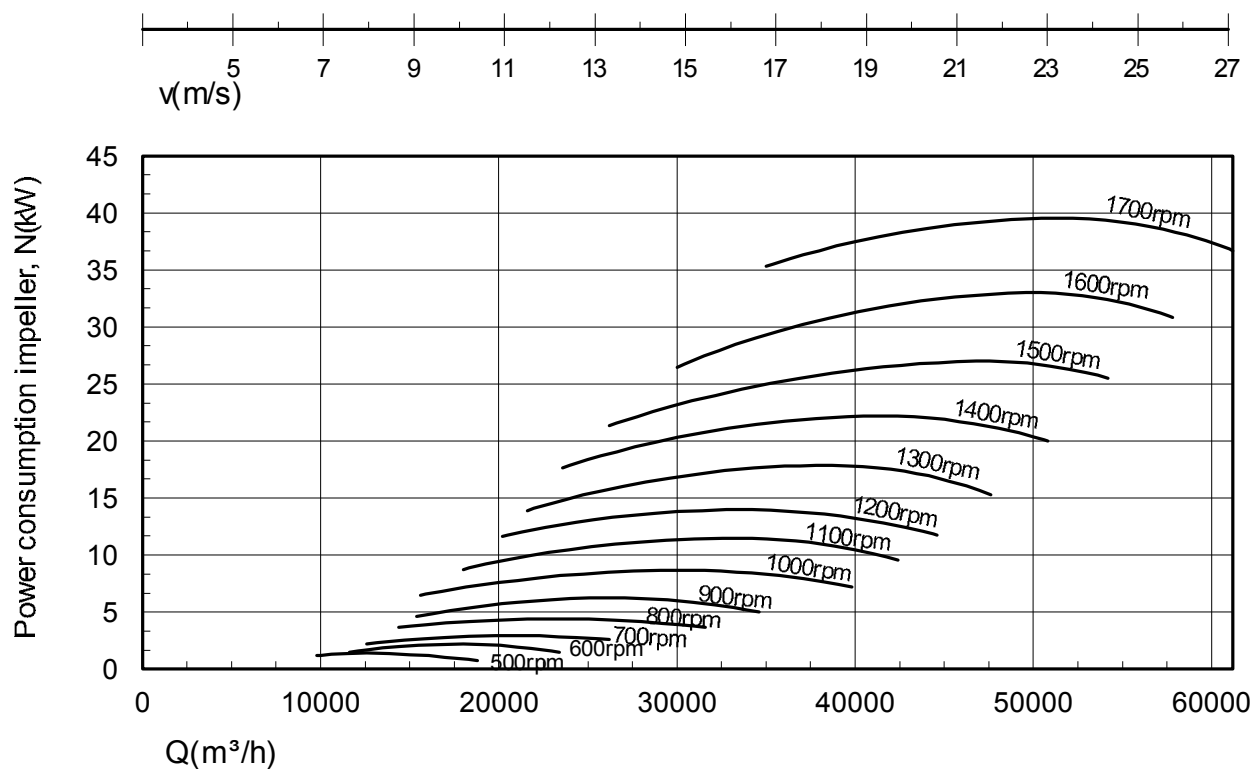
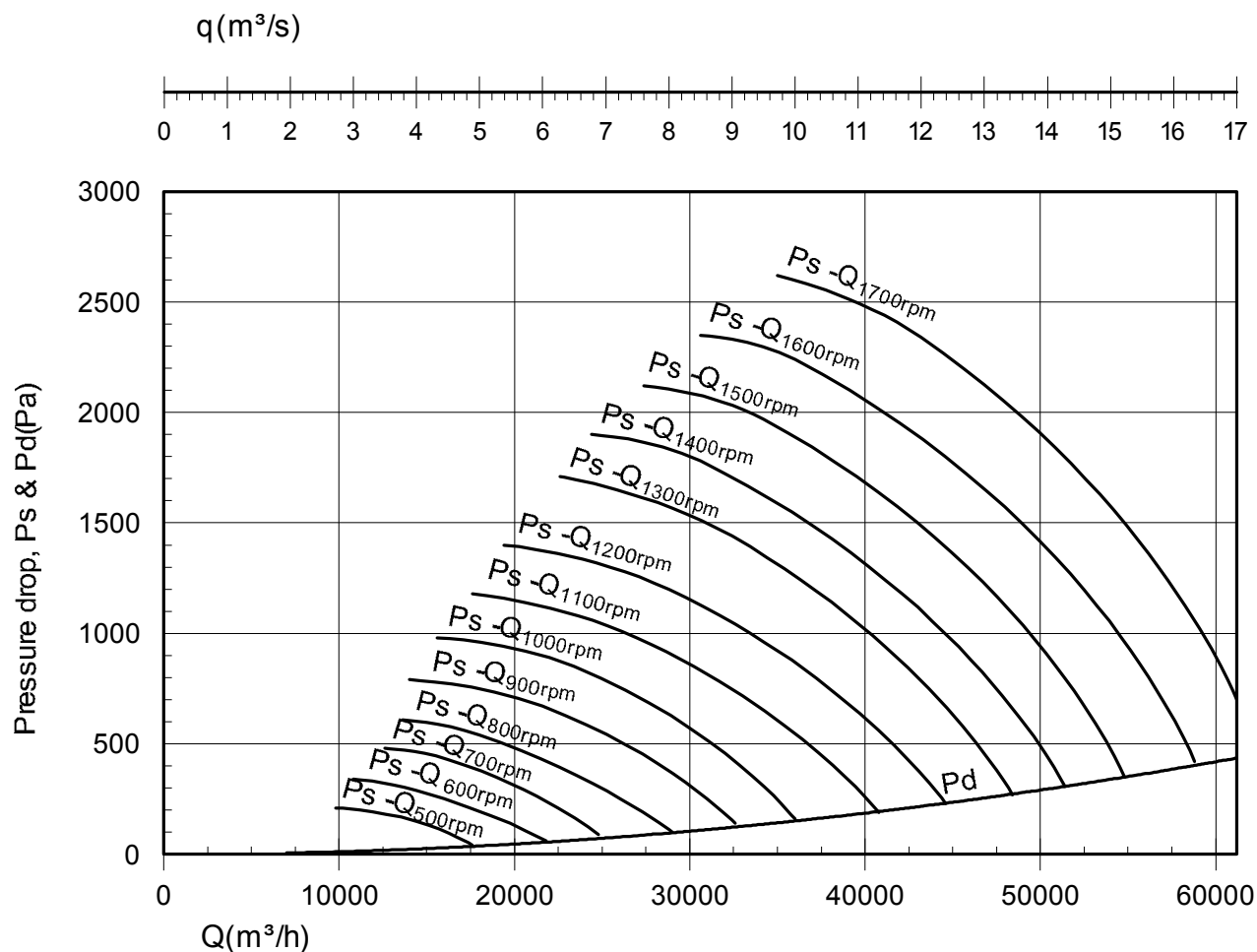




LOW PRESSURE CENTR. FAN PERFORMANCE DATA

LSV 900 B

Imp: B12x850x220



Nyborg20.prs/1



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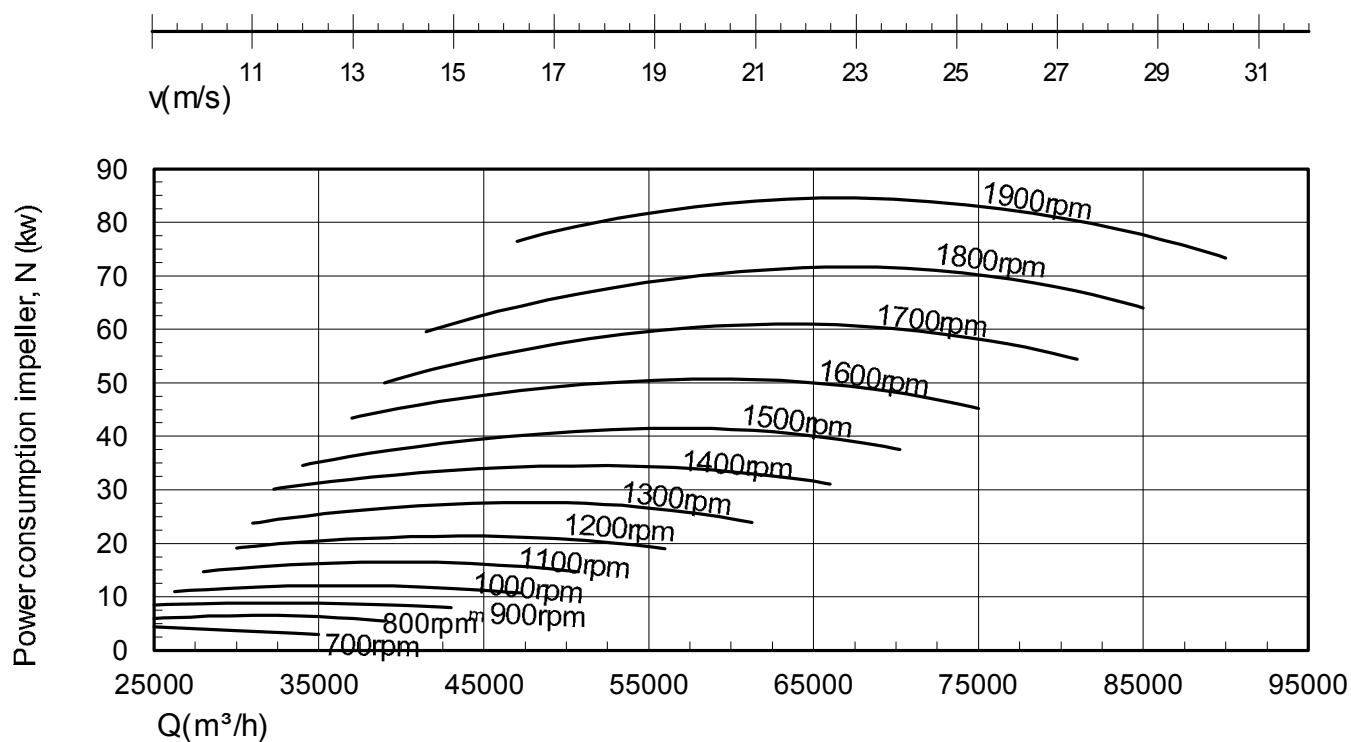
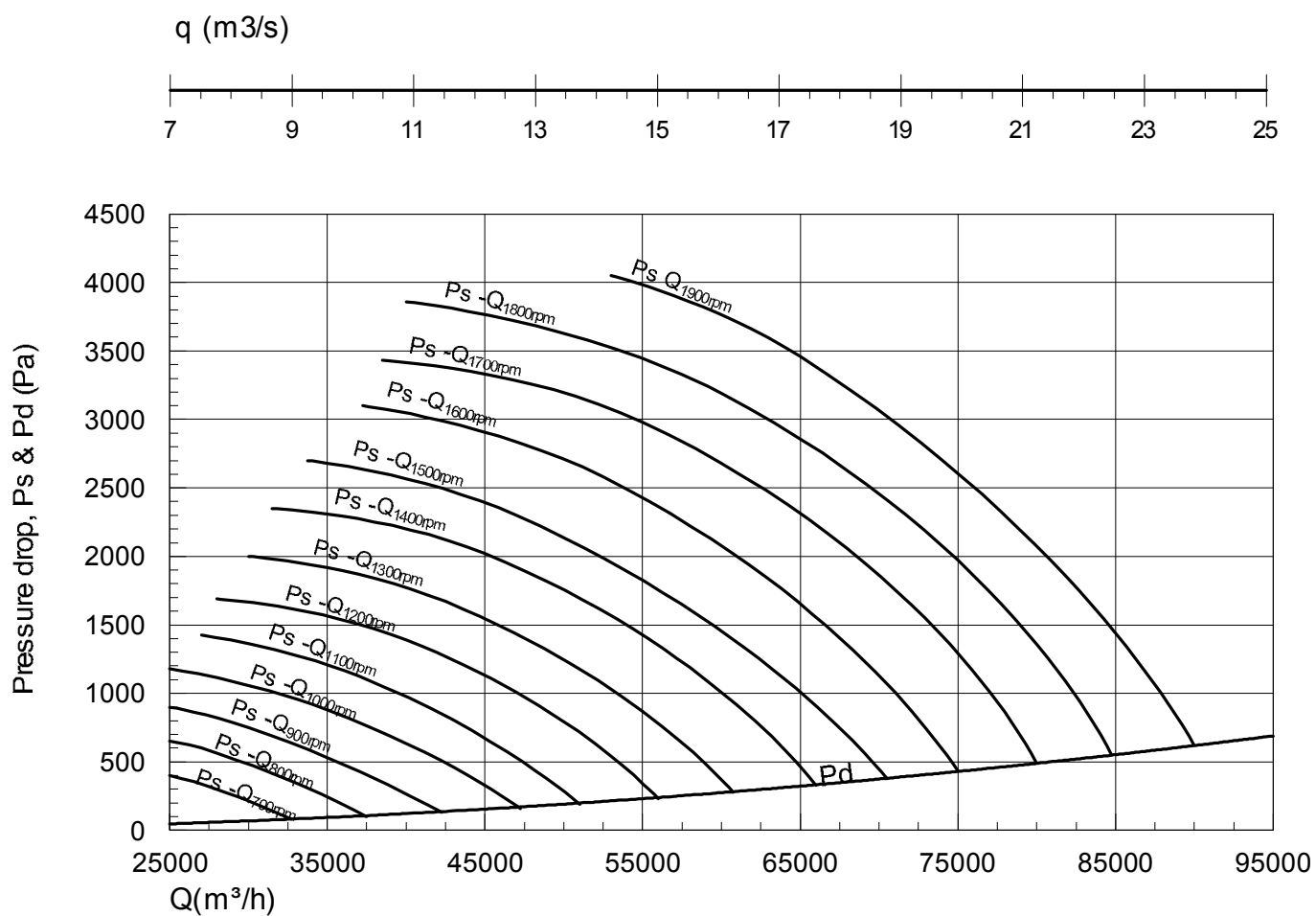
LSV 900 B



LOW PRESSURE CENTR. FAN PERFORMANCE DATA

LSV 1000 B

Imp: B12x1000x220



Nyborg20.prs/2



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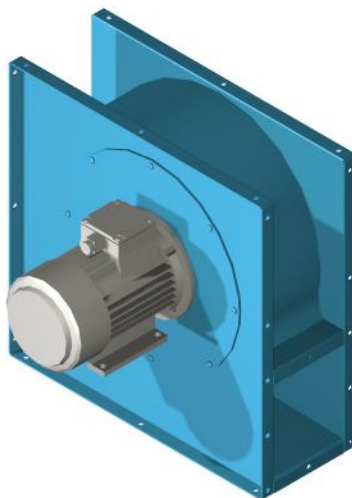
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LSV 1000 B



WENTYLATORY ODŚRODKOWE

TYP
LSV/MSV/HSV



ZASTOSOWANIE

Wentylatory odśrodkowe dzielą się na trzy główne grupy: nisko-, średnio-, i wysokociśnieniowe.

KONSTRUKCJA

Konstrukcja oparta jest na się na trzech głównych grupach, nisko-, średnio-, i wysokociśnieniowych.

Konstrukcja i kształt wirnika napędzanego wentylatora jest uzależniony od jego zastosowania, uwarunkowanego wymaganą objętością powietrza i spadkiem ciśnienia.

Wirniki dzielą się na cztery główne grupy. W celu realizacji specyfikacji klientów, dostępne są również rozwiązania na specjalne zamówienie, takie jak model odporny na iskrzenie.

WYKONANIE

LSV i MSV są produkowane z odpornego na wodę morską aluminium i malowane.

Wykonanie ze stali nierdzewnej / AISI 316 lub na życzenie ze stali cynkowanej lub malowanej.

Wirnik wykonany jest z aluminium odpornego na działanie soli i amoniaku, o aerodynamicznym kształcie i wyważeniu. W czterech głównych grupach:

Typ B: łopatki odchylone w kierunku przeciwnym do obrotu wentylatora, wypukłe

Typ F: łopatki odchylone w kierunku obrotu wentylatora, koło 'Sciroccio'

Typ Z: łopatki odchylone w kierunku przeciwnym do obrotu wentylatora, wklęsłe samoczyszczące

Typ R: łopatki promieniste/promieniowe, do wentylatora transportowego

Przepustowość powietrza waha się od 1000 do 240 000 m³/n.

SILNIK ELEKTRYCZNY

Wentylatory są zwykle dostarczane ze standardowym indukcyjnymi klatkowymi silnikami elektrycznymi. Są również dostępne z silnikami elektrycznymi innego typu, jak silniki przeciwybuchowe lub 2-biegowe

AKCESORIA

- Amortyzatory drgań
- Elastyczne połączenia wlot/wylot
- Cokół silnika (wymagany w przypadku ciężkich silników)
- Wlot kołnierzowy
- Przeciwołnierz wlot/wylot
- Kratka ochronna wlot/wylot
- Rama fundamentowa (tylko w przypadku wykonania z napędem pasowym)
- Właz inspekcyjny
- Wykonanie przeciwybuchowe z osłoną przeciwwiskrową

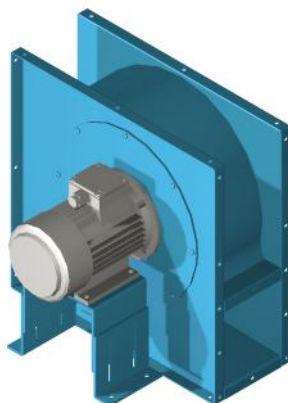
KONSTRUKCJE SPECJALNE

- Wykonanie z napędem pasowym

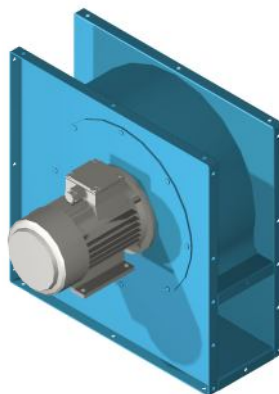


CENTRIFUGAL FANS

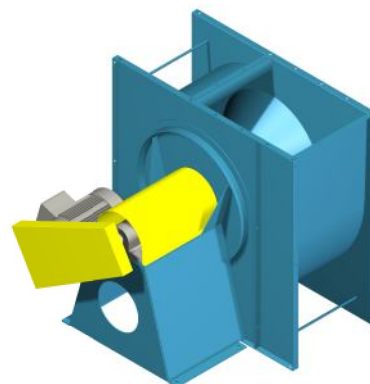
LSV - B1



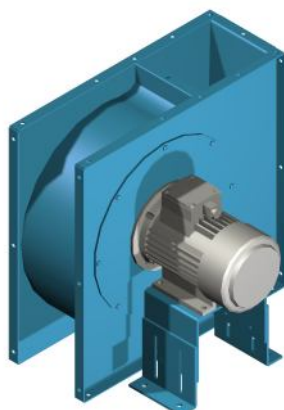
LSV - B1



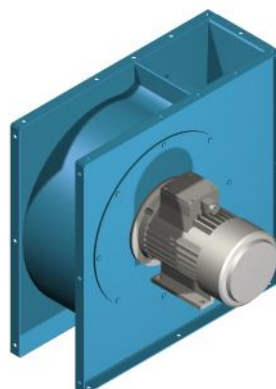
LSV - B3



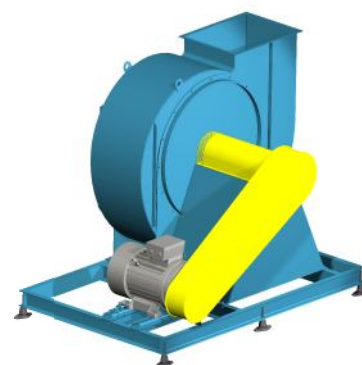
MSV - B1



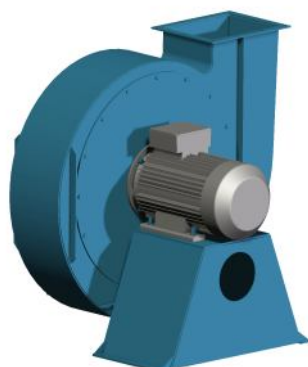
MSV - B1



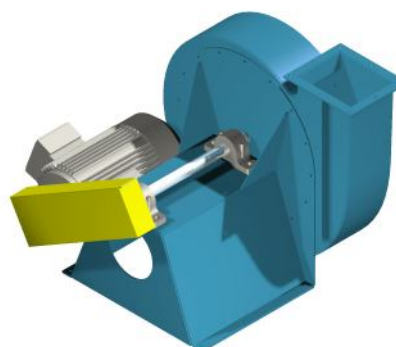
MSV - B2



HSV - B1



HSV - B3



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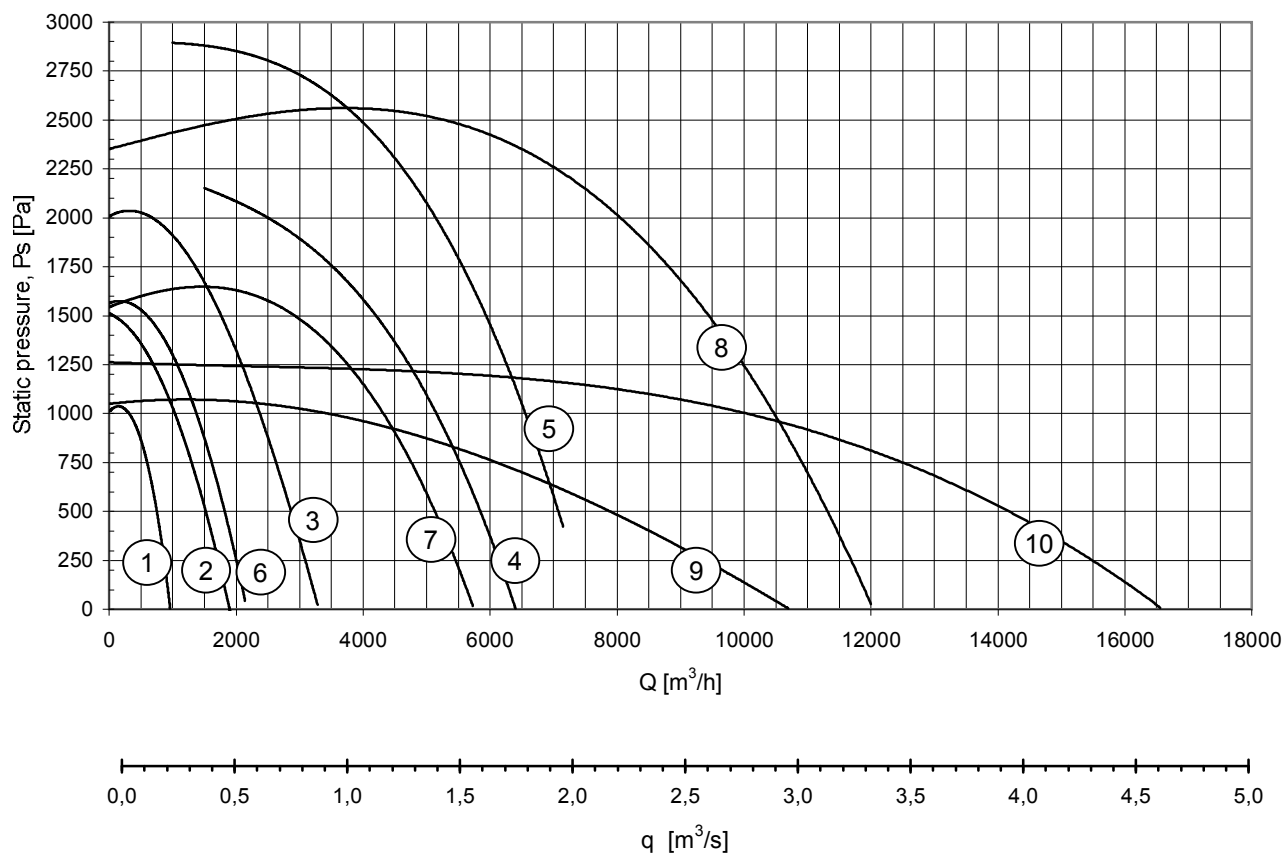


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CENTRIFUGAL FANS selection curves (50Hz)

LSV and MSV



Curve	Fan	rpm	Fan power cons. [kW]	Sound press. [dBA] 1m	Motor	Motor power [kW]	Current [A] (400V)	Current [A] (230V)
1	MSV 125 B1	2900	0,34	70	71M02K	0,37	1,05	1,9
2	MSV 160 B1	2900	0,58	75	80M02K	0,86	1,85	3,35
3	MSV 200 B1	2900	1,18	79	90S02	1,5	3,5	6,1
4	MSV 250 B1	2900	3,4	85	112M02	4	8,2	14,2
5	MSV 315 B1	2900	5,5	88	132S02K	5,5	11,7	19,6
6	LSV 250 B1	2900	0,88	75	80M02	1,1	2,55	4,4
7	LSV 315 B1	2900	1,92	81	90L02	2,2	4,8	8,4
8	LSV 400 B1	2900	7,5	88	132S02	7,5	15	25,5
9	LSV 500 B1	1450	2,4	76	100L04	3	7	12
10	LSV 600 B1	1450	3,8	81	112M04	4	9,3	16

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01.mar.06



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LSV and MSV

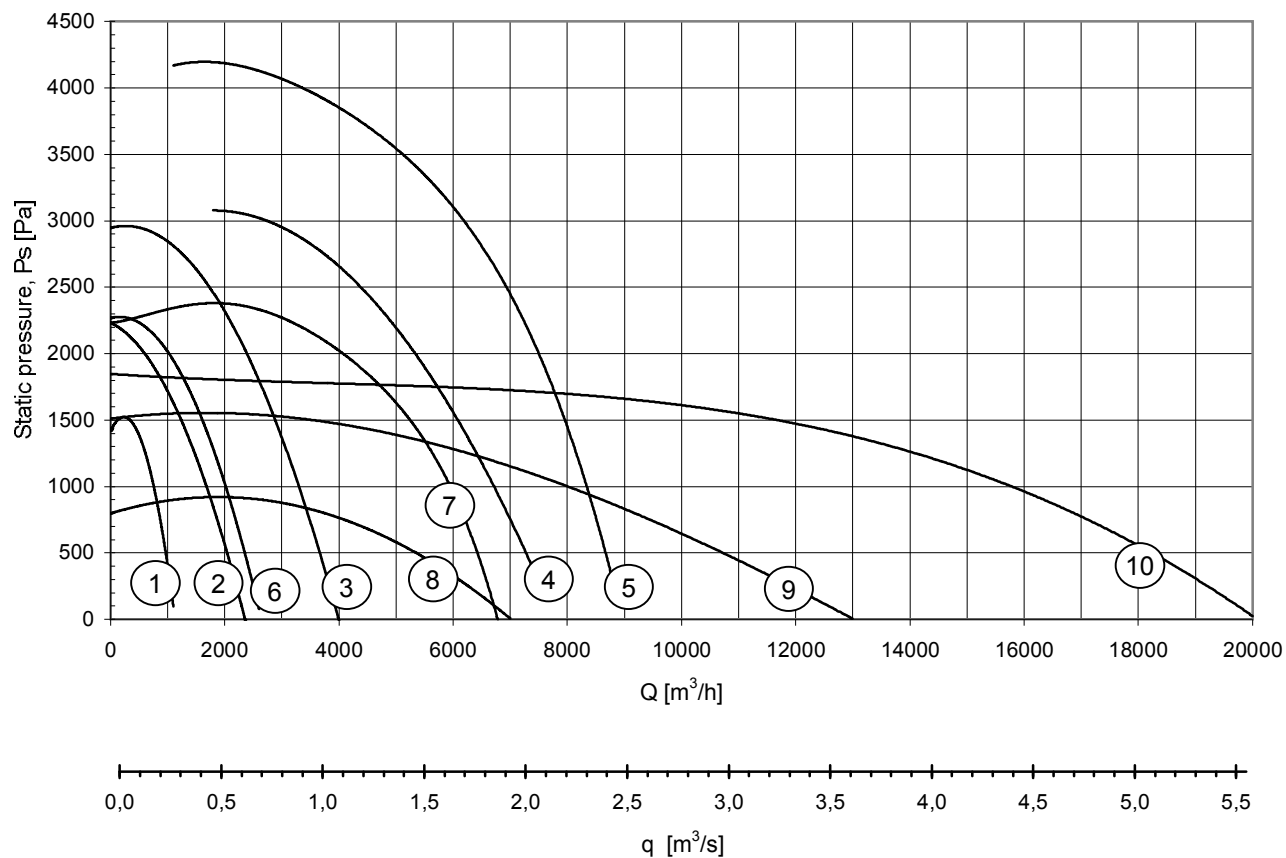


CENTRIFUGAL FANS

selection curves

(60Hz)

LSV and MSV



Curve	Fan	rpm	Fan power cons. [kW]	Sound press. [dBA] 1m	Motor	Motor power [kW]	Current [A] (440V)
1	MSV 125 B1	3500	0,58	75	71M02	0,63	1,4
2	MSV 160 B1	3500	1,02	80	80M02	1,3	2,5
3	MSV 200 B1	3500	2,08	83	90L02	2,55	4,8
4	MSV 250 B1	3500	6,1	89	112M02	6,3	11
5	MSV 315 B1	3500	9,6	93	132M02	12,6	20,6
6	LSV 250 B1	3500	1,55	82	90S02	1,75	3,4
7	LSV 315 B1	3500	3,4	85	100L02	3,45	6,3
8	LSV 400 B1	1750	1,55	72	90L04	1,75	3,6
9	LSV 500 B1	1750	4,2	79	112M04	4,6	8,8
10	LSV 600 B1	1750	6,7	84	132M04	8,6	16

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01.mar.06



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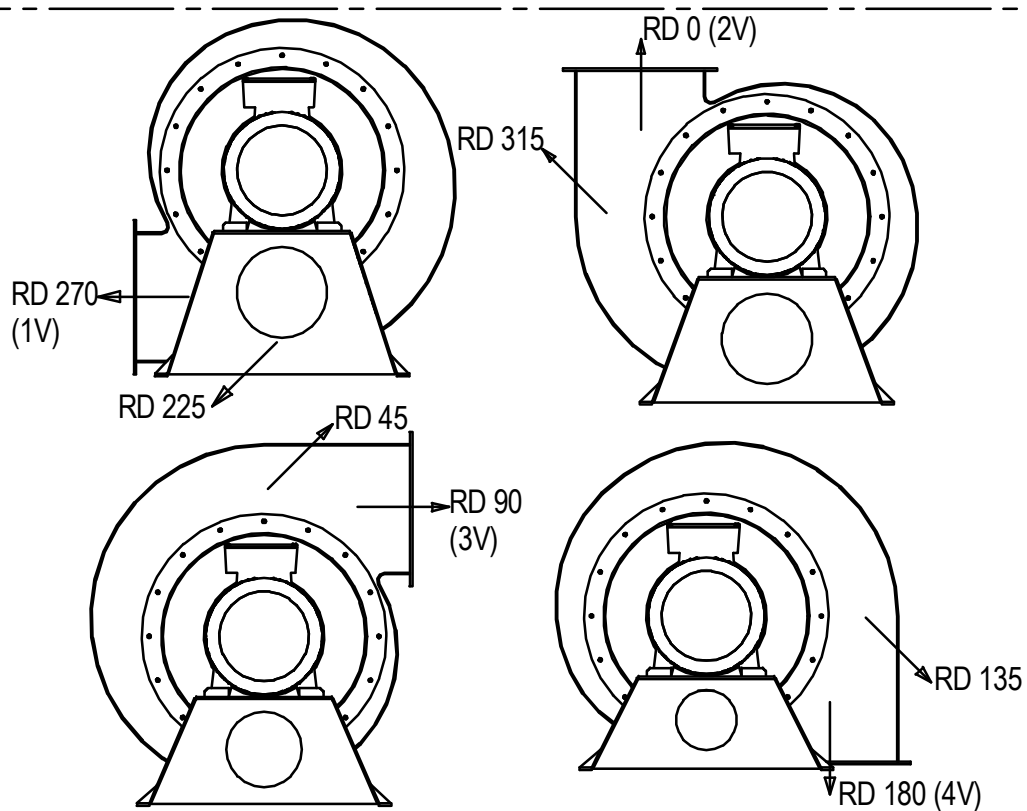
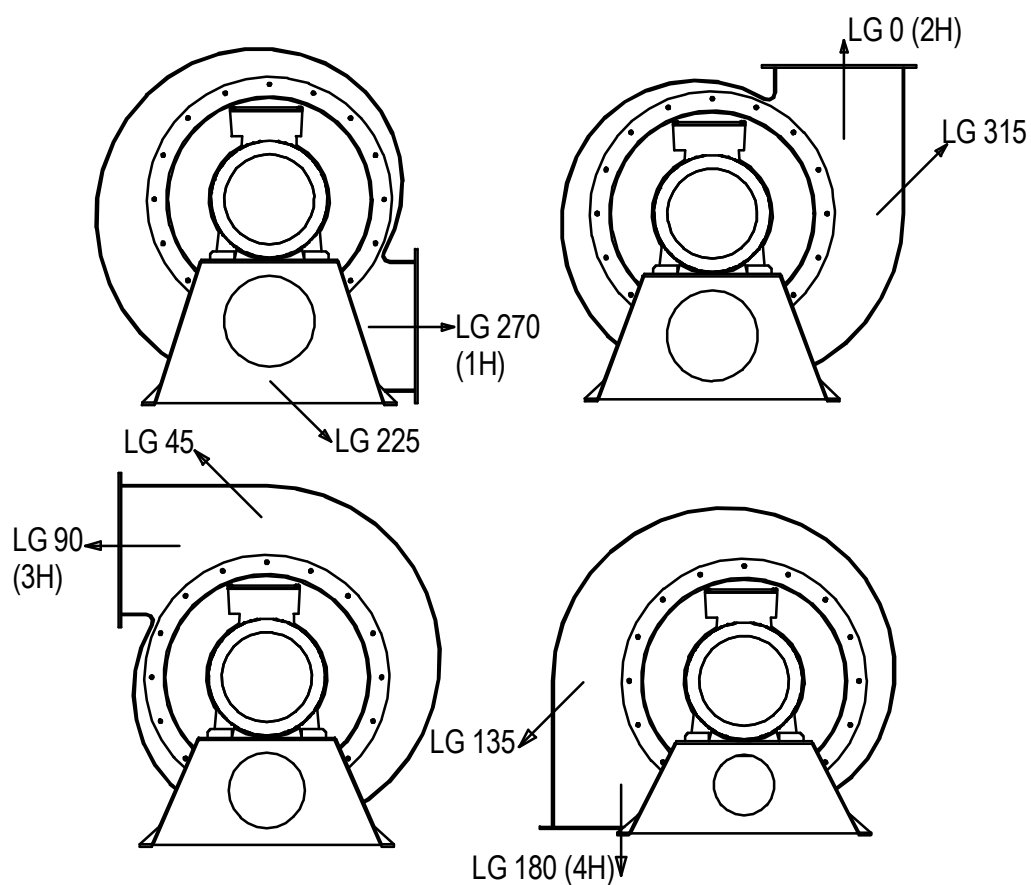


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LSV and MSV



MOUNTING POSITIONS IN ACCORDANCE TO EUROVENT CENTRIFUGAL FANS



06.12.00

F. Østro
4-2013-1



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Centrifugal Fans

Explanation of Fan Model Number

Fan model number is stated in the following way: Centrifugal Fan model MSV 160 B1.

MSV	160	B	1
figure no 1-3	Figure no 4-6	7	8

1. - 3. figure:

LSV : Low pressure centrifugal fan
MSV : Medium pressure centrifugal fan
HSV, HZV, HRV : High pressure centrifugal fan

4. -6. figure:

The size of the fan.

The numbers refers to nominal diameter (mm) on the fan's suction flange.

8.figure

- 1: Direct driven. impeller mounted on motor shaft
- 2: Belt driven. motor placed alongside the fan
- 3: Belt driven. motor mounted on the fan, belt screened



SOUND POWER LEVELS (SWL) CALC. NYBORG CENTRIFUGAL FANS

FAN DATA			dB values at centre Hz								Theor
FAN MODEL	Rpm	Impeller	63	125	250	500	1000	2000	4000	8000	dBA
LSV 250 B	1450	B12x300x80	80	72	70	62	62	57	54	52	57
LSV 250 B	2900	B12x300x80	90	93	85	84	76	75	71	67	75
LSV 315 B	1450	B12x350x100	84	76	74	66	66	61	58	56	61
LSV 315 B	2900	B12x350x100	96	99	91	90	82	81	77	73	81
LSV 400 B	1450	B6x450x100	92	84	82	74	74	69	66	64	70
LSV 500 B	1450	B7x550x125	98	90	88	80	80	75	72	70	76
LSV 600 B	1450	B7x650x140	103	95	93	85	85	80	77	75	81
MSV 125 B	2900	B9x250x50	85	88	80	79	71	70	66	62	70
MSV 160 B	2900	B12x300x60	89	92	84	83	75	74	70	66	75
MSV 200 B	1450	B12x350x70	83	75	73	65	66	60	57	55	60
MSV 200 B	2900	B12x350x70	97	100	92	91	83	82	78	74	79
MSV 250 B	1450	B12x400x80	88	80	78	70	70	65	63	60	65
MSV 250 B	2900	B12x400x80	100	103	95	94	86	85	81	77	85
MSV 315 B	1450	B12x450x90	91	83	81	73	73	68	65	63	69
MSV 315 B	2900	B12x450x90	103	106	98	97	89	88	84	80	88

- Sound power levels in dB. ref. 10^{-12} W, internal values in fan openings.
- dBA values applies to 1 m. distance based on a theoretical free field environment.
- The sound power level values above are only intended as a guide, and may be used for calculations for sound pressure levels. (heard by the human ear).



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SOUND POWER LEVELS (SWL) CALC. NYBORG CENTRIFUGAL FANS

FAN DATA			dB values at centre Hz								Theor
FAN MODEL	Rpm	Impeller	63	125	250	500	1000	2000	4000	8000	dBA
LSV 250 B	1750	B12x300x80	82	76	74	67	65	61	58	55	61
LSV 250 B	3500	B12x300x80	95	98	93	90	84	81	77	74	82
LSV 315 B	1750	B12x350x100	85	79	77	70	68	64	61	58	64
LSV 315 B	3500	B12x350x100	98	101	96	93	87	84	80	77	85
LSV 400 B	1750	B6x450x100	93	87	85	78	76	72	69	66	72
LSV 500 B	1750	B7x550x125	99	93	91	84	82	78	75	72	79
LSV 600 B	1750	B7x650x140	104	98	96	89	87	83	80	77	84
MSV 125 B	3500	B9x250x50	89	92	87	84	78	75	71	68	75
MSV 160 B	3500	B12x300x60	94	97	92	89	83	80	76	63	80
MSV 200 B	1750	B12x350x70	84	78	76	69	67	63	60	57	63
MSV 200 B	3500	B12x350x70	97	100	95	93	86	83	79	76	83
MSV 250 B	1750	B12x400x80	90	84	82	75	73	69	66	63	70
MSV 250 B	3500	B12x400x80	102	105	100	97	91	88	84	81	89
MSV 315 B	1750	B12x450x90	94	88	86	79	77	73	70	67	73
MSV 315 B	3500	B12x450x90	106	109	104	101	95	92	88	85	93

- Sound power levels in dB. ref. 10^{-12} W, internal values in fan openings.
- dBA values applies to 1 m. distance based on a theoretical free field environment.
- The sound power level values above are only intended as a guide, and may be used for calculations for sound pressure levels. (heard by the human ear).



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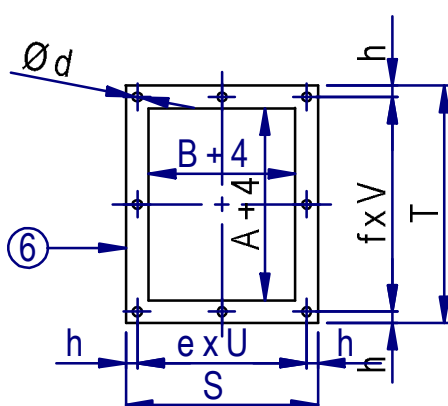
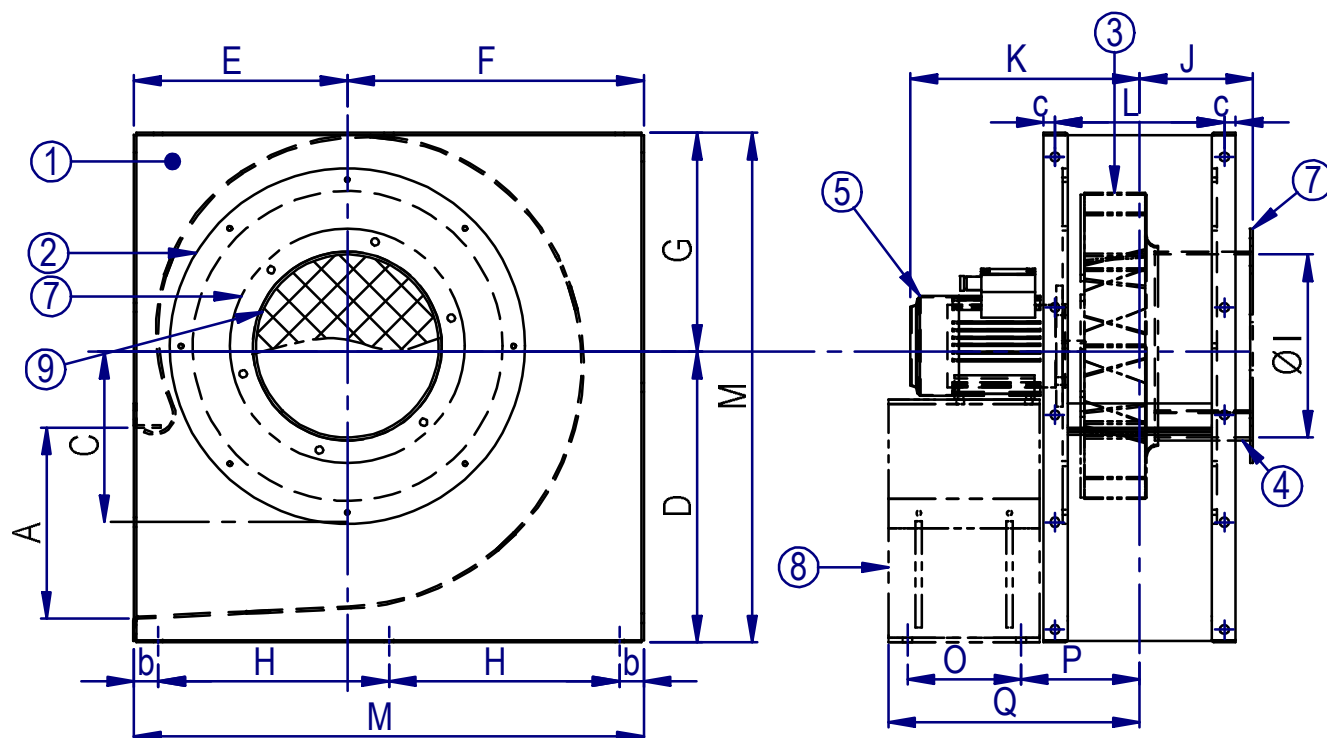


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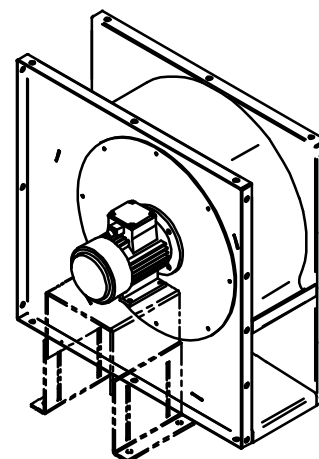
MEDIUM PRESS. CENTRIFUGAL FAN Dimension Drawing

MSV - B1



	Contra flange, Inlet	option
	Contra flange, Outlet	option
9	Wire guard, Inlet	option
8	Motor pedestall	Required for heavy motor.
7	Flange inlet	option
6	Flange outlet	
5	El. motor	
4	Conn.piece,collar in	
3	Impeller	
2	Inlet cone	
1	Fan housing	
Item	Description	Remarks

Material: Alum.5052 (Option:AISI 316L)



Fan Size Ø I	A	B	C	D	E	F	G	H	J	K	L	M	Weight [kg] ex cl. motor
125	130	110	140	229	180	244	195	190	80		134	424	6,5
160	156	125	170	277	227	277	227	225	100		154	504	10,5
200	188	160	204	327	272	307	252	262,5	125		189	579	12,5
250	250	190	233	392	282	392	282	305	145		224	674	17,5
315	296	253	250	433	353	413	333	350	175		289	766	23,5
	b	c	d	e	f	h	U	V	S	T	O	P	Q
125	22	10	9,5	1	1	10	134	154	154	174			
160	27	12,5	9,5	2	2	12,5	77	92,5	179	210			
200	27	12,5	9,5	2	2	12,5	94,5	108,5	214	242			
250	32	15	12	2	2	15	112	142	254	314			
315	32	15	12	2	3	15	144,5	110	319	360			

4-2243

4/8-05
K.Klokk



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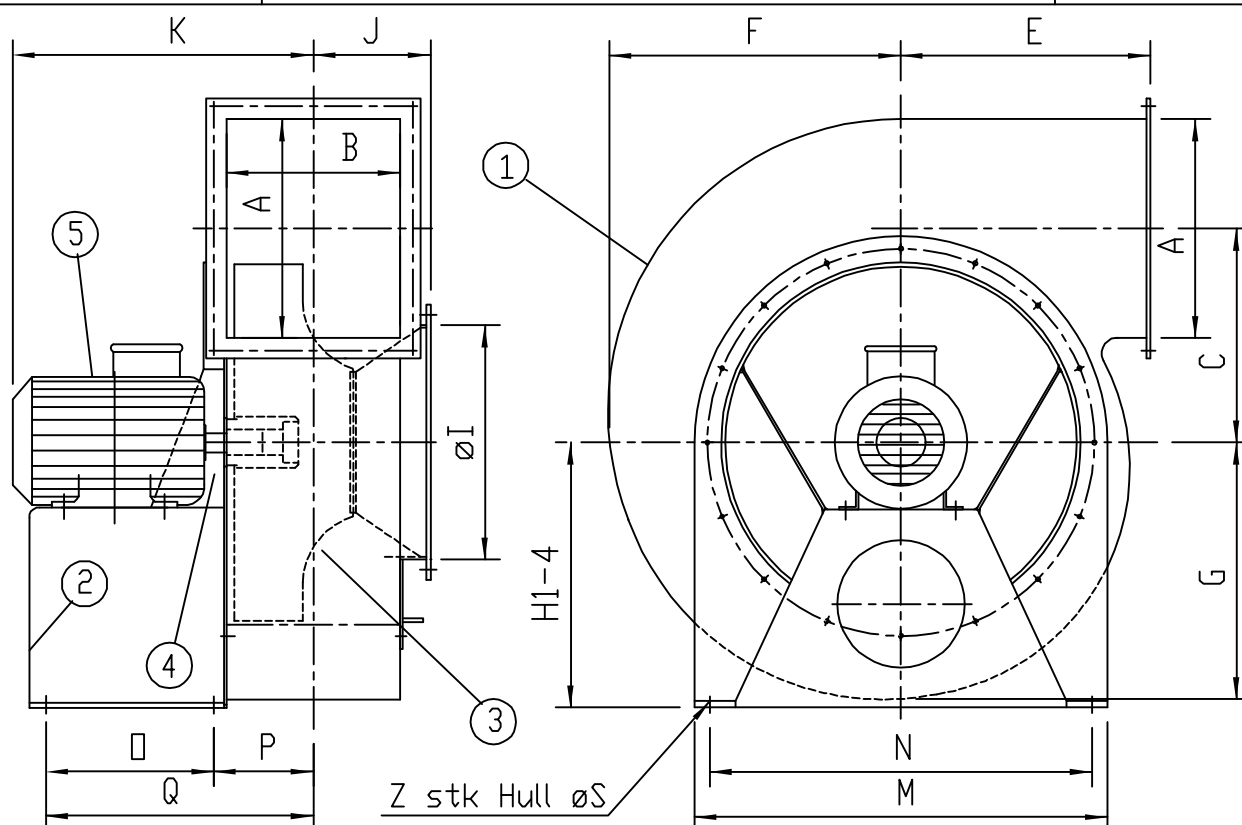
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MSV - B1



MEDIUM PRESSURE CENTR. FAN DIRECT DRIVEN DESIGN

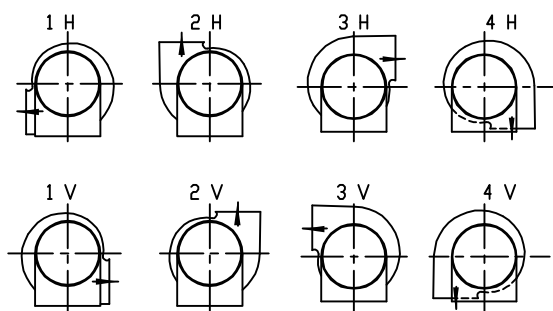
MSV-B1



SIZE no Iø	A	B	C	E	F	G	H1	H2	H3	H4	J	K	M	N	□	P	Q	Z	S
350	350	270	320	380	425	380	550	450	400	450	190		630	580		170		4	14
400	370	290	370	440	505	450	600	550	500	400	210		700	650		175		4	16
450	430	340	420	490	575	510	680	620	560	430	230		810	750		195		4	16
500	460	370	460	520	630	540	750	650	600	470	250		900	800		230		4	16
600	530	410	530	600	730	630	850	775	680	550	280		1000	900		250		4	22
700	690	490	630	700	860	750	1050	910	800	650	330		1200	1120		290		4	22
800	790	570	720	800	1000	870	1200	1050	900		360		1400						

MOUNTING POSITIONS

TO BE SEEN AGAINST INLET



- ① FAN HOUSING
Matl.: St. 37
- ② MOTOR PEDESTAL.
Matl.: St. 37
- ③ FAN IMPELLER, BACKWARD CURVED BLADES
Matl.: St. 37
- ④ GASTIGHT ASSEMBLY
- ⑤ EL. MOTOR

kW: Rpm: V: Hz:

06.10.00

F.Ø

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MSV-B1



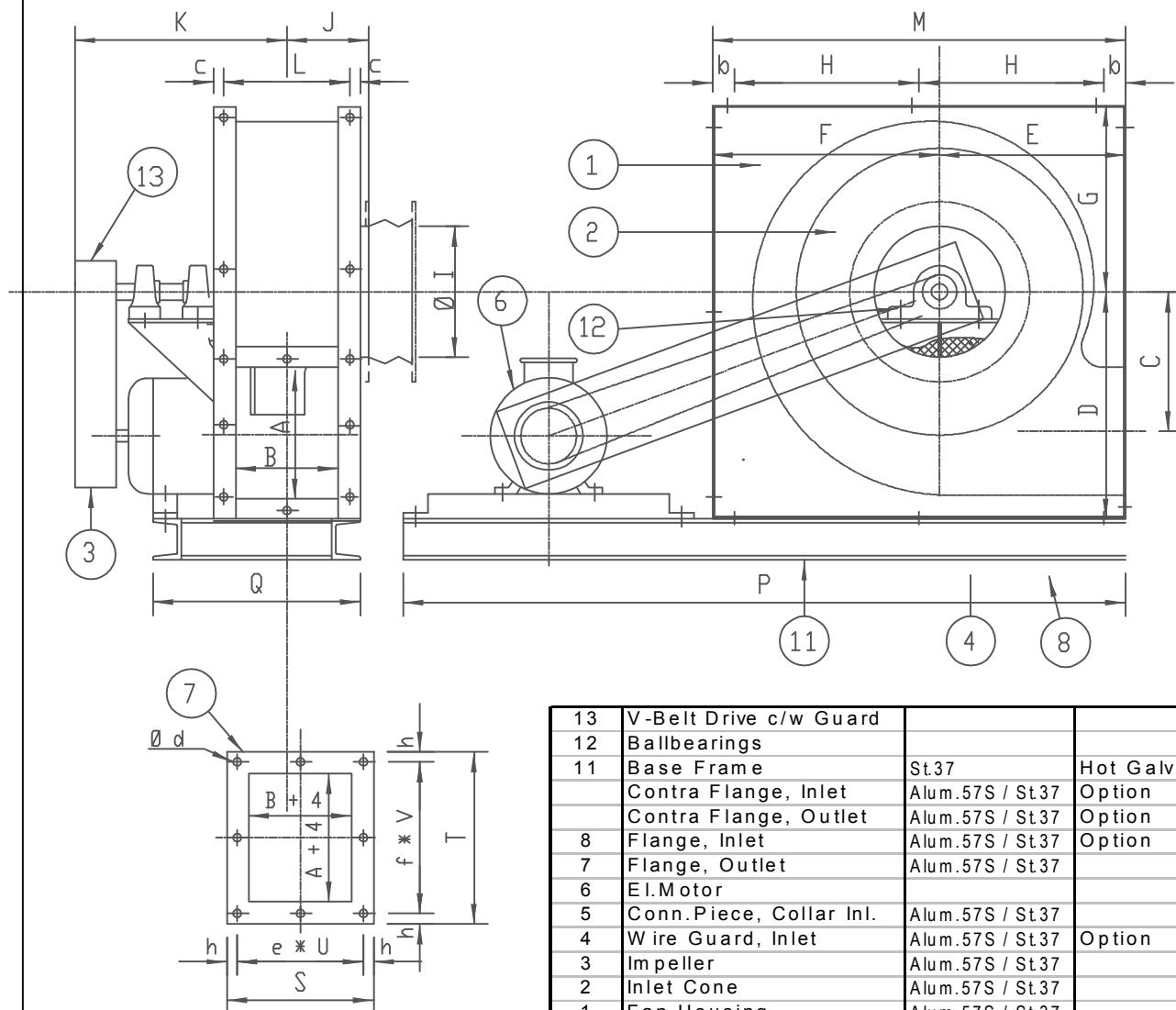
MEDIUM PRESSURE CENTRIFUGAL FAN

Belt Drive Design

Dimension Drawing

MSV - B2

Bearing Pedestal



13	V-Belt Drive c/w Guard		
12	Ballbearings		
11	Base Frame	St.37	Hot Galv.
	Contra Flange, Inlet	Alum.57S / St.37	Option
	Contra Flange, Outlet	Alum.57S / St.37	Option
8	Flange, Inlet	Alum.57S / St.37	Option
7	Flange, Outlet	Alum.57S / St.37	
6	El.Motor		
5	Conn.Piece, Collar Inl.	Alum.57S / St.37	
4	Wire Guard, Inlet	Alum.57S / St.37	Option
3	Impeller	Alum.57S / St.37	
2	Inlet Cone	Alum.57S / St.37	
1	Fan Housing	Alum.57S / St.37	
Item	Description	Material	Remarks

Fan Size Ø I	A	B	C	D	E	F	G	H	J	K	L	M	
125	130	100	140	229	180	244	195	370	75		124	424	
160	156	125	170	277	227	277	227	225	100		154	504	
200	188	160	204	327	272	307	252	262,5	125		189	579	
250	250	190	233	392	282	392	282	305	145		224	674	
315	296	253	250	433	353	413	333	350	175		289	766	
	b	c	d	e	f	h	U	V	S	T	O	P	Q
125	22	10	9,5	1	1	10	124	154	144	174			
160	27	12,5	9,5	2	2	12,5	77	92,5	179	210			
200	27	12,5	9,5	2	2	12,5	94,5	108,5	214	242			
250	32	15	12	2	2	15	112	142	254	314			
315	33	15	12	2	3	15	144,5	110	319	360			

Date : 08/12-95

4-1140-m

Drawn : R.Berge



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MSV - B2

Medium Pressure
Centrifugal Fan



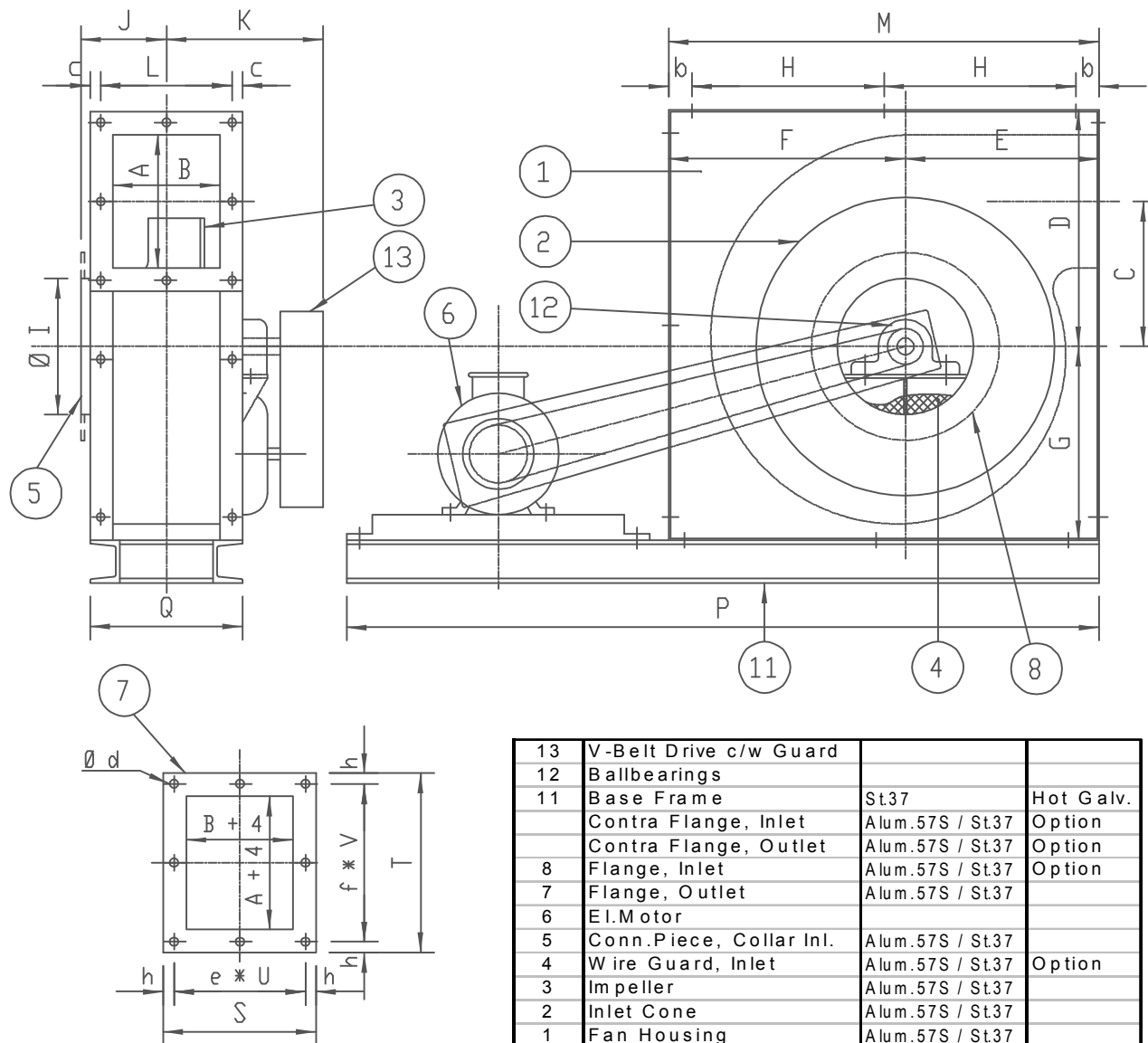
MEDIUM PRESSURE CENTRIFUGAL FAN

Belt Drive Design

Dimension Drawing

MSV - B2

Bearings in
Inlet Cone



13	V-Belt Drive c/w Guard		
12	Ballbearings		
11	Base Frame	St.37	Hot Galv.
	Contra Flange, Inlet	Alum.57S / St.37	Option
	Contra Flange, Outlet	Alum.57S / St.37	Option
8	Flange, Inlet	Alum.57S / St.37	Option
7	Flange, Outlet	Alum.57S / St.37	
6	El. Motor		
5	Conn. Piece, Collar Inl.	Alum.57S / St.37	
4	Wire Guard, Inlet	Alum.57S / St.37	Option
3	Impeller	Alum.57S / St.37	
2	Inlet Cone	Alum.57S / St.37	
1	Fan Housing	Alum.57S / St.37	
Item	Description	Material	Remarks

Fan Size Ø I	A	B	C	D	E	F	G	H	J	K	L	M	
125	130	100	140	229	180	244	195	370	75		124	424	
160	156	125	170	277	227	277	227	225	100		154	504	
200	188	160	204	327	272	307	252	262,5	125		189	579	
250	250	190	233	392	282	392	282	305	145		224	674	
315	296	253	250	433	353	413	333	350	175		289	766	
	b	c	d	e	f	h	U	V	S	T	O	P	Q
125	22	10	9,5	1	1	10	124	154	144	174			
160	27	12,5	9,5	2	2	12,5	77	92,5	179	210			
200	27	12,5	9,5	2	2	12,5	94,5	108,5	214	242			
250	32	15	12	2	2	15	112	142	254	314			
315	33	15	12	2	3	15	144,5	110	319	360			

Date : 08/12-95

4-1136-m

Drawn : R.Berge



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MSV - B2

Medium Pressure
Centrifugal Fan

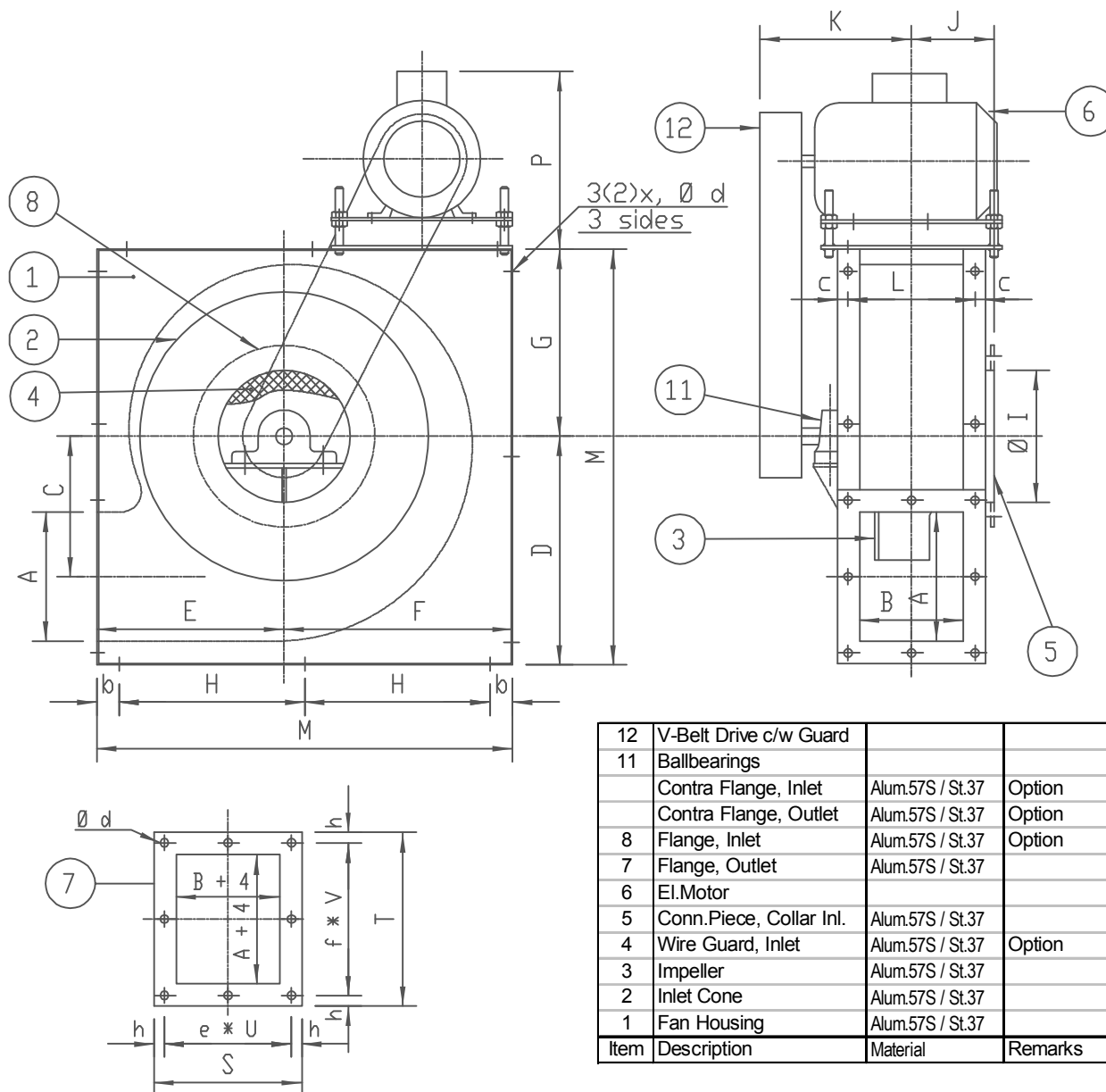


MEDIUM PRESSURE CENTRIFUGAL FAN

Belt Drive Design Dimension Drawing

MSV - B3

Motor on
Fan Housing



Fan Size Ø I	A	B	C	D	E	F	G	H	J	K	L	M	
125	130	100	140	229	180	244	195	370	75		124	424	
160	156	125	170	277	227	277	227	225	100		154	504	
200	188	160	204	327	272	307	252	262,5	125		189	579	
250	250	190	233	392	282	392	282	305	145		224	674	
315	296	253	250	433	353	413	333	350	175		289	766	
	b	c	d	e	f	h	U	V	S	T		P	
125	22	10	9,5	1	1	10	124	154	144	174			
160	27	12,5	9,5	2	2	12,5	77	92,5	179	210			
200	27	12,5	9,5	2	2	12,5	94,5	108,5	214	242			
250	32	15	12	2	2	15	112	142	254	314			
315	33	15	12	2	3	15	144,5	110	319	360			

Date :11/12-95

4-1138-m

Drawn :R.Berge



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MSV - B3

Medium Pressure
Centrifugal Fan



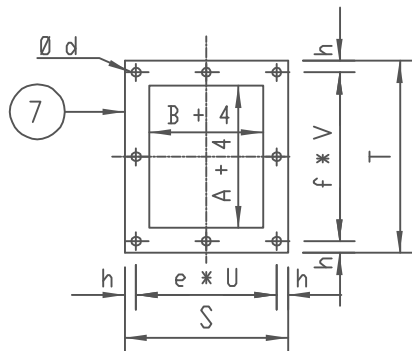
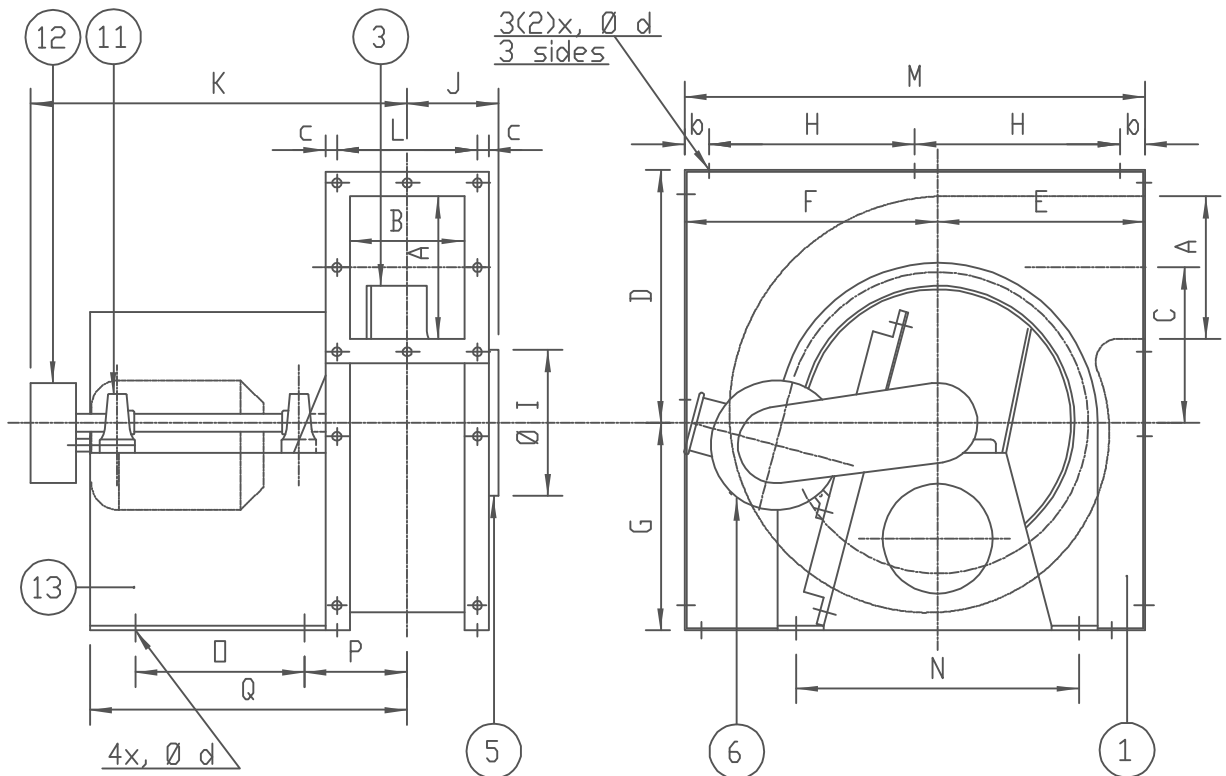
MEDIUM PRESSURE CENTRIFUGAL FAN

Belt Drive Design

Dimension Drawing

MSV - B3

Motor-/Bearing
Pedestal



13	Motor/Bearing Pedestal	St37	
12	V-Belt Drive c/w Guard		
11	Ballbearings		
	Contra Flange, Inlet	Alum.57S / St37	Option
	Contra Flange, Outlet	Alum.57S / St37	Option
	Flange, Inlet	Alum.57S / St37	Option
7	Flange, Outlet	Alum.57S / St37	
6	El.Motor		
5	Conn.Piece, Collar Inl.	Alum.57S / St37	
	Wire Guard, Inlet	Alum.57S / St37	Option
3	Impeller	Alum.57S / St37	
2	Inlet Cone	Alum.57S / St37	
1	Fan Housing	Alum.57S / St37	
Item	Description	Material	Remarks

Fan Size Ø I	A	B	C	D	E	F	G	H	J	K	L	M	N	
125	130	100	140	229	180	244	195	370	75		124	424		
160	156	125	170	277	227	277	227	225	100		154	504		
200	188	160	204	327	272	307	252	262,5	125		189	579		
250	250	190	233	392	282	392	282	305	145		224	674		
315	296	253	250	433	353	413	333	350	175		289	766		
	b	c	d	e	f	h	U	V	S	T				
125	22	10	9,5	1	1	10	124	154	144	174				
160	27	12,5	9,5	2	2	12,5	77	92,5	179	210				
200	27	12,5	9,5	2	2	12,5	94,5	108,5	214	242				
250	32	15	12	2	2	15	112	142	254	314				
315	33	15	12	2	3	15	144,5	110	319	360				

Date : 11/12-95

4-1137-m

Drawn : R.Berge



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MSV - B3

Medium Pressure
Centrifugal Fan



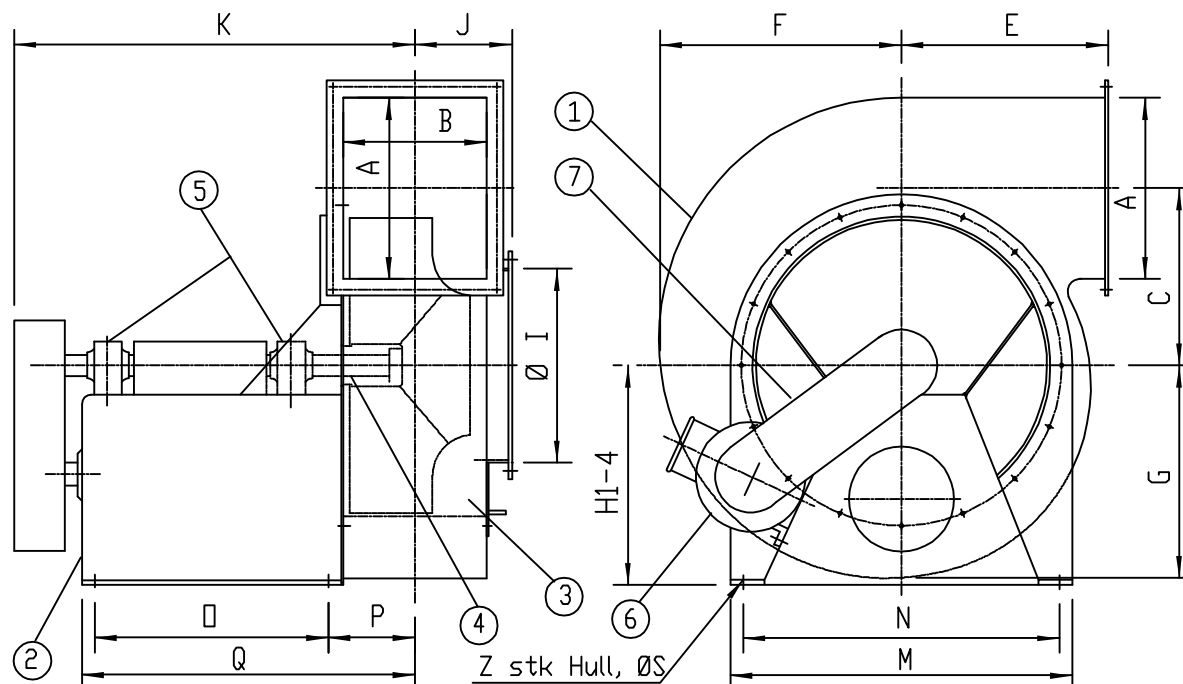
MEDIUM PRESSURE CENTRIFUGAL FAN

Belt Drive Design

Dimension Drawing

MSV-B3

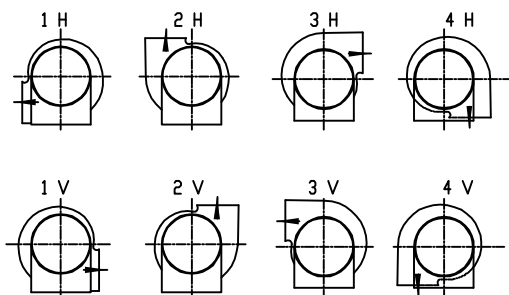
Motor-/Bearing
Pedestal



SIZE Ø I	A	B	C	E	F	G	H1	H2	H3	H4	J	K	M	N	Ø	P	Q	Z	S
350	350	270	320	380	425	380	550	450	400	450	190		630	580		170		4	14
400	370	290	370	440	505	450	600	550	500	400	210		700	650		175		4	16
450	420	330	420	490	575	510	680	620	560	430	230		810	750		195		4	16
500	460	370	460	520	630	540	750	650	600	470	250		900	800		230		4	16
600	530	410	530	600	730	630	850	775	680	550	280		1000	900		250		4	22
700	690	490	630	700	860	750	1050	910	800	650	330		1200	1120		290		4	22

MOUNTING POSITIONS

To be seen against the inlet



- ① FAN HOUSING
Matl.: St. 37
- ② MOTOR PEDESTAL.
Matl.: St. 37
- ③ FAN IMPELLER
Matl.: St. 37
- ④ SHAFT SEAL OR GASTIGHT ASSEMBLY
If applicable
- ⑤ 2 pcs. BEARINGS
- ⑥ El.Motor:
kW: Rpm: V: Hz:
- ⑦ V-Belt Transmission c/w Belt Drive

24.06.97

M.Berge

msvb3af



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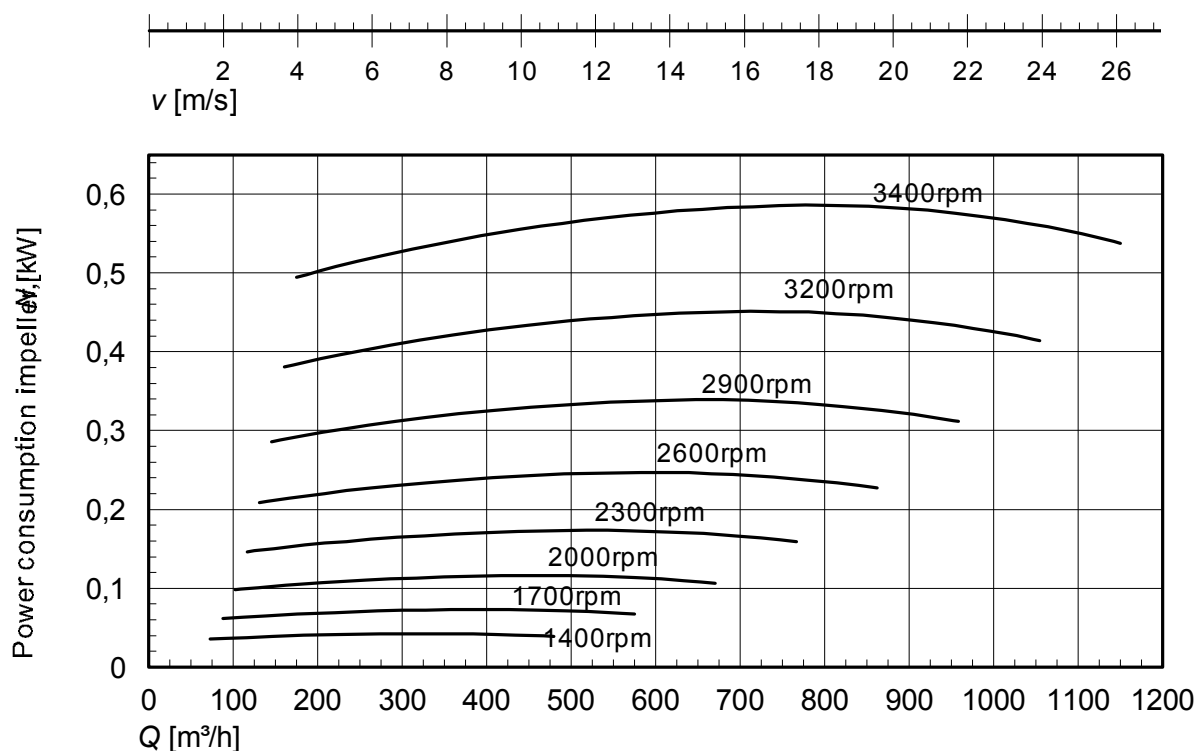
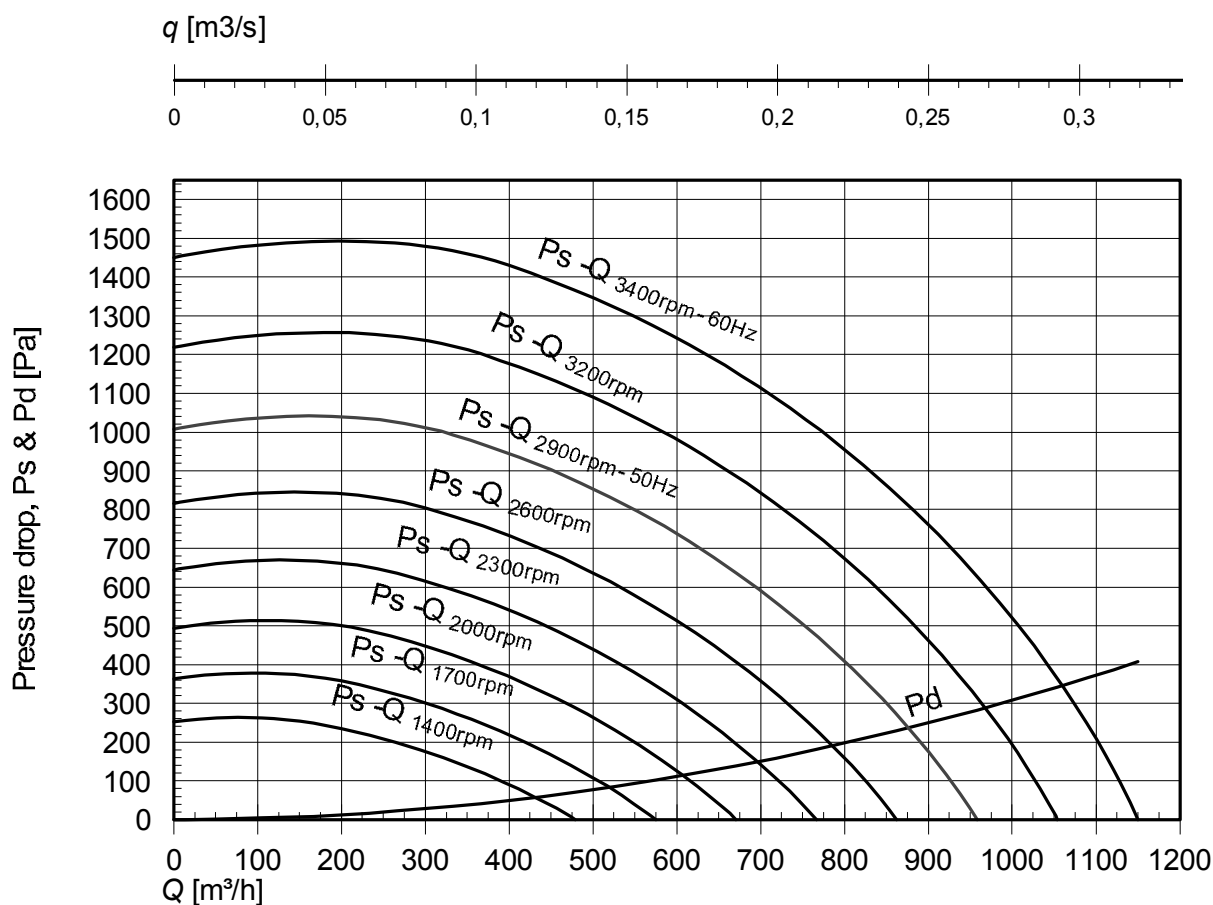
MSV-B3



MEDIUM PRESSURE CENTR. FAN PERFORMANCE DATA

MSV 125 B

Imp: B9x250x70

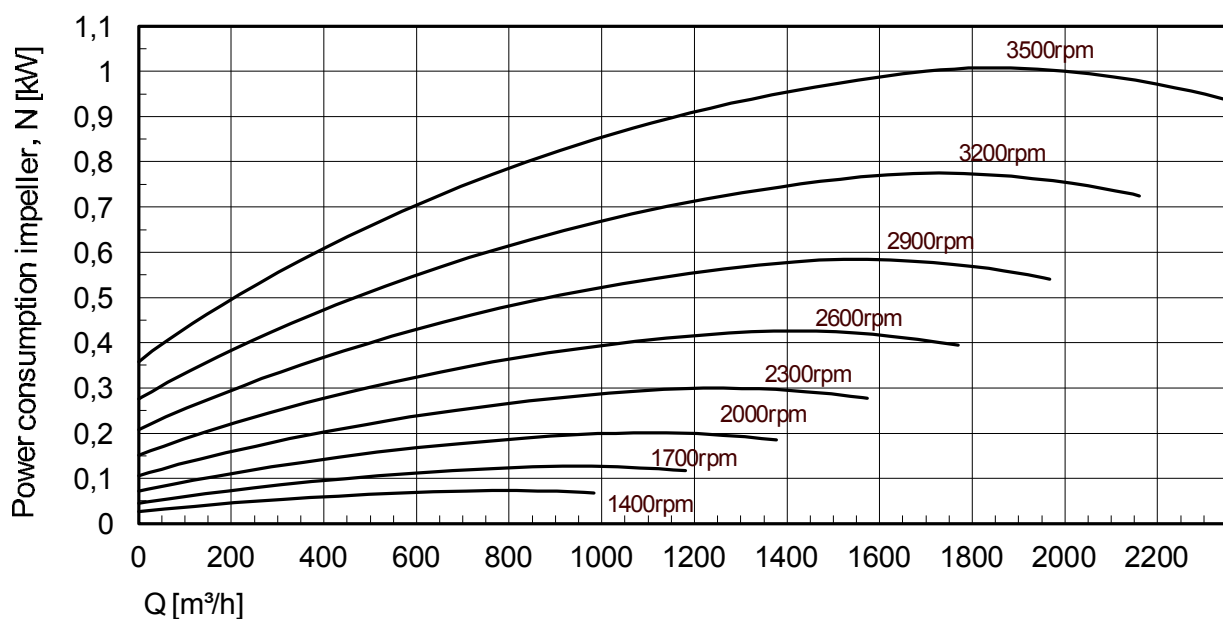
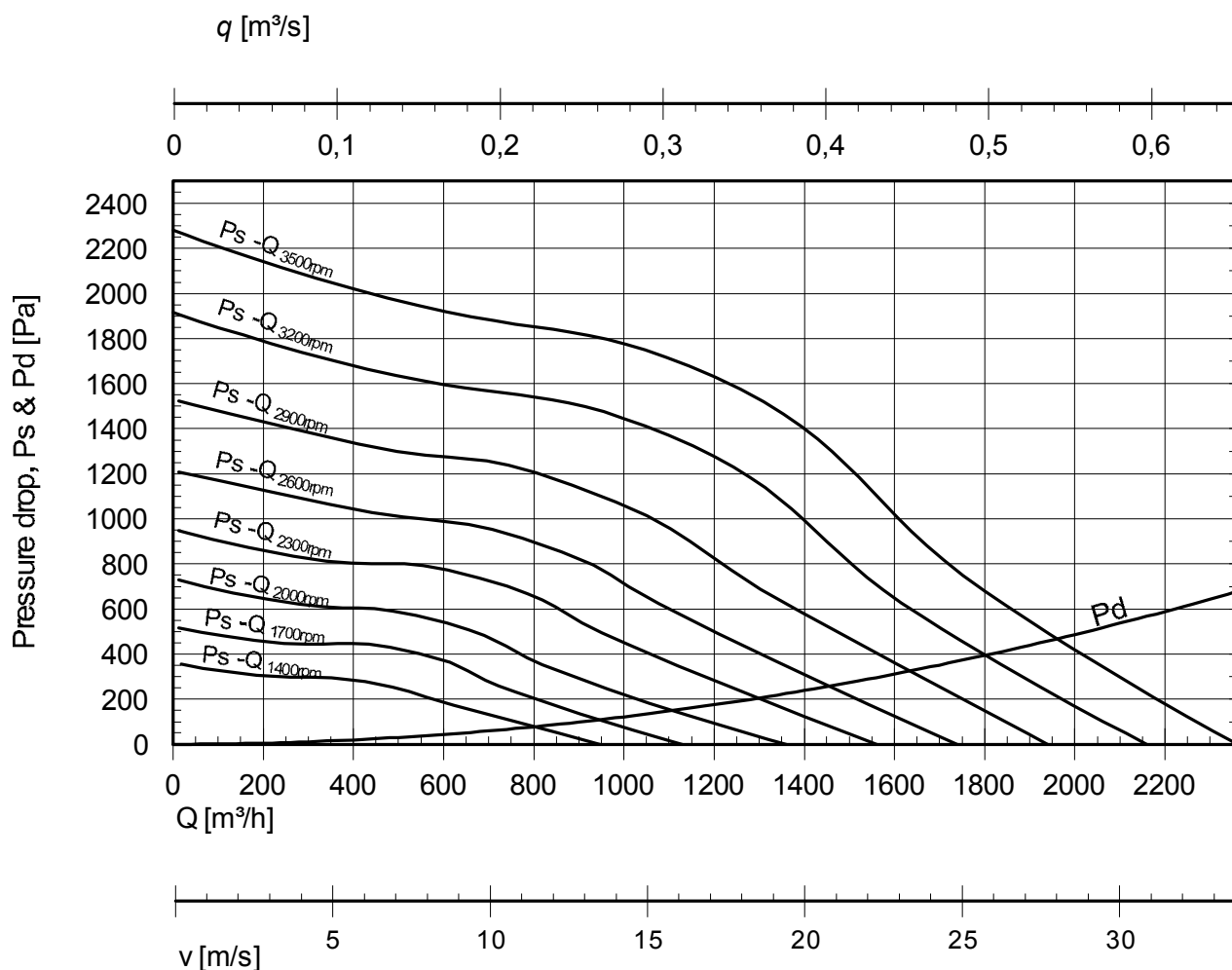




MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 160 B

Imp: B12x300x60



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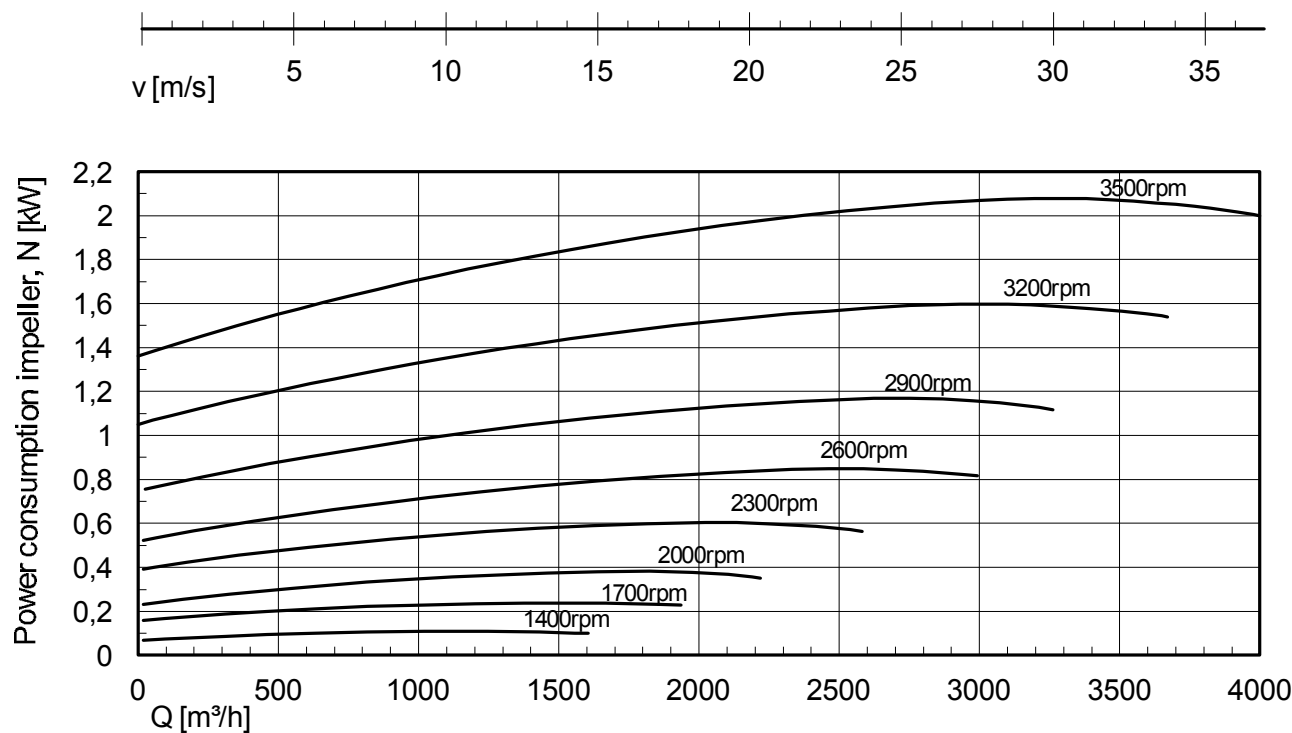
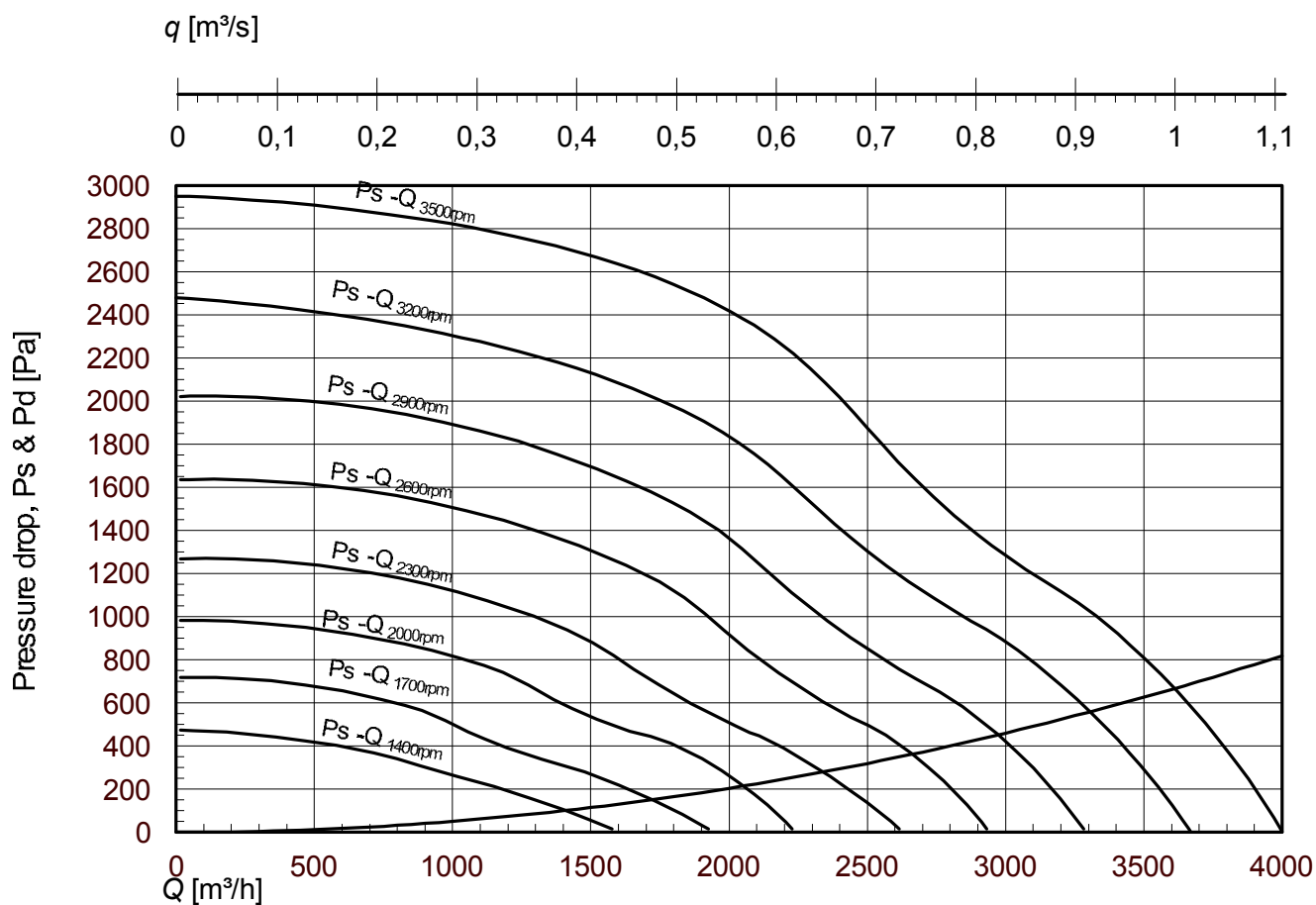
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MSV 160 B



MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 200 B
Imp: B12x350x70

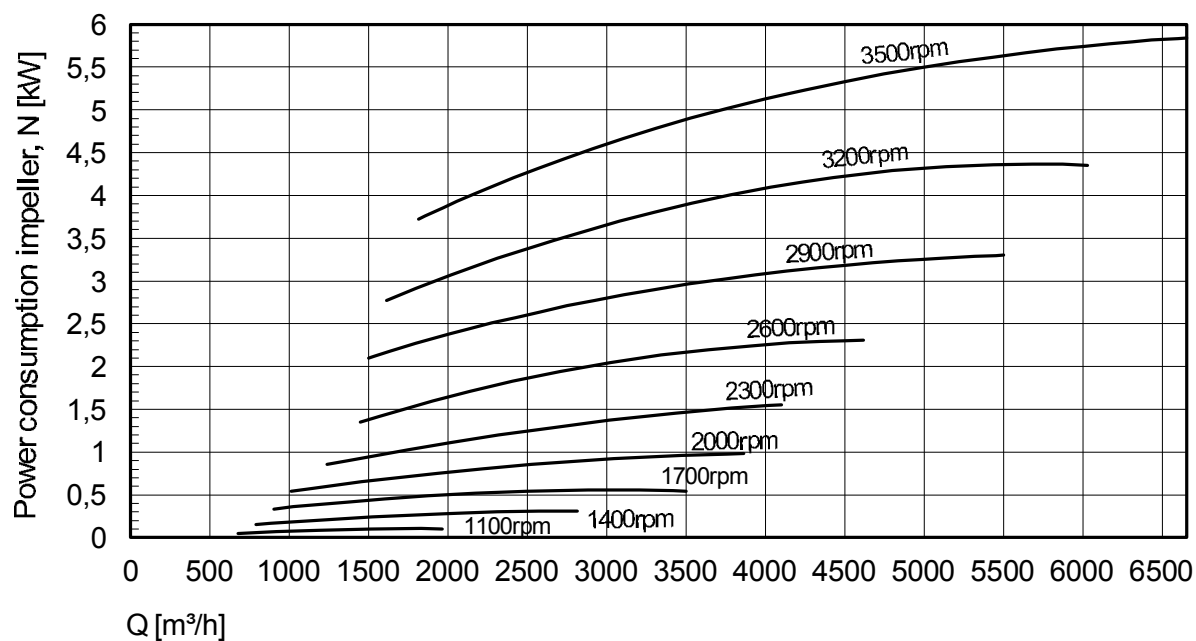
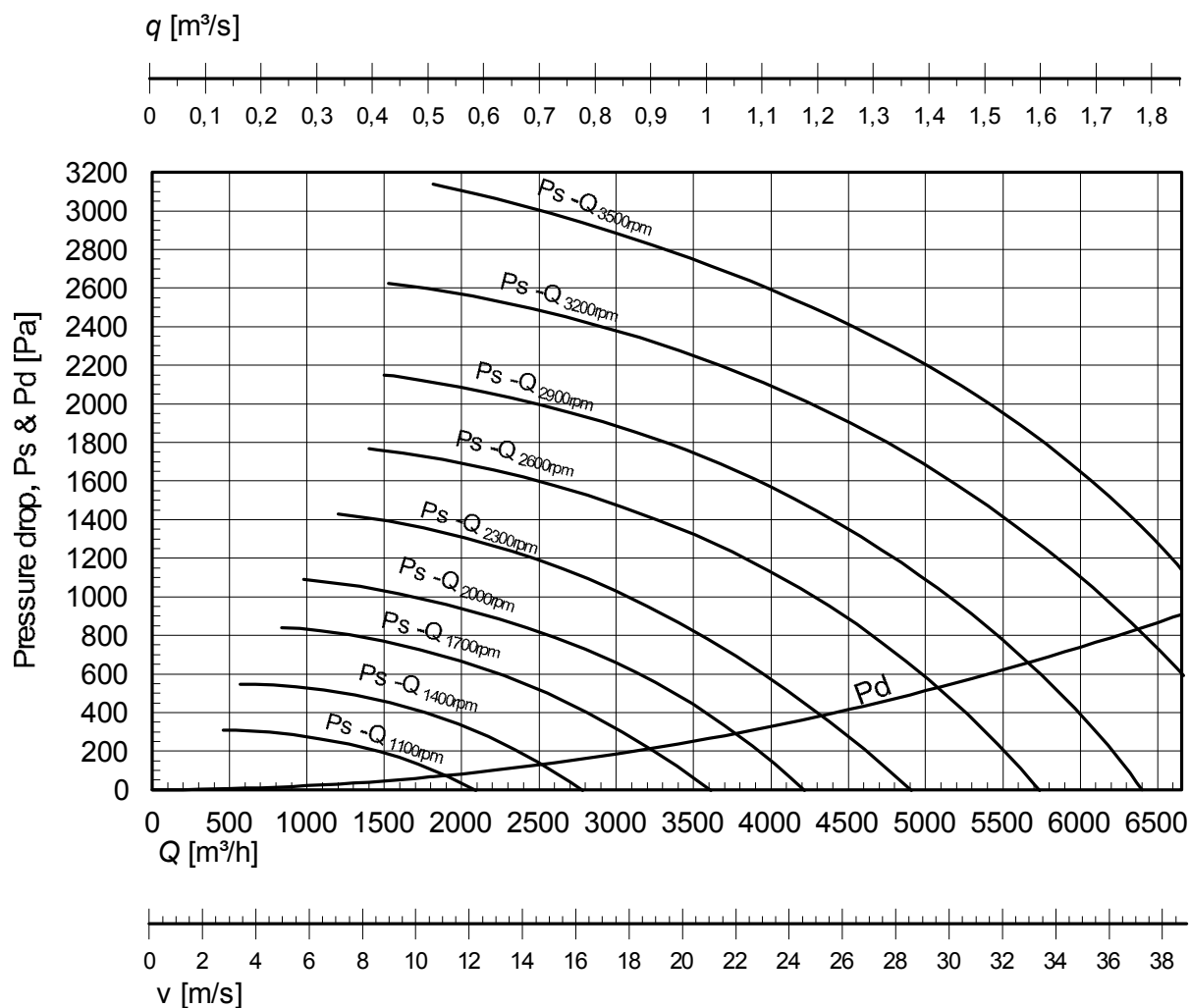




MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 250 B

Imp: B12x400x80



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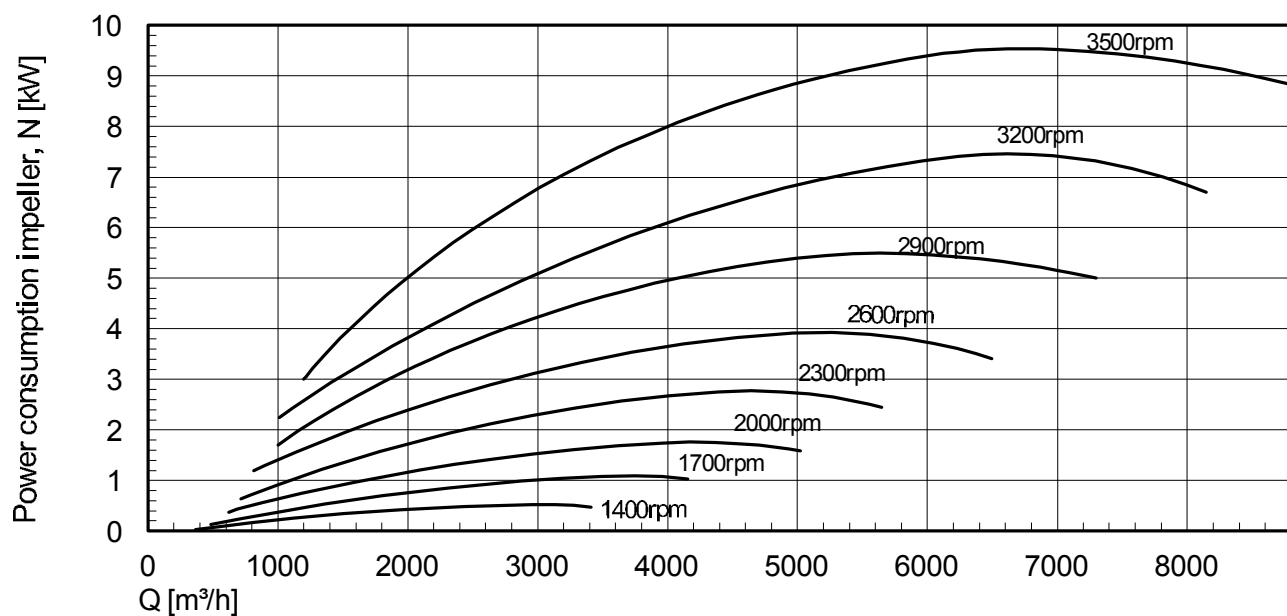
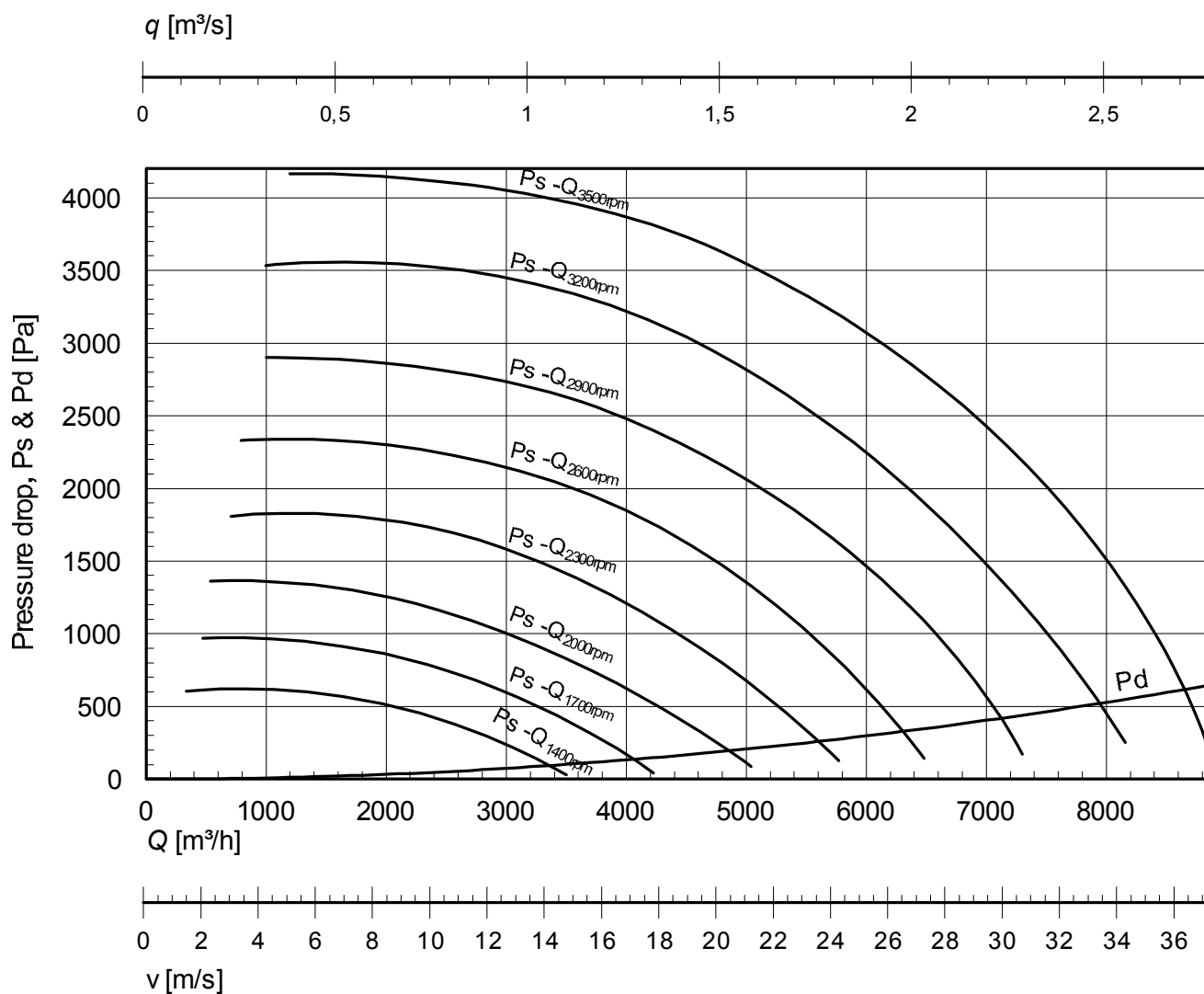
MSV 250 B



MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 315 B

Imp: B12x450x90



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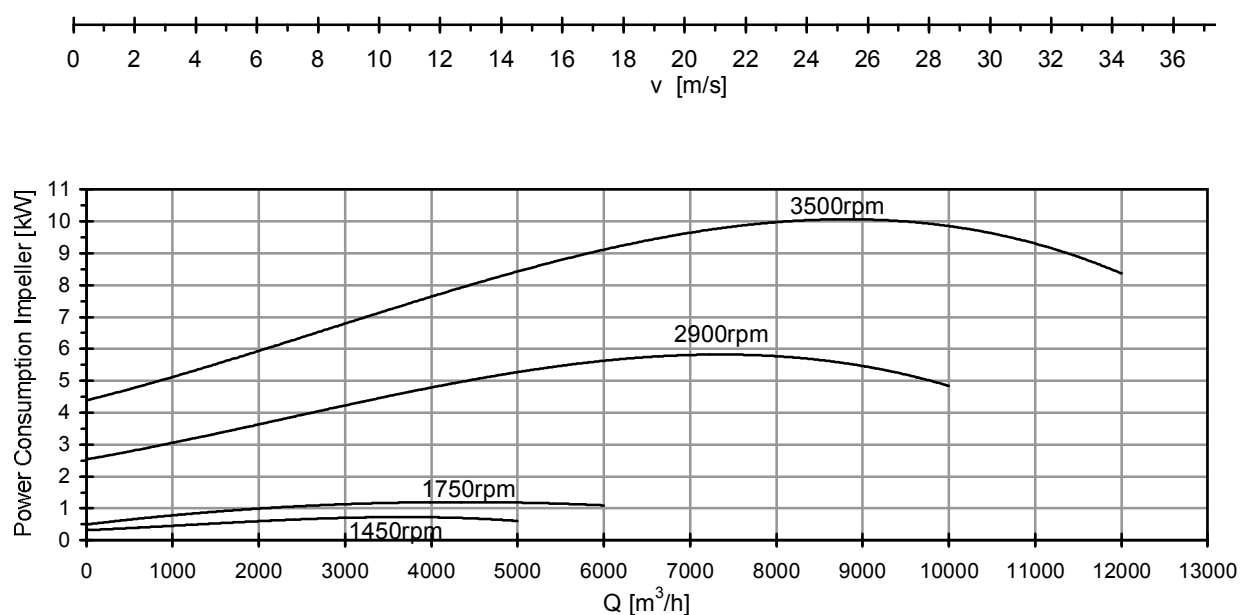
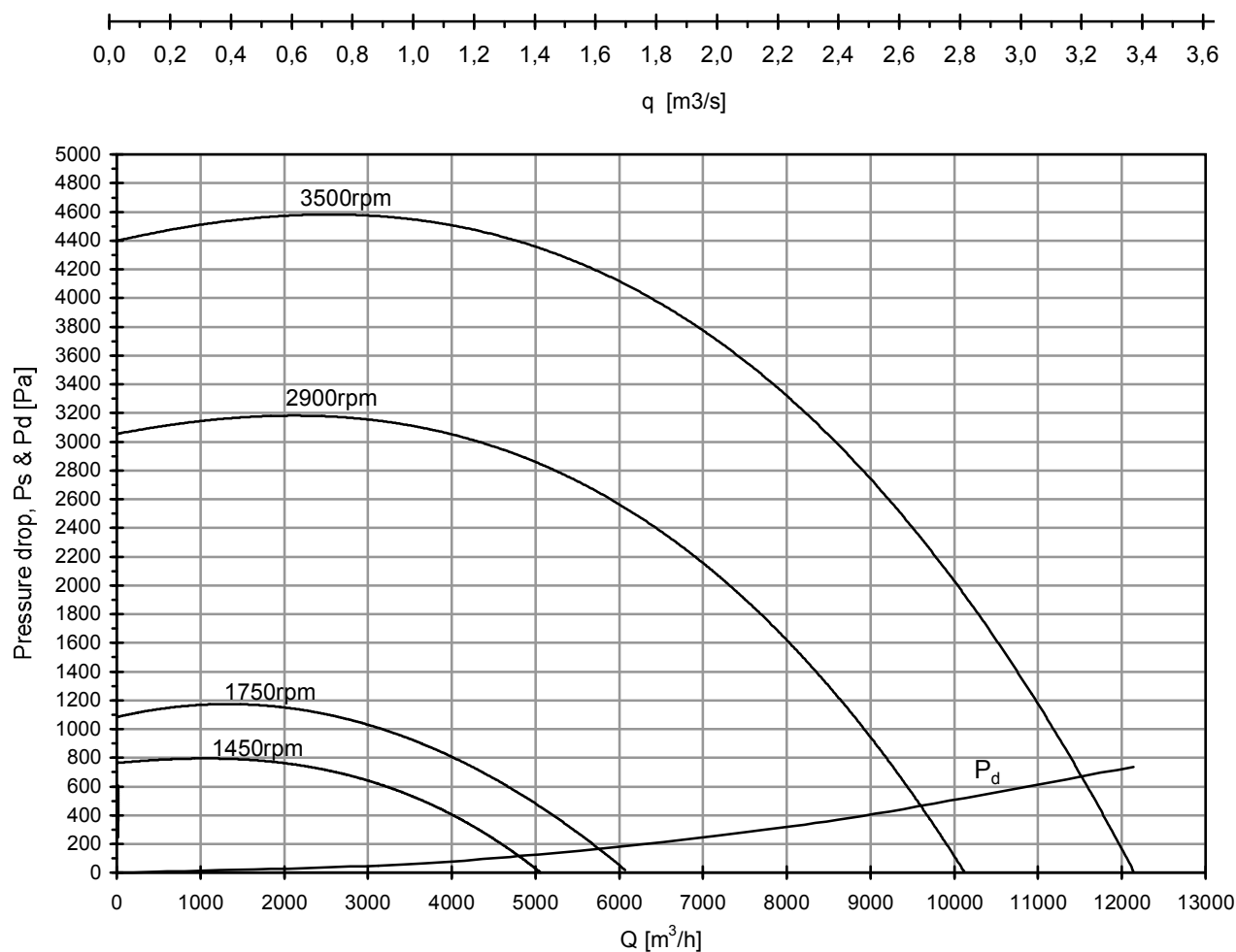
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NYBORG MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 350 B

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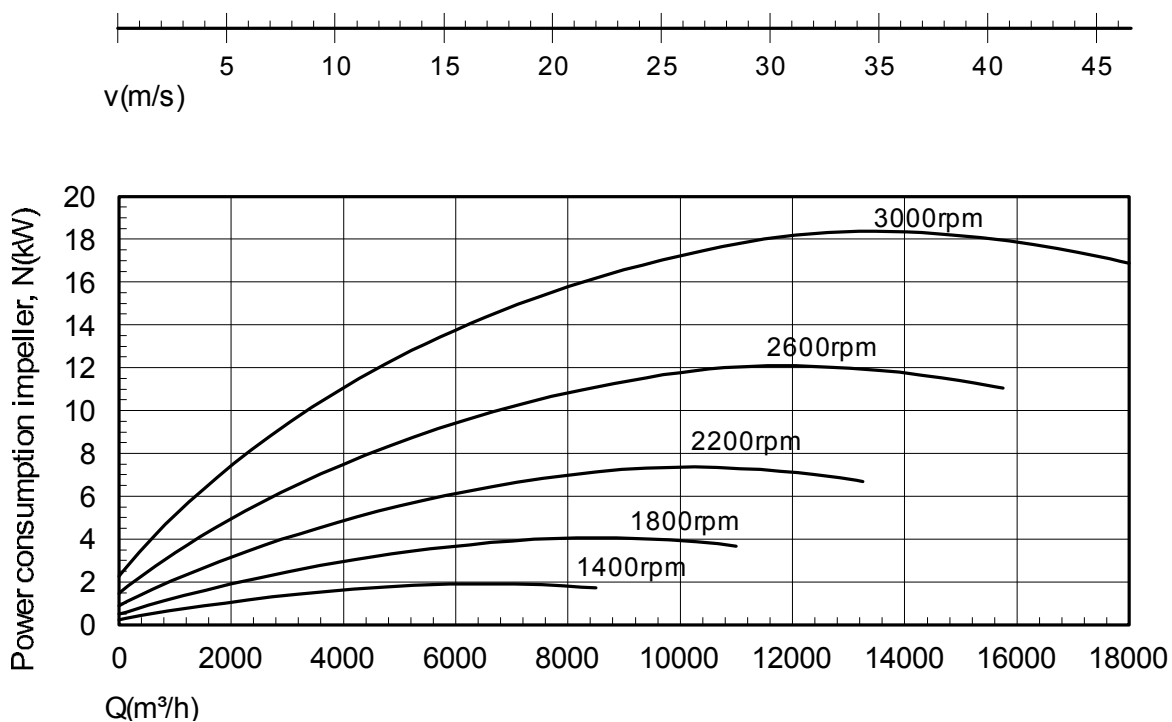
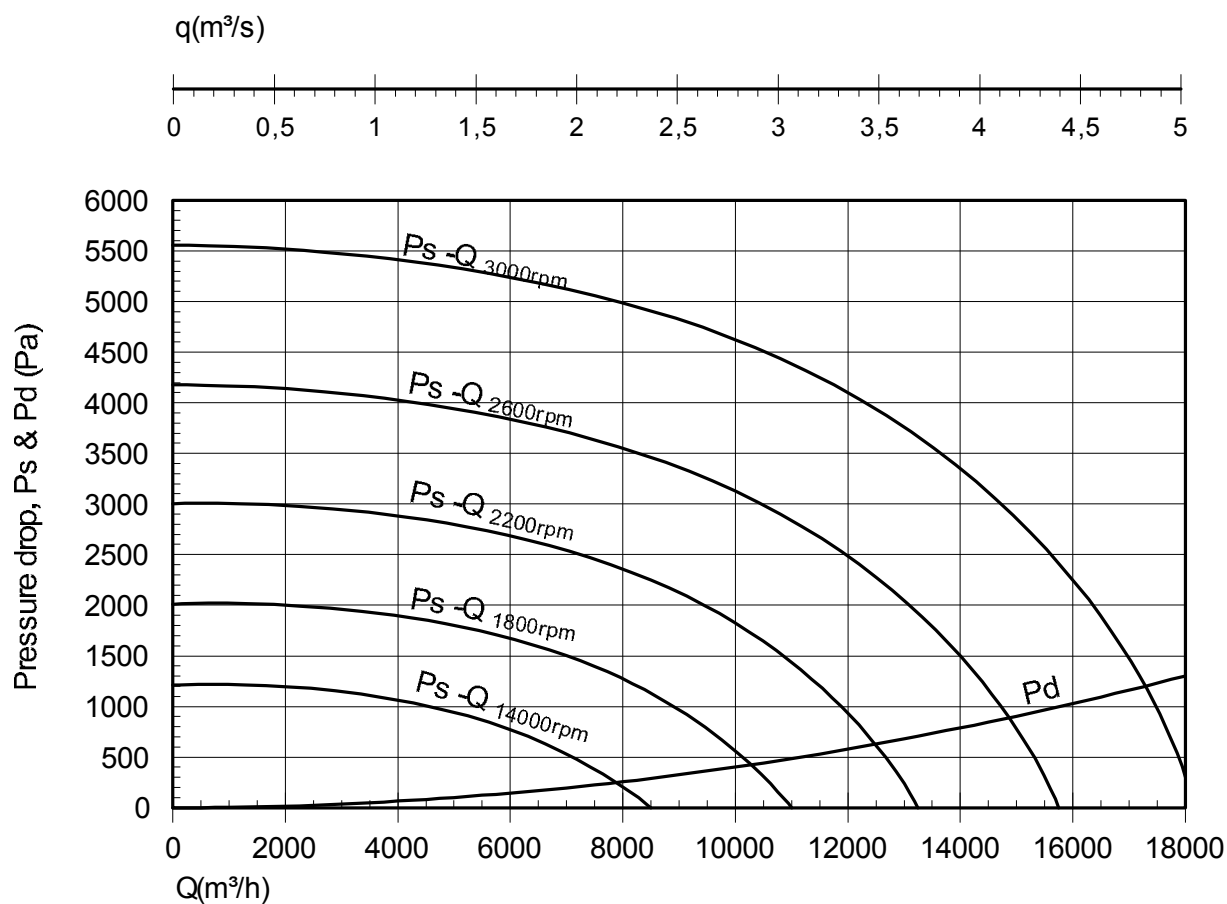




MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 400 B

Imp: B12x620x95



Nyborg14.prs/1



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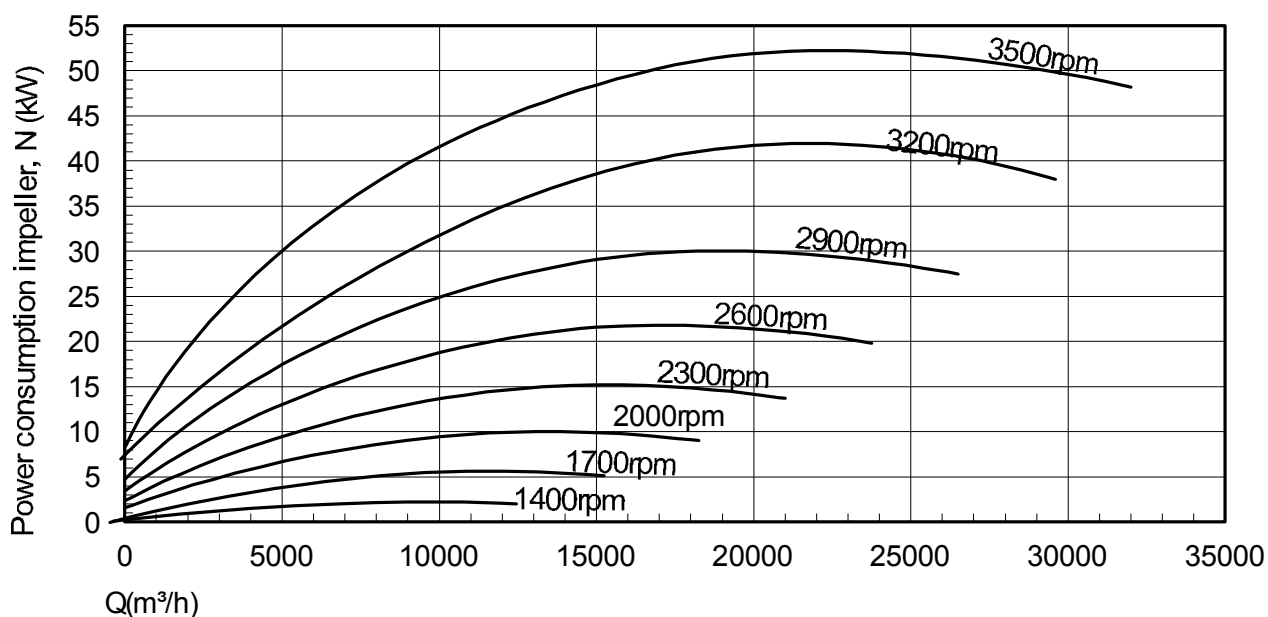
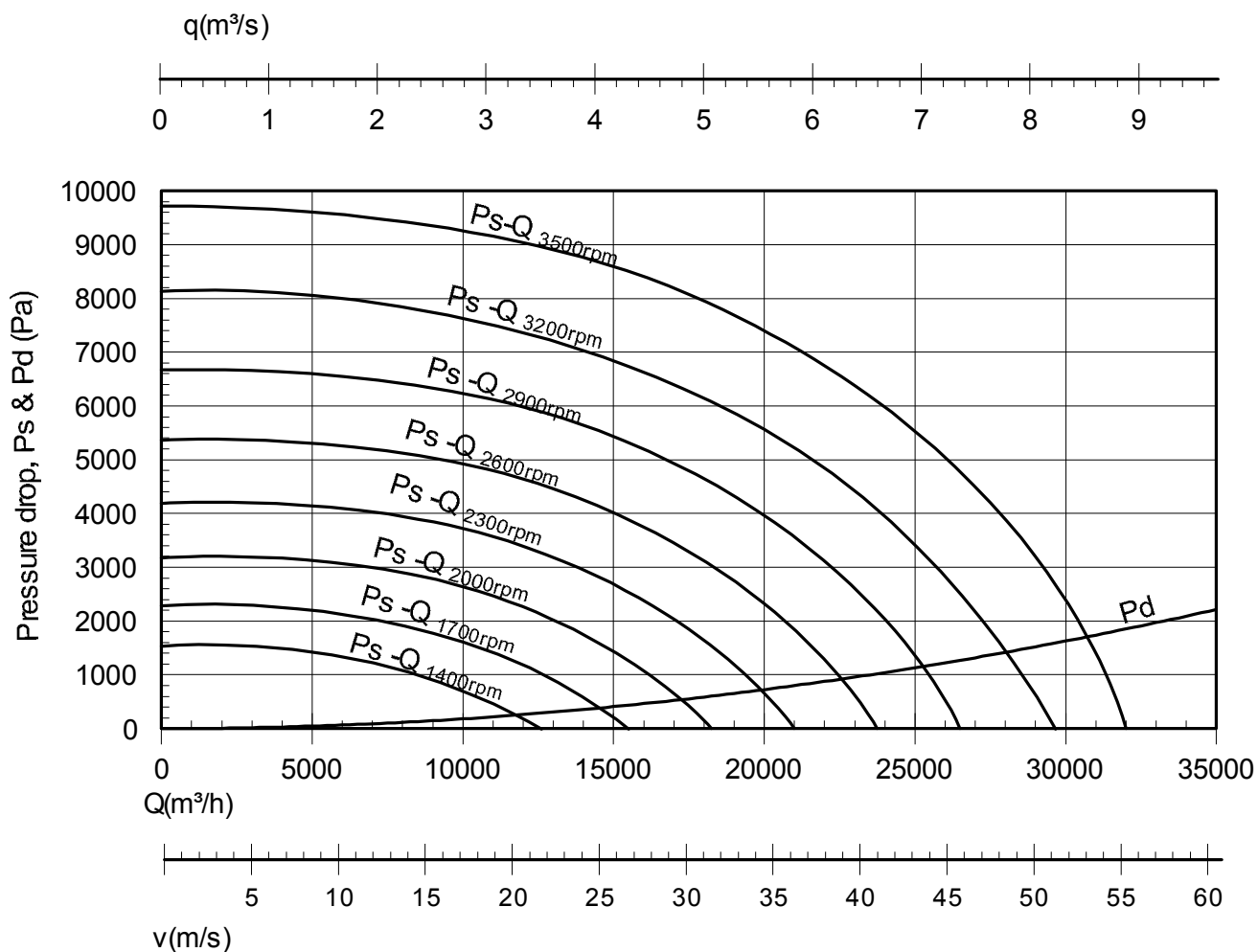
MSV 400 B



MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 450 B

Imp: B16x680x110



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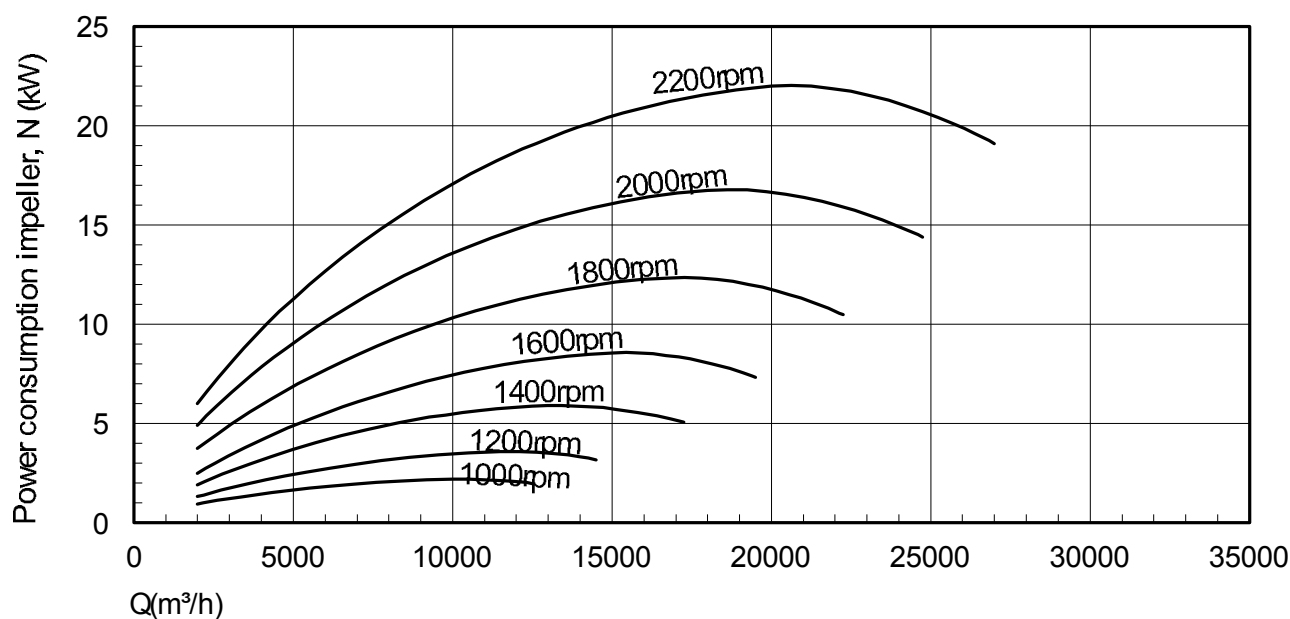
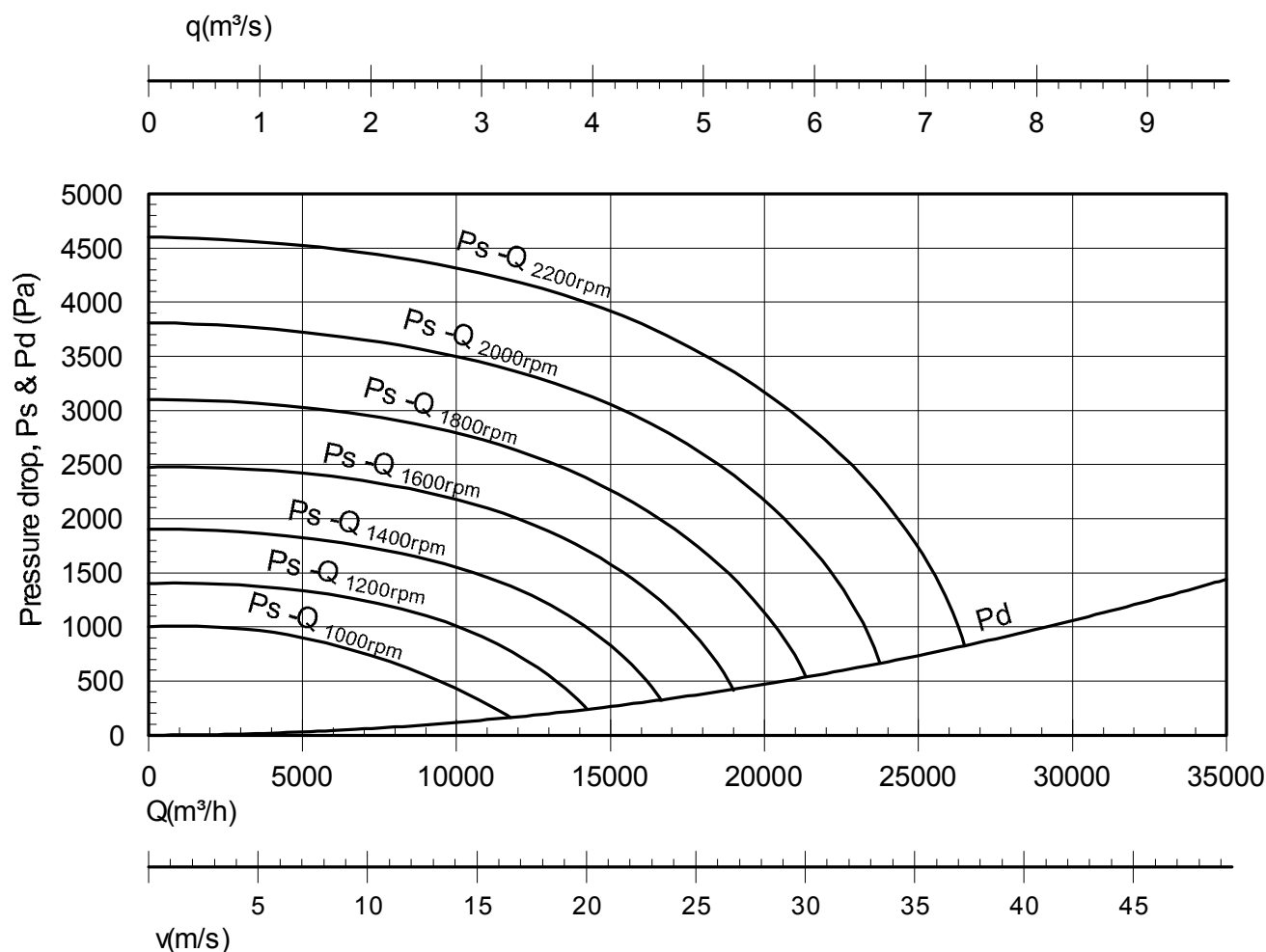
MSV 450 B



MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 500 B

Imp: B12x750x120



Nyborg15.prs/12



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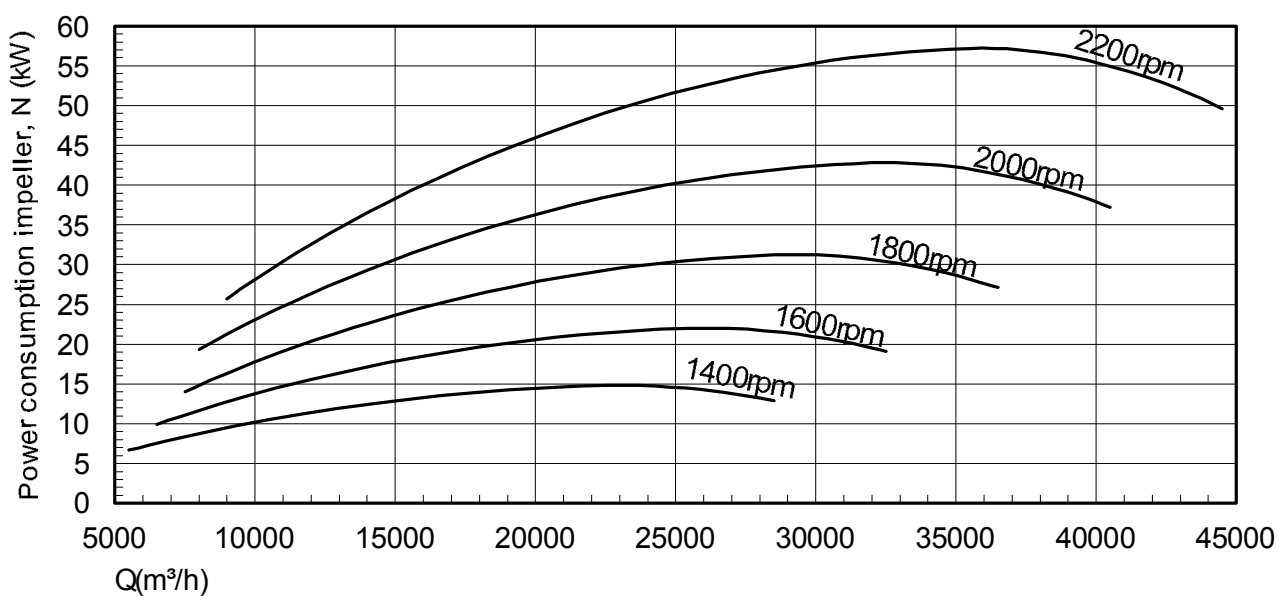
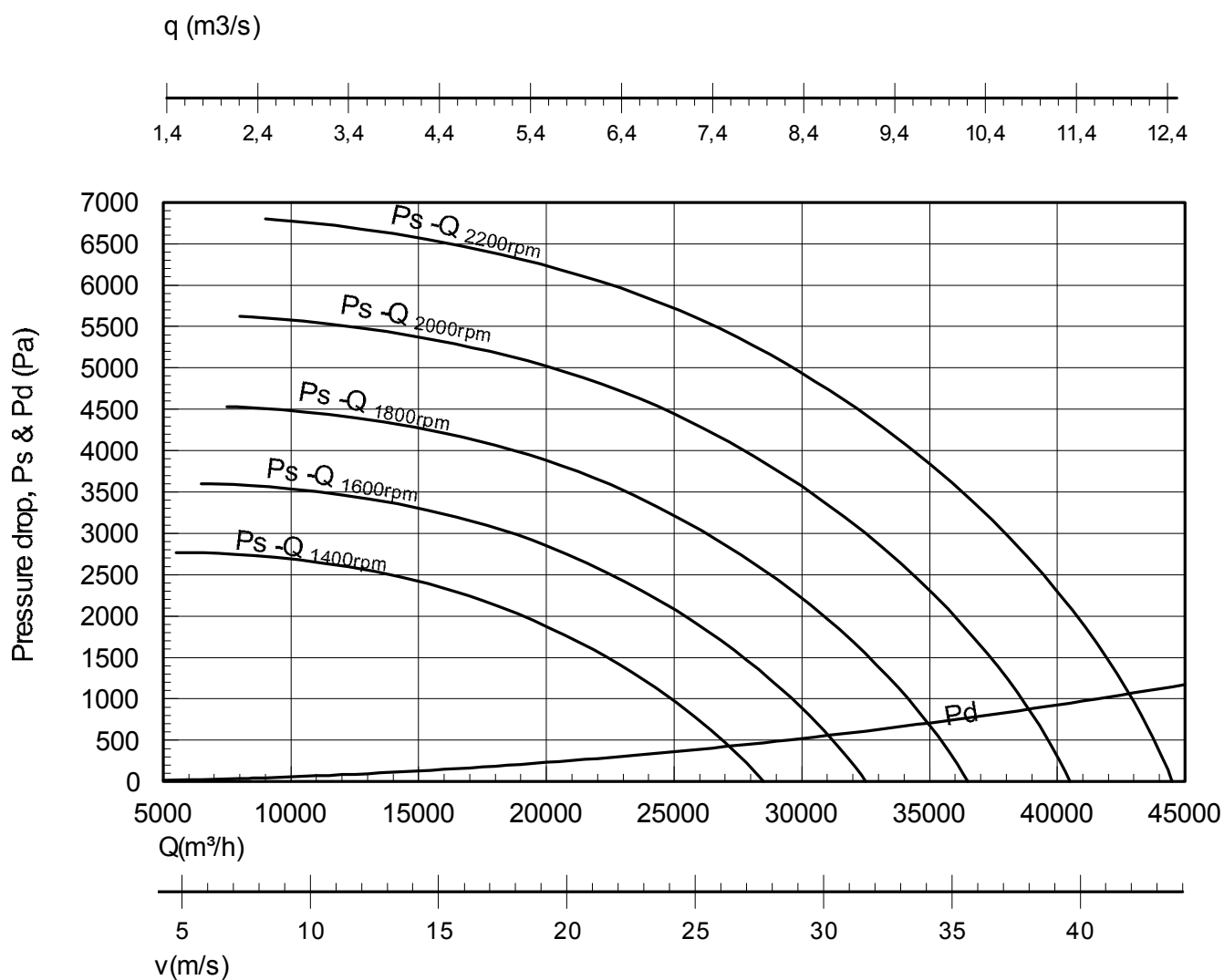
MSV 500 B



MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 600 B

Imp: B12x880x150



Nyborg14.prs/2



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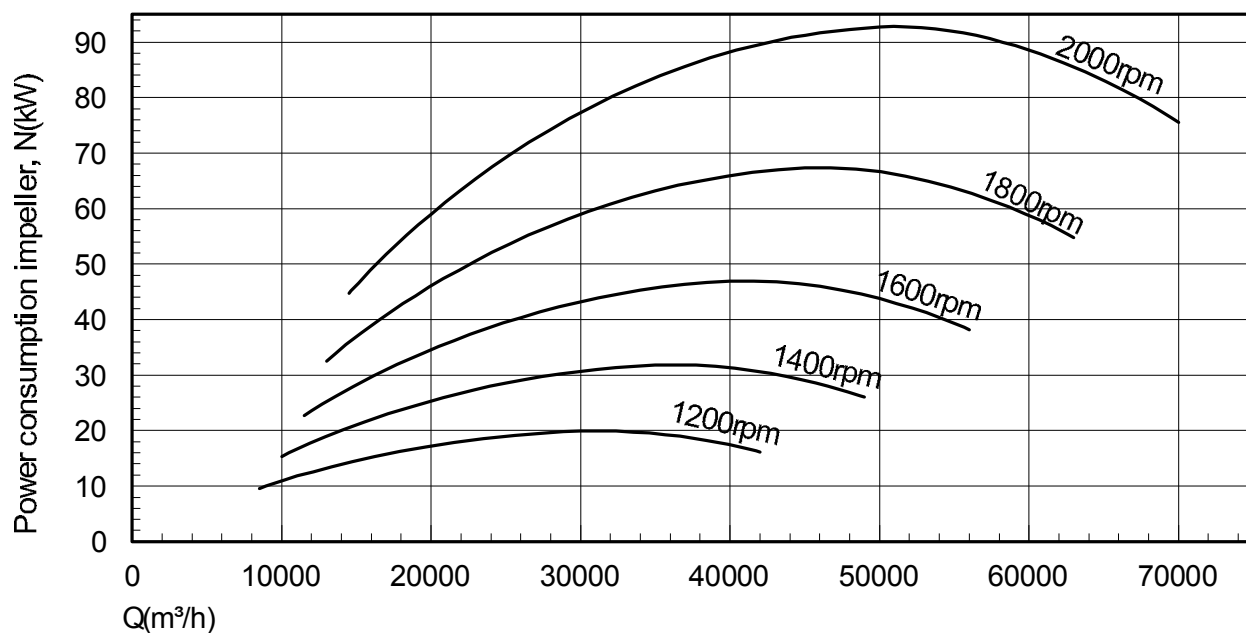
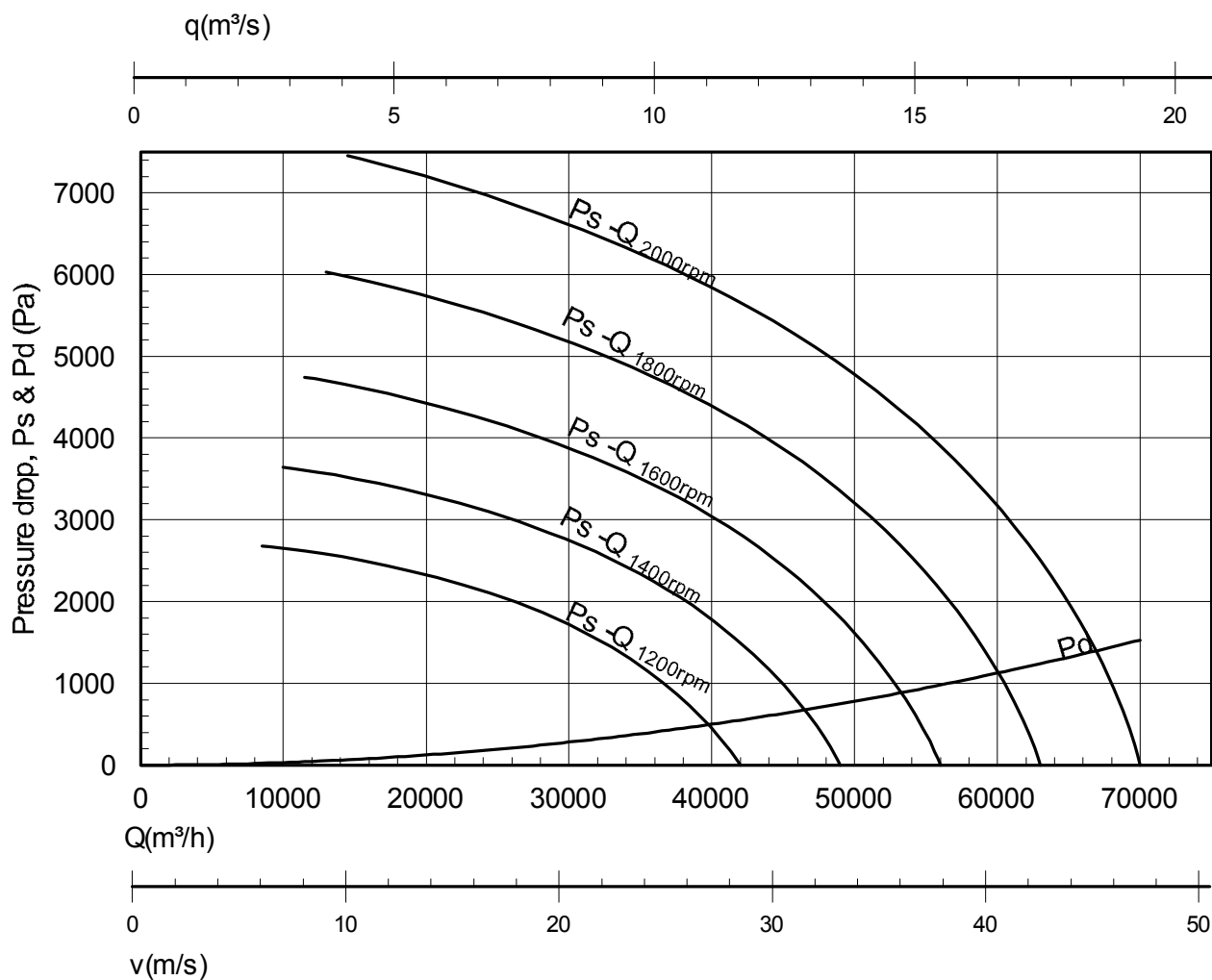
MSV 600 B



MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 700 B

Imp: B12x1050x170

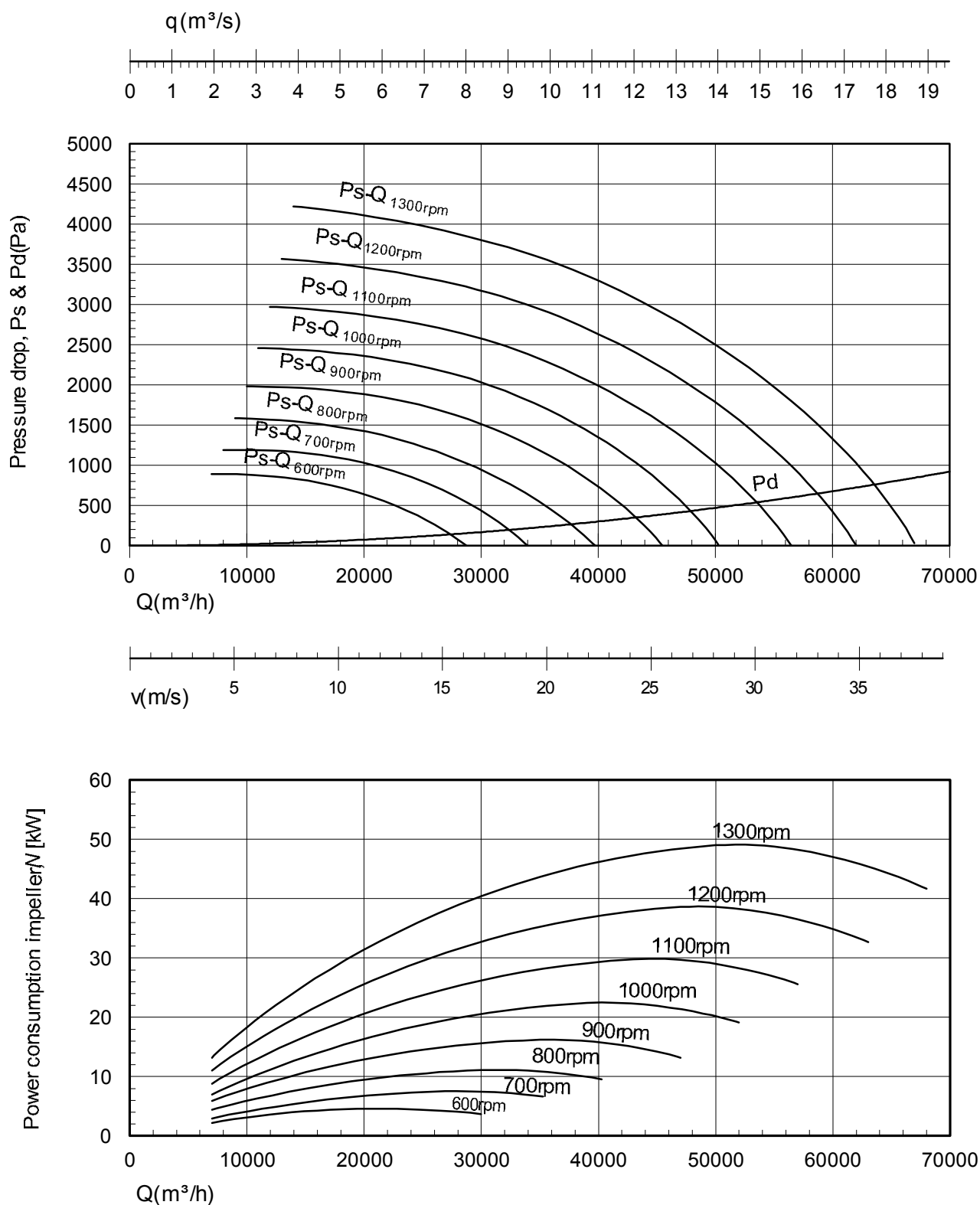




MEDIUM PRESSURE CENTR. FAN PERFORMANCE DATA

MSV 800 B

Imp: B16x1200x190



Nyborg20-12



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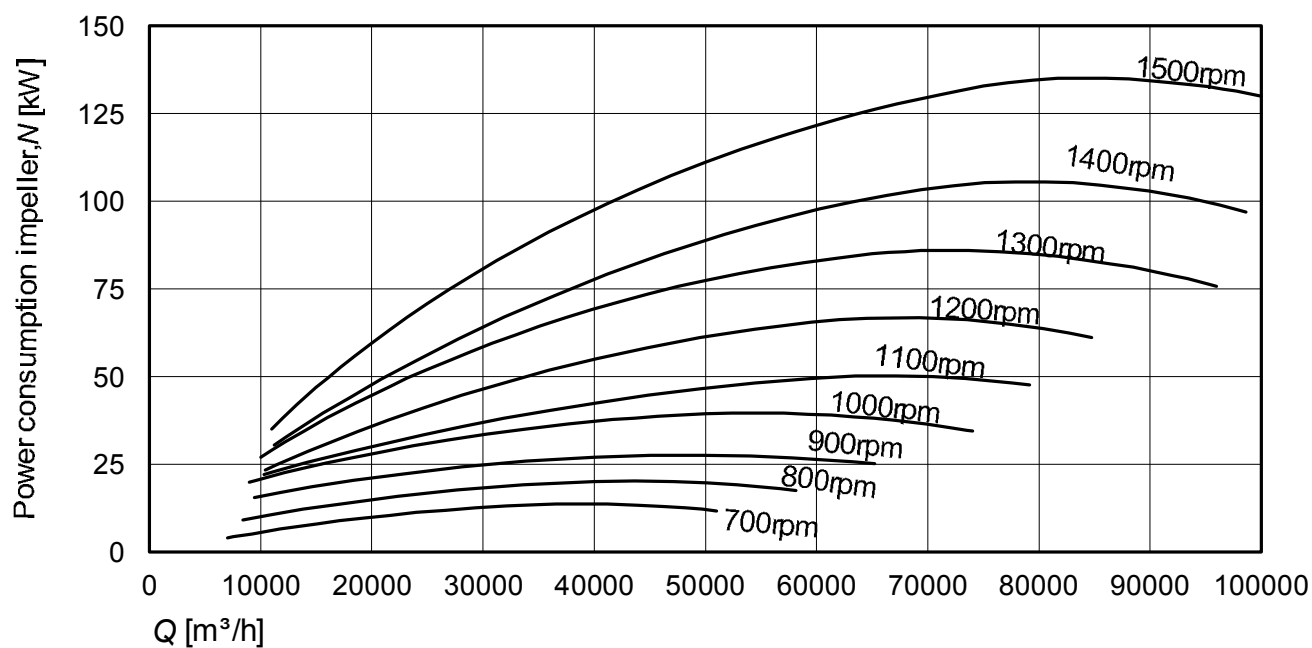
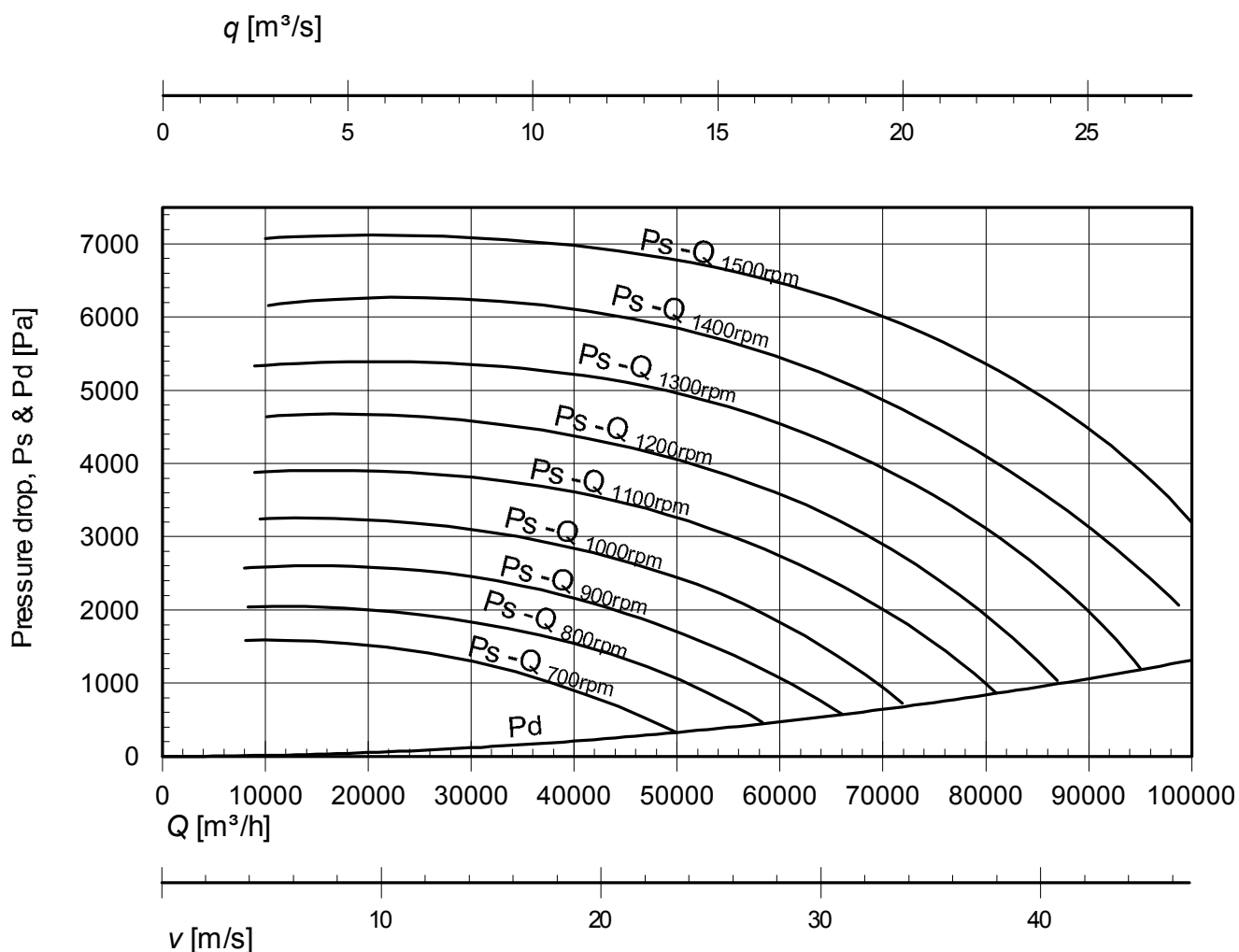
MSV 800 B



MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 900 B

Imp: B16x1350x220



Nyborg12.prs/10



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MSV 900 B



PAINTING SPECIFICATION ALUMINIUM FANS

Surface preparation:

Step No	Description	Thickness	Type	Manufacturer
1	Washing	-	Aluminate (acid)	Alu-Nor
2	Cleaning	-	Water	-

Painting : Color RAL 5012

Step No	Description	Thickness	Type	Manufacturer
1	Primer	30 my	Joton Washprimer	Jotun
2	Topcoat	40 my	Jotun Ultra Topcoat	Jotun

GALVANIZE SPECIFICATION STEEL FANS

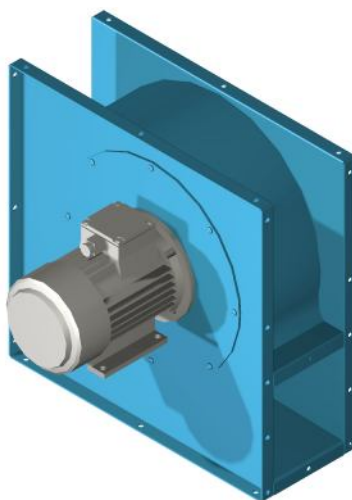
Surface preparation:

Step No	Description	Thickness	Type	Manufacturer
1	Cleaning	-	Nitric acid	-
2	Galvanizing	80my	Zn	-



WENTYLATORY ODŚRODKOWE

TYP
LSV/MSV/HSV



ZASTOSOWANIE

Wentylatory odśrodkowe dzielą się na trzy główne grupy: nisko-, średnio-, i wysokociśnieniowe.

KONSTRUKCJA

Konstrukcja oparta jest na się na trzech głównych grupach, nisko-, średnio-, i wysokociśnieniowych.

Konstrukcja i kształt wirnika napędzanego wentylatora jest uzależniony od jego zastosowania, uwarunkowanego wymaganą objętością powietrza i spadkiem ciśnienia.

Wirniki dzielą się na cztery główne grupy. W celu realizacji specyfikacji klientów, dostępne są również rozwiązania na specjalne zamówienie, takie jak model odporny na iskrzenie.

WYKONANIE

LSV i MSV są produkowane z odpornego na wodę morską aluminium i malowane.

Wykonanie ze stali nierdzewnej / AISI 316 lub na życzenie ze stali cynkowanej lub malowanej.

Wirnik wykonany jest z aluminium odpornego na działanie soli i amoniaku, o aerodynamicznym kształcie i wyważeniu. W czterech głównych grupach:

Typ B: łopatki odchylone w kierunku przeciwnym do obrotu wentylatora, wypukłe

Typ F: łopatki odchylone w kierunku obrotu wentylatora, koło 'Sciroccio'

Typ Z: łopatki odchylone w kierunku przeciwnym do obrotu wentylatora, wklęsłe samoczyszczące

Typ R: łopatki promieniste/promieniowe, do wentylatora transportowego

Przepustowość powietrza waha się od 1000 do 240 000 m³/n.

SILNIK ELEKTRYCZNY

Wentylatory są zwykle dostarczane ze standardowym indukcyjnymi klatkowymi silnikami elektrycznymi. Są również dostępne z silnikami elektrycznymi innego typu, jak silniki przeciwwybuchowe lub 2-biegowe

AKCESORIA

- Amortyzatory drgań
- Elastyczne połączenia wlot/wylot
- Cokół silnika (wymagany w przypadku ciężkich silników)
- Wlot kołnierzowy
- Przeciwołnierz wlot/wylot
- Kratka ochronna wlot/wylot
- Rama fundamentowa (tylko w przypadku wykonania z napędem pasowym)
- Właz inspekcyjny
- Wykonanie przeciwwybuchowe z osłoną przeciwwiskrową

KONSTRUKCJE SPECJALNE

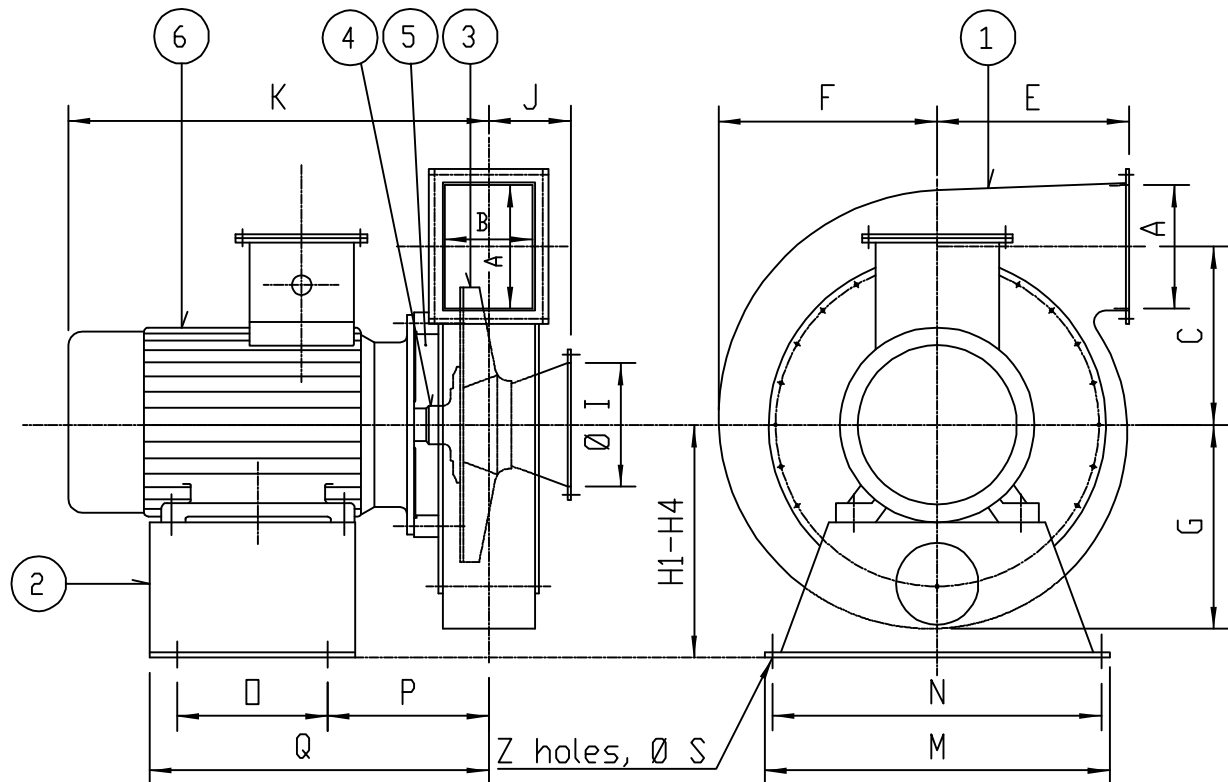
- Wykonanie z napędem pasowym



HIGH PRESSURE CENTR. FAN

DIMENSION DRAWING

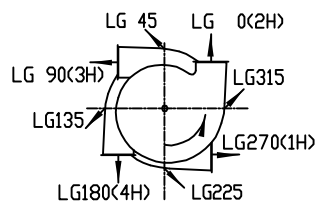
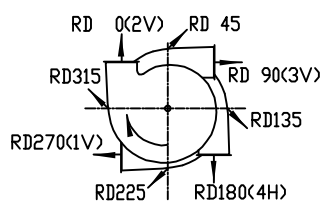
HSV - B1



FAN SIZE	A= Ø I	B	C	E	F	G	H1	H2	H3	H4	J	K	M	N	O	P	Q	Z	S	weight ex cl motor [kg]
150	150	120	280	300	326	297	400	350	350		120		540	500						15
180	180	140	300	325	365	330	450	400	350		120		580	500						21
210	210	170	350	350	400	365	500	450	400		130		610	560						26
250	250	200	375	375	440	400	550	450	450		150		700	650						72
300	300	240	450	450	530	480	675	550	500		170		800	750						97
350	350	240	500	500	605	540	750	650	550		210		800	750						
400	400	300	550	550	660	660	800	700	650		250		1000	900						
450	450	350	625	600	740	680	900	800	700		235		1100	1000						
500	500	400	700	700	830	740	1030	900	800		270		1200	1100						
600	600	460	750	750	900	820	1150	950	850		320		1300	1200						
700	700	640	880	880	1065	950	1300	1150	1000		350		1500	1420						

Mounting Positions in accordance to "Eurovent"

Configurations to be seen from shaft side.



- ① FAN HOUSING.
Matl.:
- ② MOTOR PEDESTAL.
Matl.:
- ③ FAN IMPELLER.
Matl.: Salt and amoniaresistive aluminium alloy.
- ④ SHAFT SEAL OR GASTIGHT ASSEMBLY.
If Applicable
- ⑤ AIR GAP BETWEEN MOTOR AND SEAL.
If Applicable
- ⑥ EL.MOTOR: Model: V: Hz:
kW: Rpm:

Date: 11.10.96

4-1154-m

Drawn: M.Berge



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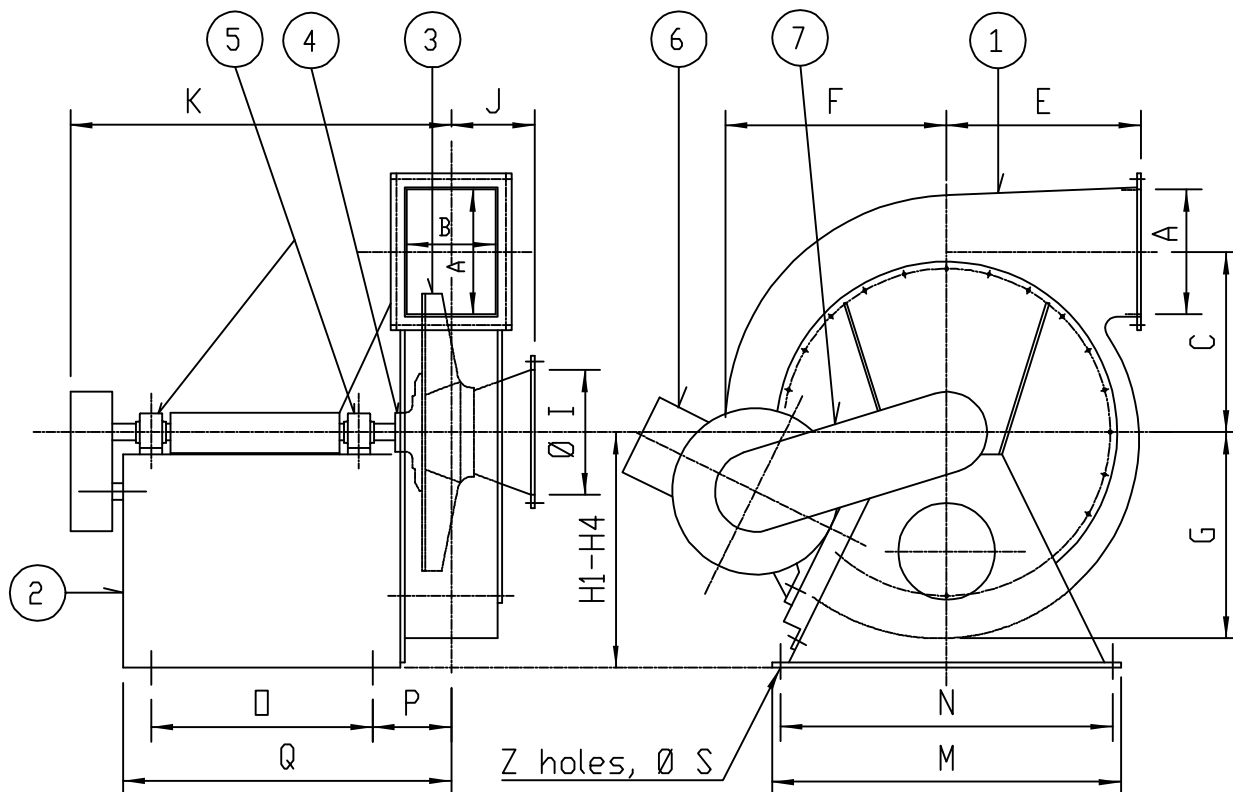
HSV - B1



HIGH PRESSURE CENTR. FAN

Dimensional Sketch

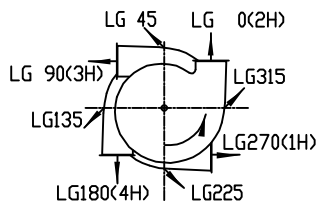
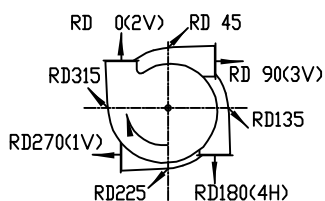
HSV - B3



SIZE NO	A= Ø I	B	C	E	F	G	H1	H2	H3	H4	J	K	M	N	Ø	P	Q	Z	S
150	150	120	280	300	326	297	400	350	350		120		540	500					
180	180	140	300	325	365	330	450	400	350		120		580	500					
210	210	170	350	350	400	365	500	450	400		130		610	560					
250	250	200	375	375	440	400	550	450	450		150		700	650					
300	300	240	450	450	530	480	675	550	500		170	690	800	750	330	150	520	4	14
350	350	240	500	500	605	540	750	650	550		210		800	750					
400	400	300	550	550	660	660	800	700	650		250		1000	900					
450	450	350	625	600	740	680	900	800	700		235		1100	1000					
500	500	400	700	700	830	740	1030	900	800		270		1200	1100					

Mounting Positions in accordance to "Eurovent"

Configurations to be seen against motor (Drive end)



- ① FAN HOUSING.
Matl.:
- ② MOTOR and BEARING PEDESTAL.
Matl.:
- ③ FAN IMPELLER.
Matl.: Salt and amoniaresistive aluminium alloy.
- ④ SHAFT SEAL OR GASTIGHT ASSEMBLY.
If Applicable
- ⑤ 2 OFF BALLBEARINGS, type
- ⑥ EL.MOTOR: Model:
kW: Rpm: V: Hz:
- ⑦ V-BELT TRANSMISSION, c/w Belt Guard

Date: 09/02-95

Revision: 01 4-1155

Drawn: R.Berge



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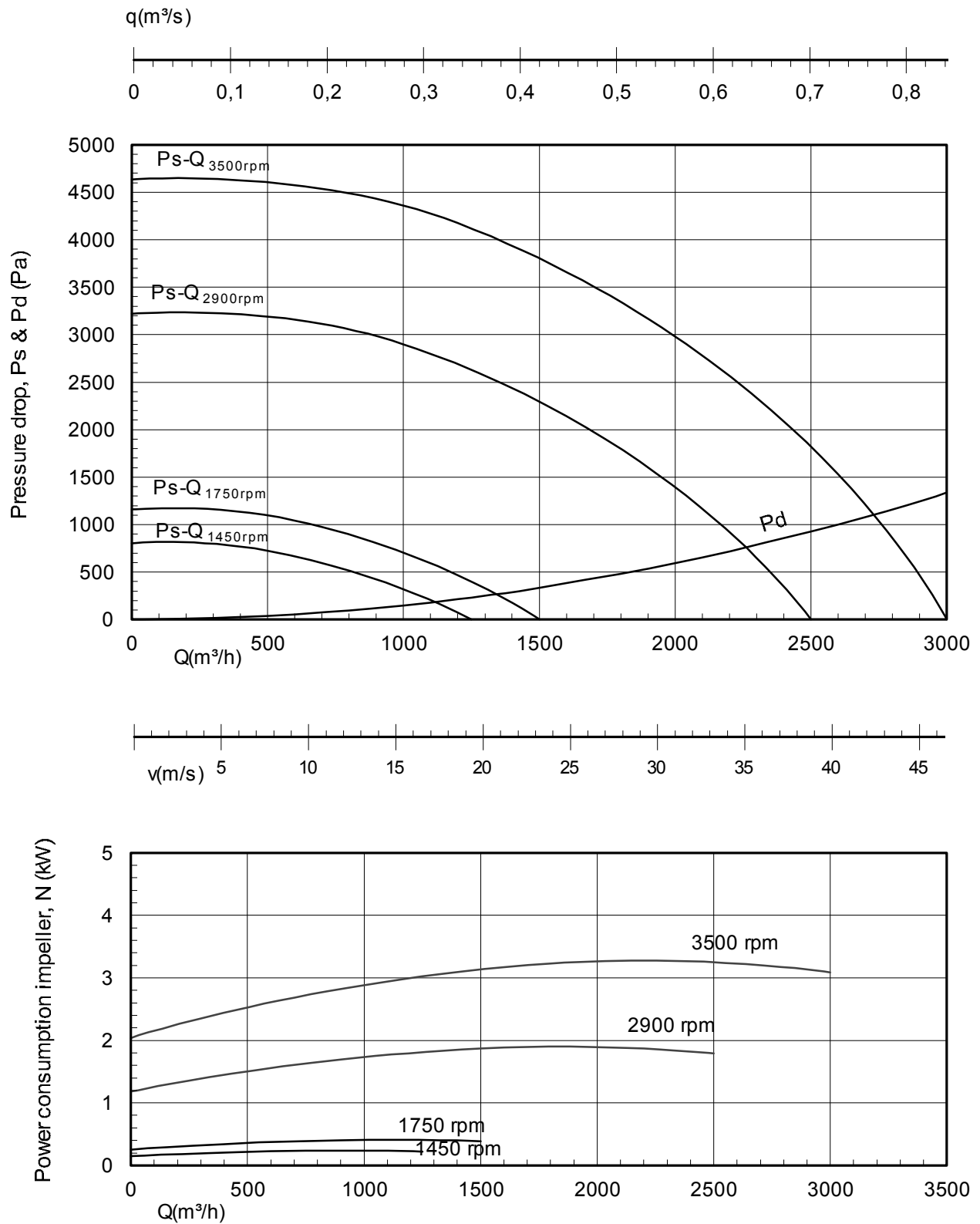
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HSV - B3



HIGH PRESSURE CENTR. FAN PERFORMANCE DATA

HSV 150 B
Imp: B9x450x25



Hsv01-01



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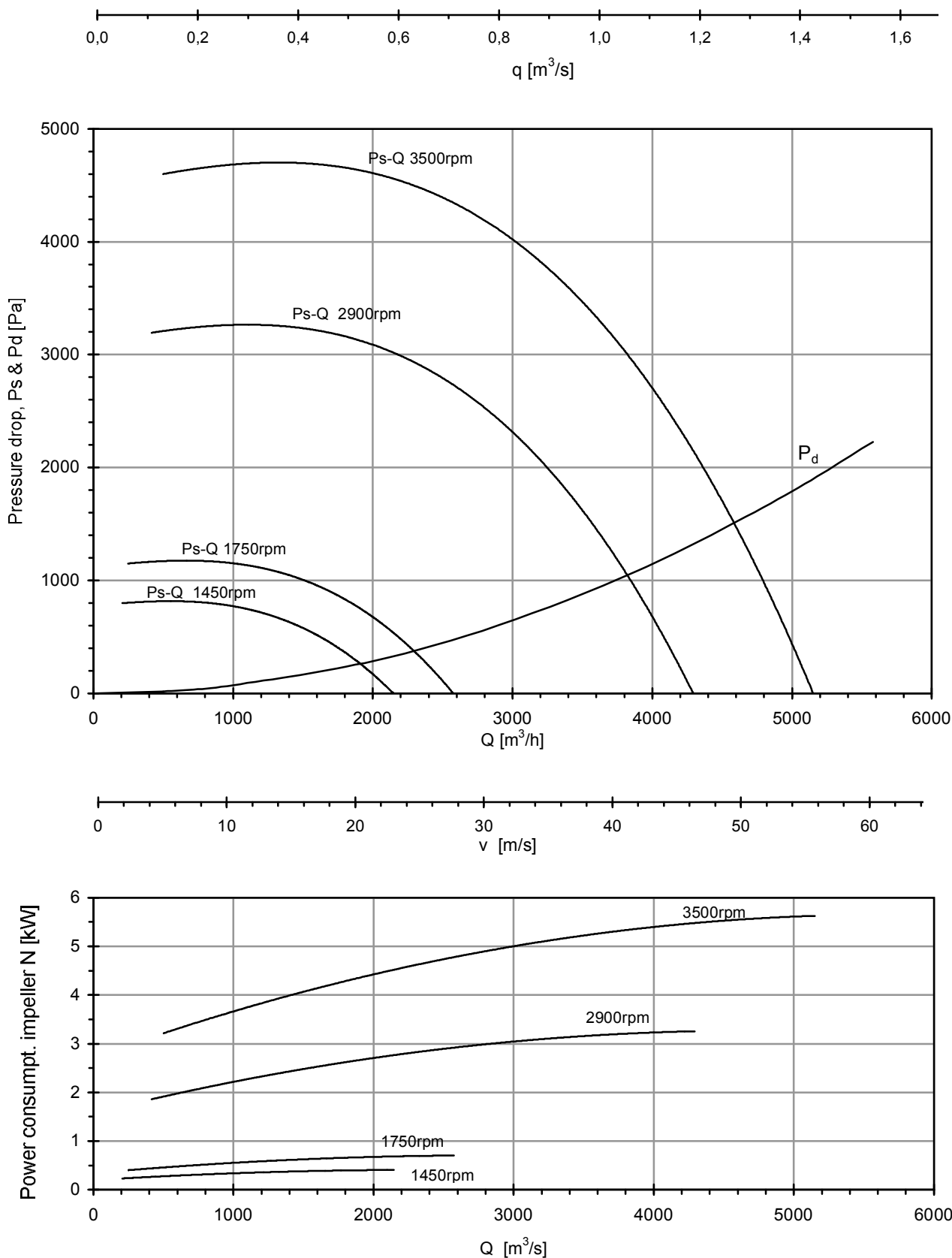
HSV 150 B



NYBORG HIGH PRESS.CENTR. FAN PERFORMANCE DATA

HSV 180 B

Imp:B9x450x50



hsv01_xls-7



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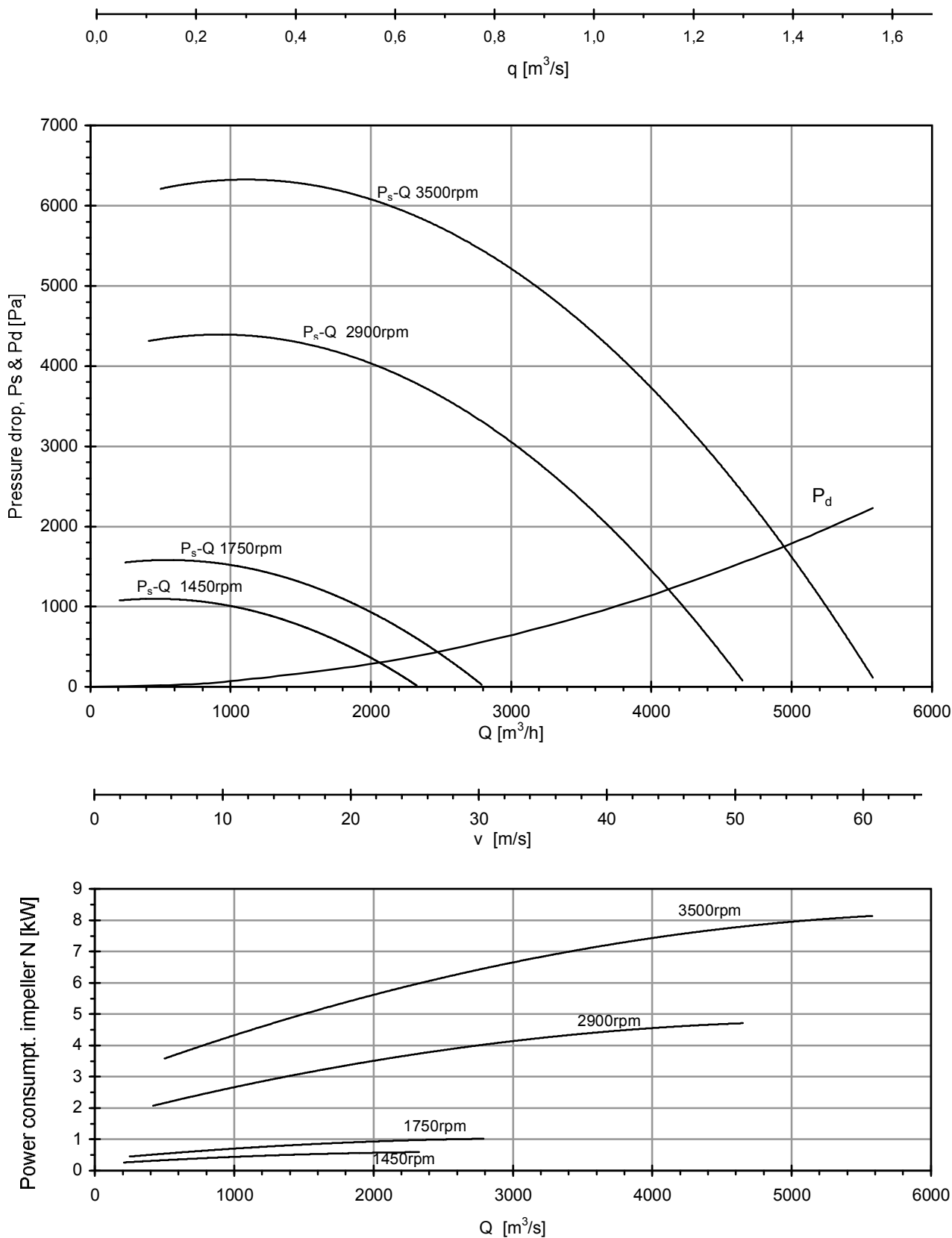
HSV 180 B



NYBORG HIGH PRESS.CENTR. FAN PERFORMANCE DATA

HSV 180 B

Imp:B9x500x50



hsv01_xls-6



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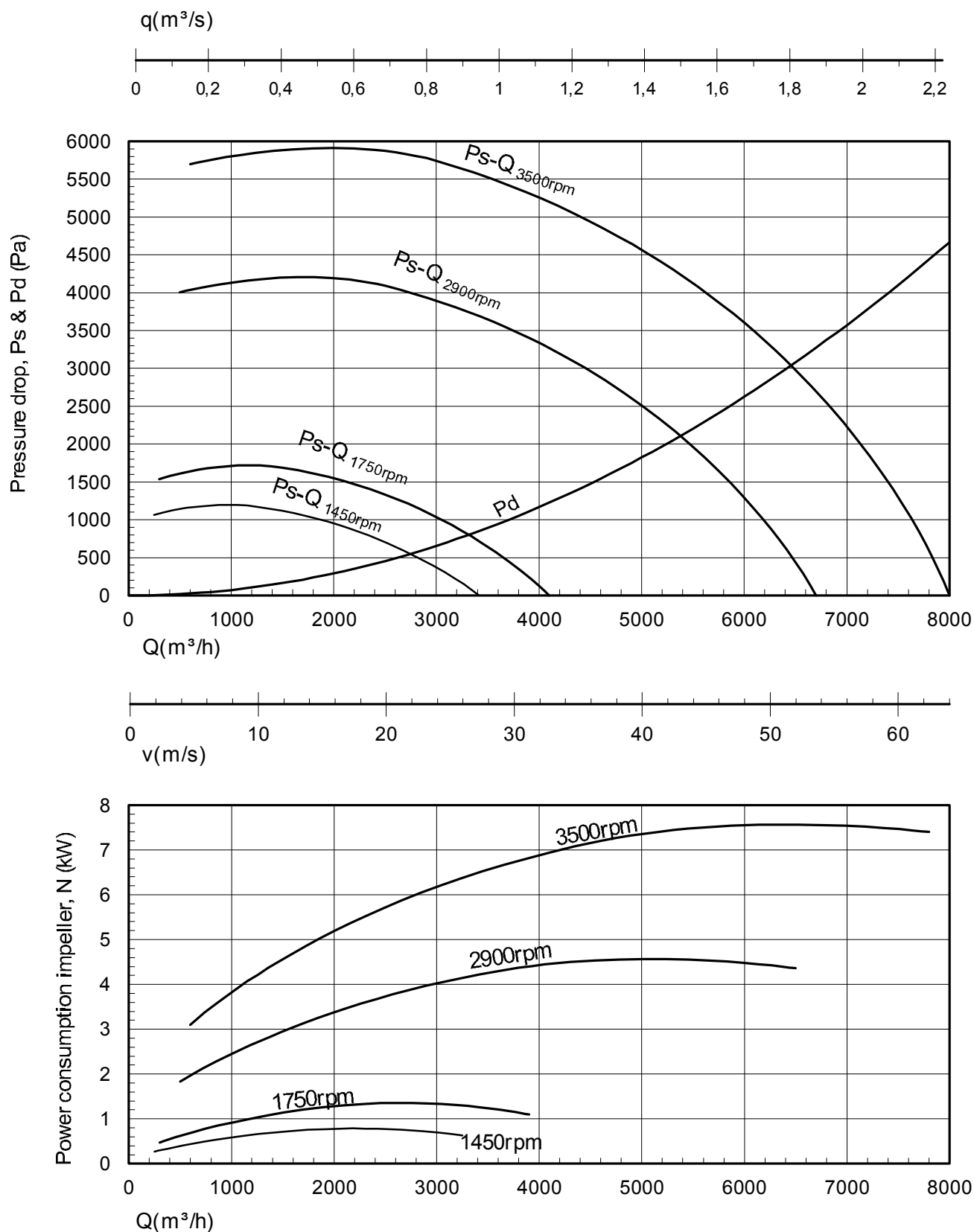
HSV 180 B



HIGH PRESSURE CENTR. FAN PERFORMANCE DATA

HSV 210 B

Imp: B12x500x50



Hsv01-04



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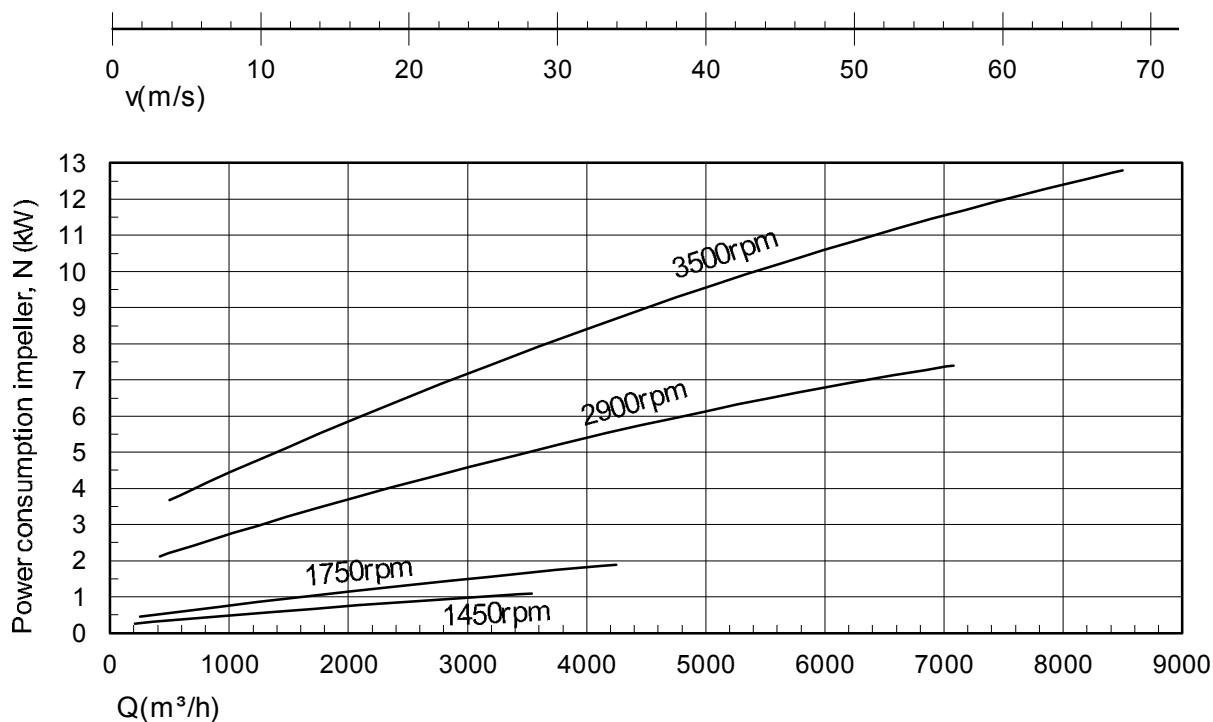
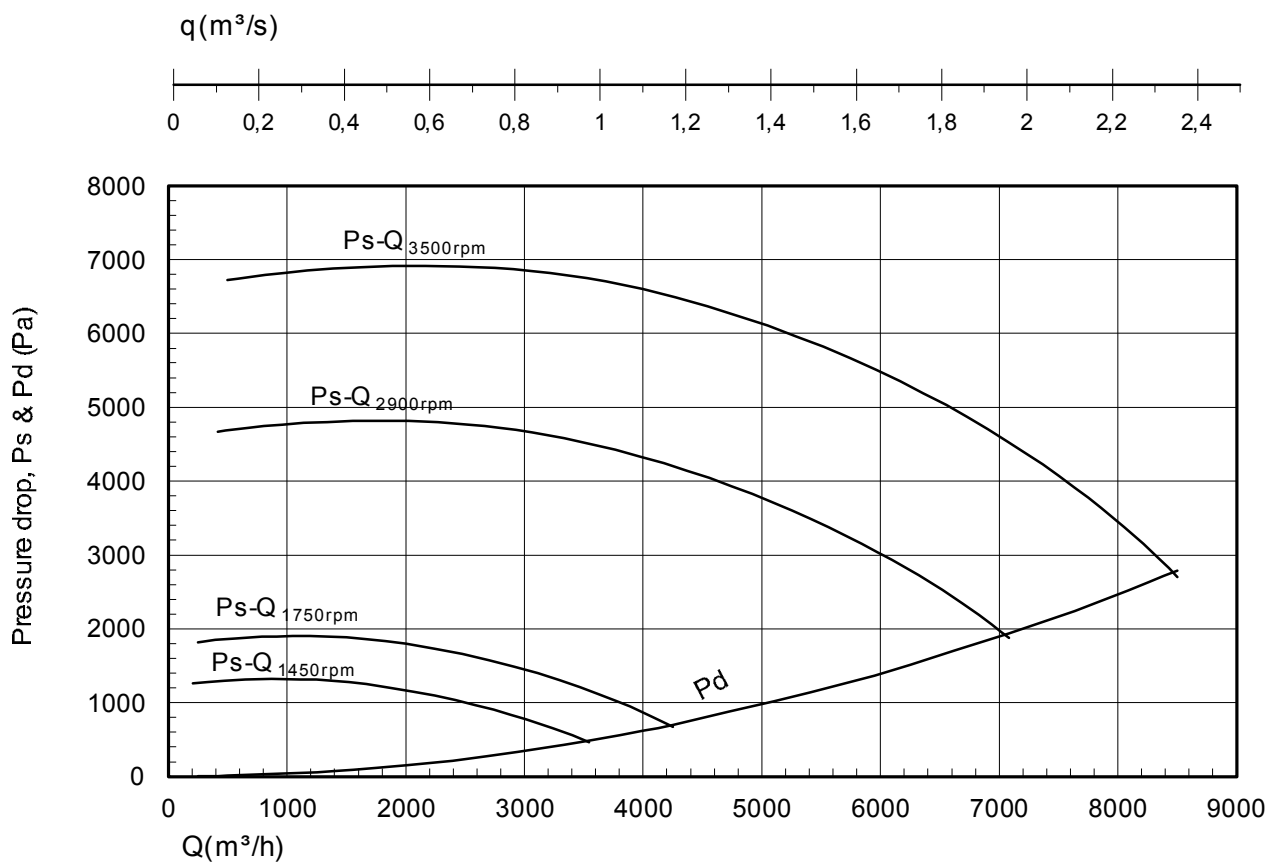
HSV 210 B



HIGH PRESSURE CENTR. FAN PERFORMANCE DATA

HSV 210 B

Imp: B12x550x50



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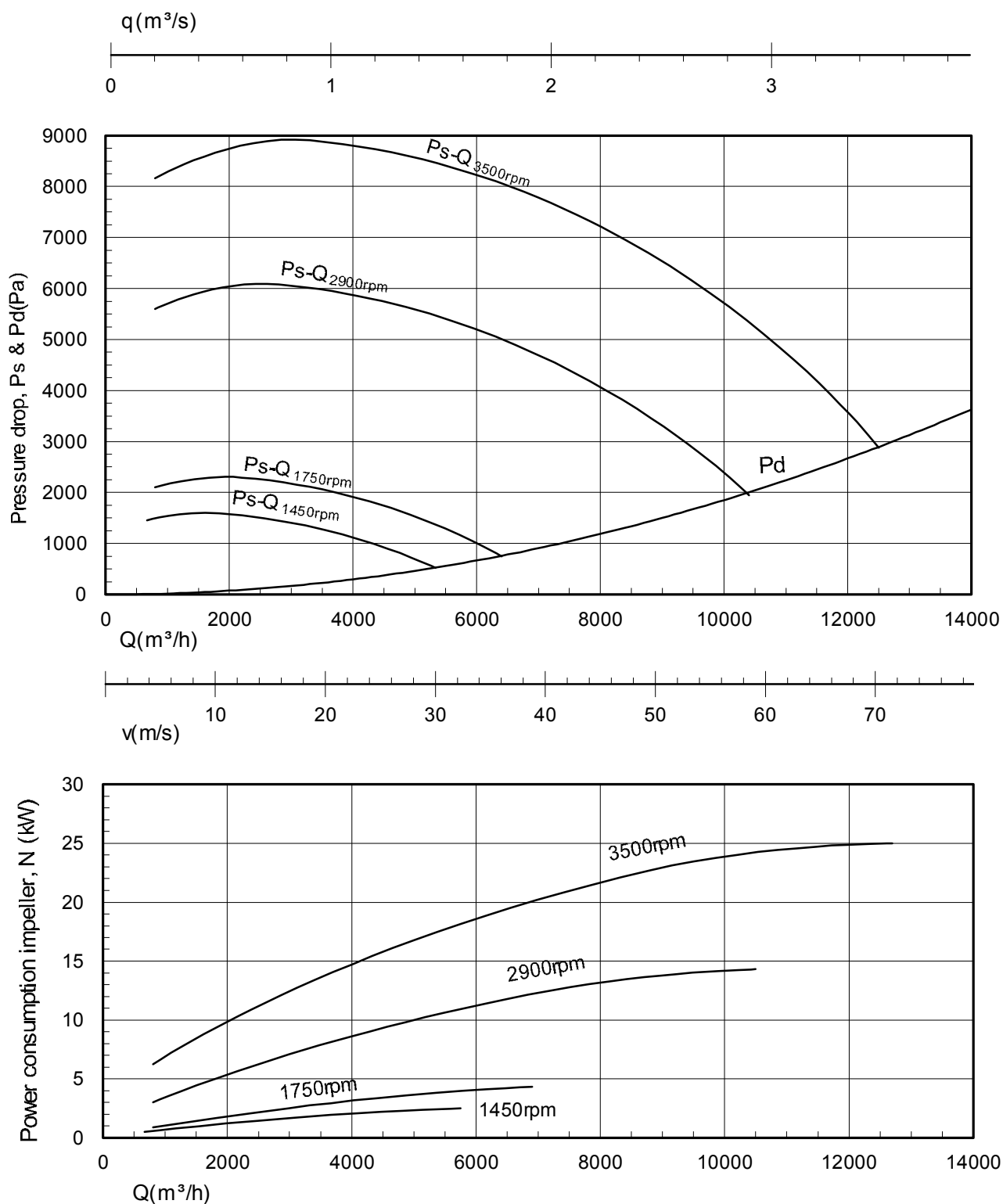
HSV 210 B



HIGH PRESSURE CENTR. FAN PERFORMANCE DATA

HSV 250 B

Imp: B12x620x70



Hsv01-06



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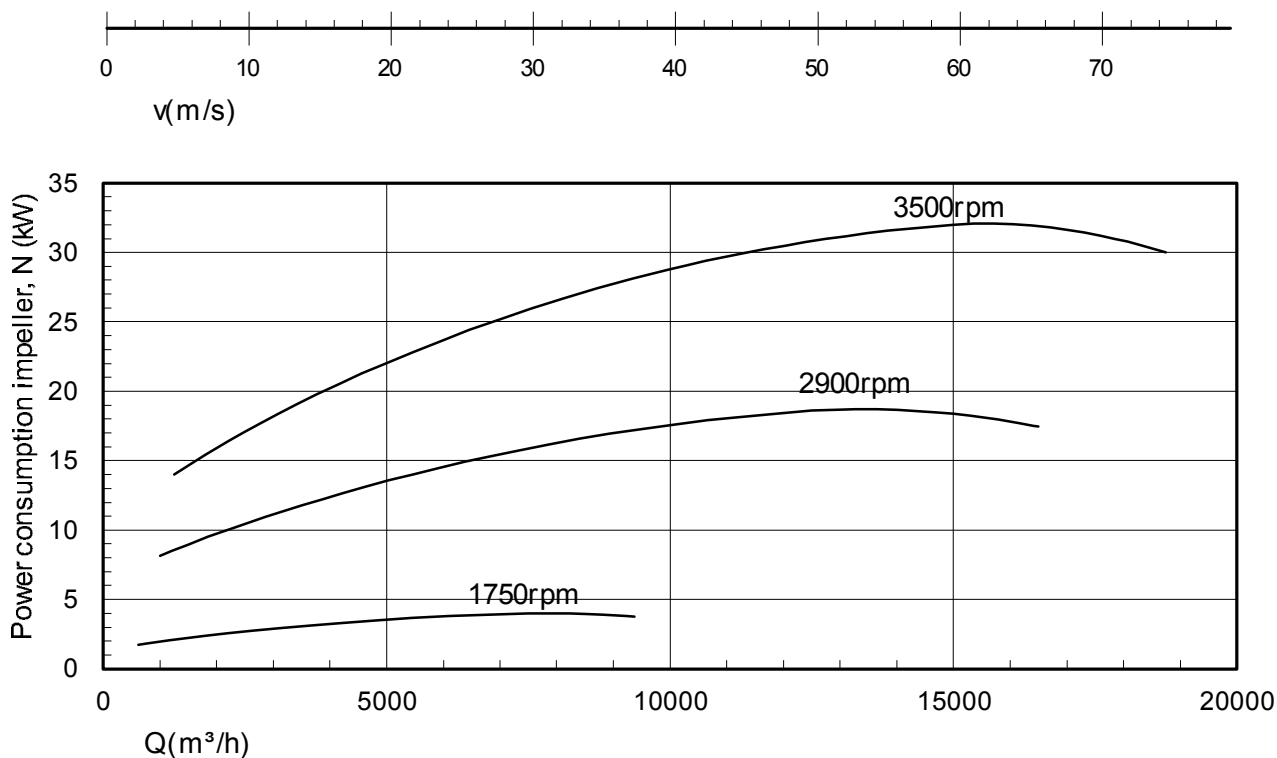
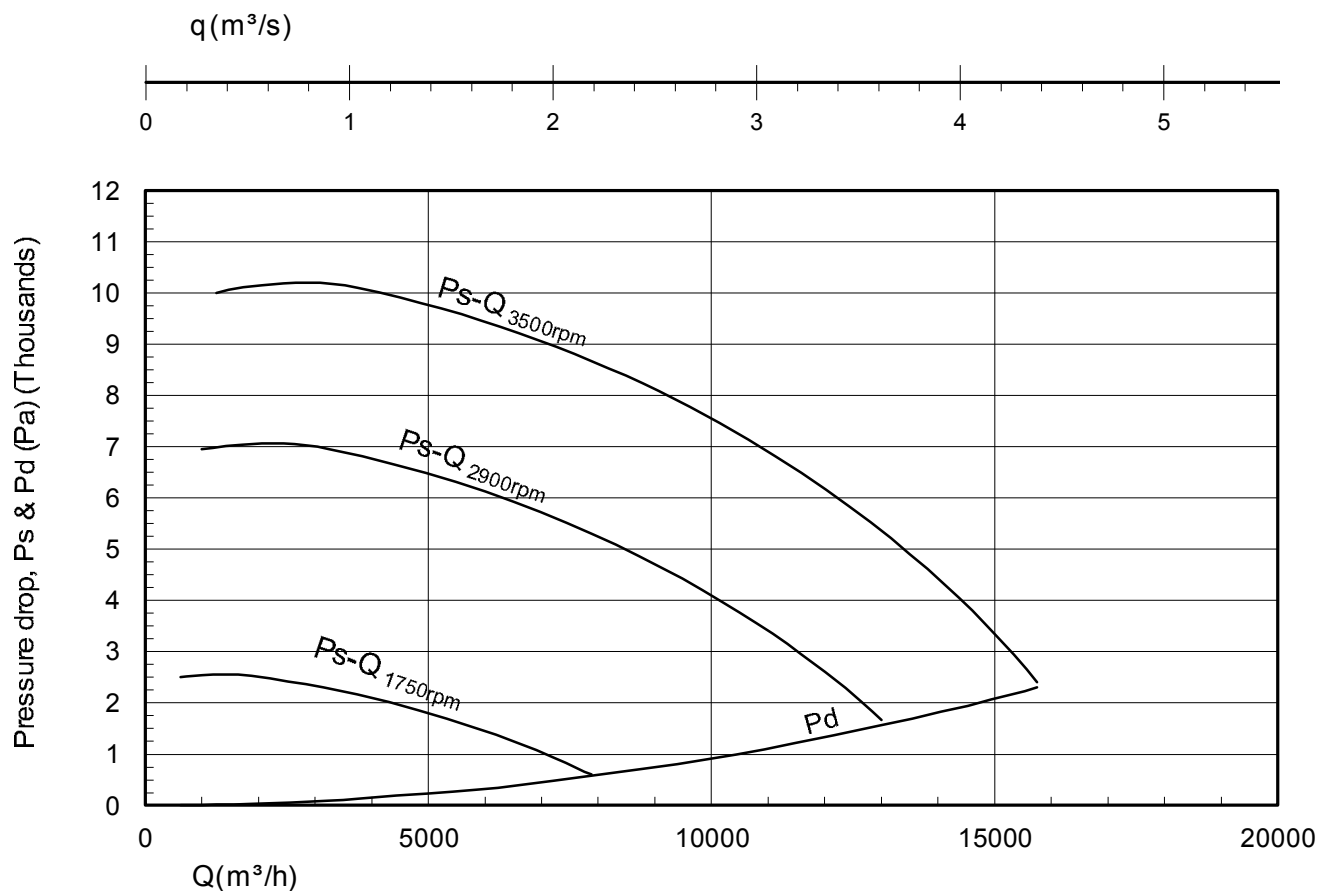
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HSV 250 B



HIGH PRESSURE CENTR. FAN PERFORMANCE DATA

HSV 300 B
Imp: B9x650x75



hsv01-07



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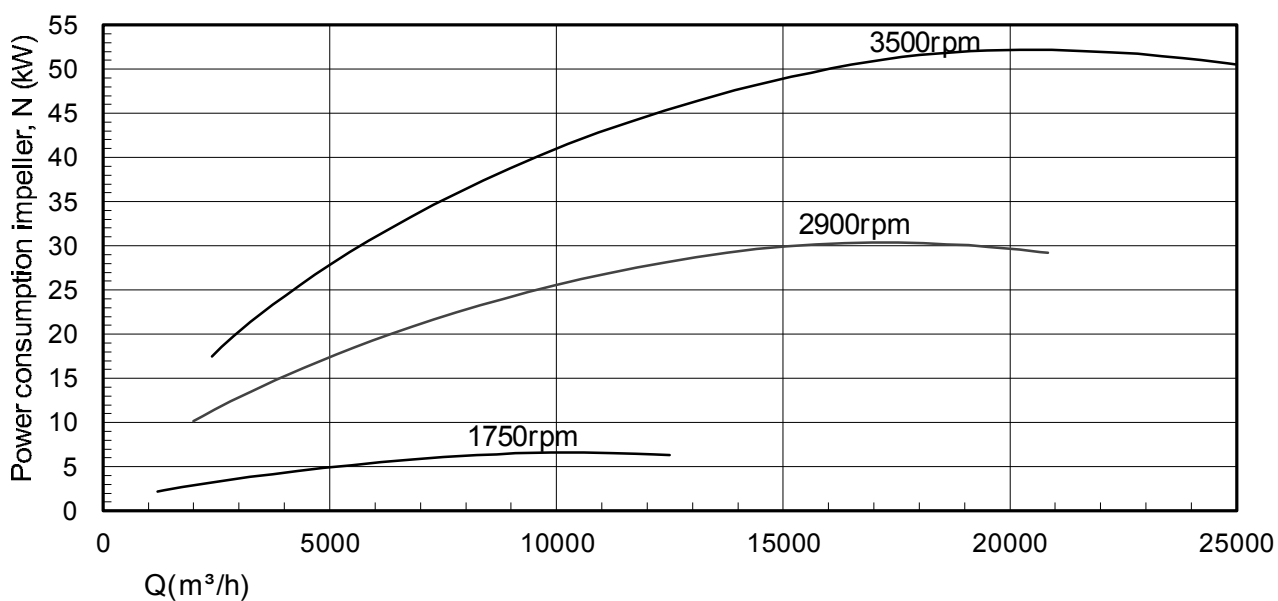
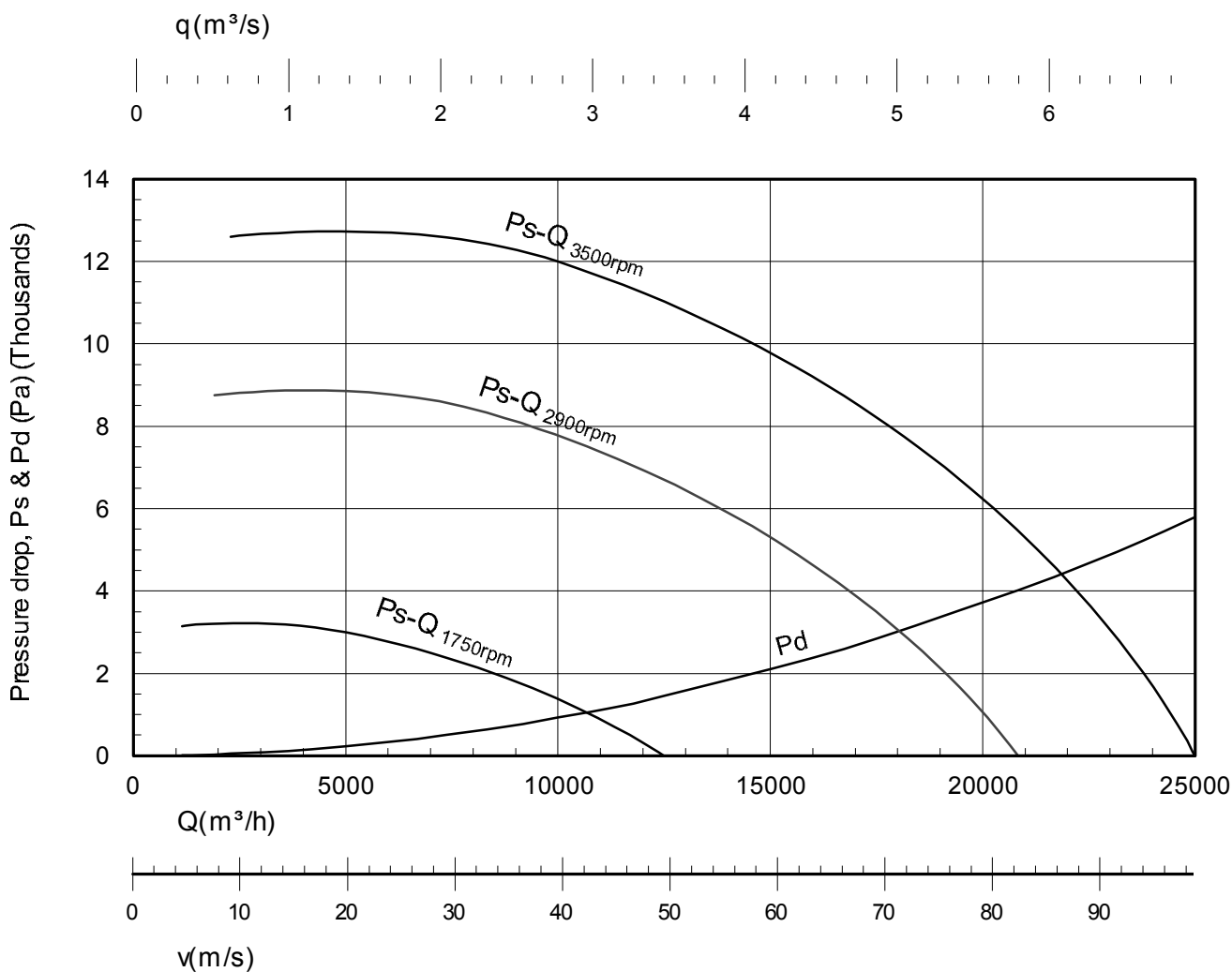
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HSV 300 B



HIGH PRESSURE CENTR. FAN PERFORMANCE DATA

HSV 300 B
Imp: B9x720x75



Hsv01-17



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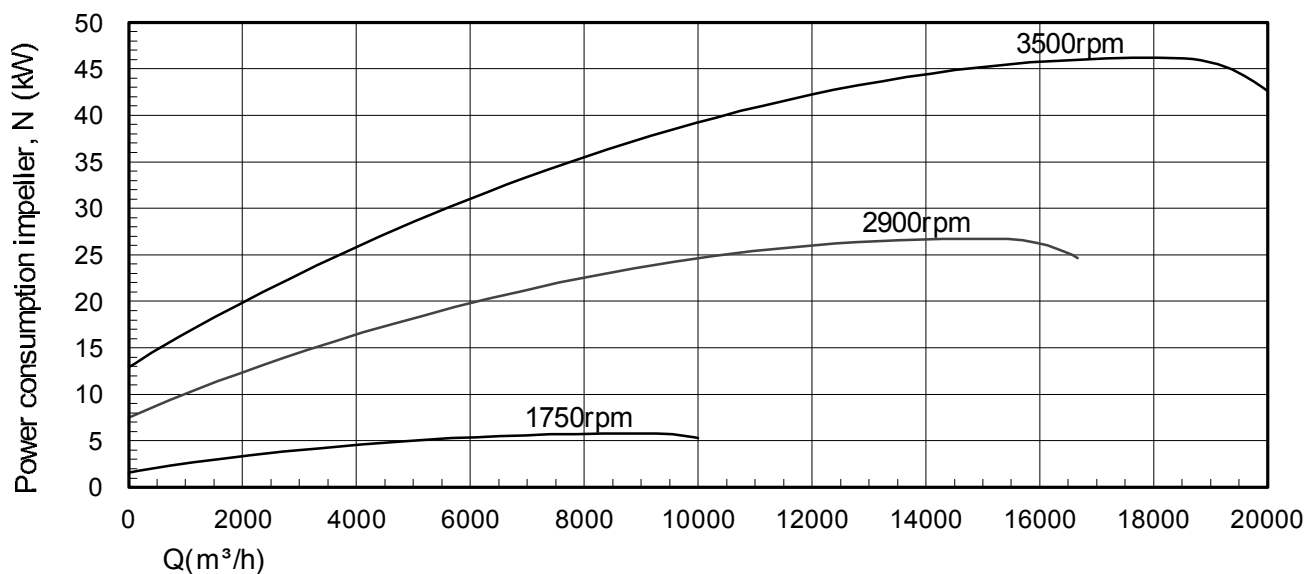
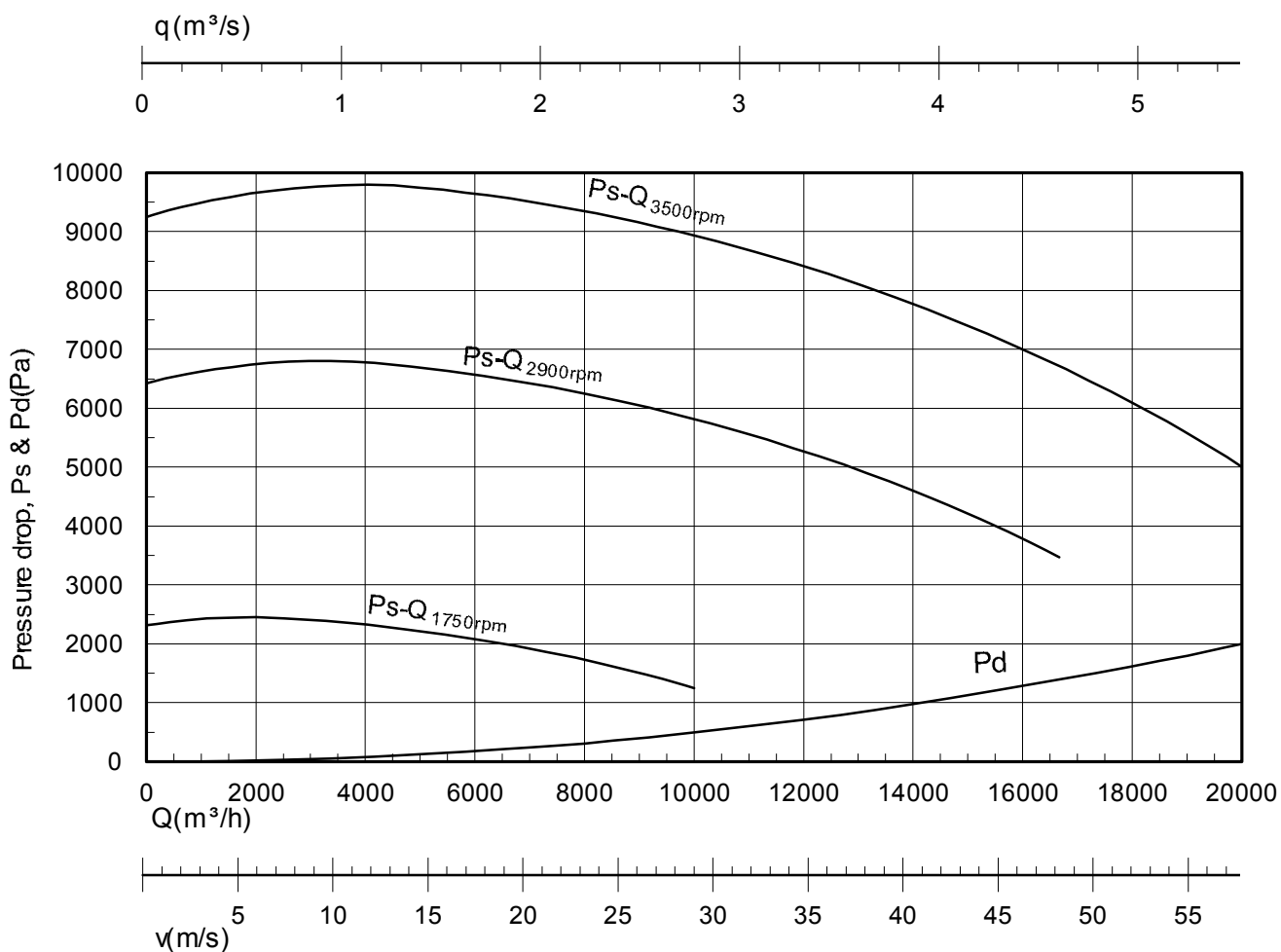
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HSV 300 B



HIGH PRESSURE CENTR. FAN PERFORMANCE DATA

HSV 350 B
Imp: B9x700x80



hsv01-09



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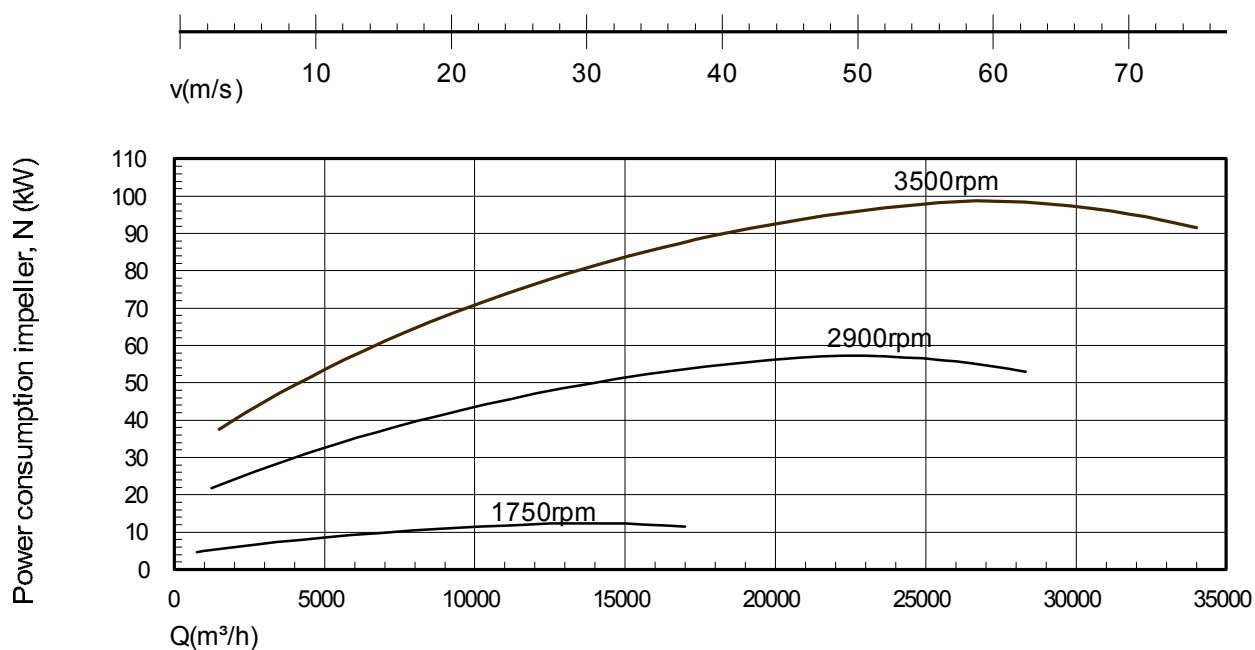
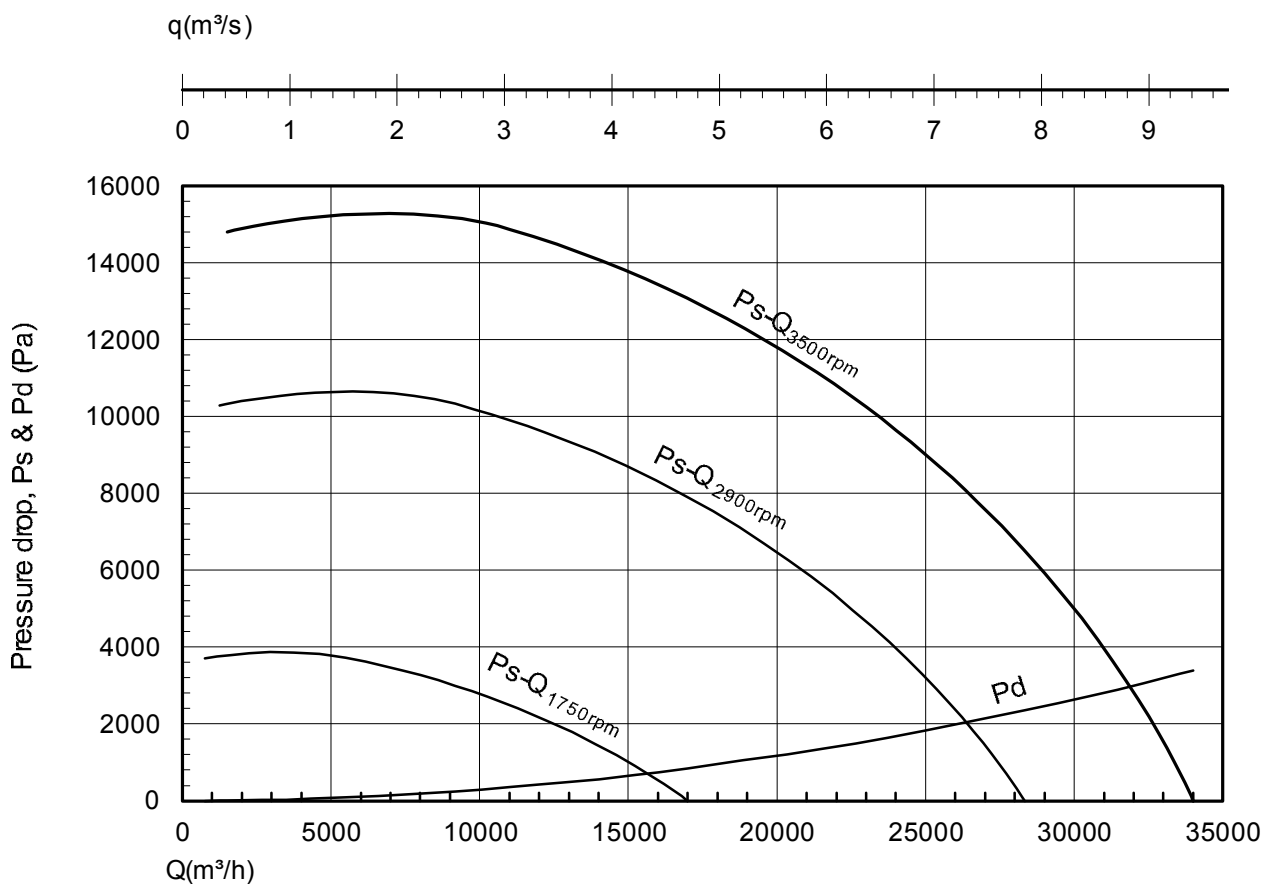
HSV 350 B



HIGH PRESSURE CENTR. FAN PERFORMANCE DATA

HSV 400 B

Imp: B9x800x95



HSV.PRS-11



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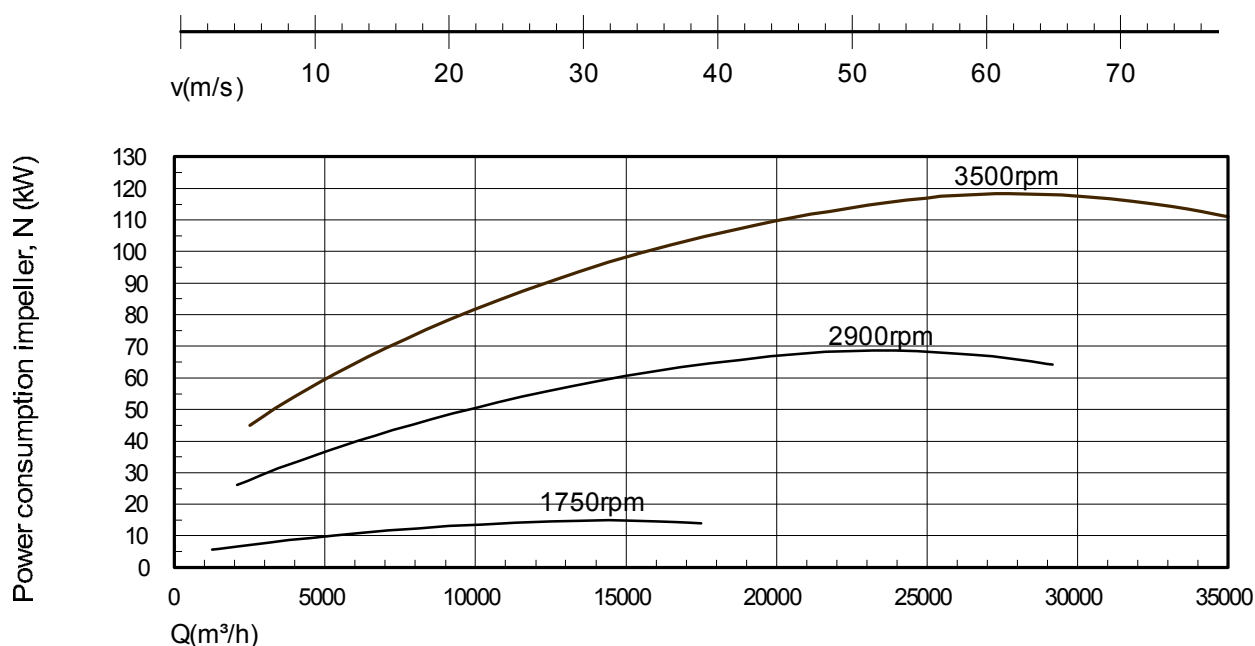
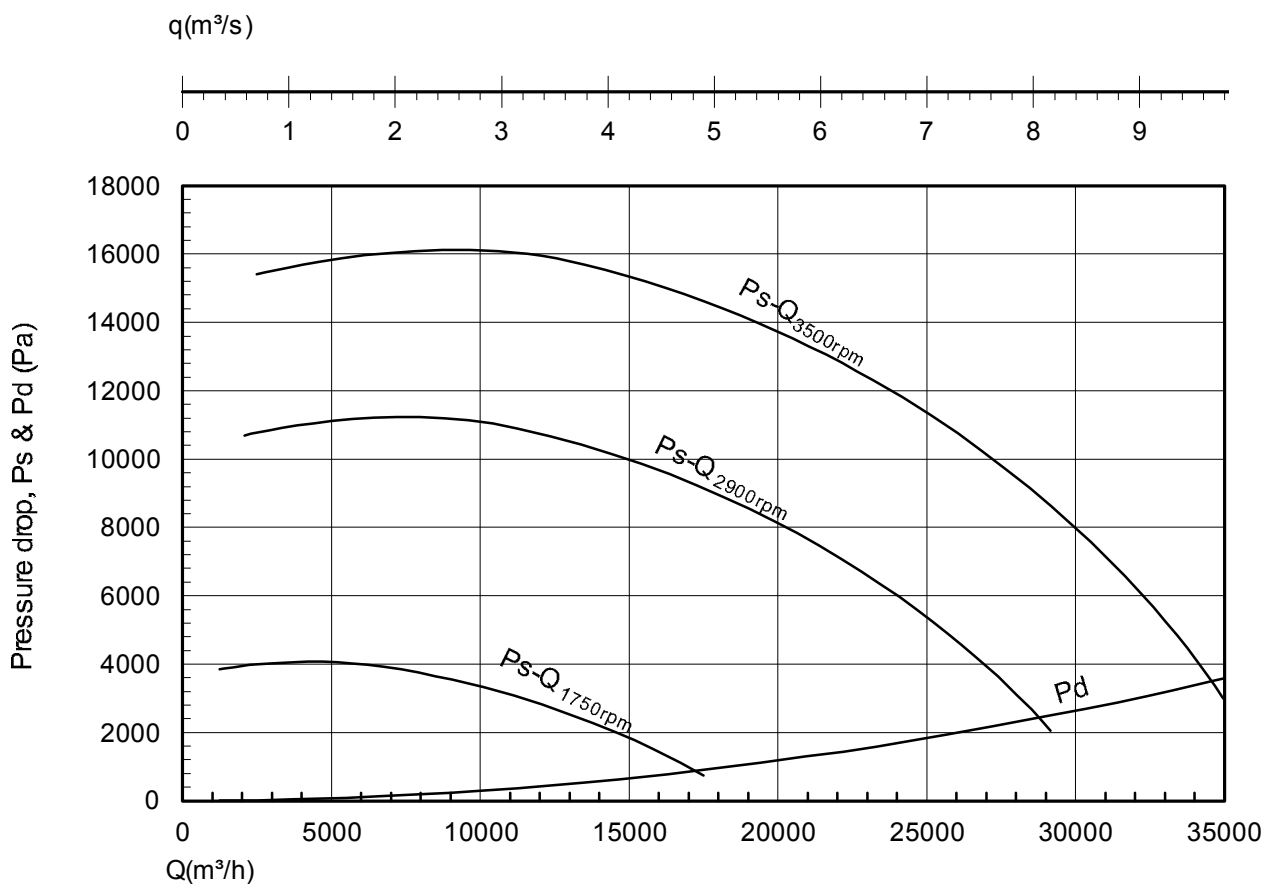
HSV 400 B



HIGH PRESSURE CENTR. FAN PERFORMANCE DATA

HSV 400 B

Imp: B9x830x95



hsv01-10



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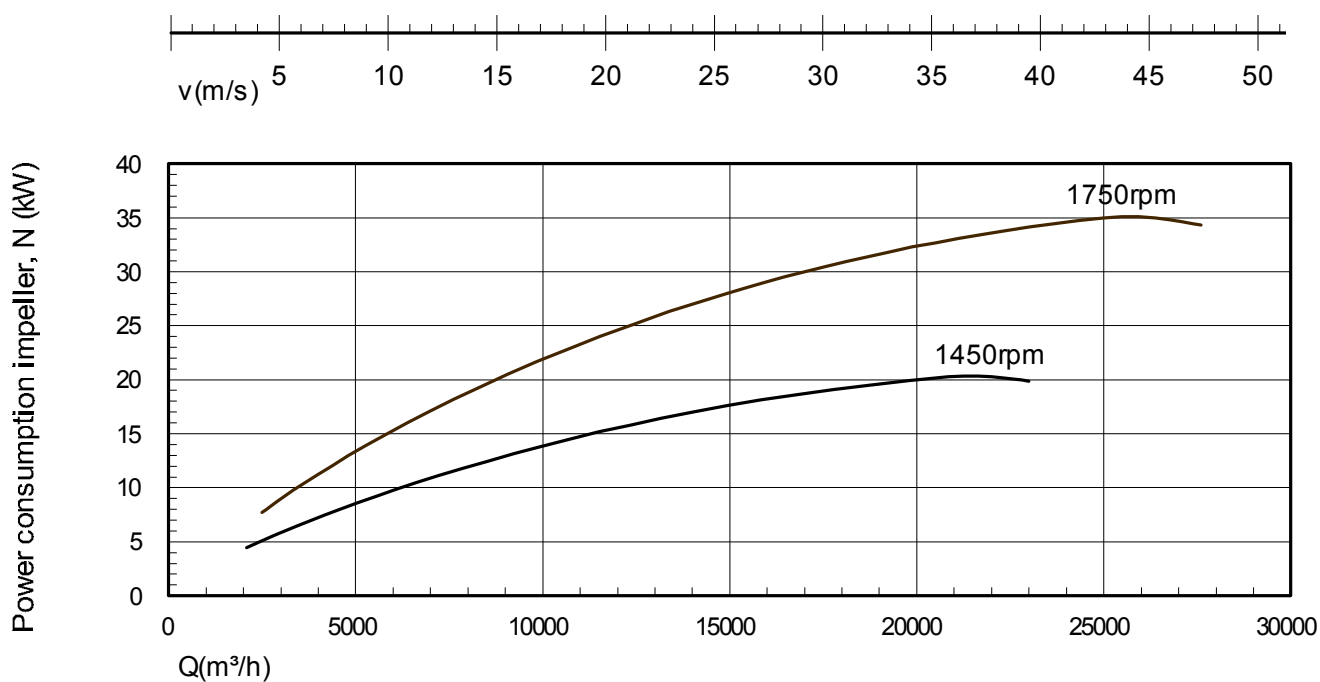
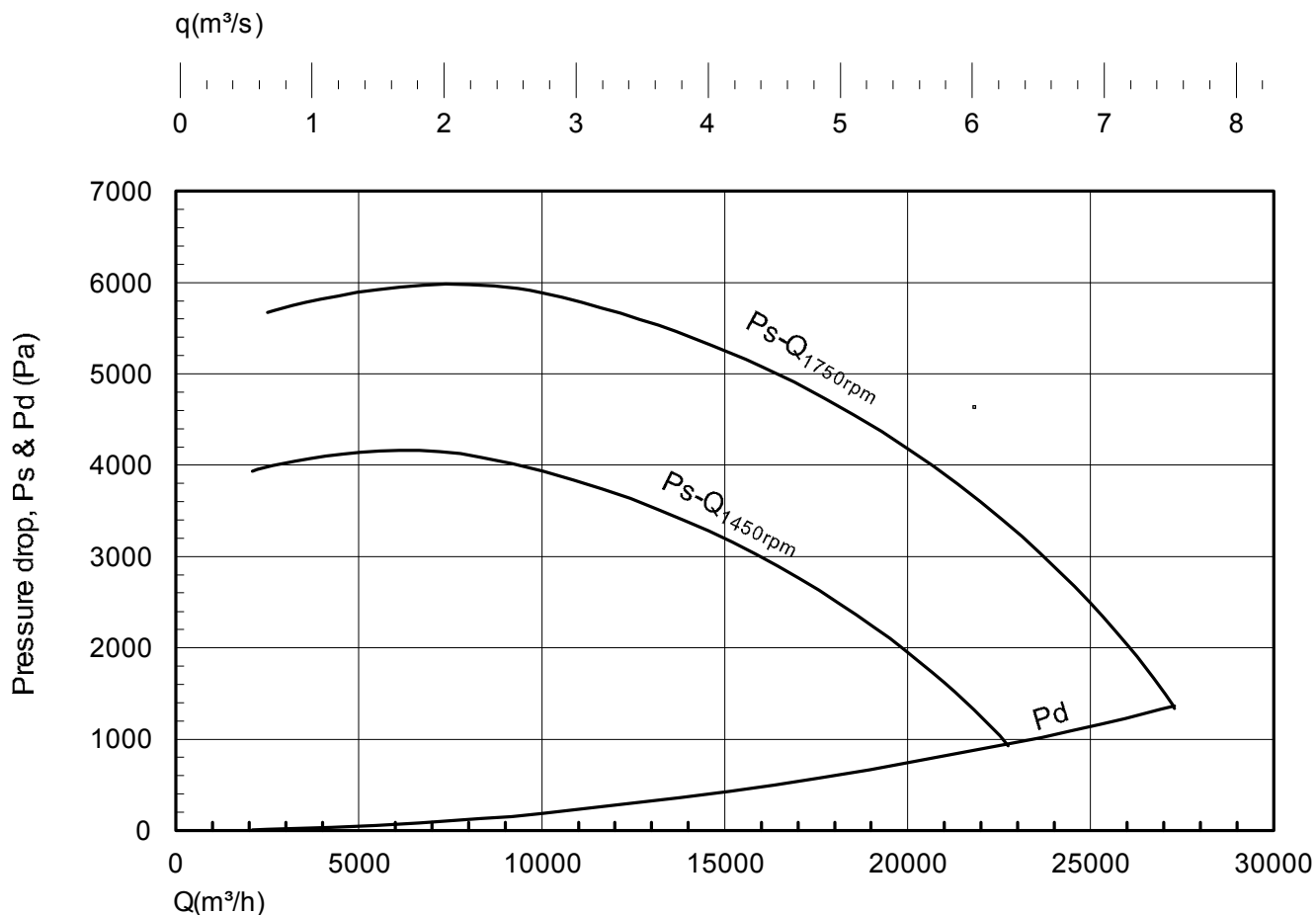
HSV 400 B



HIGH PRESSURE CENTR. FAN PERFORMANCE DATA

HSV 450 B

Imp: B12x1000x95



hsv01-12



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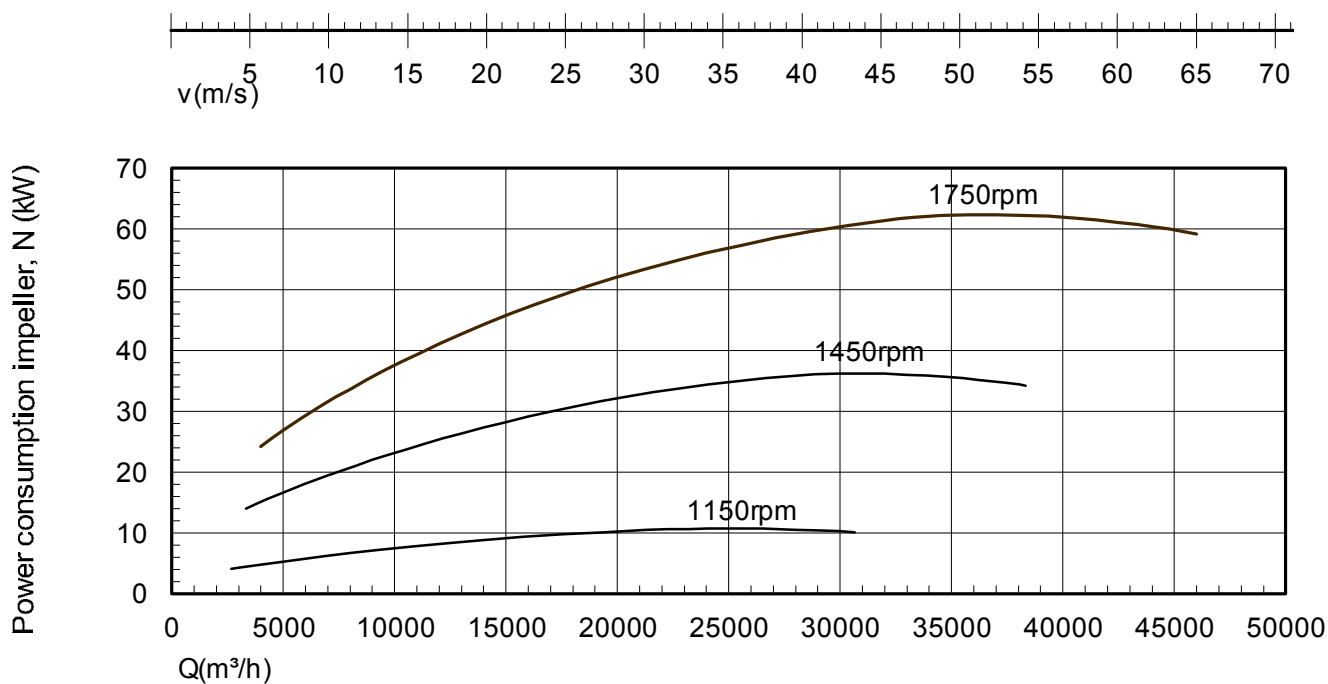
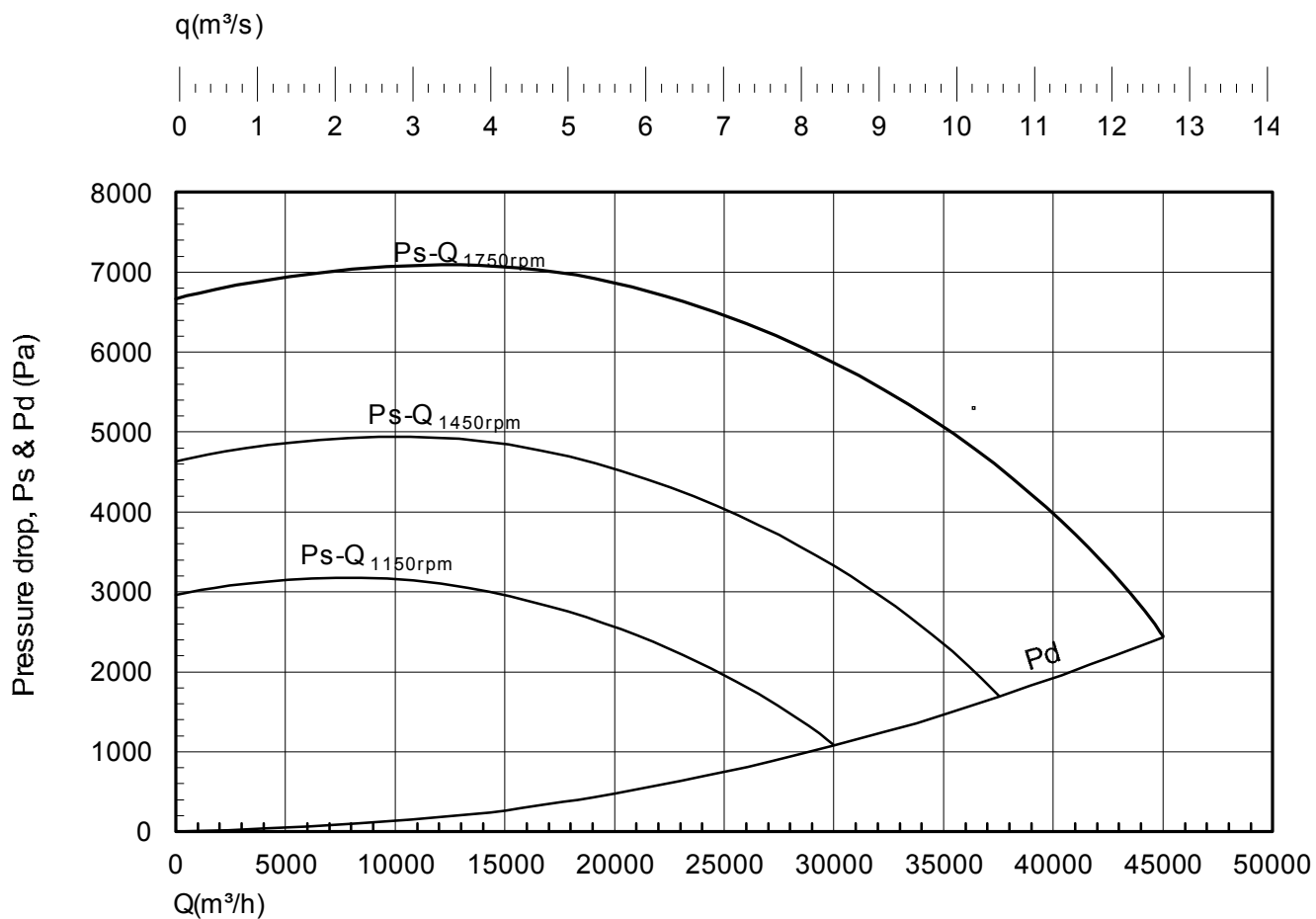
HSV 450 B



HIGH PRESSURE CENTR. FAN PERFORMANCE DATA

HSV 500 B

Imp: B12x1100x125



hsv01-13



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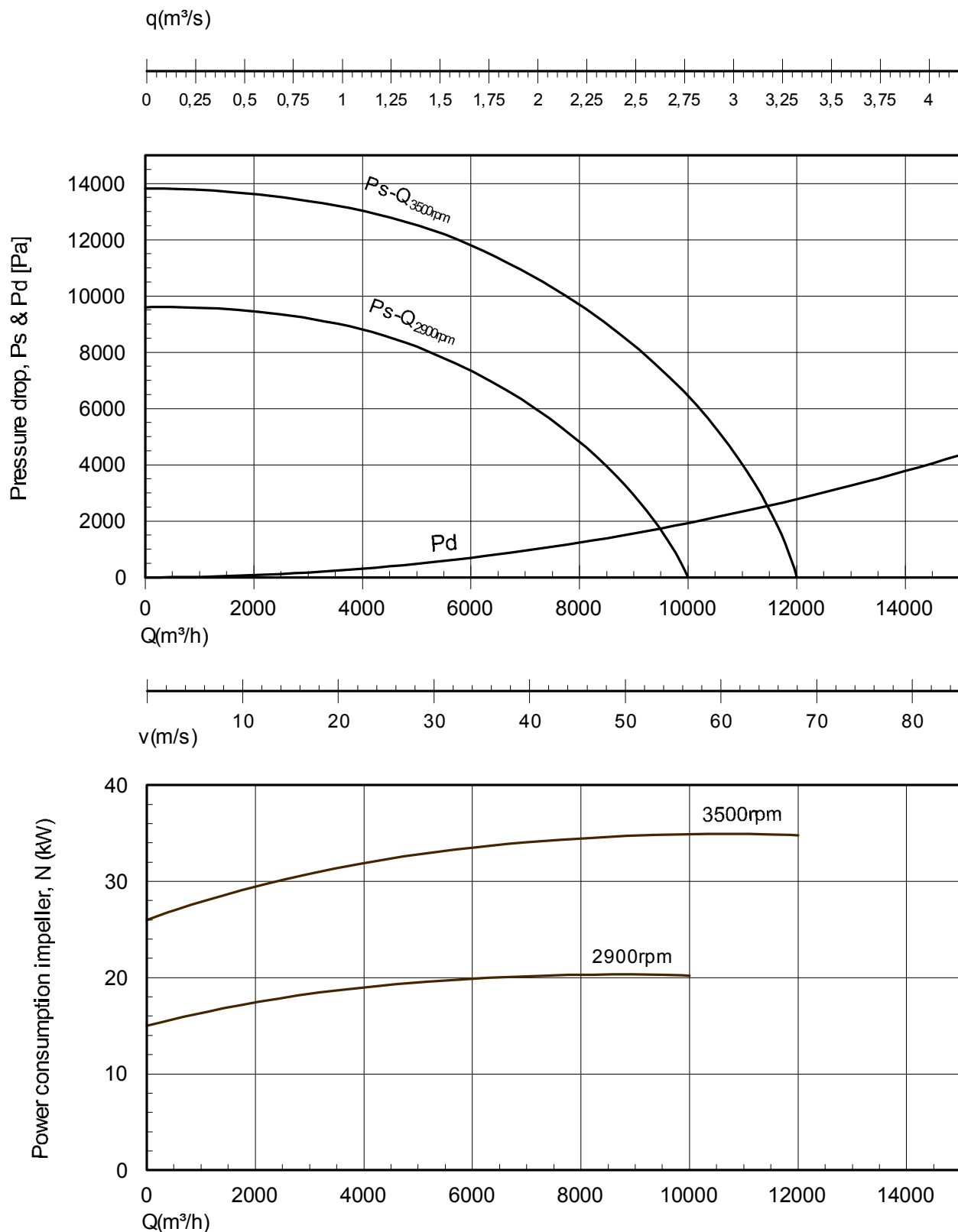
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HSV 500 B



HIGH PRESSURE CENTR. FAN PERFORMANCE DATA

HRV 250 B
Imp: B9x720x35

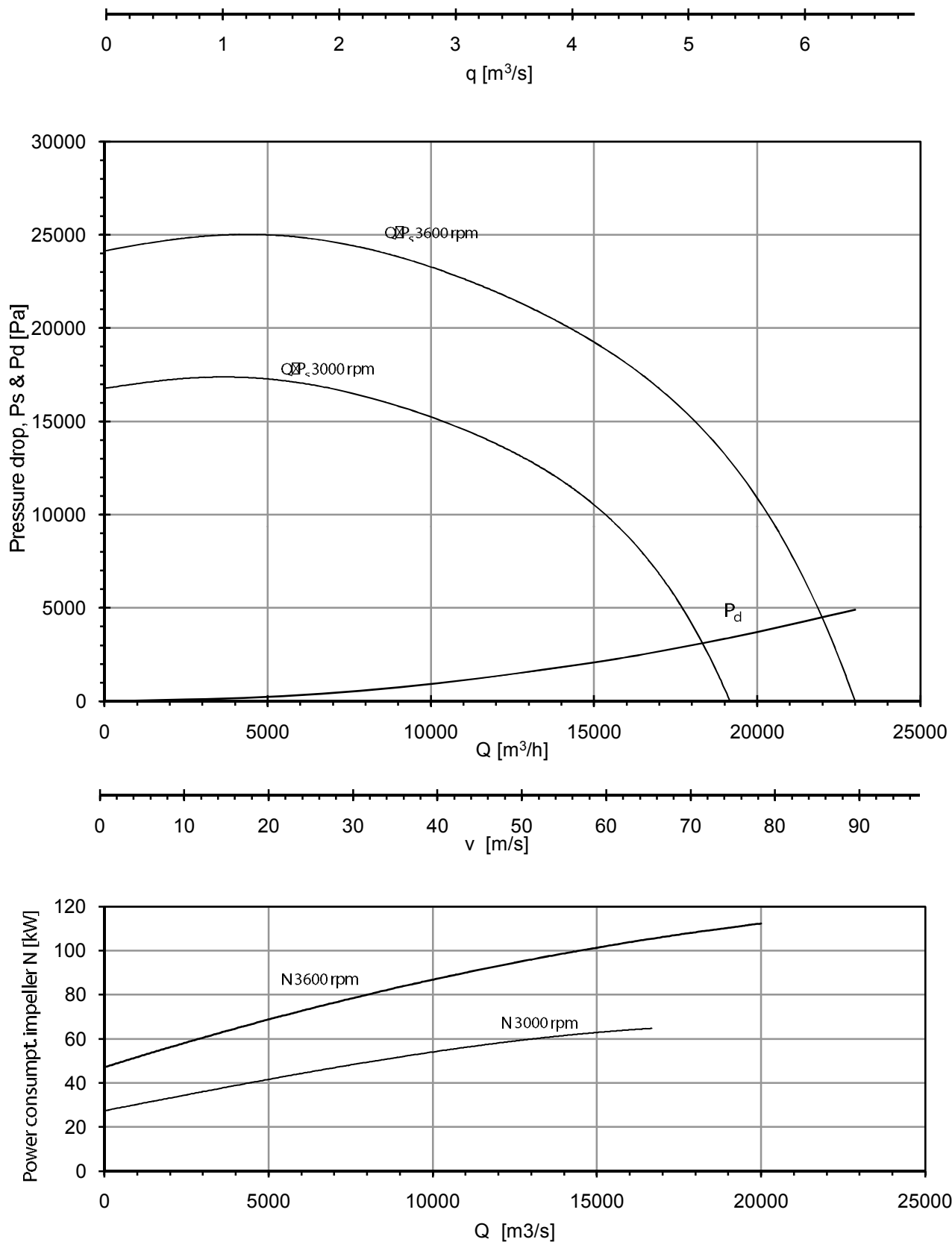




NYBORG HIGH PRESS. CENTR. FAN PERFORMANCE DATA

HRV 300 B

Imp: B9x975x35



hsv01_xls-10
18.02.2009-omk



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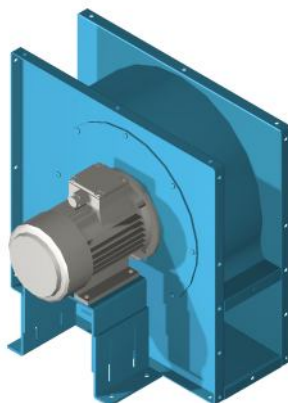
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HRV 300 B

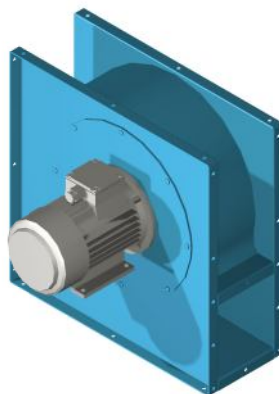


CENTRIFUGAL FANS

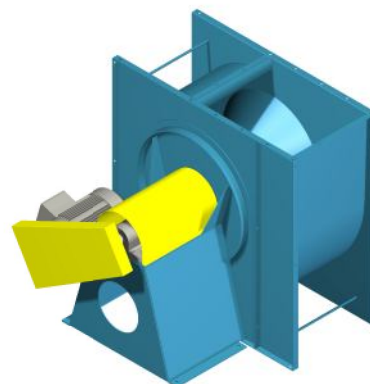
LSV - B1



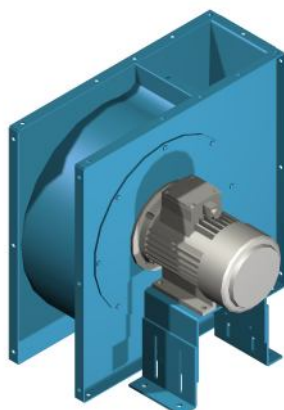
LSV - B1



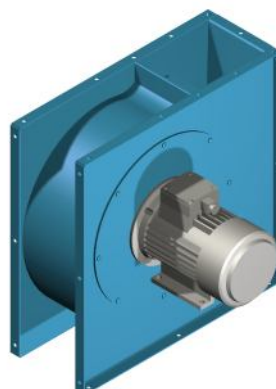
LSV - B3



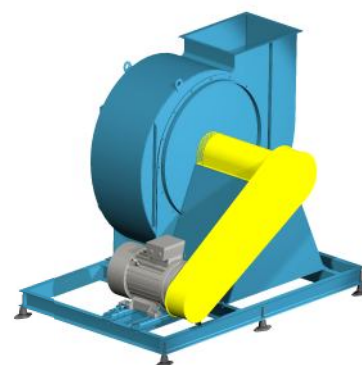
MSV - B1



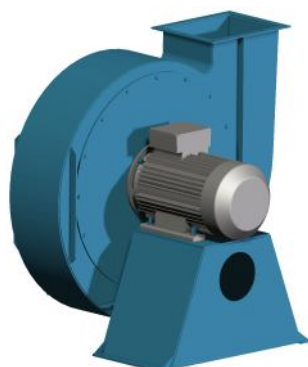
MSV - B1



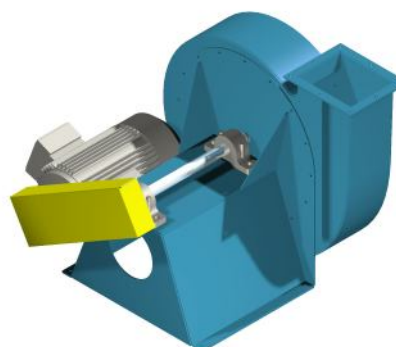
MSV - B2



HSV - B1



HSV - B3



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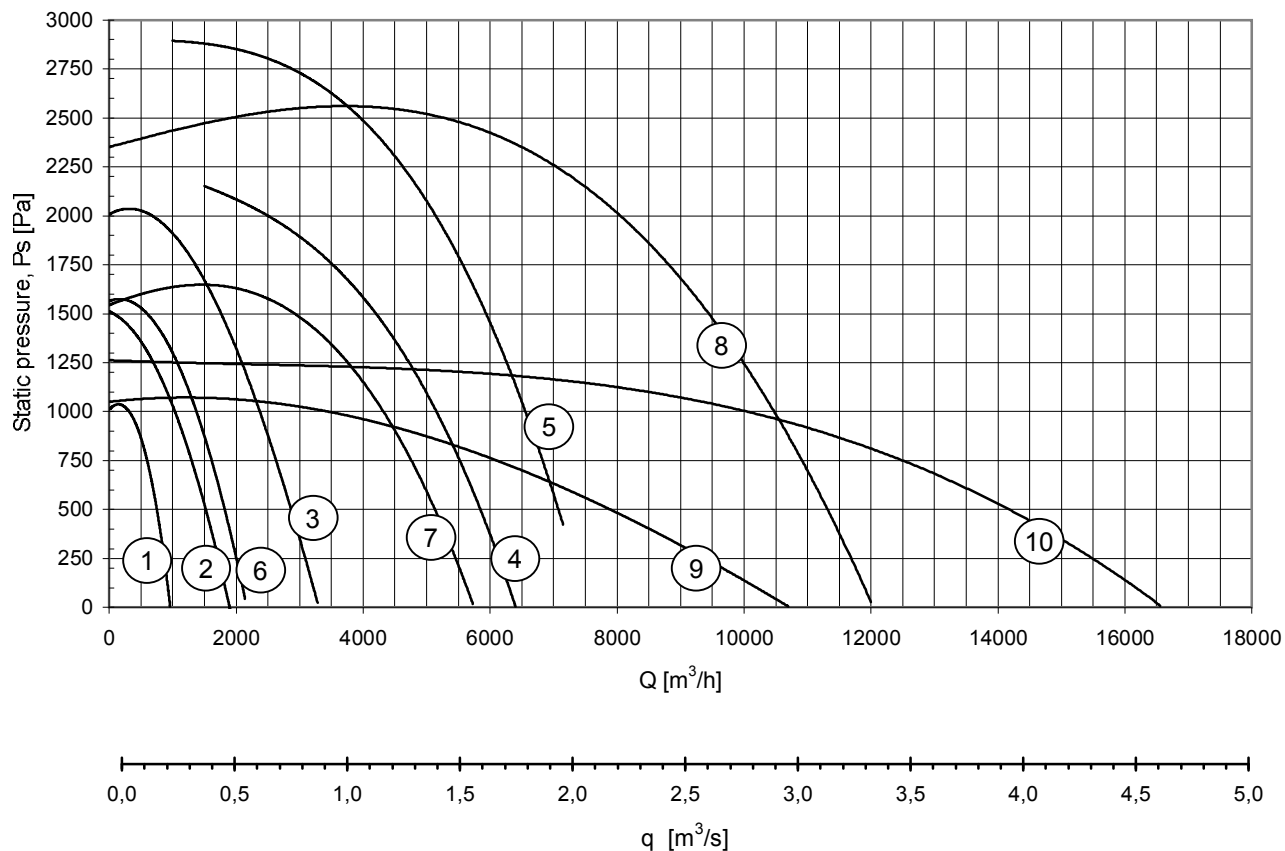


CENTRIFUGAL FANS

selection curves

(50Hz)

LSV and MSV



Curve	Fan	rpm	Fan power cons. [kW]	Sound press. [dBA] 1m	Motor	Motor power [kW]	Current [A] (400V)	Current [A] (230V)
1	MSV 125 B1	2900	0,34	70	71M02K	0,37	1,05	1,9
2	MSV 160 B1	2900	0,58	75	80M02K	0,86	1,85	3,35
3	MSV 200 B1	2900	1,18	79	90S02	1,5	3,5	6,1
4	MSV 250 B1	2900	3,4	85	112M02	4	8,2	14,2
5	MSV 315 B1	2900	5,5	88	132S02K	5,5	11,7	19,6
6	LSV 250 B1	2900	0,88	75	80M02	1,1	2,55	4,4
7	LSV 315 B1	2900	1,92	81	90L02	2,2	4,8	8,4
8	LSV 400 B1	2900	7,5	88	132S02	7,5	15	25,5
9	LSV 500 B1	1450	2,4	76	100L04	3	7	12
10	LSV 600 B1	1450	3,8	81	112M04	4	9,3	16

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LSV and MSV

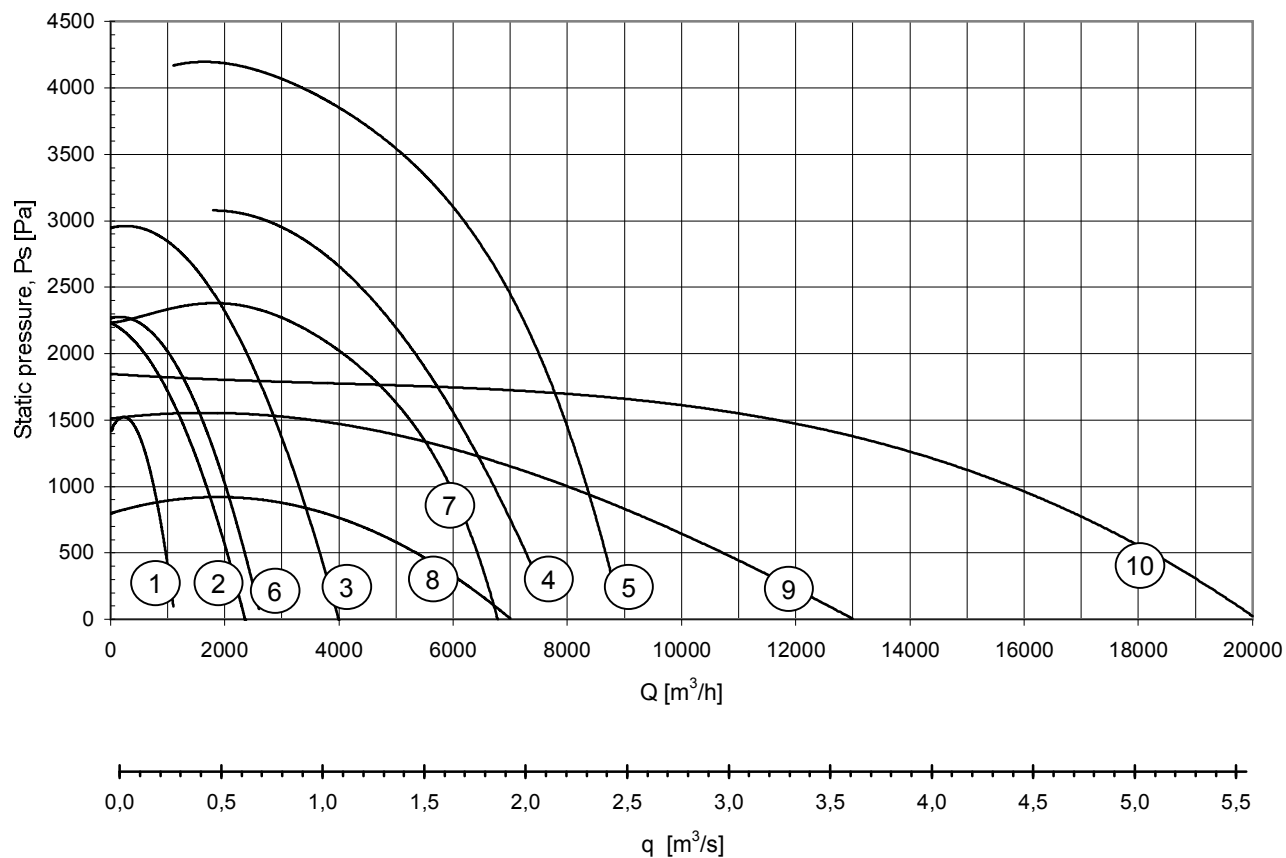


CENTRIFUGAL FANS

selection curves

(60Hz)

LSV and MSV



Curve	Fan	rpm	Fan power cons. [kW]	Sound press. [dBA] 1m	Motor	Motor power [kW]	Current [A] (440V)
1	MSV 125 B1	3500	0,58	75	71M02	0,63	1,4
2	MSV 160 B1	3500	1,02	80	80M02	1,3	2,5
3	MSV 200 B1	3500	2,08	83	90L02	2,55	4,8
4	MSV 250 B1	3500	6,1	89	112M02	6,3	11
5	MSV 315 B1	3500	9,6	93	132M02	12,6	20,6
6	LSV 250 B1	3500	1,55	82	90S02	1,75	3,4
7	LSV 315 B1	3500	3,4	85	100L02	3,45	6,3
8	LSV 400 B1	1750	1,55	72	90L04	1,75	3,6
9	LSV 500 B1	1750	4,2	79	112M04	4,6	8,8
10	LSV 600 B1	1750	6,7	84	132M04	8,6	16

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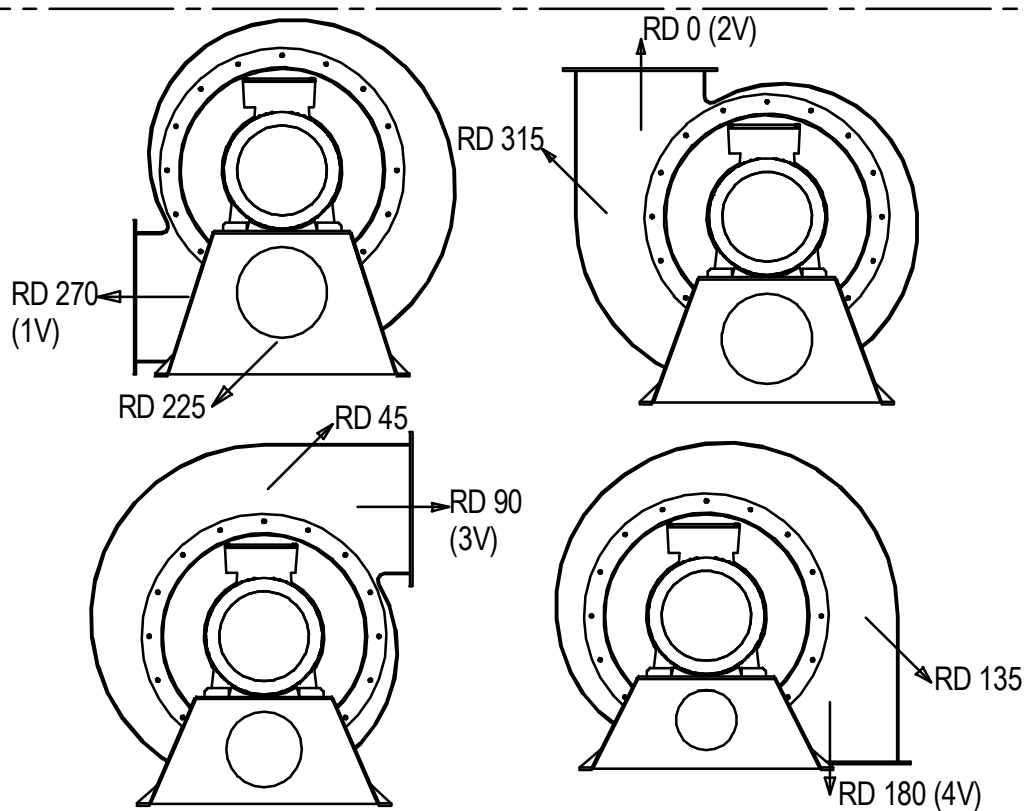
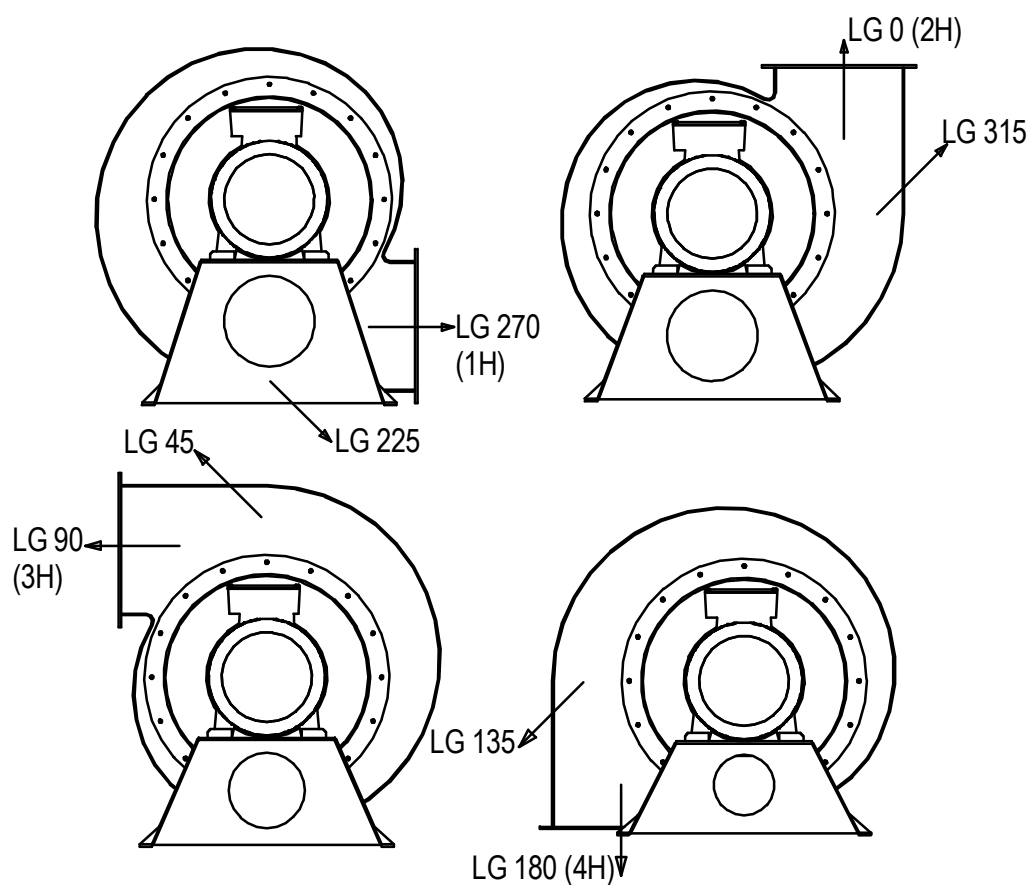


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LSV and MSV



MOUNTING POSITIONS IN ACCORDANCE TO EUROVENT CENTRIFUGAL FANS



06.12.00

F. Østro
4-2013-1



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Centrifugal Fans

Explanation of Fan Model Number

Fan model number is stated in the following way: Centrifugal Fan model MSV 160 B1.

MSV	160	B	1
figure no 1-3	Figure no 4-6	7	8

1. - 3. figure:

LSV : Low pressure centrifugal fan
MSV : Medium pressure centrifugal fan
HSV, HZV, HRV : High pressure centrifugal fan

4. -6. figure:

The size of the fan.

The numbers refers to nominal diameter (mm) on the fan's suction flange.

8.figure

- 1: Direct driven. impeller mounted on motor shaft
- 2: Belt driven. motor placed alongside the fan
- 3: Belt driven. motor mounted on the fan, belt screened



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SOUND POWER LEVELS (SWL) CALC. NYBORG CENTRIFUGAL FANS

FAN DATA			dB values at centre Hz								Theor
FAN MODEL	Rpm	Impeller	63	125	250	500	1000	2000	4000	8000	dBA
LSV 250 B	1450	B12x300x80	80	72	70	62	62	57	54	52	57
LSV 250 B	2900	B12x300x80	90	93	85	84	76	75	71	67	75
LSV 315 B	1450	B12x350x100	84	76	74	66	66	61	58	56	61
LSV 315 B	2900	B12x350x100	96	99	91	90	82	81	77	73	81
LSV 400 B	1450	B6x450x100	92	84	82	74	74	69	66	64	70
LSV 500 B	1450	B7x550x125	98	90	88	80	80	75	72	70	76
LSV 600 B	1450	B7x650x140	103	95	93	85	85	80	77	75	81
MSV 125 B	2900	B9x250x50	85	88	80	79	71	70	66	62	70
MSV 160 B	2900	B12x300x60	89	92	84	83	75	74	70	66	75
MSV 200 B	1450	B12x350x70	83	75	73	65	66	60	57	55	60
MSV 200 B	2900	B12x350x70	97	100	92	91	83	82	78	74	79
MSV 250 B	1450	B12x400x80	88	80	78	70	70	65	63	60	65
MSV 250 B	2900	B12x400x80	100	103	95	94	86	85	81	77	85
MSV 315 B	1450	B12x450x90	91	83	81	73	73	68	65	63	69
MSV 315 B	2900	B12x450x90	103	106	98	97	89	88	84	80	88

- Sound power levels in dB. ref. 10^{-12} W, internal values in fan openings.
- dBA values applies to 1 m. distance based on a theoretical free field environment.
- The sound power level values above are only intended as a guide, and may be used for calculations for sound pressure levels. (heard by the human ear).



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FAN DATA			dB values at centre Hz								Theor
FAN MODEL	Rpm	Impeller	63	125	250	500	1000	2000	4000	8000	dBA
LSV 250 B	1750	B12x300x80	82	76	74	67	65	61	58	55	61
LSV 250 B	3500	B12x300x80	95	98	93	90	84	81	77	74	82
LSV 315 B	1750	B12x350x100	85	79	77	70	68	64	61	58	64
LSV 315 B	3500	B12x350x100	98	101	96	93	87	84	80	77	85
LSV 400 B	1750	B6x450x100	93	87	85	78	76	72	69	66	72
LSV 500 B	1750	B7x550x125	99	93	91	84	82	78	75	72	79
LSV 600 B	1750	B7x650x140	104	98	96	89	87	83	80	77	84
MSV 125 B	3500	B9x250x50	89	92	87	84	78	75	71	68	75
MSV 160 B	3500	B12x300x60	94	97	92	89	83	80	76	63	80
MSV 200 B	1750	B12x350x70	84	78	76	69	67	63	60	57	63
MSV 200 B	3500	B12x350x70	97	100	95	93	86	83	79	76	83
MSV 250 B	1750	B12x400x80	90	84	82	75	73	69	66	63	70
MSV 250 B	3500	B12x400x80	102	105	100	97	91	88	84	81	89
MSV 315 B	1750	B12x450x90	94	88	86	79	77	73	70	67	73
MSV 315 B	3500	B12x450x90	106	109	104	101	95	92	88	85	93

- Sound power levels in dB. ref. 10^{-12} W, internal values in fan openings.
- dBA values applies to 1 m. distance based on a theoretical free field environment.
- The sound power level values above are only intended as a guide, and may be used for calculations for sound pressure levels. (heard by the human ear).



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PAINTING SPECIFICATION ALUMINIUM FANS

Surface preparation:

Step No	Description	Thickness	Type	Manufacturer
1	Washing	-	Aluminate (acid)	Alu-Nor
2	Cleaning	-	Water	-

Painting : Color RAL 5012

Step No	Description	Thickness	Type	Manufacturer
1	Primer	30 my	Joton Washprimer	Jotun
2	Topcoat	40 my	Jotun Ultra Topcoat	Jotun

GALVANIZE SPECIFICATION STEEL FANS

Surface preparation:

Step No	Description	Thickness	Type	Manufacturer
1	Cleaning	-	Nitric acid	-
2	Galvanizing	80my	Zn	-



WENTYLATOR ODŚRODKOWY NYBORG Z PIONOWYM WYLOTEM POWIETRZA

TYP
SKV - B10

DO MONTAŻU W SZCZYCIE PRZEWODU WENTYLACYJNEGO



OGÓLNE

Wentylator NYBORG *SKV* przeznaczony jest przede wszystkim do zastosowania na pokładzie statków i jest dostępny w 8 różnych rozmiarach. Wentylator posiada szeroki zakres zastosowań, jako przykład można podać wentylację wyciągową z kuchni pokładowych, mesy, kabin, toalet, łazienek, kotłów krabów i krewetek, itp.

Strumień powietrza jest kierowany do góry, a w przypadku wystąpienia wody nadmiarowej, wentylator wyposażony jest w szczelinę spustową.

MATERIAŁY

Zarówno wirnik jak i obudowa wentylatora są wykonane ze stopu aluminium odpornego na sól i amoniak, a wszystkie śruby i nakrętki zastosowane w konstrukcji są wykonane ze stali nierdzewnej.

SILNIK

Wentylator dostarczany jest z całkowicie obudowanym silnikiem standardowym, zgodnym z wymogami towarzystw klasyfikacyjnych. Silnik jest również zabezpieczony przez strumieniem powietrza przy pomocy specjalnej osłony silnika. Jest to ważne w przypadku, gdy strumień powietrza zawiera korozyjne opary lub parę wodną.

WYPOSAŻENIE

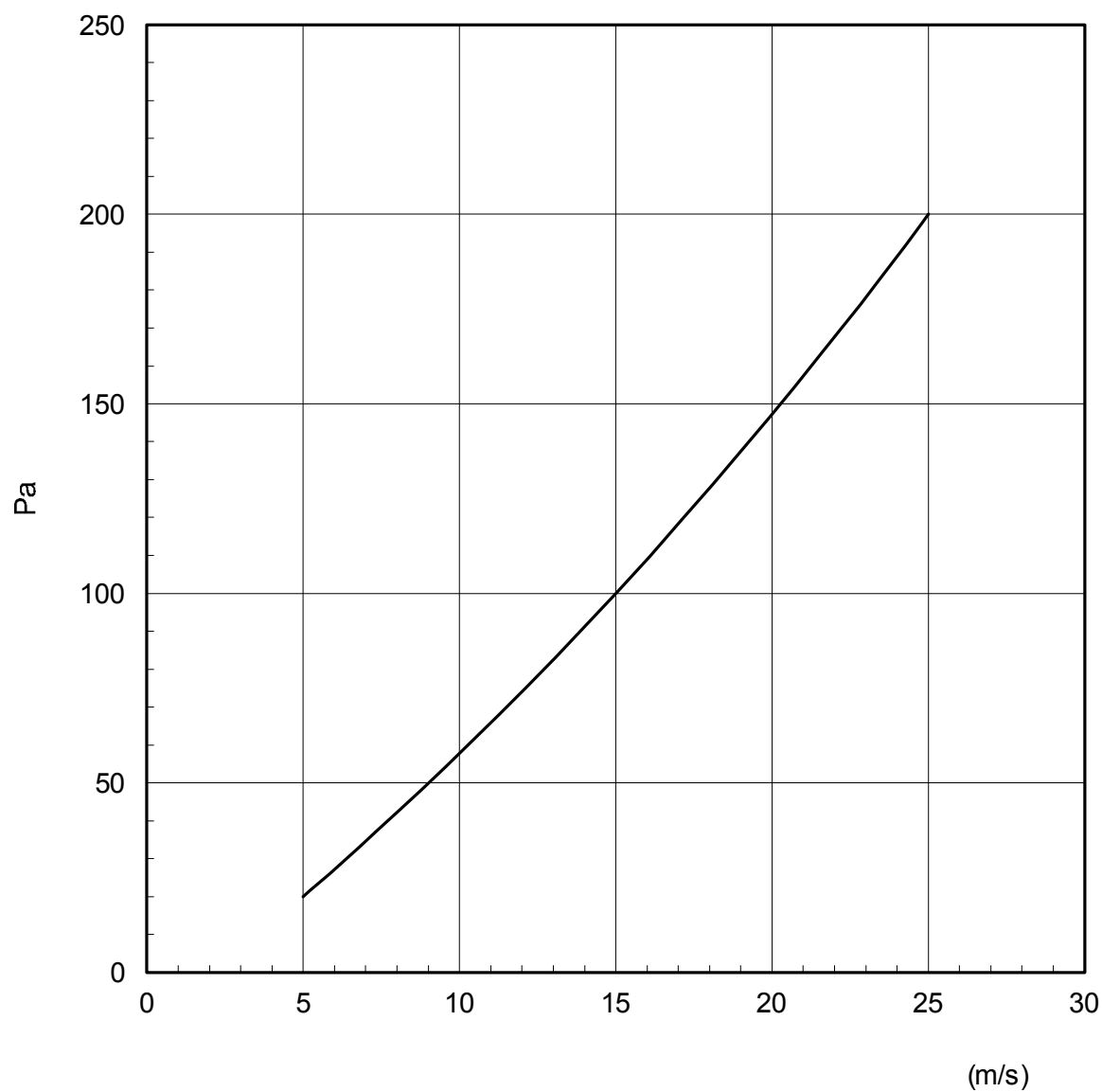
Standardowo wentylator dostarczany jest z zamontowaną u góry osłoną drucianą w wykonaniu AISI316 .

AKCESORIA

Przeciwnośnierz



PRESSUREDROD IN COWLS PTV-PPV



nyborg18.prs-4



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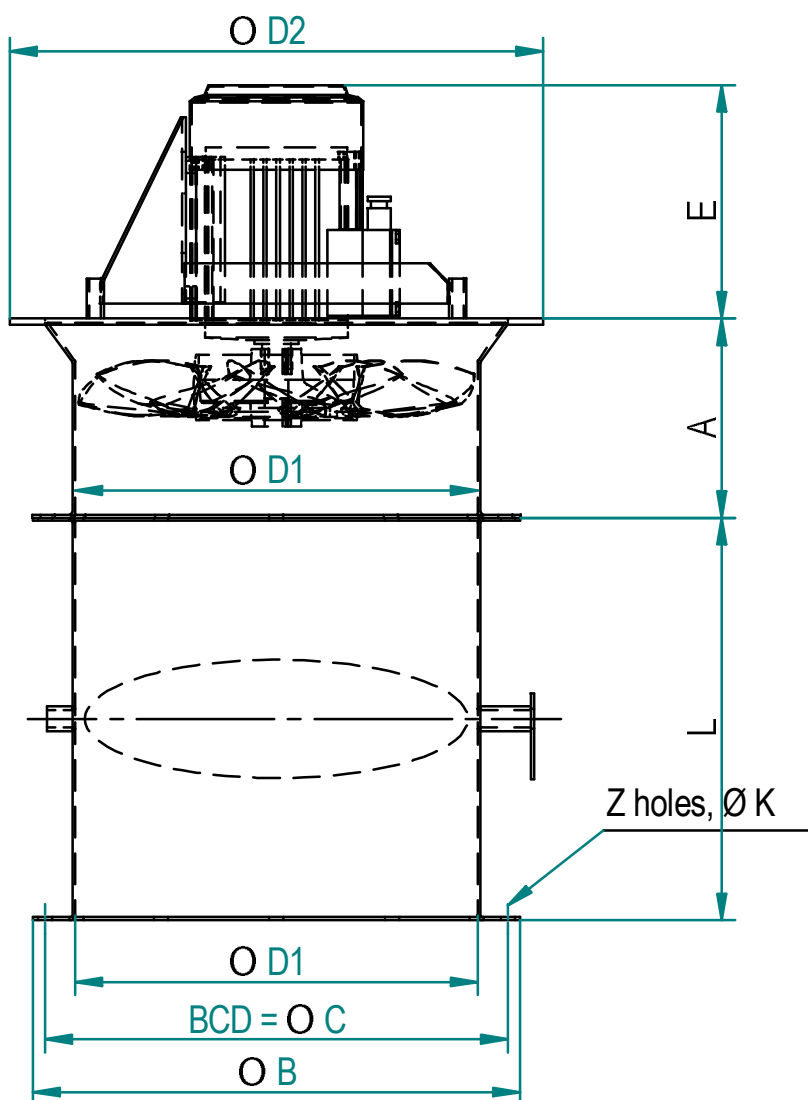
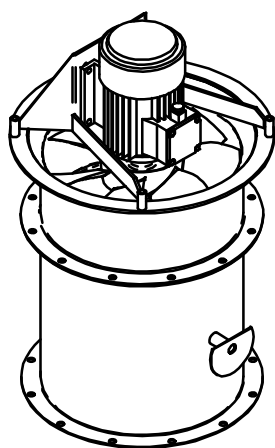


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NYBORG AXIAL FAN
c/w with Wire Guard and Shut-Off Damper
All Hot Dipped Galvanized

**MPV -
A1E/LSS**



MPV	A	B	C	Ø D1	Ø D2	E	L	F/ T1	Z x K	Weight
315	194	384	360	315	430		315	3	8x14	
355	195	434	405	355	485		355	3	8x14	
400	198	484	460	400	530		400	3	12x14	
450	215	534	510	450	595		450	3	12x14	
500	250	584	560	500	660		500	3	12x14	
630	260	706	698	630	820		630	4	16x14	
710	320	806	775	710	900		710	4	16x14	
800	320	906	870	800	990		800	4	16x19	
900	320	1028	980	900	1110		900	5	16x19	
1000	400	1128	1080	1000	1275		1000	5	20x19	

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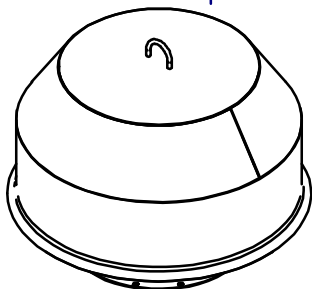
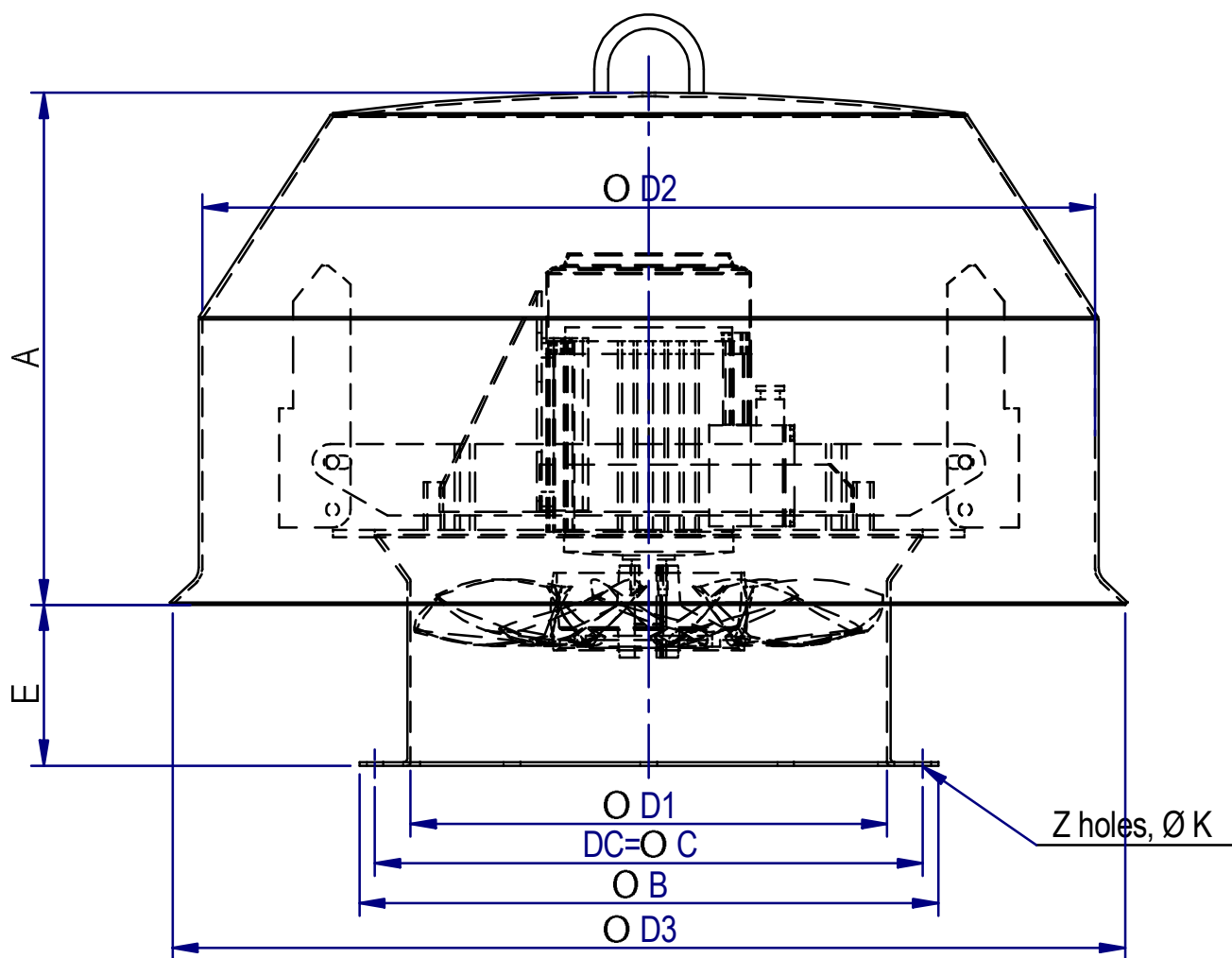
**MPV -
A1E/LSS**



NYBORG AXIAL FAN

For Duct-Top Installation c/w Hood
All Hot-Dipped Galvanized

PTV - A1RO



PTV	A	B	C	Ø D1	Ø D2	Ø D3	E	F/ T1	T2	Z x K	Weight fan (kg)
250	305	334	310	250	650	700	162	3	2	8x12	38
315	305	400	360	315	650	700	154	3	2	8x14	41
355	305	440	405	355	650	700	155	3	2	8x14	44
400	470	484	460	400	900	960	150	3	3	12x14	72
450	470	534	510	450	900	960	167	3	3	12x14	77
500	470	584	560	500	900	960	202	3	3	12x14	84
630	550	736	698	630	1300	1380	185	4	3	16x14	145
710	550	816	775	710	1300	1380	245	4	3	16x14	165
800	650	906	870	800	1650	1740	340	4	4	16x19	280
900	650	1028	980	900	1650	1740	340	5	4	16x19	305
1000	870	1128	1080	1000	1850	1940	245	5	4	20x19	

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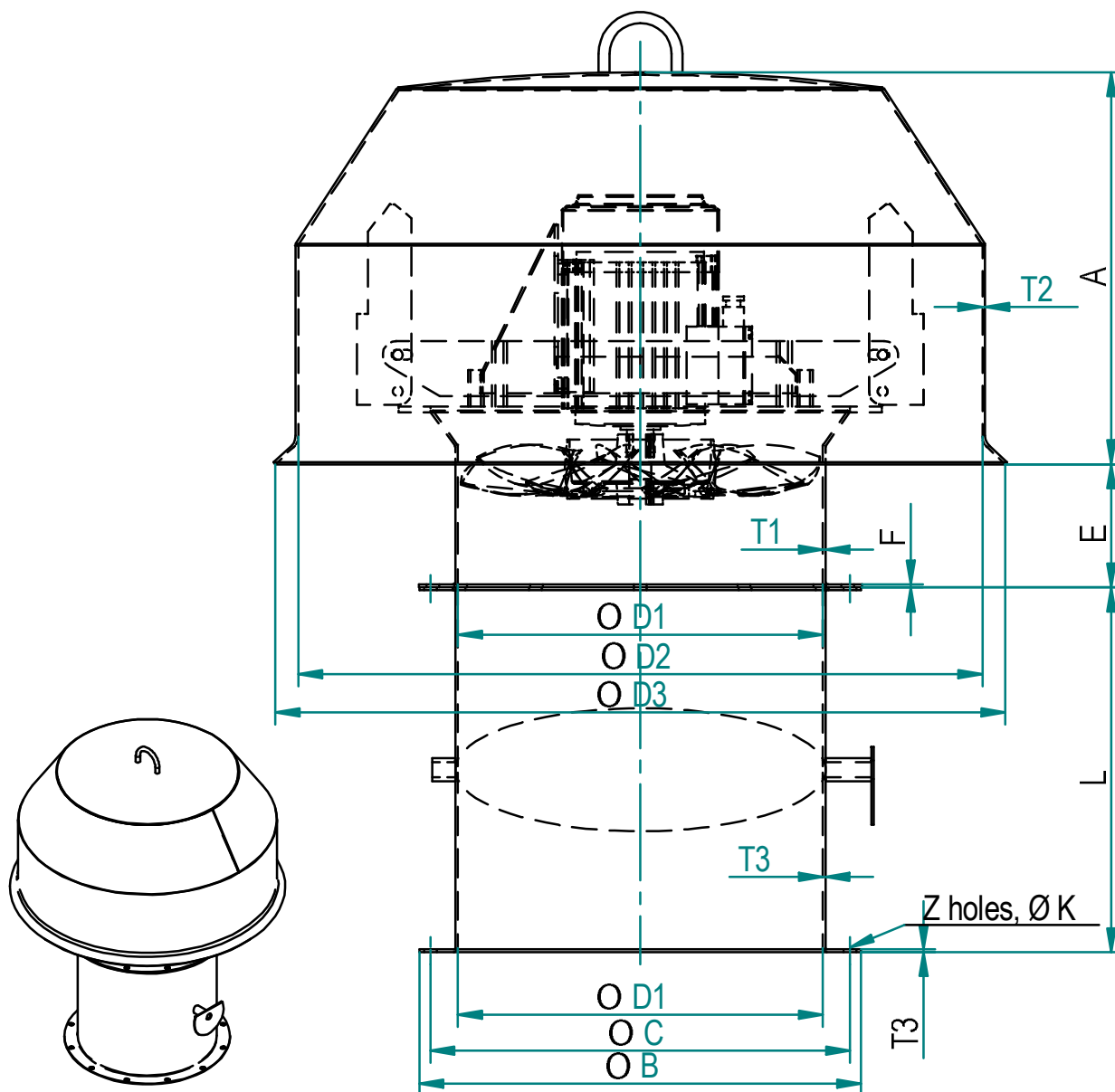
PTV - A1RO



NYBORG AXIAL FAN

For Duct-Top installation c/w Hood and Shut-Off Damper
All Hot Dipped Galvanized

PTV - A1RO/LSS



MPV	A	B	C	Ø D1	Ø D2	Ø D3	E	L	F/ T1	T2	T3	Z x K	Weight
250	305	334	310	250	650	700	162	250	3	2	3	8x12	
315	305	400	360	315	650	700	154	315	3	2	3	8x14	
355	305	440	405	355	650	700	155	355	3	2	3	8x14	
400	470	484	460	400	900	960	150	400	3	3	3	12x14	
450	470	534	510	450	900	960	167	450	3	3	3	12x14	
500	470	584	560	500	900	960	202	500	3	3	3	12x14	
630	50	706	698	630	1300	1380	185	630	4	3	4	16x14	
710	550	816	775	710	1300	1380	245	710	4	3	4	16x14	
800	650	906	870	800	1650	1740	340	800	4	4	4	16x19	
900	650	1028	980	900	1650	1740	340	900	5	4	5	16x19	
1000	750	1120	1080	1000	1850	1940	245	1000	5	4	5	20x19	

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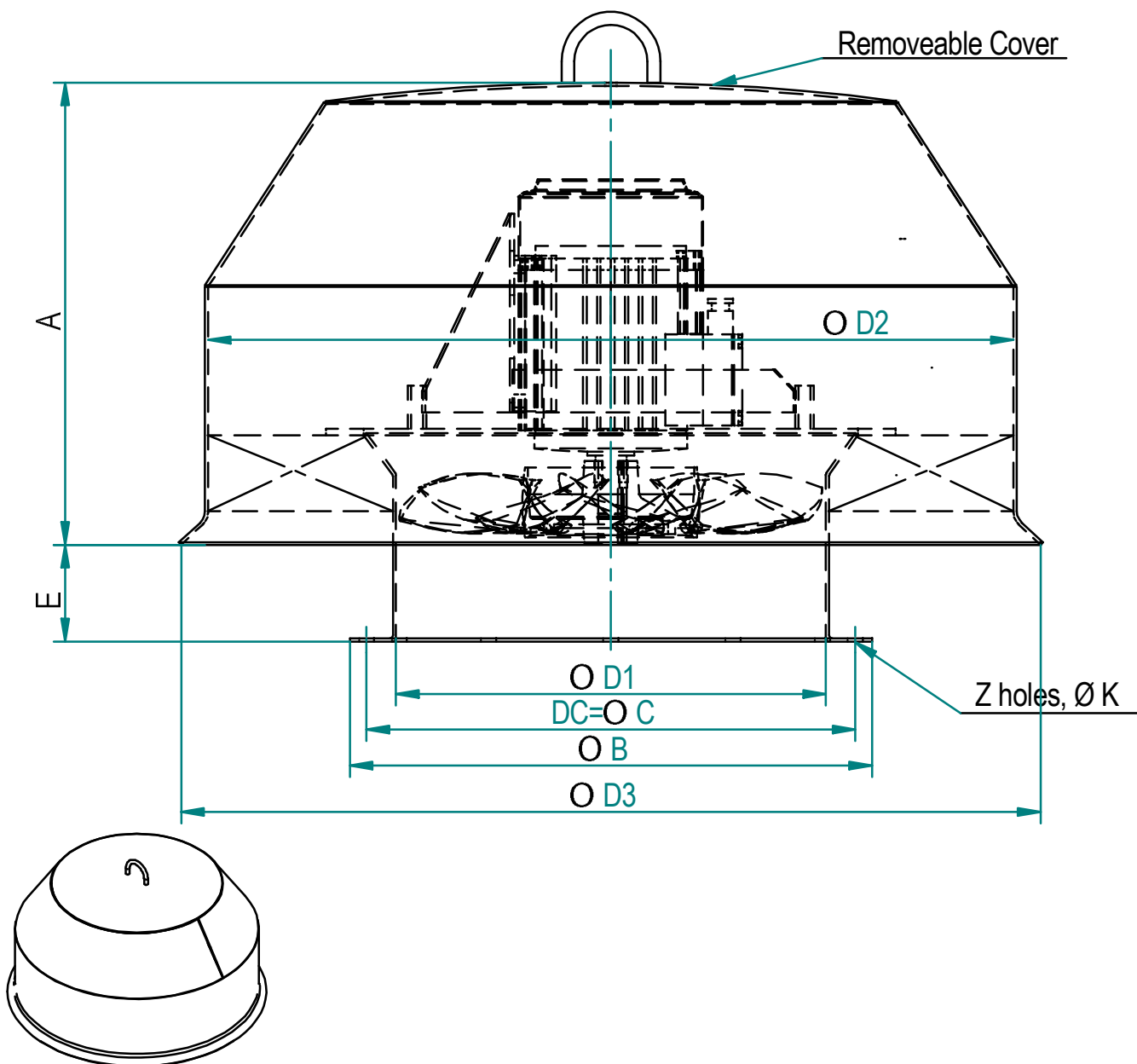
PTV - A1RO/LSS



NYBORG AXIAL FAN

For Duct-Top Installation c/w Hood
All Hot-Dipped Galvanized

PTV - A1RF



Size	A	B	C	Ø D1	Ø D2	Ø D3	E	F/ T1	T2	Z x K	Weight
1000	830	1128	1080	1000	1800	1900	200	5	4	20xØ19	
1120	830	1248	1200	1120	2000	2100	200	5	4	20xØ19	
1250	950	1380	1320	1250	2200	2300	250	6	5	24xØ14	

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13/12-02



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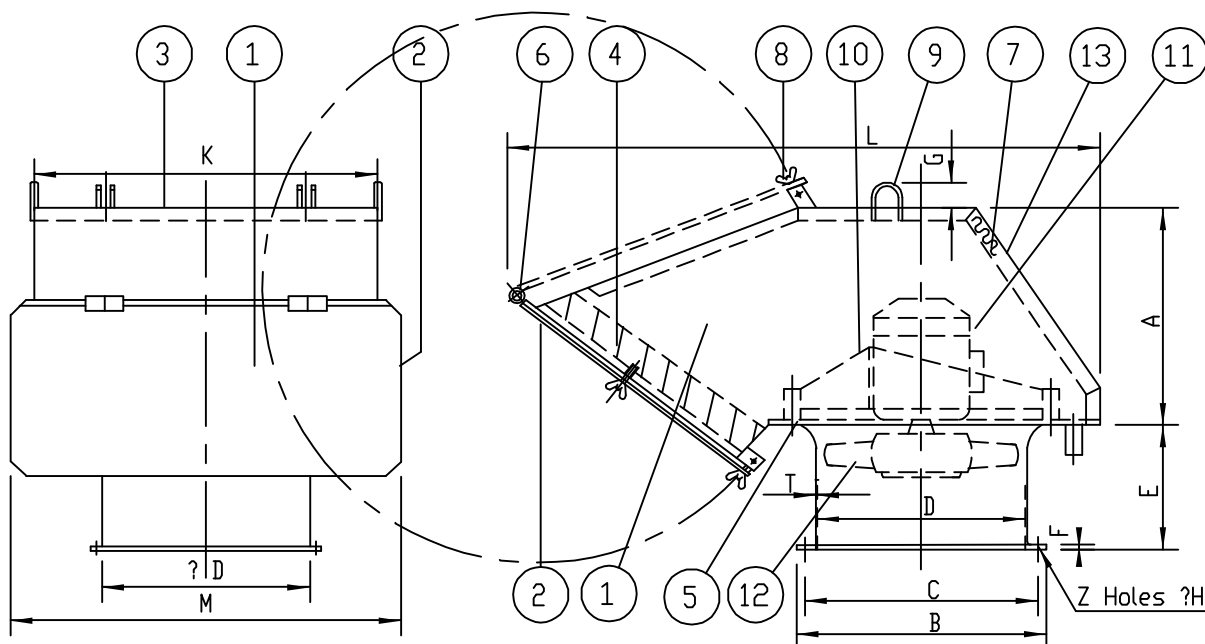
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PTV - A1RF



AXIAL FLOW FAN

PTV-A1F
LG/D



- ① FAN COWL. Matl.:
All Welded Steel Plates.
- ② COVER PLATE,
Weather Proof in Closed Position.
- ③ TOP COVER.
- ④ JEALOUSY.
- ⑤ WIRE MESH GUARD,
or Spark Catcher Wire Mesh Guard
- ⑥ HINGES. Matl.: Non-Corrosive.

- ⑦ SOUND INSULATION. Matl.:
Mineral Fibre.
- ⑧ SCREW JOINT. Matl.:
Non-Corrosive.
- ⑨ LIFTING HOOKS.
- ⑩ MOTOR BRACKET.
- ⑪ MOTOR.
- ⑫ IMPELLER.
- ⑬ COVER.

SIZE NO	A	B	C	D	E	F	G	K	L	M	T1	Z	H
260													
300	333	387	360	300	164	8		430	710	486	3	8	14
350	353	437	405	350	200	8		470	745	526	3	8	14
400	403	488	460	400	200	8		480	800	546	3	12	14
450													
500	438	589	560	500	254	8		640	890	698	3	12	14
550	450	660	630	550	250	10		690	1150	746	4	16	14
630	640	740	698	630	293	10	50	820	1520	878	4	16	14
700	704	810	775	700	296	10	50	900	1600	968	4	16	14

15/08-94

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ptv-a1flgd-m



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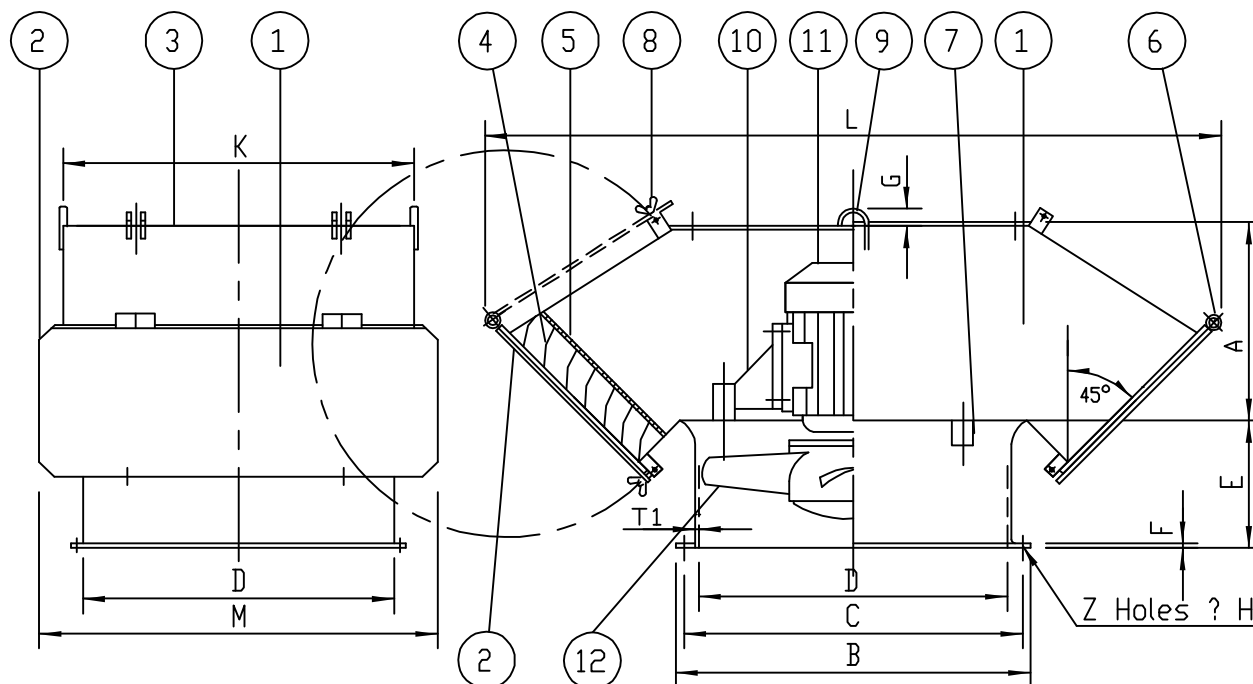
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PTV-A1F
LG/D



AXIAL FLOW FAN

PTV-A12F
GS/D



- ① FAN COWL. Matl.: All-Welded Steel Plates.
- ② COVER PLATE, Weather Proof in Closed Position.
- ③ TOP COVER.
- ④ JEALOUSY.
- ⑤ WIRE MESH GUARD, or Spark Catcher Wire Mesh Guard.
- ⑥ HINGES. Matl.: Non-Corrosive.
- ⑦ CABLE ENTRY, With Packing Nibble.
- ⑧ SCREW JOINT. Matl.: Non-Corrosive.
- ⑨ LIFTING HOOKS.
- ⑩ MOTOR BRACKET.
- ⑪ MOTOR.
- ⑫ IMPELLER.

SIZE NO	A	B	C	D	E	F	G	K	L	M	T1	Z	H
630	640	740	698	630	293	10	50	828		828	4	16	14
700	508	810	775	700	307	10	50	720		800	4	16	14
800	530	912	870	800	320	10	50	900	1850	970	4	16	19
900	600	1008	980	900	320	10	90	1000	2000	1070	5	16	19
1000		1108	1080	1000	410	10	90	1400		1490	5	20	19

25/02-93

R.Berge

PTV12FGS-M



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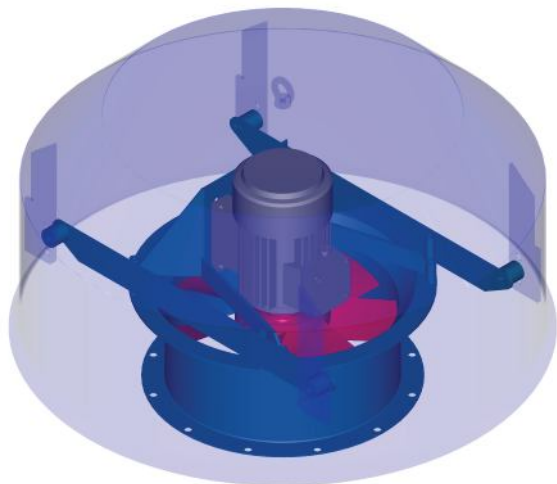
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PTV-A12F
GS/D



FANS FOR DUCT-TOP MOUNTING

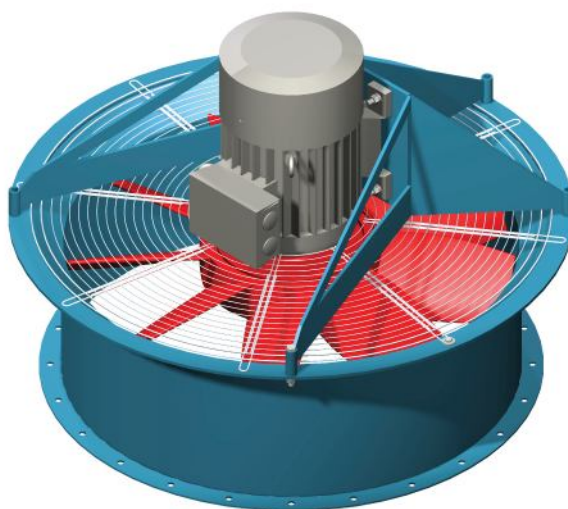
PTV - R



SKV - B



MPV - A1E



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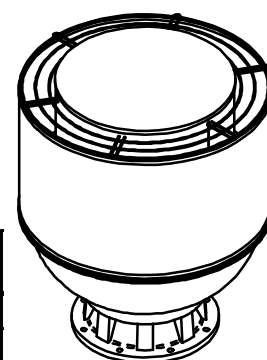
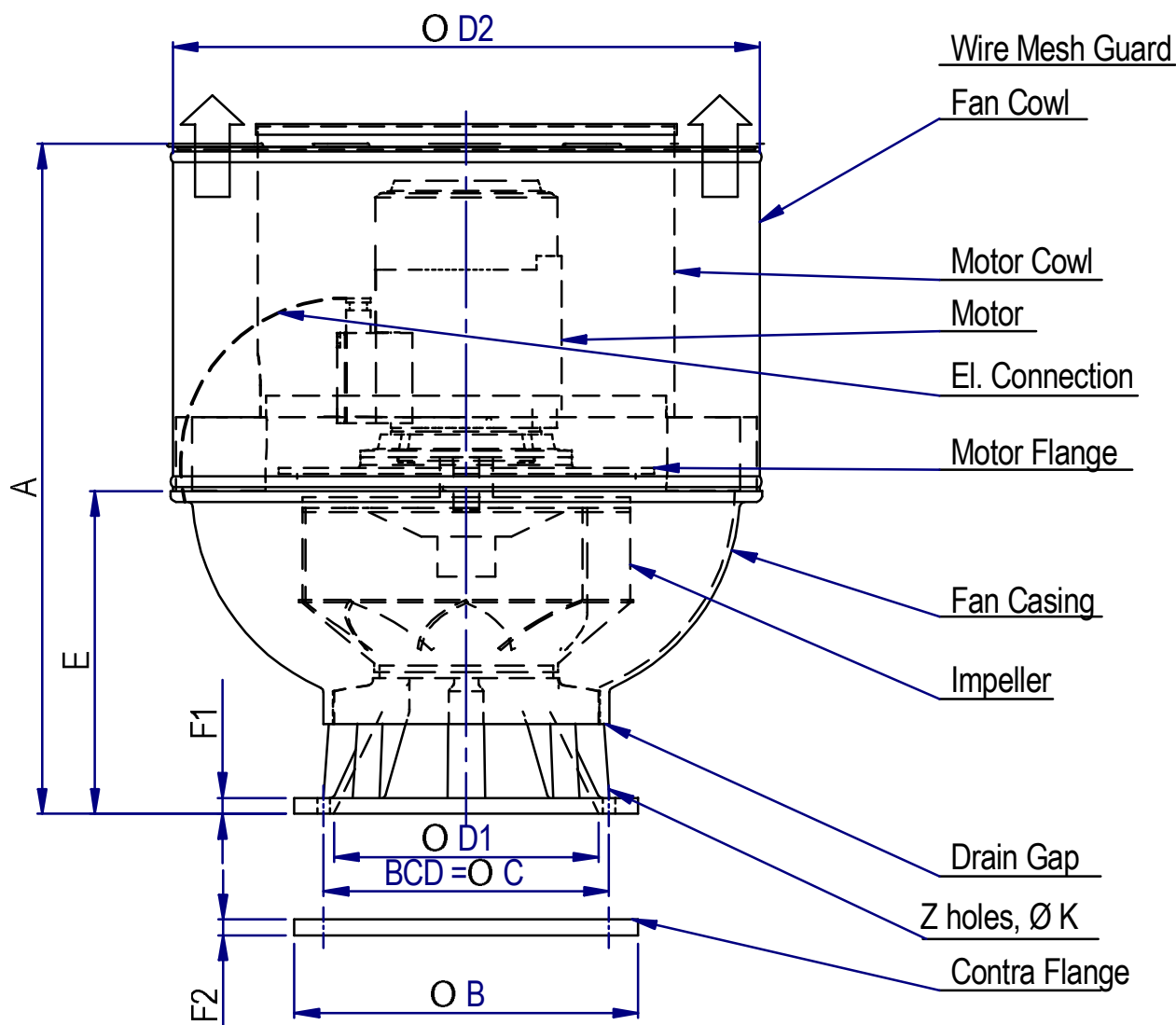


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NYBORG VERTICAL DISCHARGE CENTRIFUGAL FAN

SKV - B10



SKV	A	B	C	D1	D2	E	F1	F2	T	Z x K	Weight fan [kg]
125	440	200	170	125	372	230	10	6	2	4x11	9
150	540	210	185	150	455	210	12	6	2	4x11	11,5
200	575	265	240	200	515	245	12	6	2,5	6x11	25
250	630	325	292	250	570	305	15	6	2,5	8x12	36
300	580	387	360	300	650	265	15	8	2,5	8x14	45
350	610	437	410	350	720	290	15	8	3	8x14	55
400	660	488	460	400	770	275	17	8	3	8x14	
450	705	550	510	450	825	210	17	10	4	12x14	

4-2143

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16/12-02



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SKV - B10



SELECTION TABLE F.AIR VOLUMES

SKV – B10

SKV		Air Volumes (m³/h) by Static Pressure (Pa)											Motor 50Hz
		0	100 Pa	200 Pa	300 Pa	400 Pa	500 Pa	600 Pa	700 Pa	800 Pa	900 Pa	1000 Pa	kW
Size	rpm												
125 B	2800	430	350	280	210	120							0.18
125 F	1400	430	315	210									0.18
	2800	835	765	725	700	680	645	610					0.55
150 B	2800	680	650	595	525	390							0.37
150 F	900	460	240										0.18
	1400	700	630	535	380								0.25
200 B	2800	1190	1120	985	890	815	745	680	580				0.37
200 F	900	650	430										0.18
	1400	1040	815	700	630	460							0.25
250 B	2800	2460	2300	2160	2000	1830	1680	1480	1260	1115			1.1
250 F	900	1050	765	470									0.18
	1400	1680	1490	1230	1070	920	750						0.37
300 B	900	2140	1770	370									0.25
	1400	2900	2750	2450	1680								0.37
	2800	5950	5800	5720	5650	5500	5350	5200	5050	4900	4600	4280	2.2
350 B	700	2540	1920										0.25
	900	3200	2750	2150									0.37
	1400	4600	4280	3980	3360	2150							0.55
400 B	700	3670	3050	1830									0.37
	900	4600	4280	3670	2350								0.55
	1400	7350	7040	6430	5800	5200	4600						1.1
450 B	700	5350	3980	2050									0.55
	900	6730	6100	4850	2550								0.75
	1400	10100	9800	9200	8550	7950	7030	6100	5200				2.2
	rpm	0	140 Pa	290 Pa	430 Pa	580 Pa	720 Pa	860 Pa	1000 Pa	1150 Pa	1300 Pa	1440 Pa	60 Hz
125 B	3400	515	420	335	250	145							0.3
125 F	1700	515	380	275									0.3
	3400	1000	915	870	840	815	770	730					0.9
150 B	3400	815	780	715	630	460							0.66
150 F	1100	550	290										0.3
	1700	840	750	640	450								0.45
200 B	3400	1420	1340	1180	1060	970	890	810	700				0.66
200 F	1100	780	510										0.3
	1700	1250	980	840	750	550							0.45
250 B	3400	2950	2750	2600	2400	2200	2020	1780	1500	1330			1.8
250 F	1100	1260	920	560									0.3
	1700	2000	1780	1470	1280	1100	900						0.66
300 B	1100	2560	2120	440									0.45
	1700	3480	3300	2940	2010								0.66
350 B	850	3050	2300										0.45
	1100	3840	3300	2580									0.66
	1700	5500	5130	4750	4030	2580							0.9
400 B	850	4400	3660	2200									0.66
	1100	5500	5130	4400	2850								0.9
	1700	8820	8450	7700	6950	6240	5500						1.8
450 B	850	6400	4770	2460									0.9
	1100	8070	7320	5800	3050								1.3
	1700	12100	11750	11000	10250	9540	8430	7320	6240				3.6



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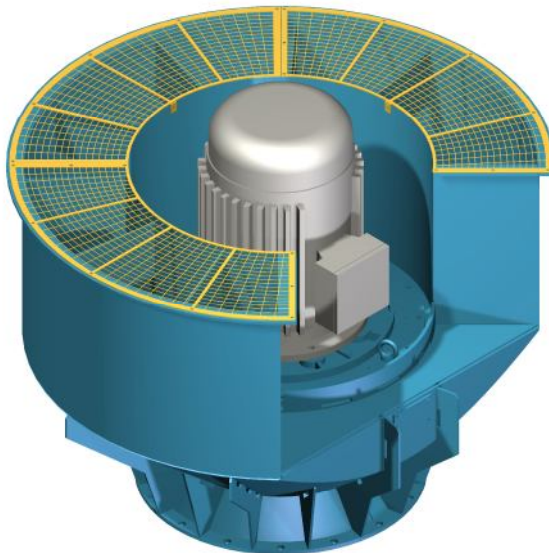


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WENTYLATOR ŚMIGŁOWY WYCIĄGOWY DO OPARÓW WYBUCHOWYCH

TYP
PUV-D1RX



ZASTOSOWANIE

Typowym zastosowaniem tego wentylatora jest mechaniczna wentylacja, wentylacja wyciągowa, w niebezpiecznych obszarach ładunkowych i pomieszczeniach na pokładzie statków. Montaż w szczycie przewodu wentylacyjnego, nad pokładem.

Z wymogów systemu Det Norske Veritas, mechaniczna wentylacja w obszarach ładunkowych:

A 100 General

109 Elektryczne silniki wentylatorów nie mogą być montowane w przewodach wentylacyjnych jeśli na statku mają być przewożone produkty łatwopalne.

111 Wyloty wentylacyjne z obszarów zagrożonych gazem powinny być skierowane do góry w miejscu oddalonym o co najmniej 10 m w kierunku poziomym od wlotów wentylacyjnych oraz otworów prowadzących do obszarów bezpiecznych z punktu widzenia gazowego.

KONSTRUKCJA

PUV-D1RX jest przeznaczony przede wszystkim do wentylacji, wentylacji wyciągowej, przepompowni i innych miejsc, gdzie występują wybuchowe opary. Wentylator jest odporny na iskrzenie z całkowicie obudowanym, chłodzonym naturalnie i ognioodpornym silnikiem elektrycznym.

Wieloletnie doświadczenie przyczyniło się do powstania prostej konstrukcji, z tylko jedną obracającą się częścią oprócz samego silnika.

Wirnik jest zamontowany bezpośrednio do wału silnika, tworząc tym samym jeden zespół z kołnierzem silnika, który może zostać uniesiony w celu przeprowadzenia kontroli.

WYKONANIE

Wirnik, obudowa wentylatora, kołnierz silnika i płyta prowadząca wykonane są z aluminium odpornego na sól i amoniak.

Wirnik posiada aerodynamiczny kształt i wyważenie z różnymi kątami nachylenia w celu dostosowania do różnych ciśnień i wydajności. Osłona z siatki stalowej wykonana jest ze stali nierdzewnej.

Punkt smarowania dla montażu gazoszczelnego umieszczony jest w górnej części kołnierza silnika

PUV-D1RX może zostać dostarczony w zakresie od rozmiaru nr 260 do rozmiaru nr 1100,

SILNIK ELEKTRYCZNY

Silnik jest całkowicie obudowany, naturalnie chłodzony i ognioodporny, przeznaczony do montażu nad pokładem.

Atesty z badań i przeciwwybuchowe dołączane są do każdego silnika.

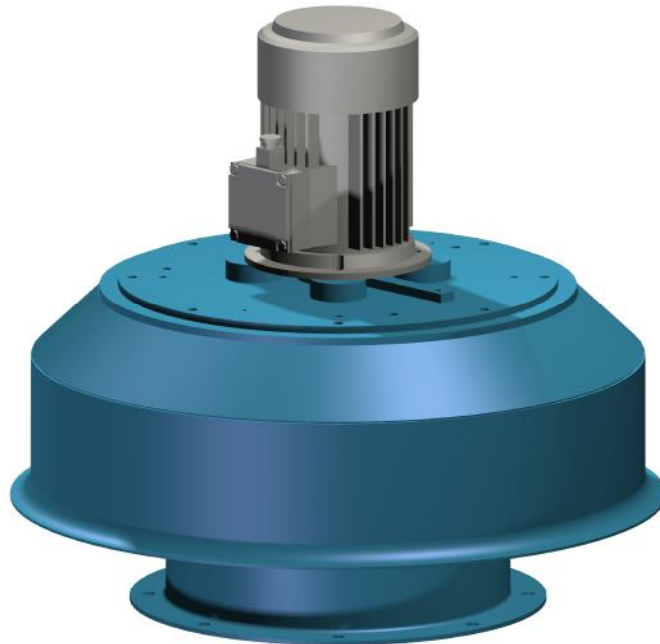
TOWARZYSTWA KLASYFIKACYJNE

Wentylator spełnia wymogi różnych towarzystw klasyfikacyjnych.



PUMP ROOM FAN FOR EXPLOSIVE FUMES

TYPE
PPV-D10X



APPLICATIONS

Typical application for this fan is mechanical ventilation of hazardous zones and rooms onboard ships. Duct-top, above deck mounting.

DESIGN

The PPV-D10X is designed primary for ventilation, both supply and extraction, of pumpRooms and other places where explosive fumes occur. The fan is spark proof with a totally enclosed, natural cooled and flameproof electric motor.

Long experience has contributed to a simple construction, with only one rotating part in addition to the motor itself. The propeller is mounted directly to the motor shaft, thus making it one unit with the motor flange, which can be lifted out for inspection.

EXECUTION

Fan casing consists of welded steel plates of heavy duty design and includes guiding vanes for the propeller.

The propeller and guiding plate are made of salt- and ammoniarestant aluminium, aerodynamically shaped and balanced.

The wire mesh guard is made of stainless steel.

Greasing-point for the gas tight assembly is provided on top of the cowl.

The PPV-D10X can be delivered in the range from size no 260 to size no 1250.

ELECTRIC MORTOR

The motor is totally enclosed, natural cooled and flameproof, designed for above deck mounting.

Test - and Ex certificates are delivered with each motor.

CLASSIFICATION SOCIETIES

The fan satisfy the demands of the various classification societies.

ACCESSORIES

- Countra flange



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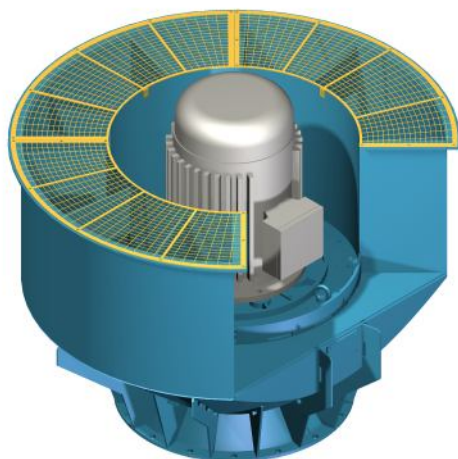


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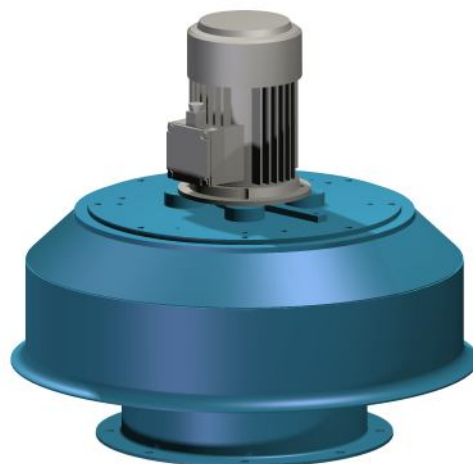


EX PROOF FANS for Hazardous Area

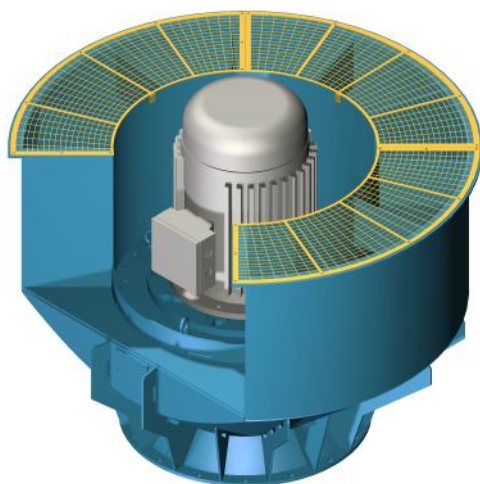
PUV - D1RX



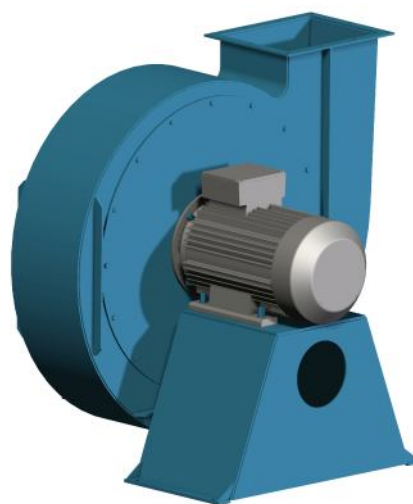
PPV - D10X



SUV - B1RX



HSV - B1(AFX)



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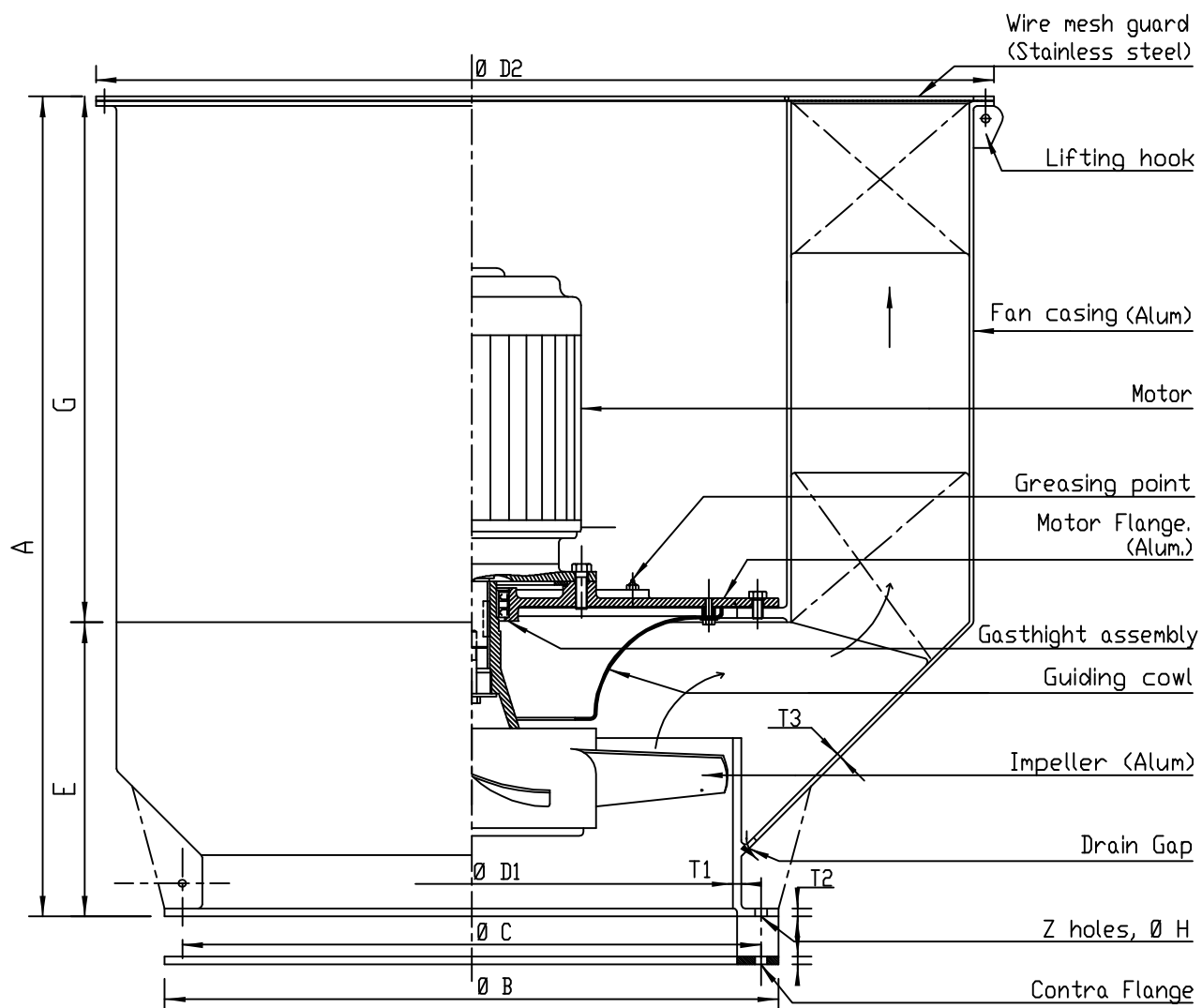


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Dimension drawing

PUV -
D1RX



Size	A	ØB	ØC	D1	D2	E	G	T1	T2	T3	Z	H	Weight fan [kg]
260	600	337	310	260	650	255	345	8	10	4	8	12	32
300	600	387	360	300	680	255	345	8	10	4	8	14	36
350	650	437	405	350	800	300	350	8	10	4	8	14	43
400	730	488	460	400	850	310	420	8	10	4	12	14	54
450	850	548	510	450	960	335	515	8	10	4	12	14	65
500	900	598	560	500	1010	380	520	8	10	4	12	14	76
550	920	660	630	550	1160	400	520	10	10	4	16	14	
630	1050	740	698	630	1250	410	640	10	10	5	16	14	124
700	1150	810	775	700	1460	510	640	10	10	5	16	14	160
800	1180	912	870	800	1670	540	640	10	15	6	16	19	231
900	1380	1030	980	900	1870	615	765	10	15	6	16	19	312
1000	1470	1132	1080	1000	2070	705	765	10	15	6	20	19	

Dato: 09.01.04

Tegn.nr 4-1274

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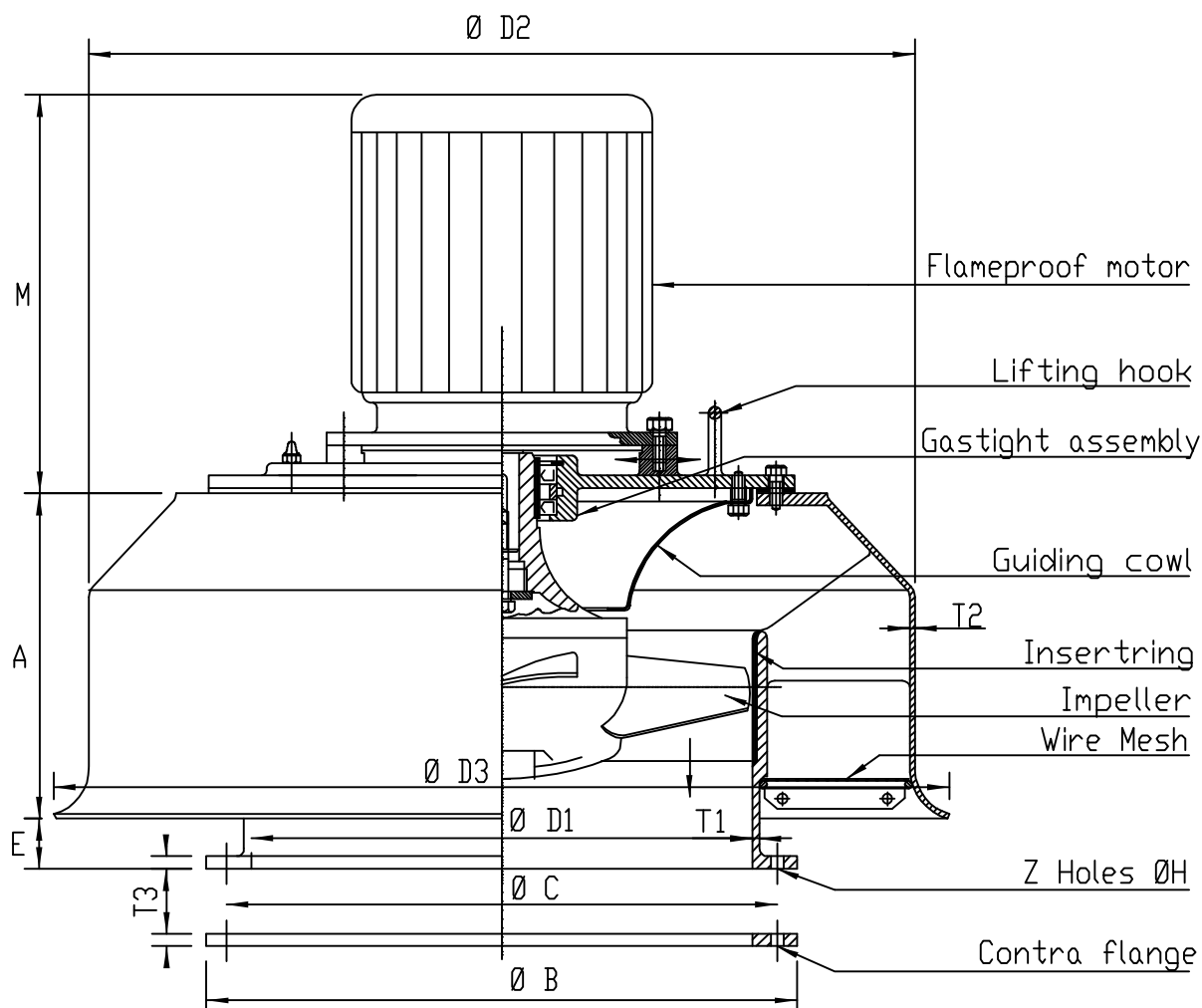
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PUV -
D1RX



Dimension drawing

PPV -
D10X



Size	A	ØB	ØC	Ø D1	Ø D2	Ø D3	E	T1	T2	T3	Z	H	Weight [kg] excl. motor
260	230	337	310	260	550	590	73	6	3	8	8	12	39
300	245	387	360	300	600	640	60	6	3	10	8	14	43
350	230	437	405	350	650	700	84	6	3	10	8	14	58
400	260	488	460	400	700	750	60	6	3	10	12	14	62
450	265	550	510	450	800	850	110	6	3	12	12	14	82
500	281	600	560	500	900	950	115	6	3	12	12	14	92
550	250	660	630	550	1000	1060	142	6	4	12	16	14	
630	352	740	698	630	1100	1160	150	6	4	12	16	14	163
700	447	810	775	700	1250	1300	135	6	4	12	16	14	227
800	470	912	870	800	1400	1480	135	6	5	12	16	19	300
900	505	1032	980	900	1600	1680	165	6	5	15	16	19	
1000	630	1232	1080	1000	1800	1900	178	6	5	15	20	19	
1250	750	1380	1320	1250	2250	2350	185	6	5	15	24	19	

Dato 08.07.97

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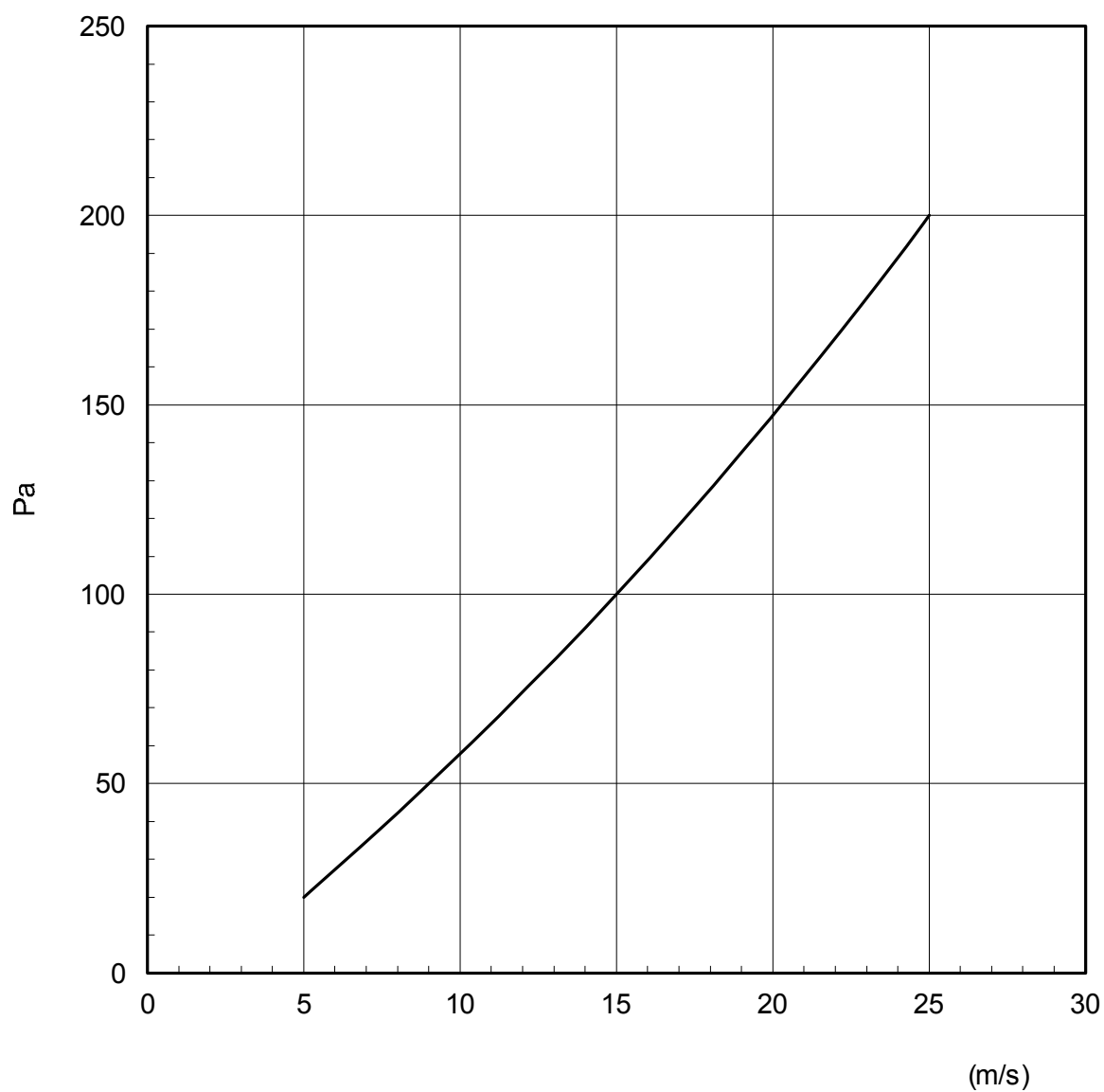


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PPV -
D10X



PRESSUREDROD IN COWLS PTV-PPV

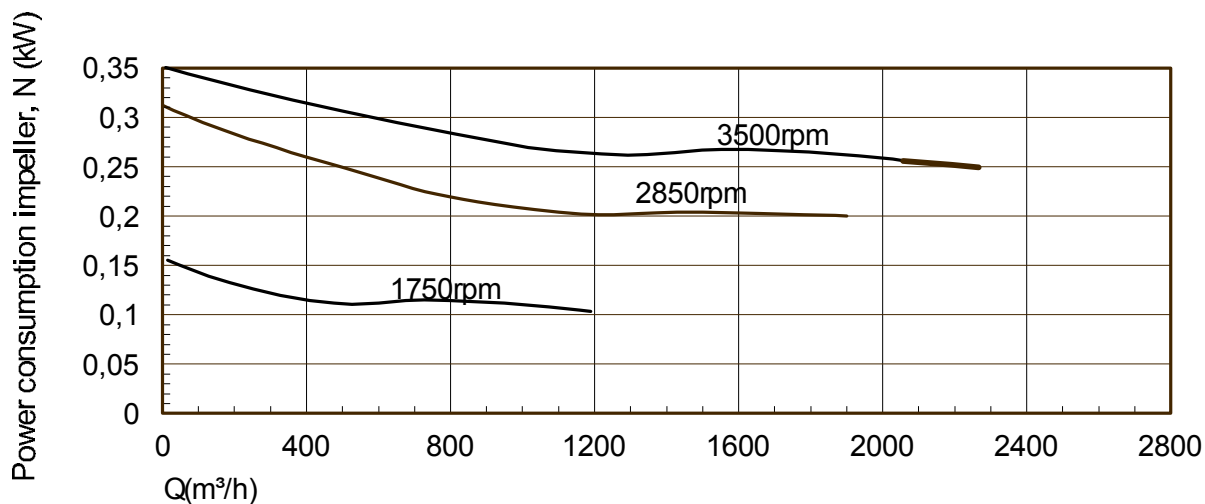
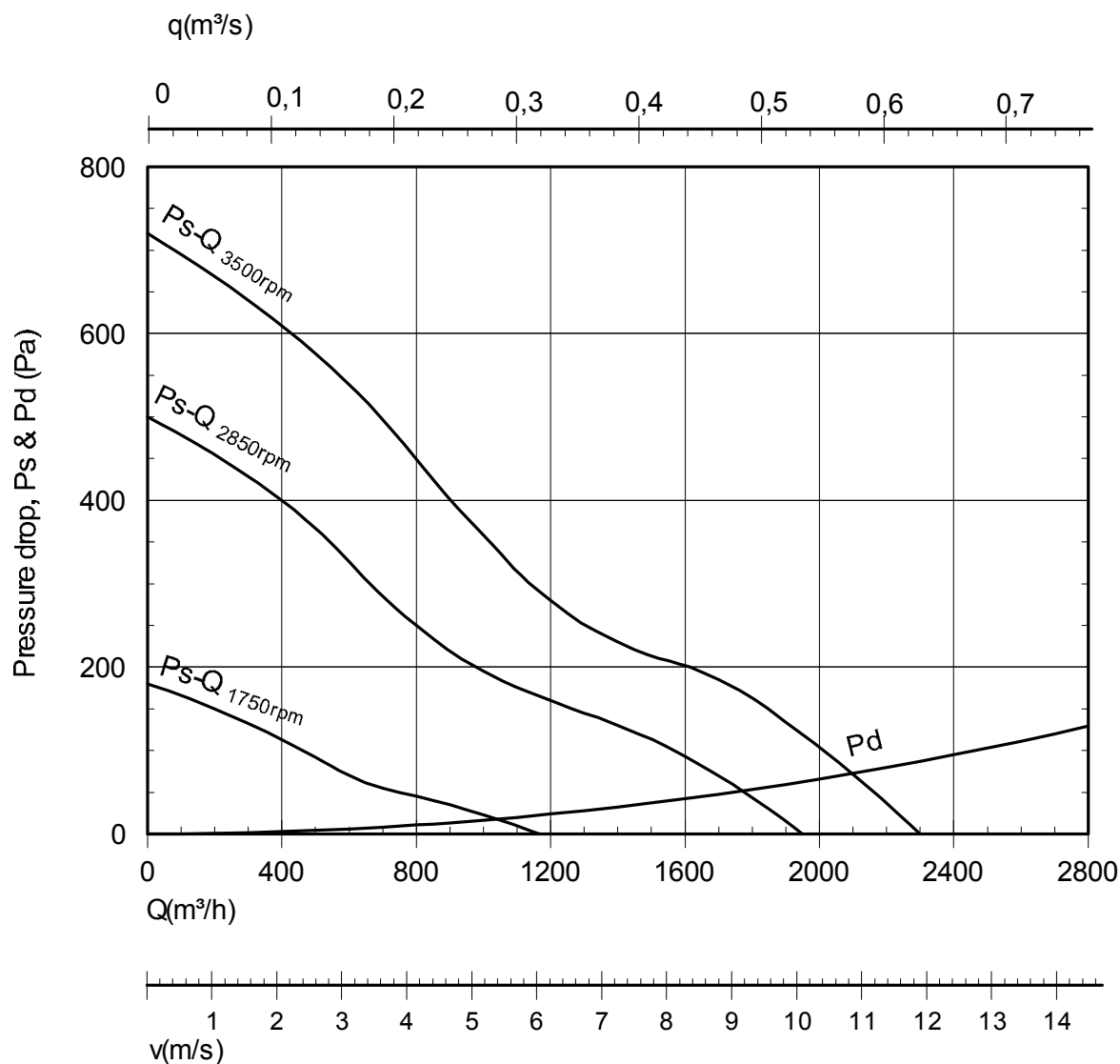




NYBORG AXIAL FLOW FAN PERFORMANCE DATA

**PPV/PUV
260**

Imp: D5/30-20



Nyborg9.prs/1



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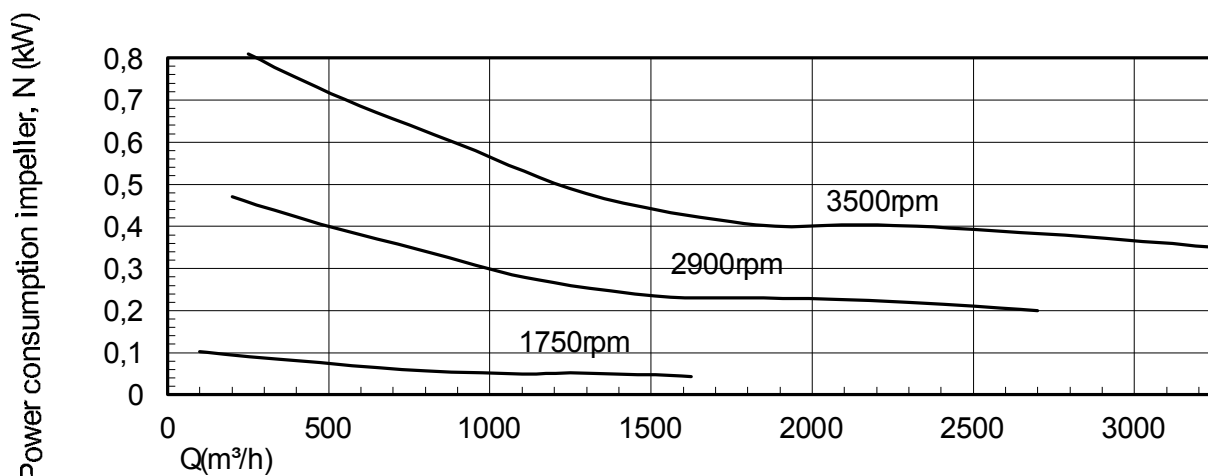
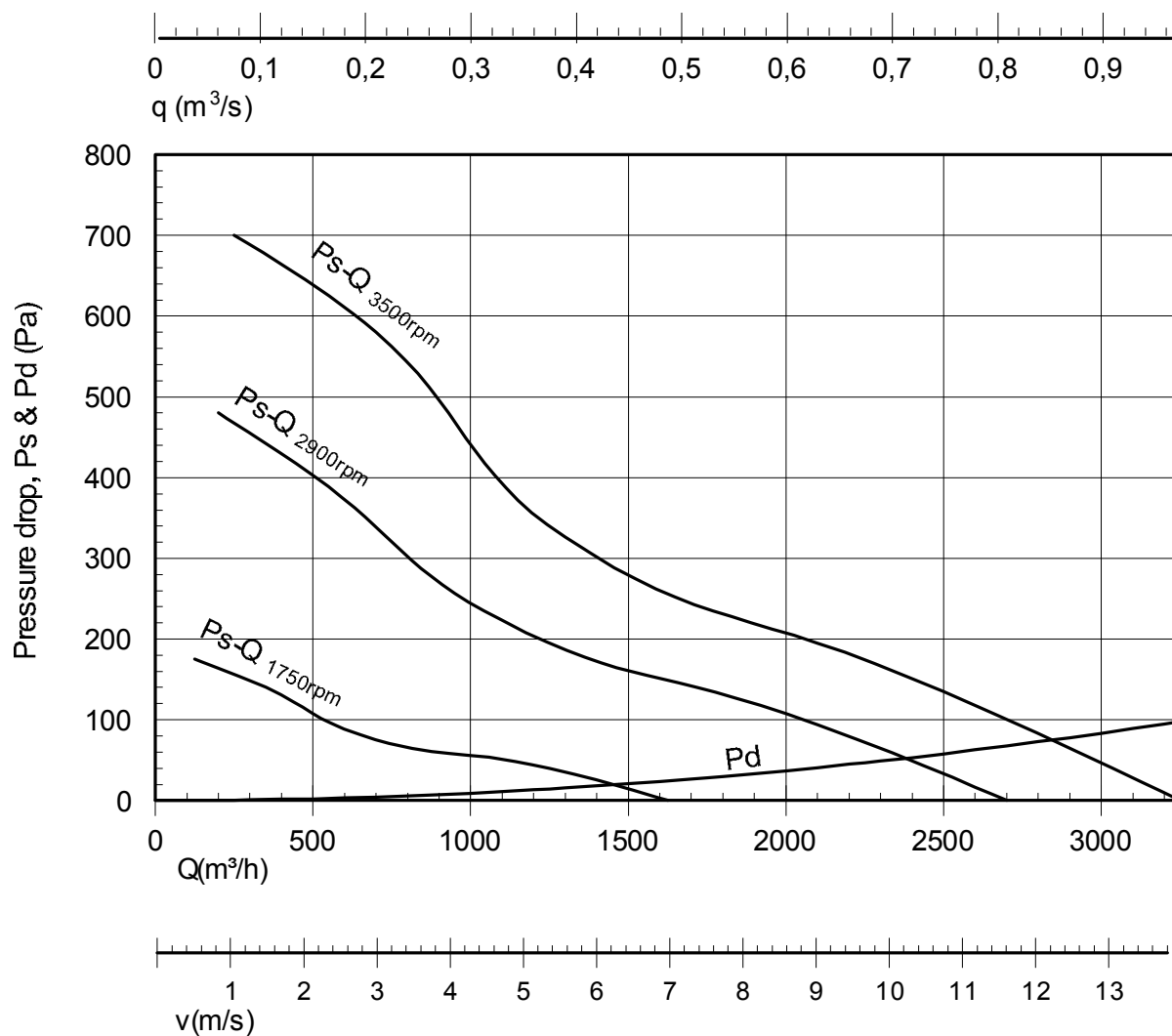
**PPV/PUV
260**



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

**PPV/PUV
300**

Imp: D5/30-20



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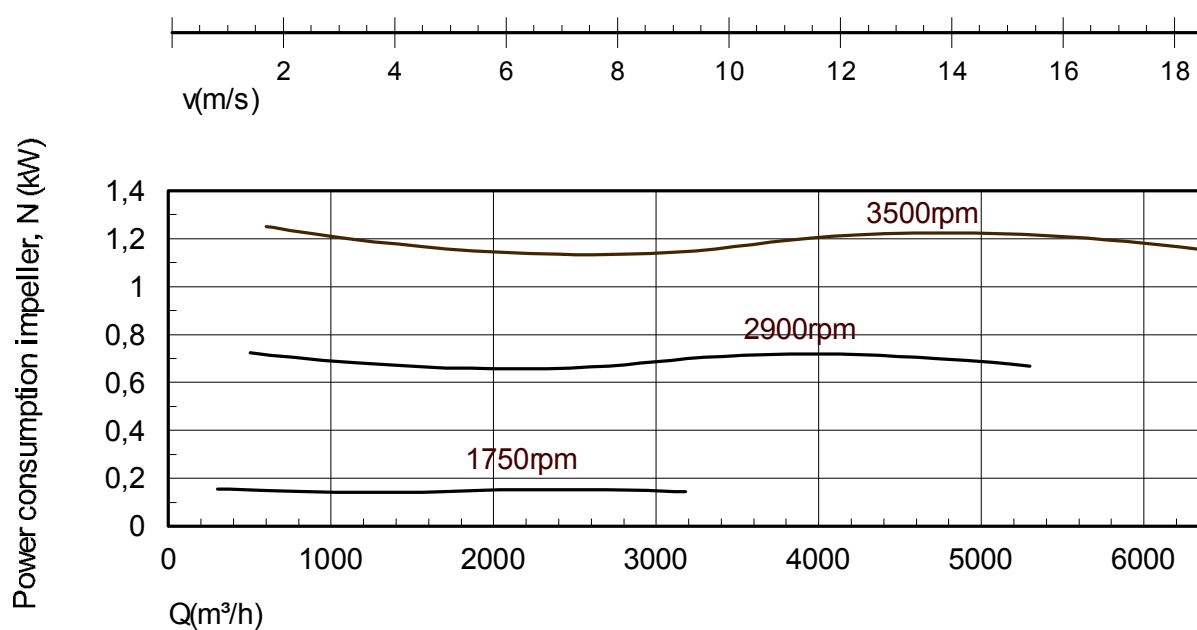
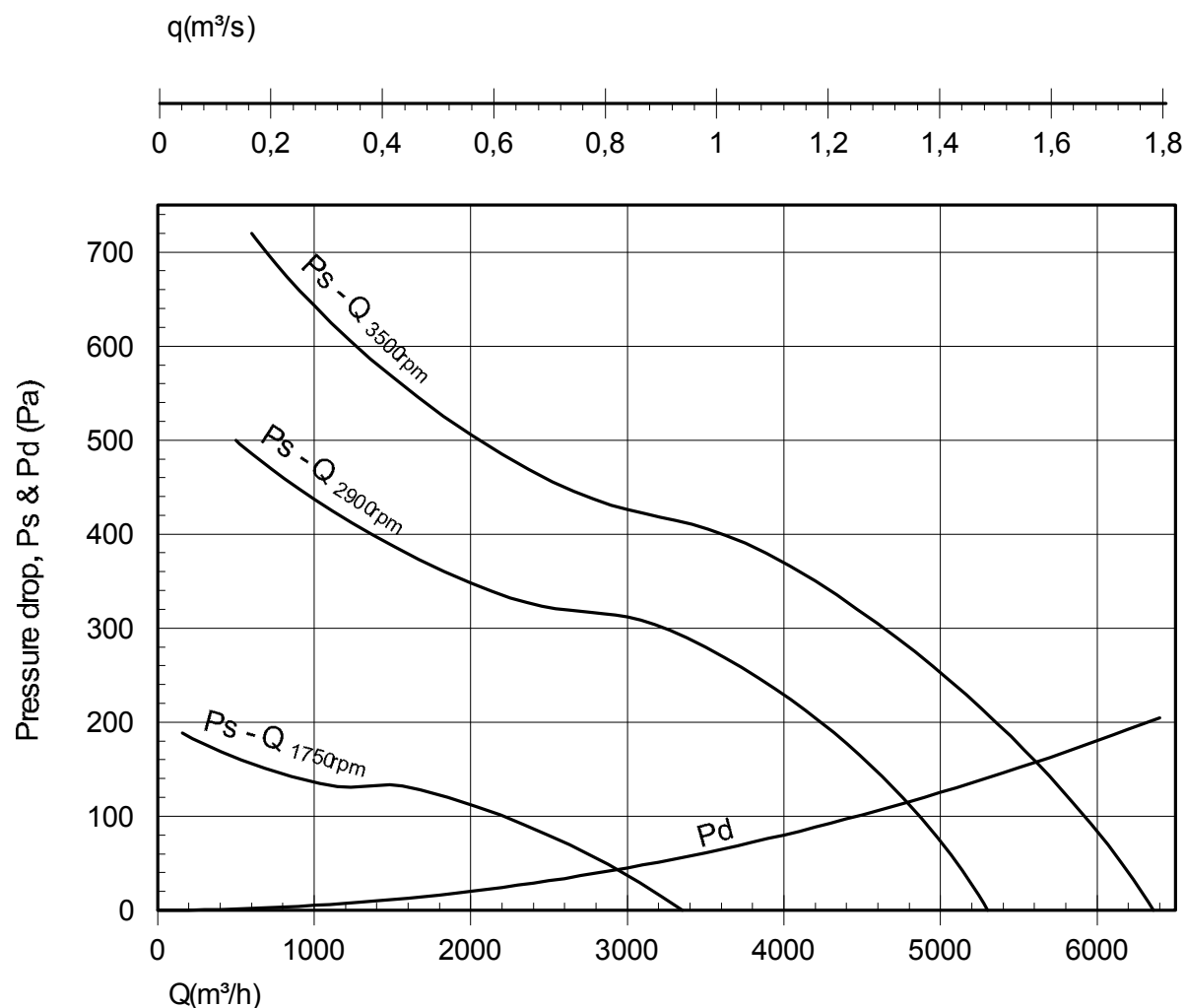
**PPV/PUV
300**



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

**PPV/PUV
350**

Imp: D5/30-20



Nyborg9.prs/3



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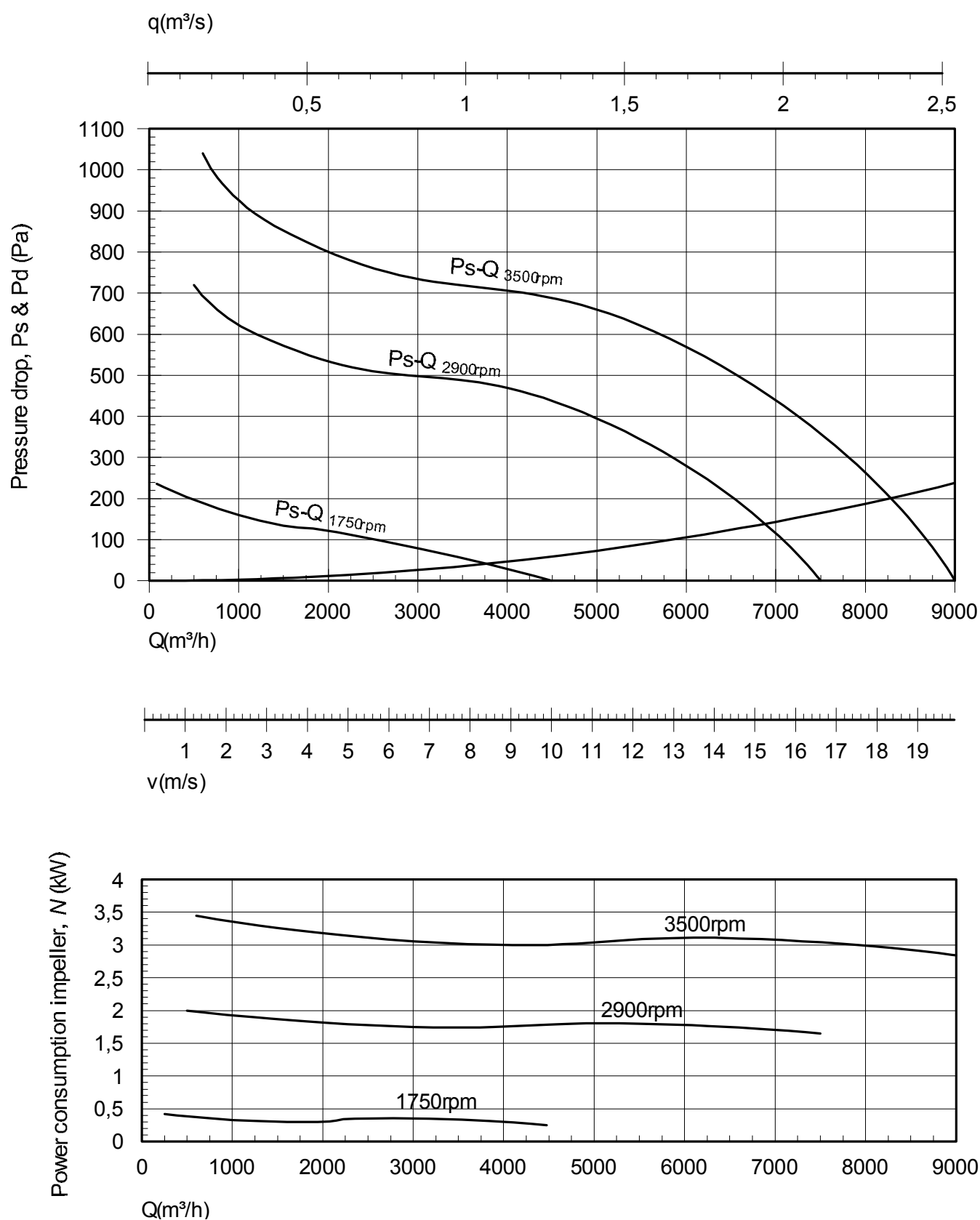
**PPV/PUV
350**



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

**PPV/PUV
400**

Imp: D5/30-20



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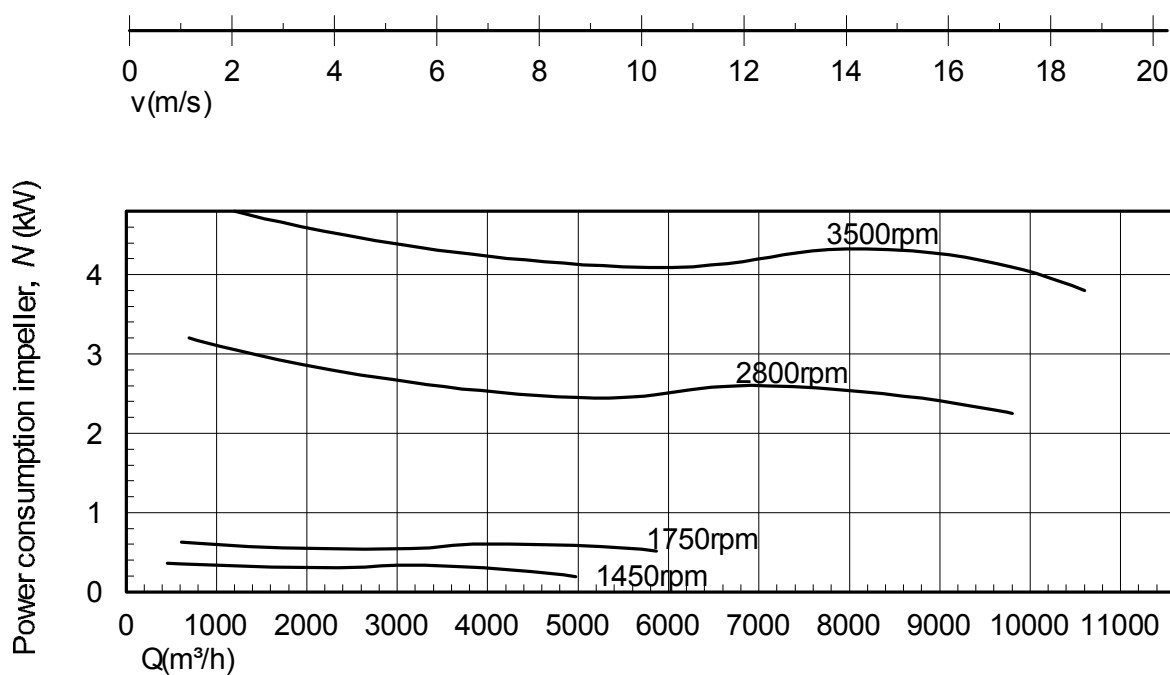
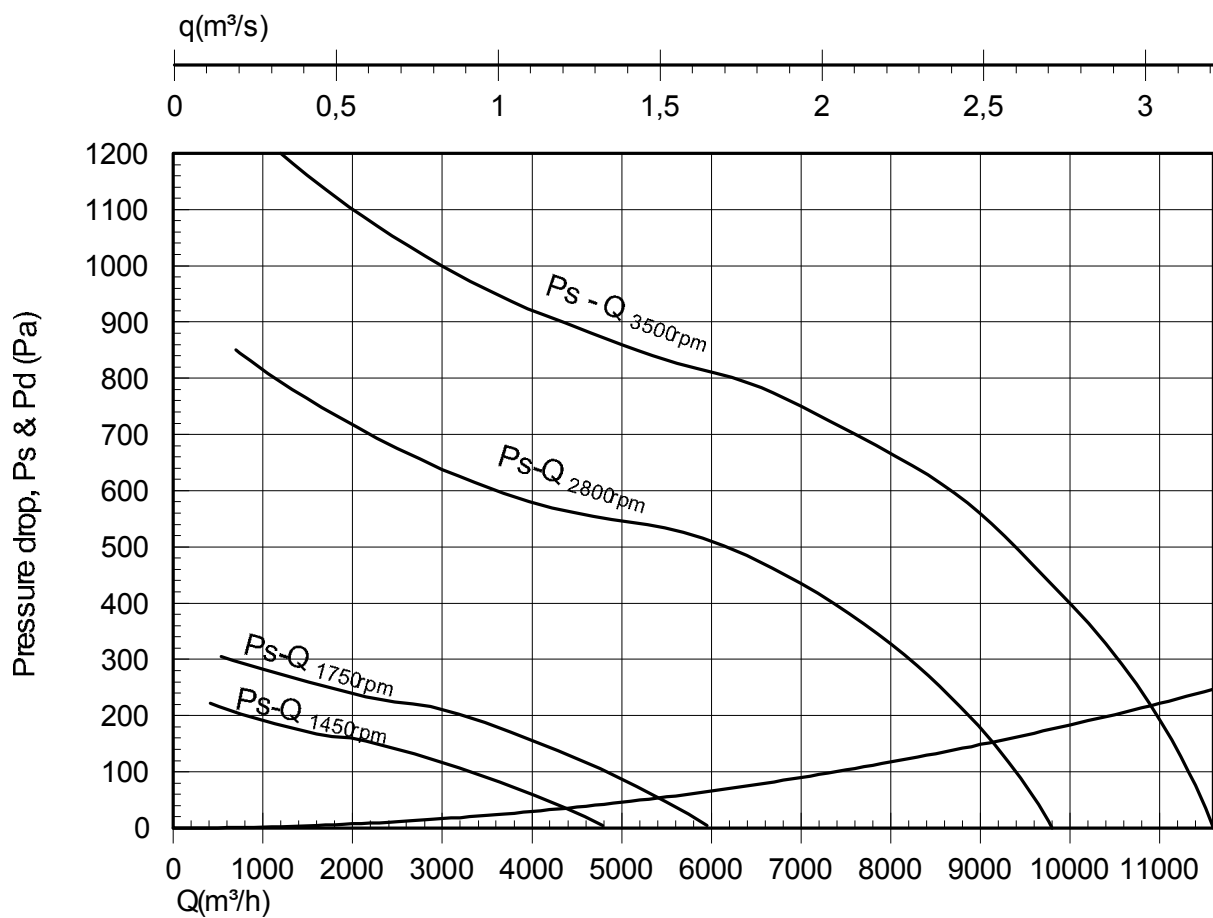
**PPV/PUV
400**



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

**PPV/PUV
450**

Imp: D7/30-20



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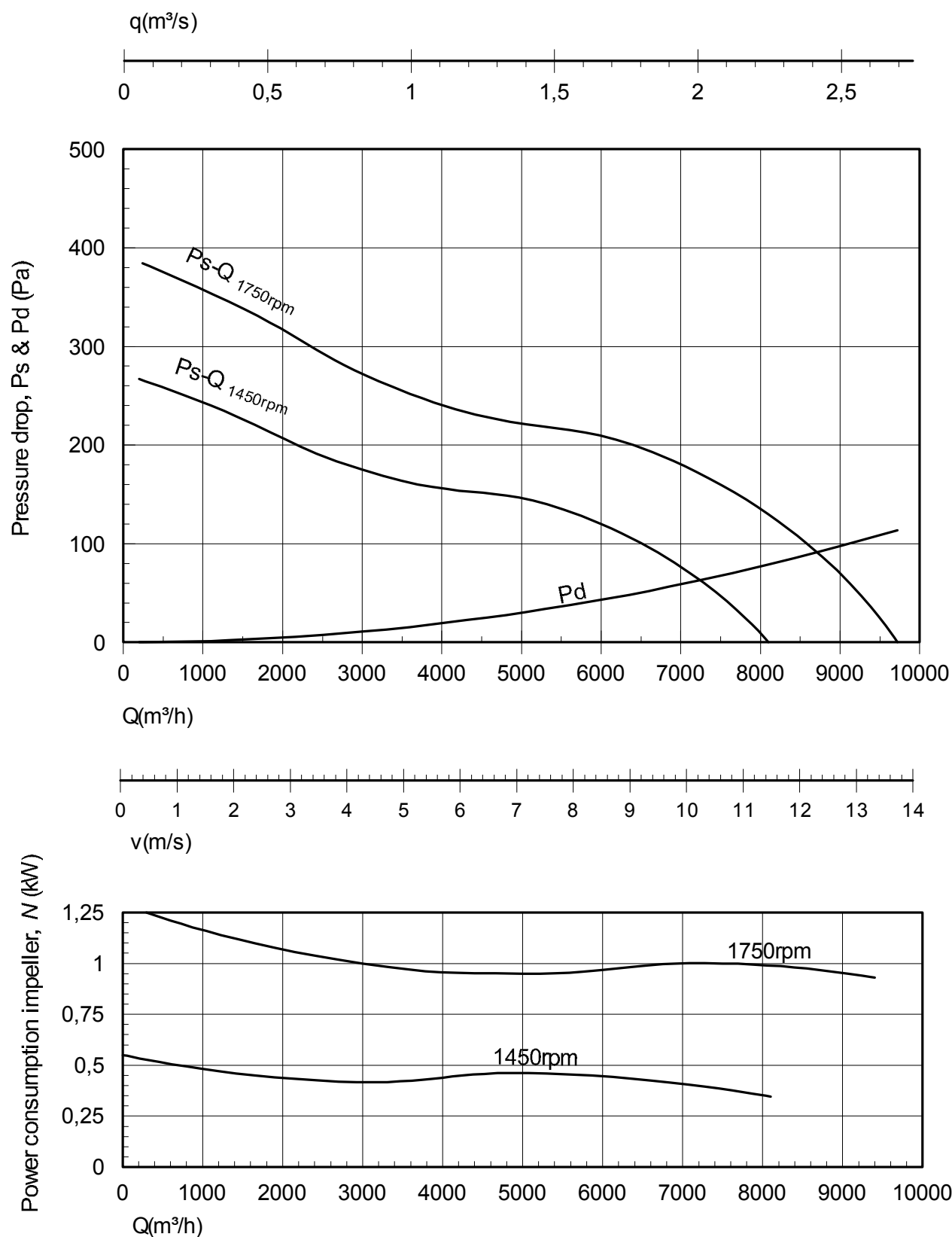
**PPV/PUV
450**



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

**PPV/PUV
500**

Imp: D8/30-20



NYBORG09-21



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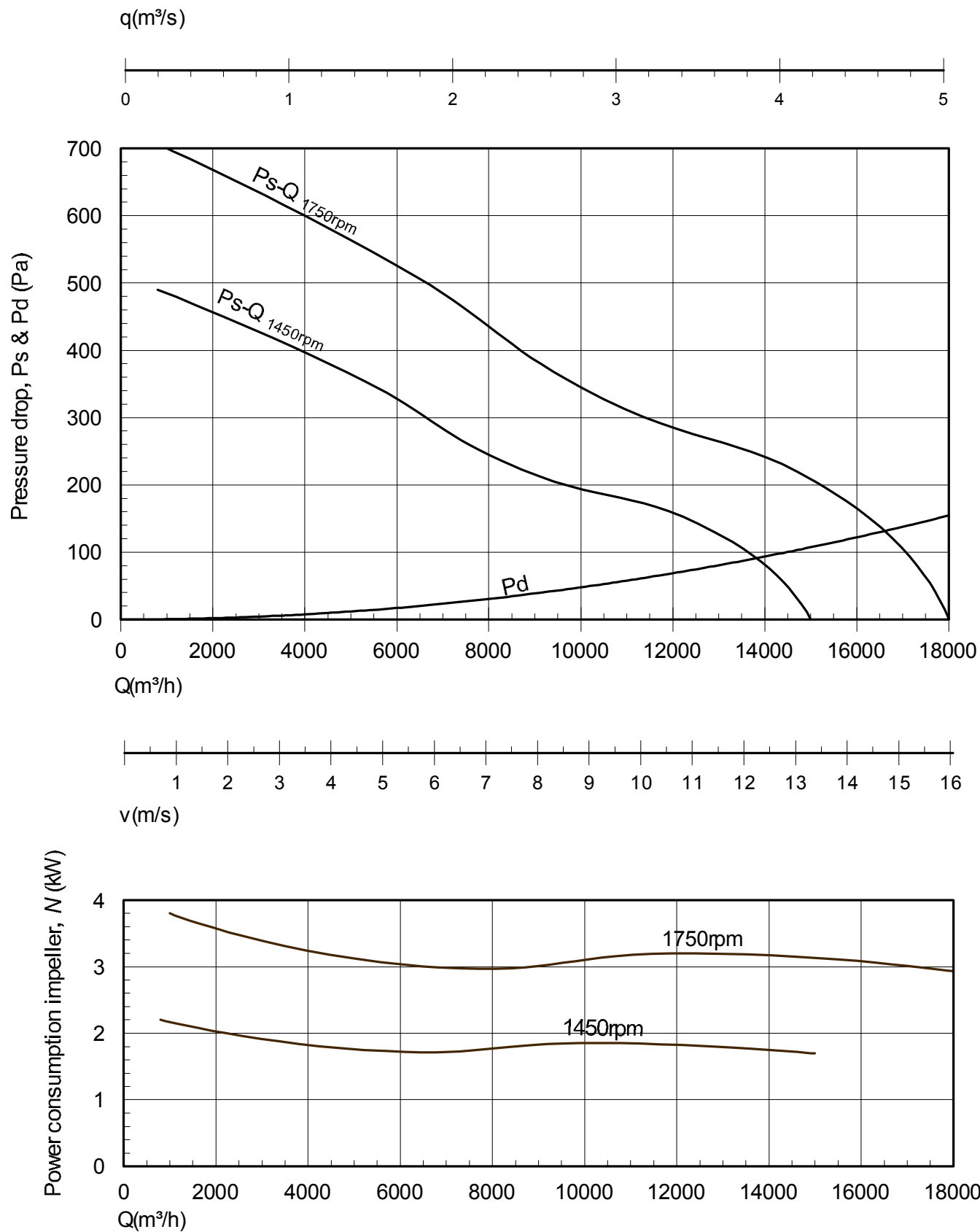
**PPV/PUV
500**



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

**PPV/PUV
630**

Imp: D8/30-20



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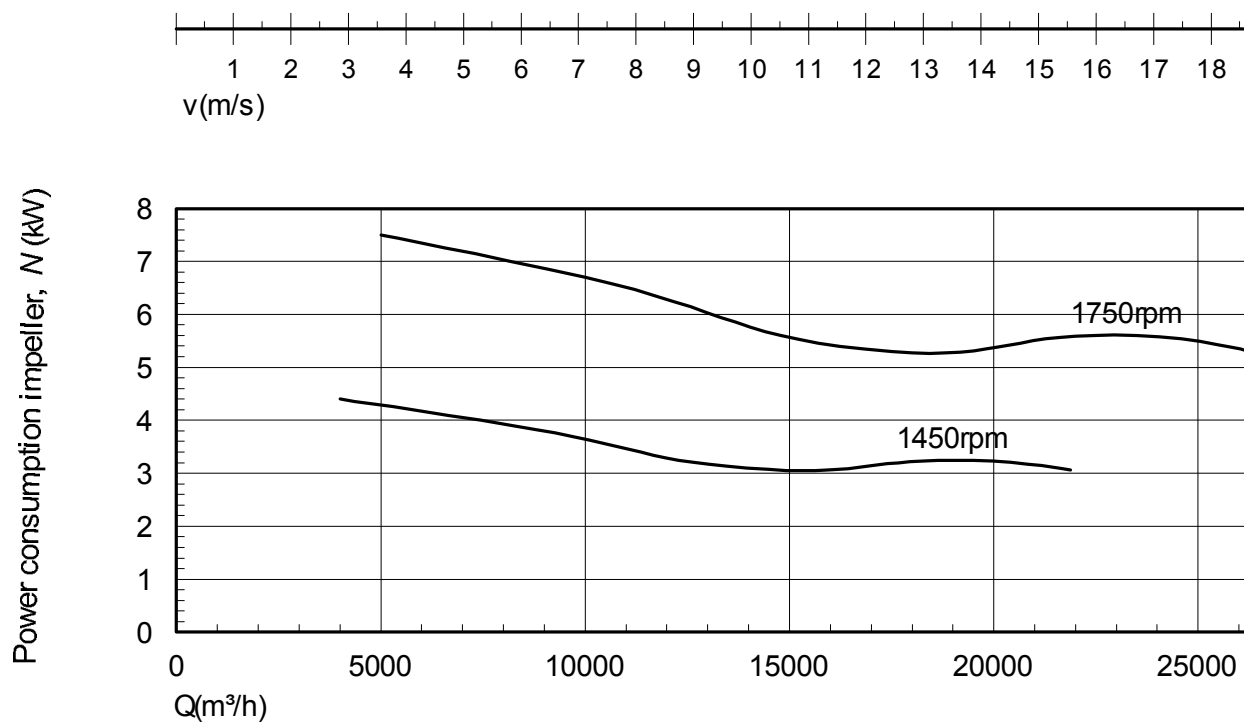
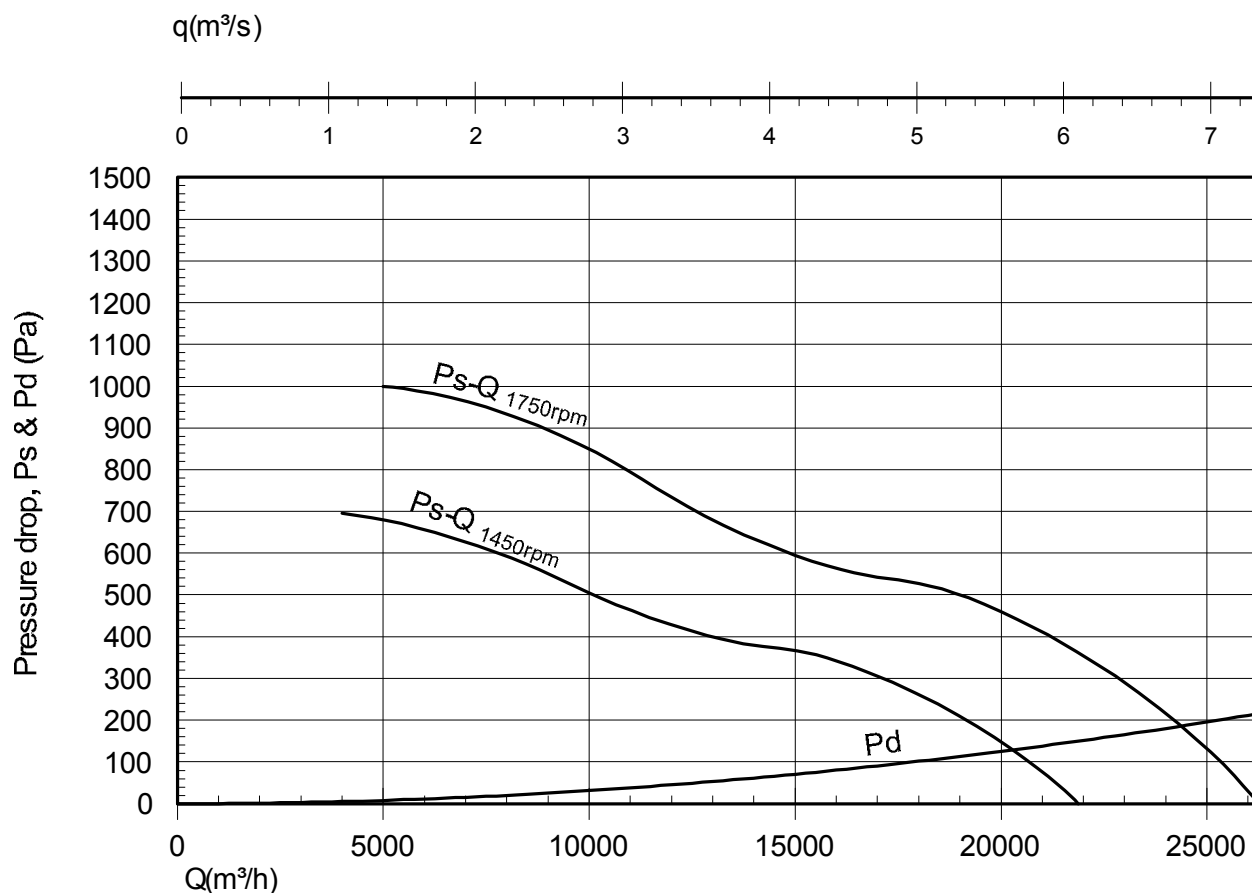
**PPV/PUV
630**



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

**PPV/PUV
700**

Imp: D8/30-20



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**PPV/PUV
700**



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

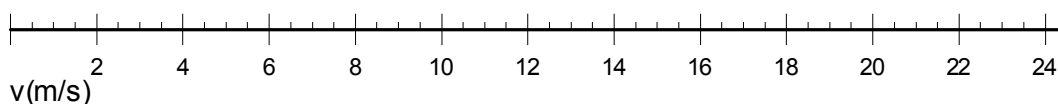
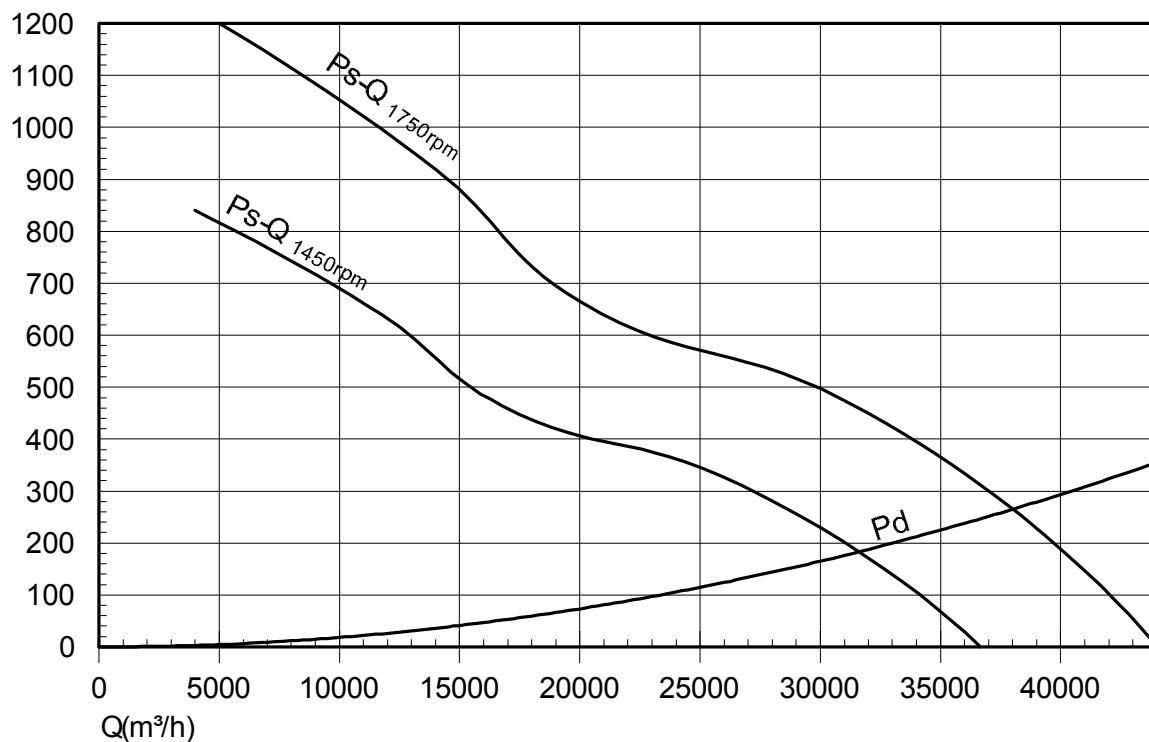
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Imp: D8/30-20

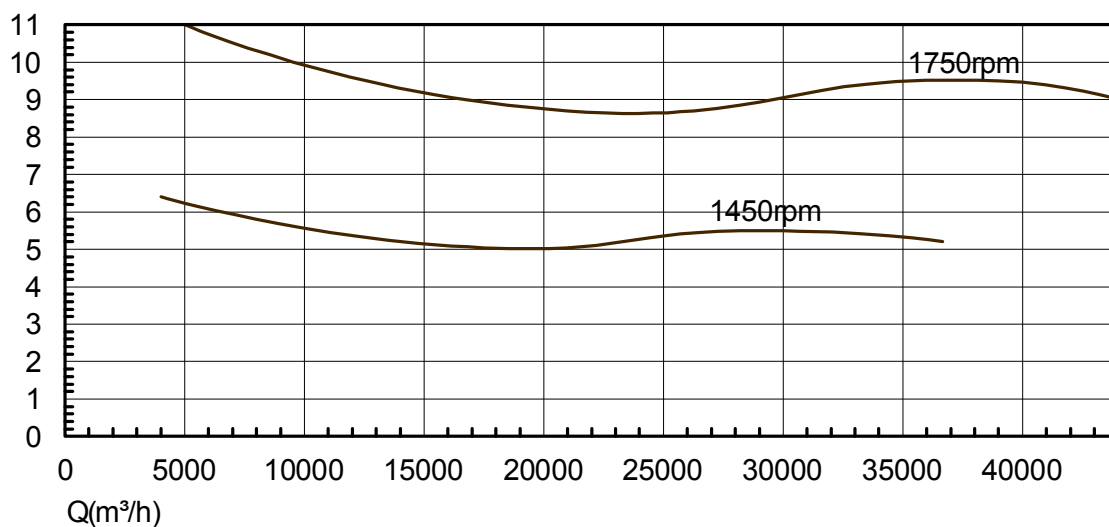
$q(m^3/s)$



Pressure drop, Ps & Pd (Pa)



Power consumption impeller, N (kW)



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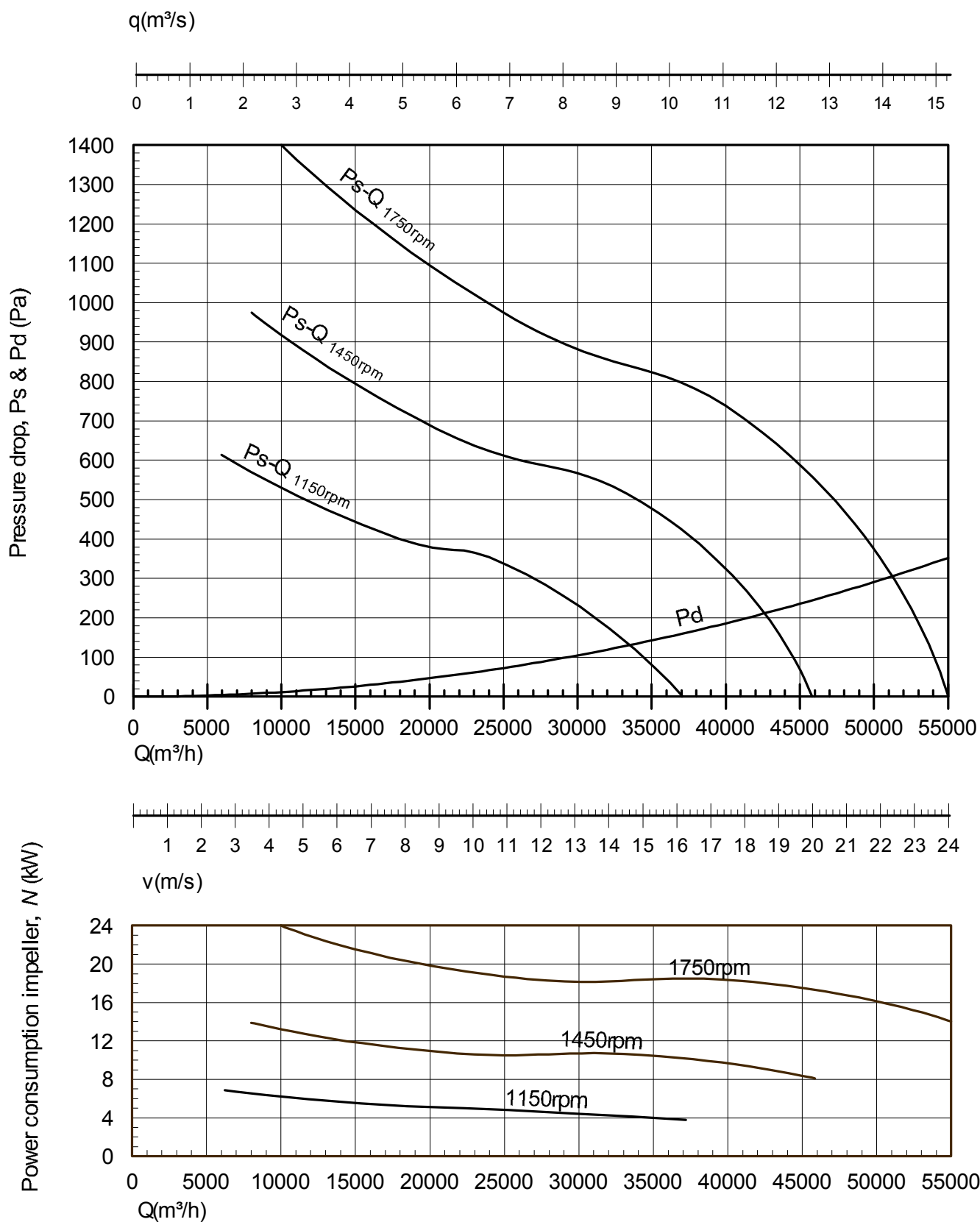
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**PPV/PUV
800**



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

**PPV/PUV
900**
Imp: D10/17-27



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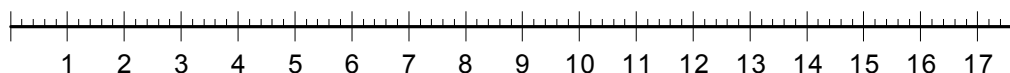
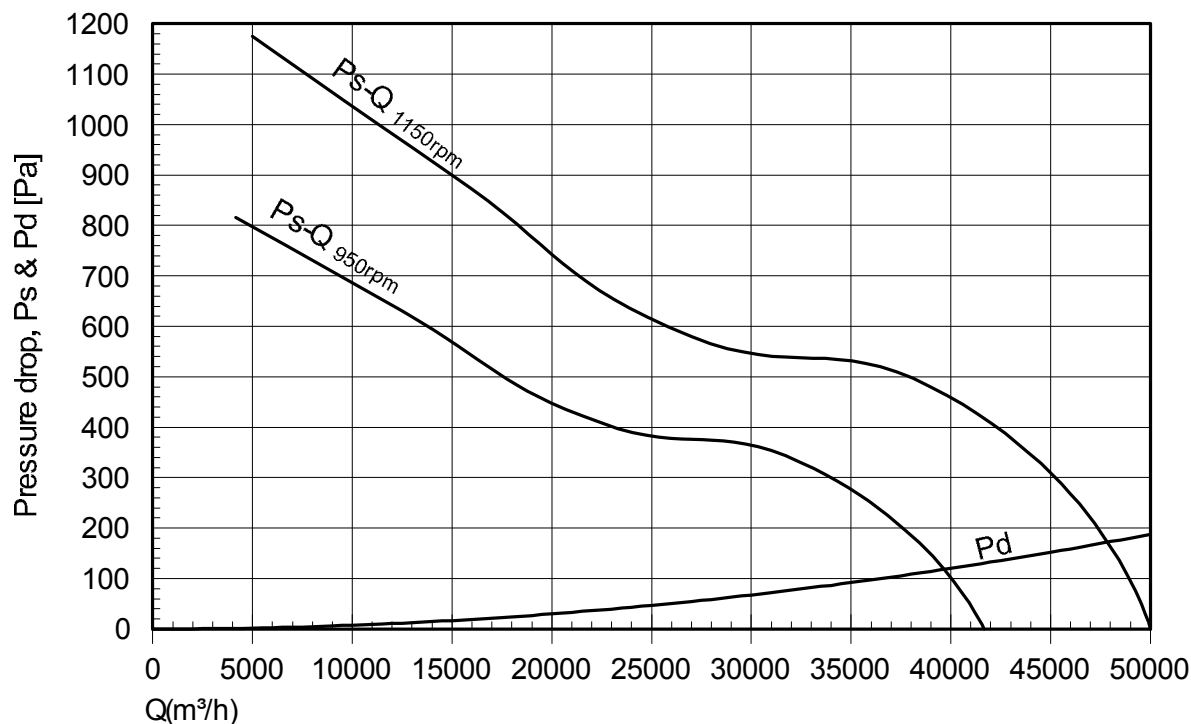
**PPV/PUV
900**



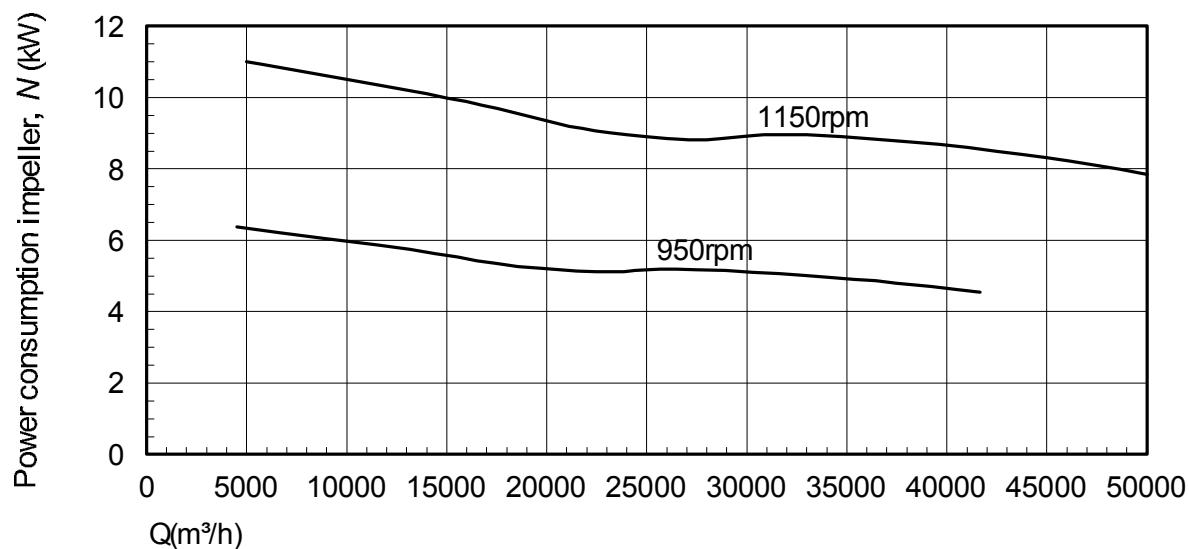
NYBORG AXIAL FLOW FAN PERFORMANCE DATA

**PPV/PUV
1000**
Imp: D10/20-30

$q(\text{m}^3/\text{s})$



$v \text{ [m/s]}$



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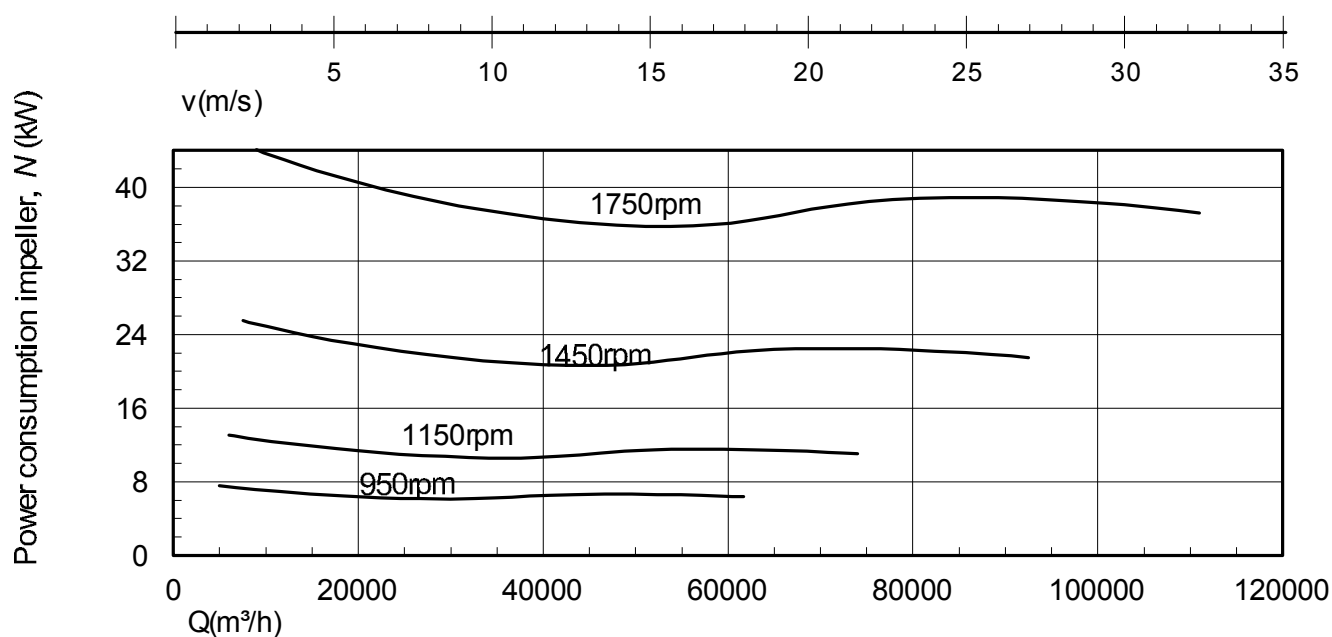
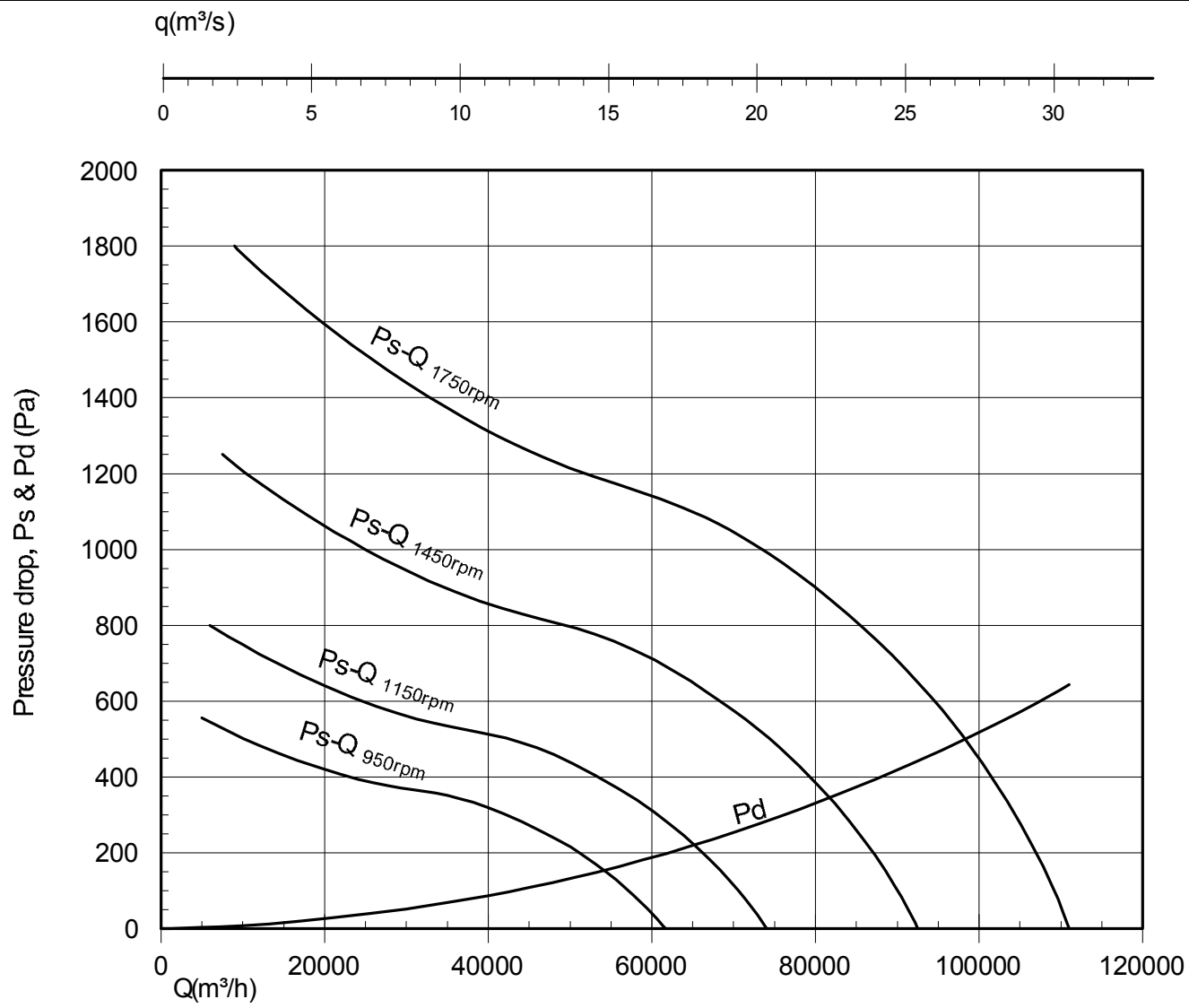
**PPV/PUV
1000**



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

**PPV/PUV
1100**

Imp: A7L / 16



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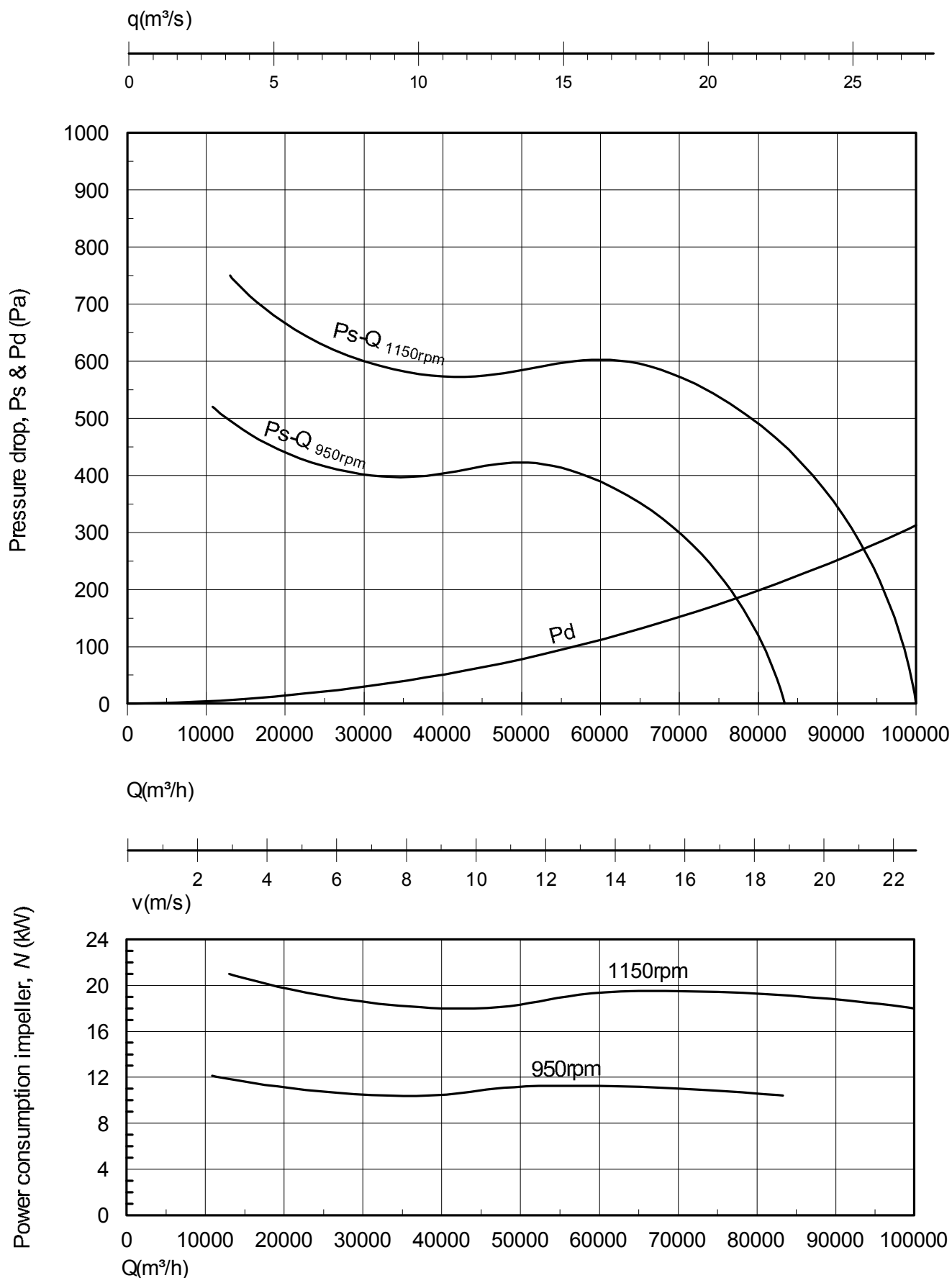
**PPV/PUV
1100**



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

**PPV/PUV
1250**

Imp: A9T / 21



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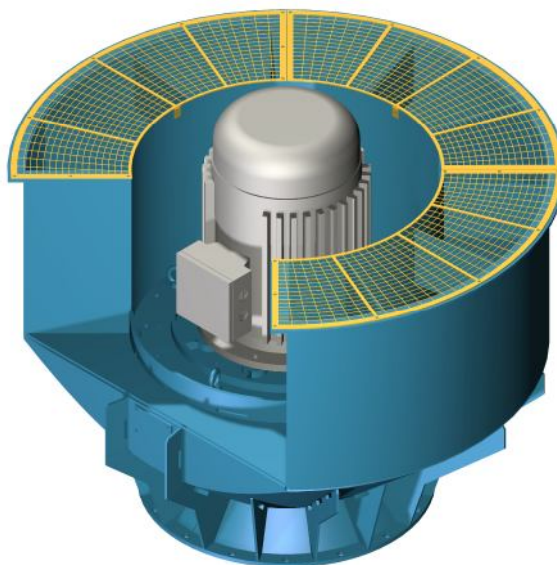
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**PPV/PUV
1250**



CENTRIFUGAL EXHAUST FAN FOR EXPLOSIVE FUMES

TYPE
SUV - 1RX



NYBORG CENTRIFUGAL EXHAUST FAN

Is designed primarily for ventilation of pump-rooms and other places where explosive fumes occur. The fan is spark proof and designed for air extraction. Long experience has contributed to a simple construction with only one rotating part in addition to the motor itself. The impeller is mounted directly to the motorshaft, thus making one unit with the motorflange, which can be lifted out for inspection.

Fan casing and motorflange are made of salt- and ammoniaresistive aluminium.

The impeller is made of salt- and ammoniaresistive aluminium. It is aerodynamically shaped and balanced.

The wire mesh guard is made of stainless steel.

Greasing-point for the gastight assembly is provided on the top of the motorflange.

The motor is flameproof, totally enclosed, natural cooled and designed for above deck mounting.

Test certificates are delivered with each motor. Conter flange of steel for duct connection.

EQUIPMENT

Two spare sealing-rings for the gastight assembly, mounting- and demounting tools for the impeller and an instruction with data. The equipment is packed in a separate box.

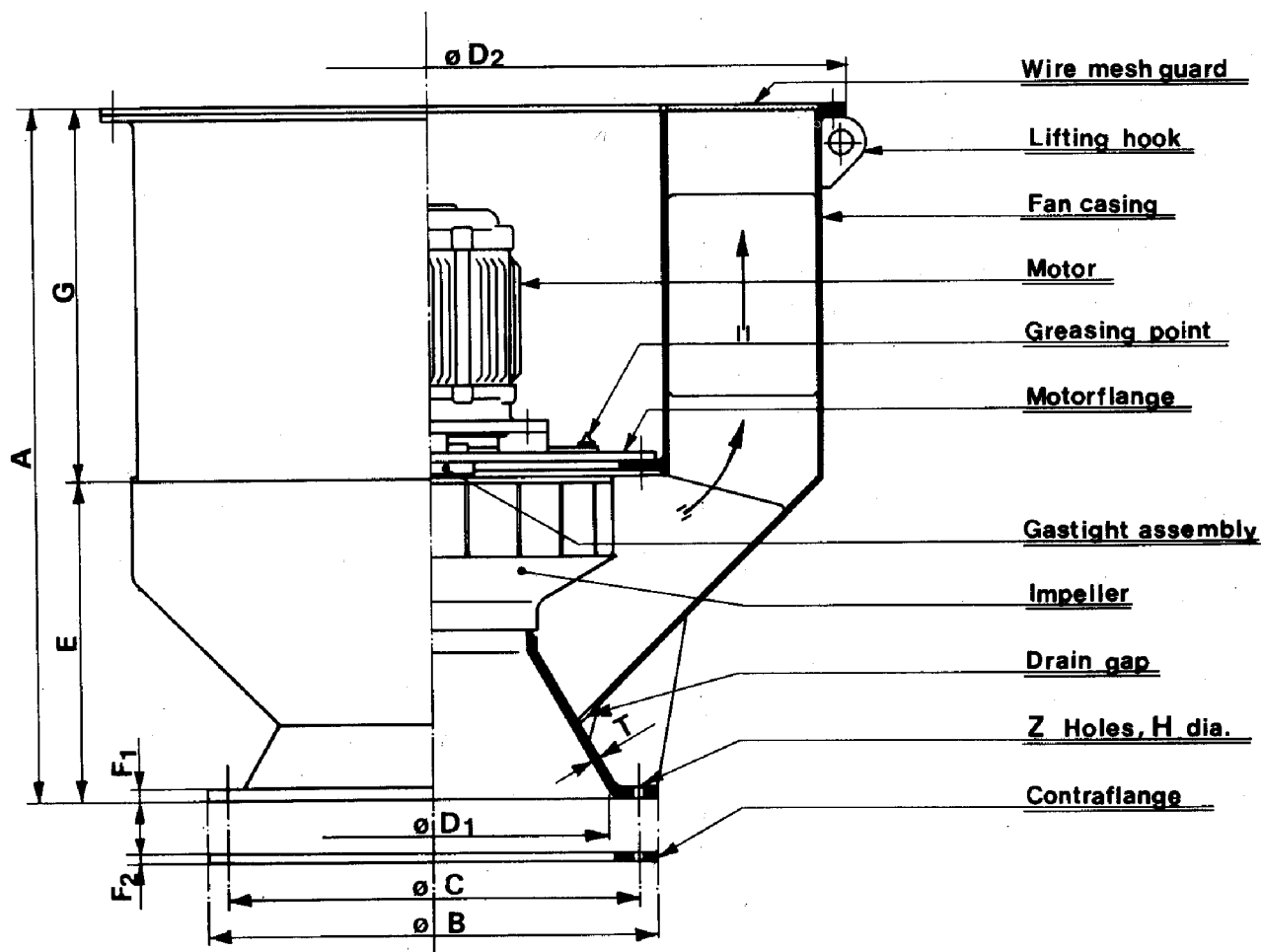
Size No	A	B	C	D1	D2	E	F1	F2	G	Z	H	T	Weight less motor
200	560	270	242	200	550	220	10	8	340	8	12	5	
250	610	330	292	250	600	270	10	8	340	8	12	5	
300	610	390	360	300	680	270	10	10	340	8	14	6	
350	650	437	405	350	810	310	10	10	340	8	14	6	
400	805	488	460	400	860	380	10	10	425	12	14	6	
450	910	558	510	450	960	400	15	12	510	12	14	6	
500	890	609	560	500	1010	380	15	12	510	12	14	6	
550	910	660	630	550	1160	400	15	12	510	12	14	6	

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Dimension drawing

SUV – 1RX



Size No	A	B	ØC	ØD1	ØD2	E	F1	F2	G	Z	H	T	Weight less motor
200	560	270	310	200	550	220	10	8	340	8	12	5	
250	610	330	292	250	600	270	10	8	340	8	12	5	
300	610	390	360	300	680	270	10	10	340	8	14	6	
350	650	437	405	350	810	310	10	10	340	8	14	6	
400	805	488	460	400	860	380	10	10	425	12	14	6	
450	910	558	510	450	960	400	15	12	510	12	14	6	
500	890	609	560	500	1010	380	15	12	510	12	14	6	
550	910	660	630	550	1160	400	15	12	510	12	14	6	
630	1050	740	698	630	1250	410	15	12	640	16	14	6	
800	1180	912	870	800	1670	540	15	12	640	16	19	10	

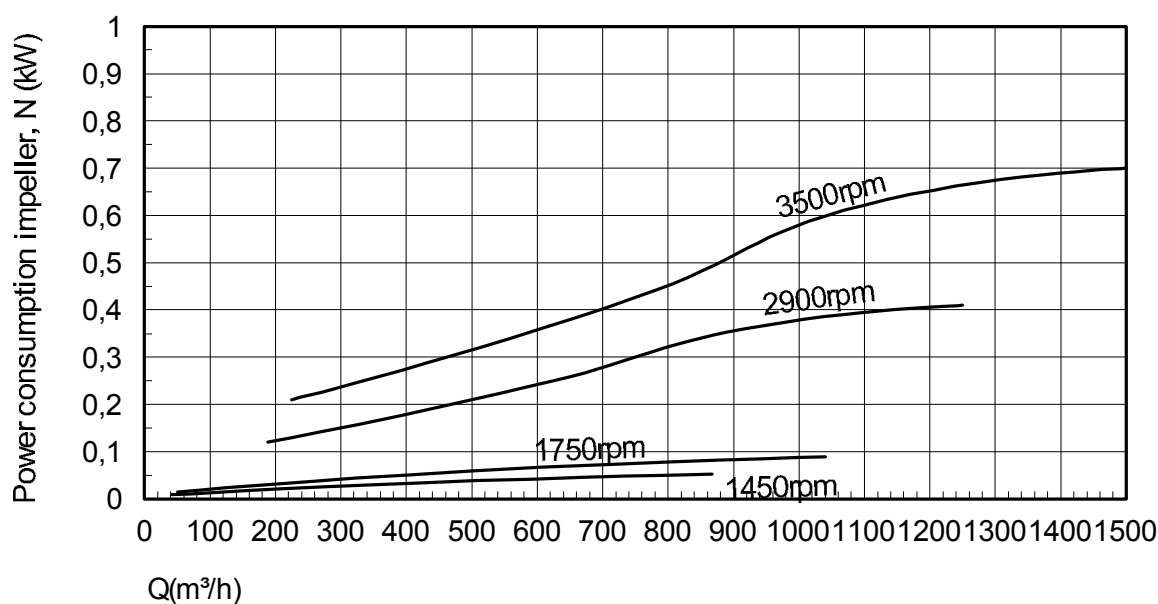
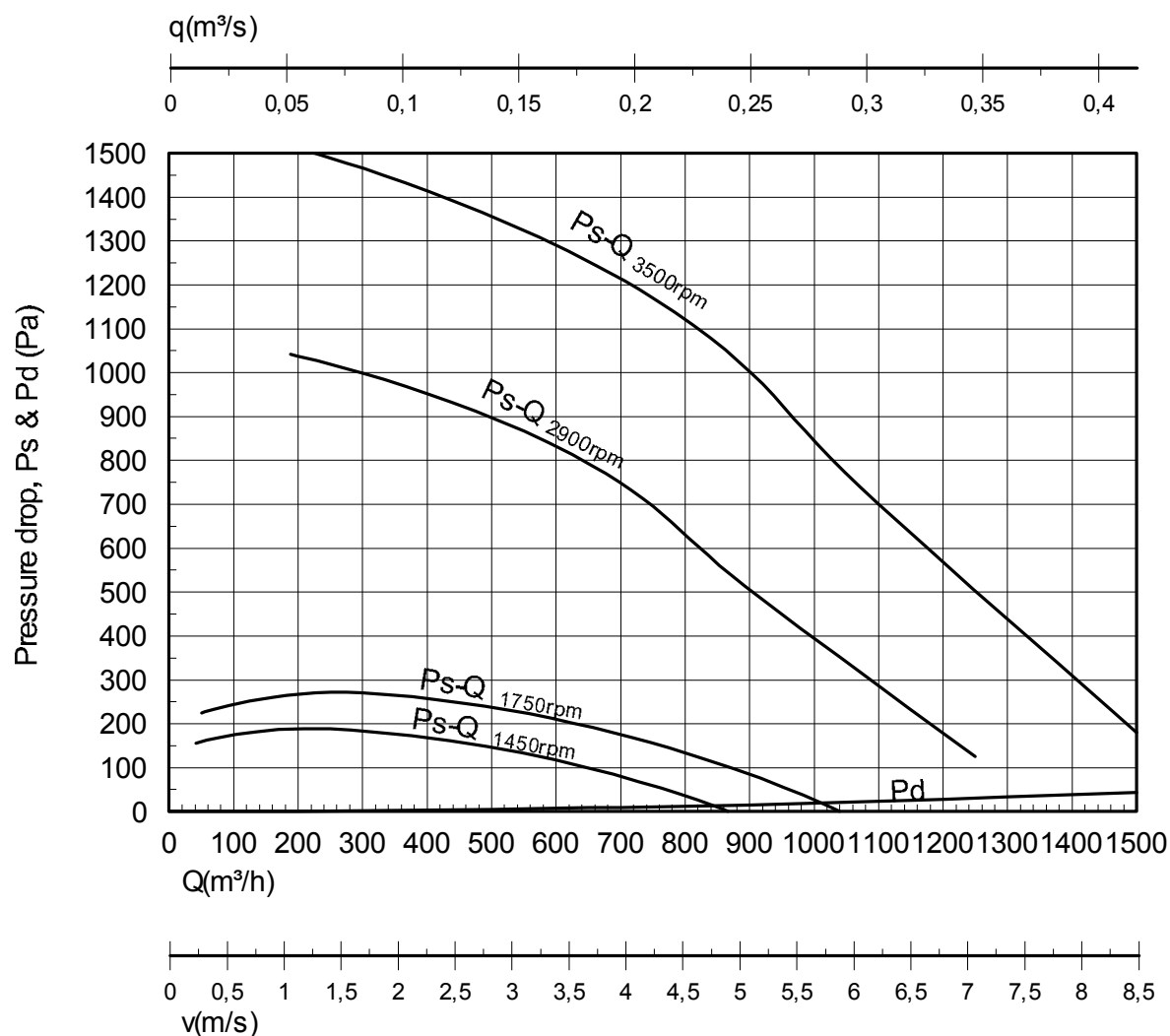




CENTRIFUGAL EXHAUST FAN PERFORMANCE DATA

SUV 250 B

Imp: 260x82



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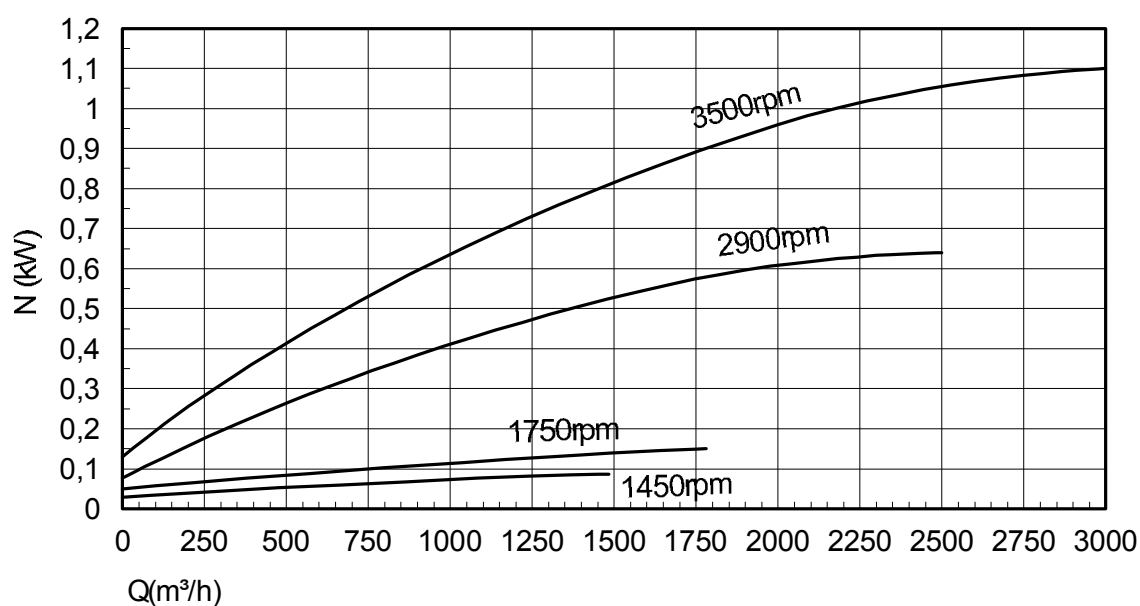
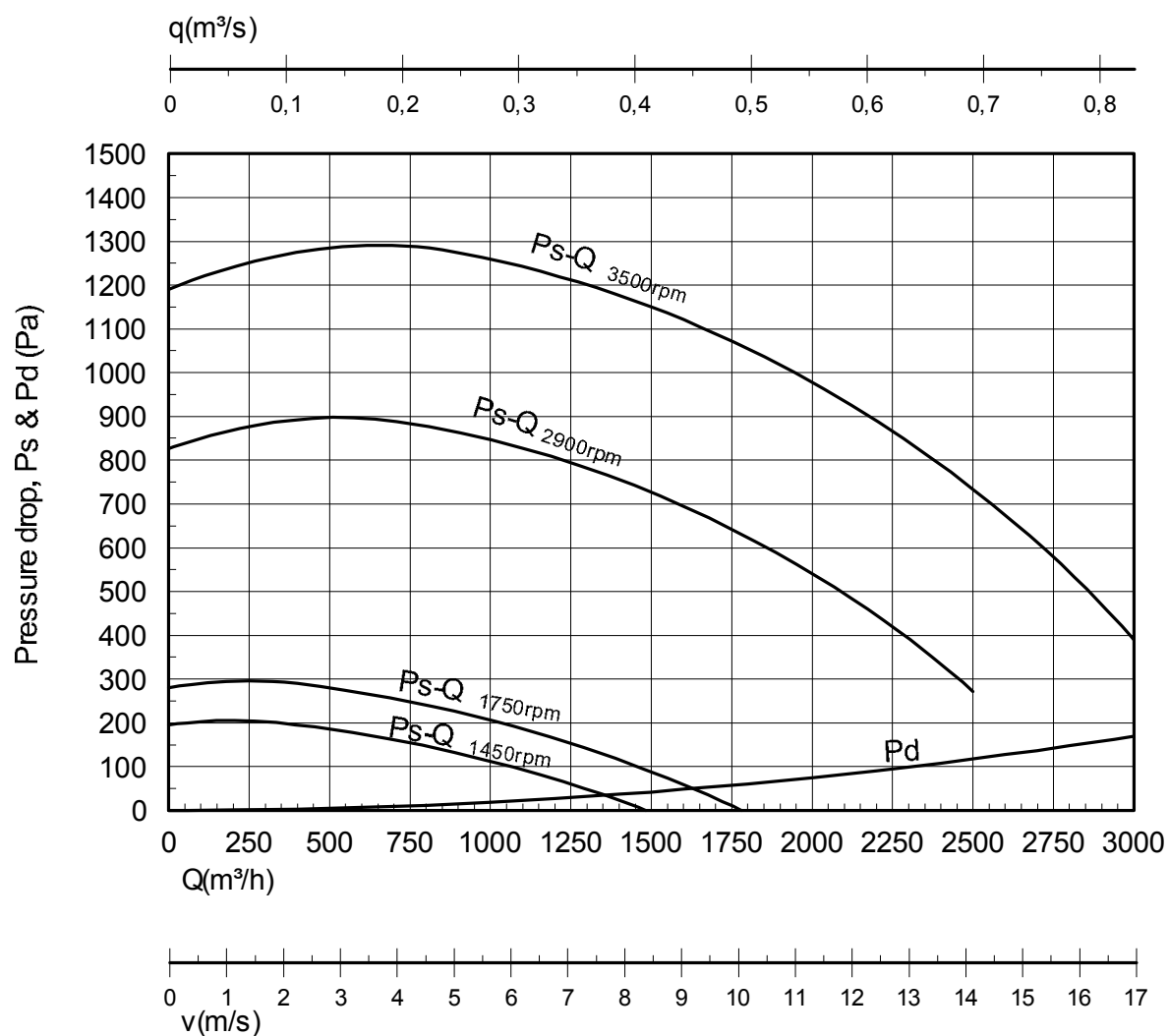
SUV 250 B



CENTRIFUGAL EXHAUST FAN PERFORMANCE DATA

SUV 250 Z

Imp: 250x70



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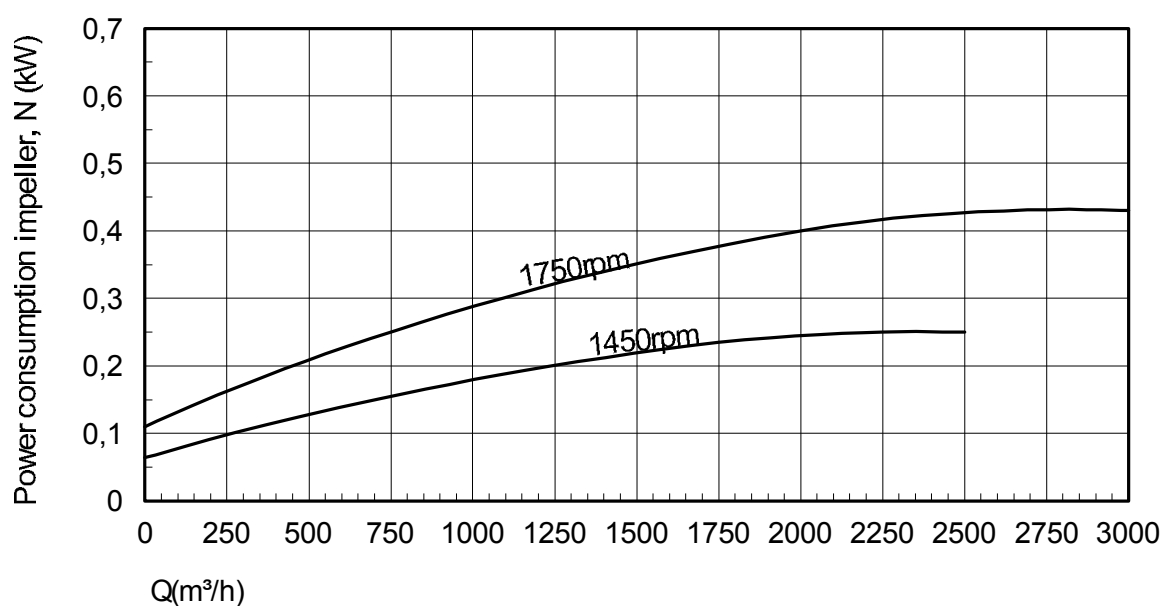
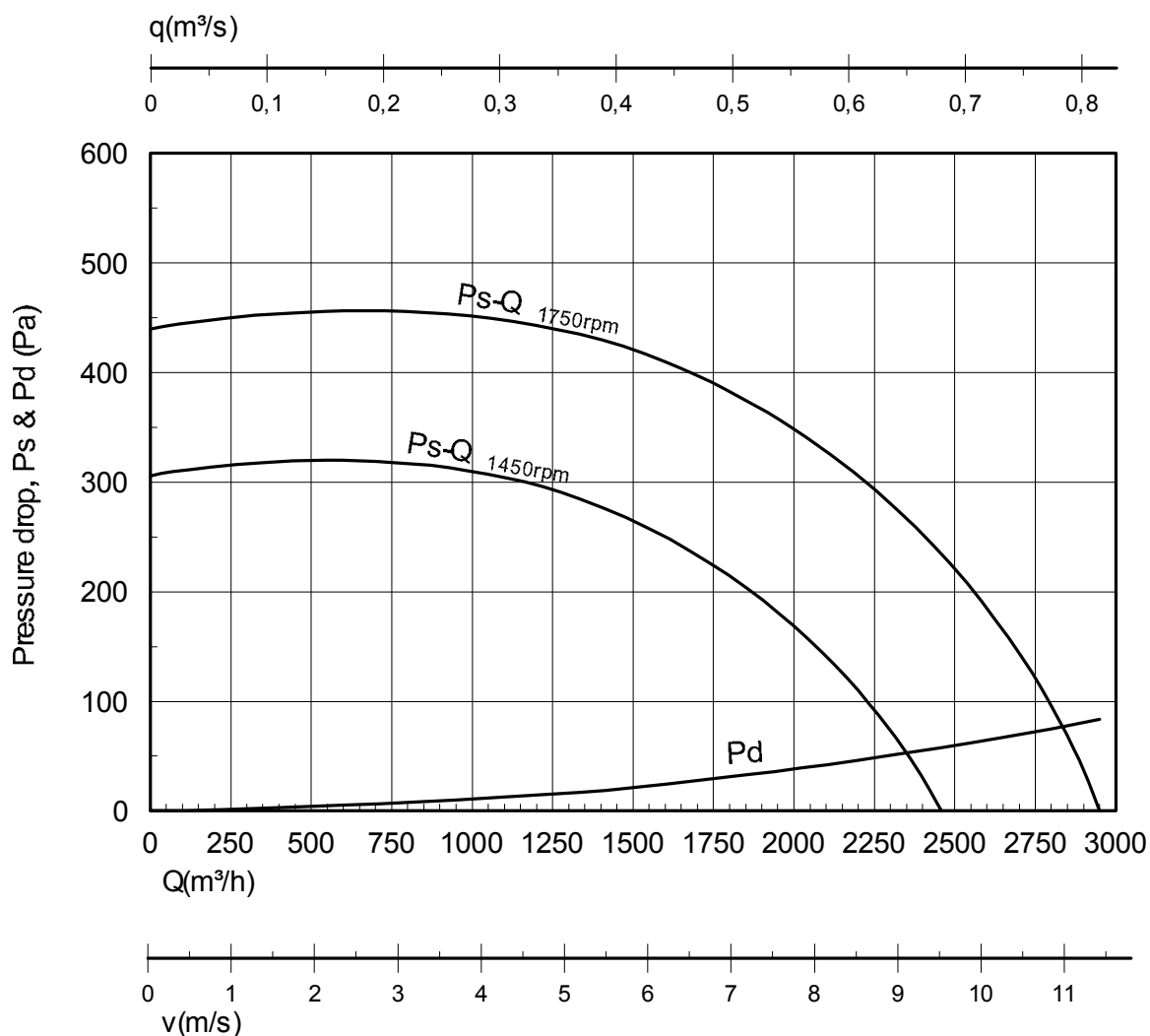
SUV 250 Z



CENTRIFUGAL EXHAUST FAN PERFORMANCE DATA

SUV 300 Z

Imp: 310x70



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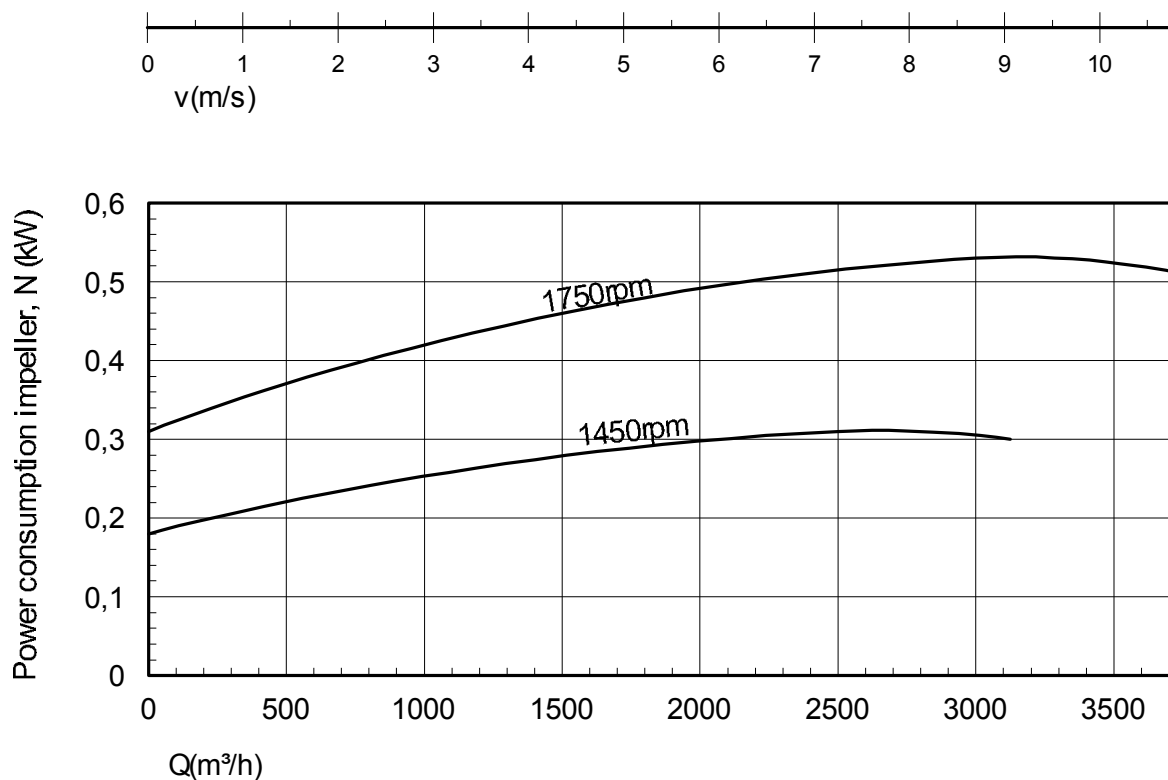
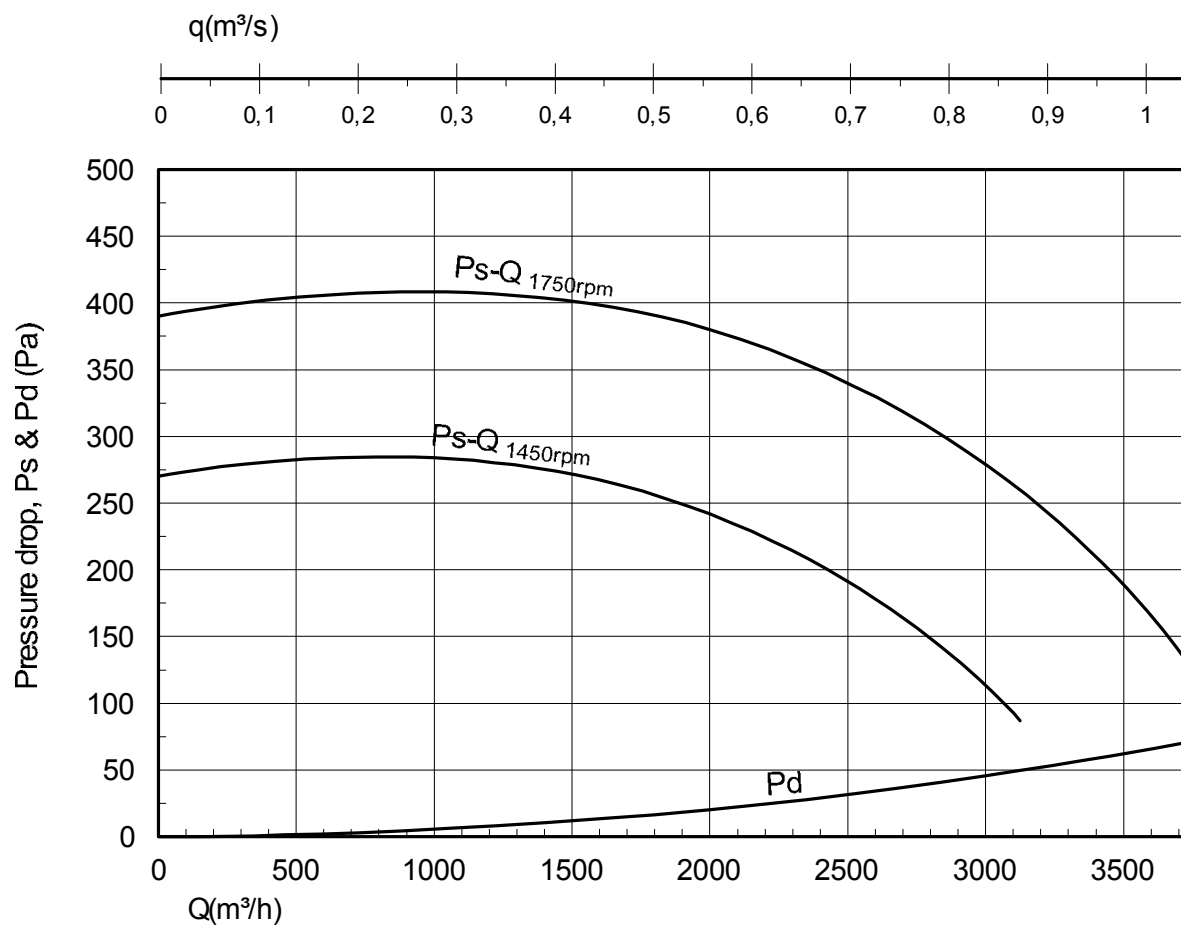
SUV 300 Z



CENTRIFUGAL EXHAUST FAN PERFORMANCE DATA

SUV 350 B

Imp: 350x93



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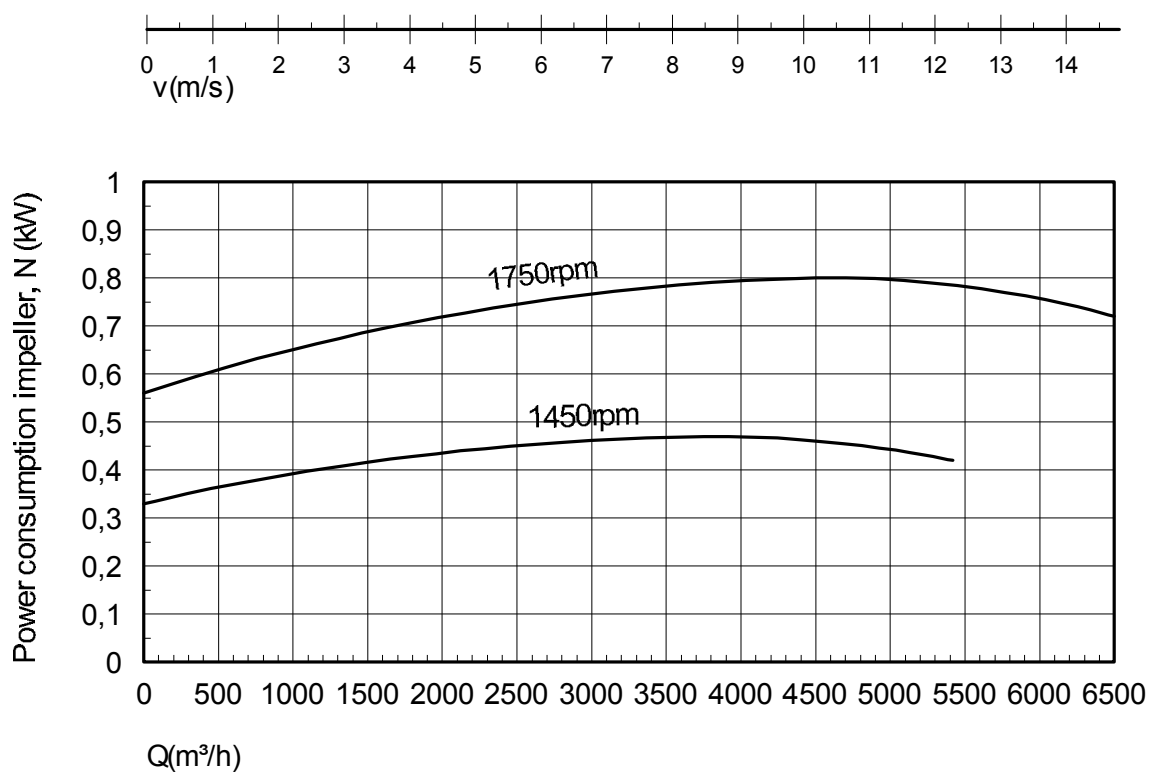
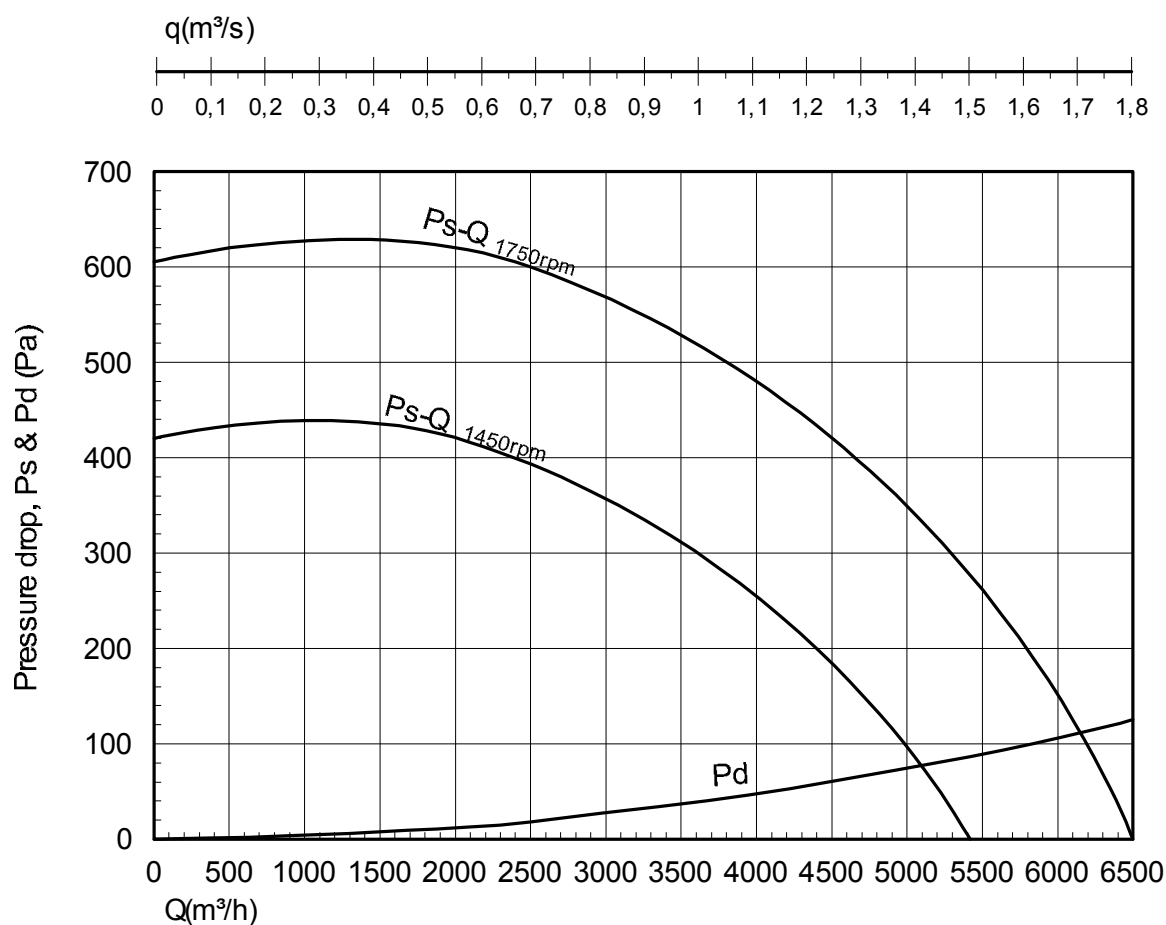
SUV 350 B



CENTRIFUGAL EXHAUST FAN PERFORMANCE DATA

SUV 400 B

Imp: 400x105



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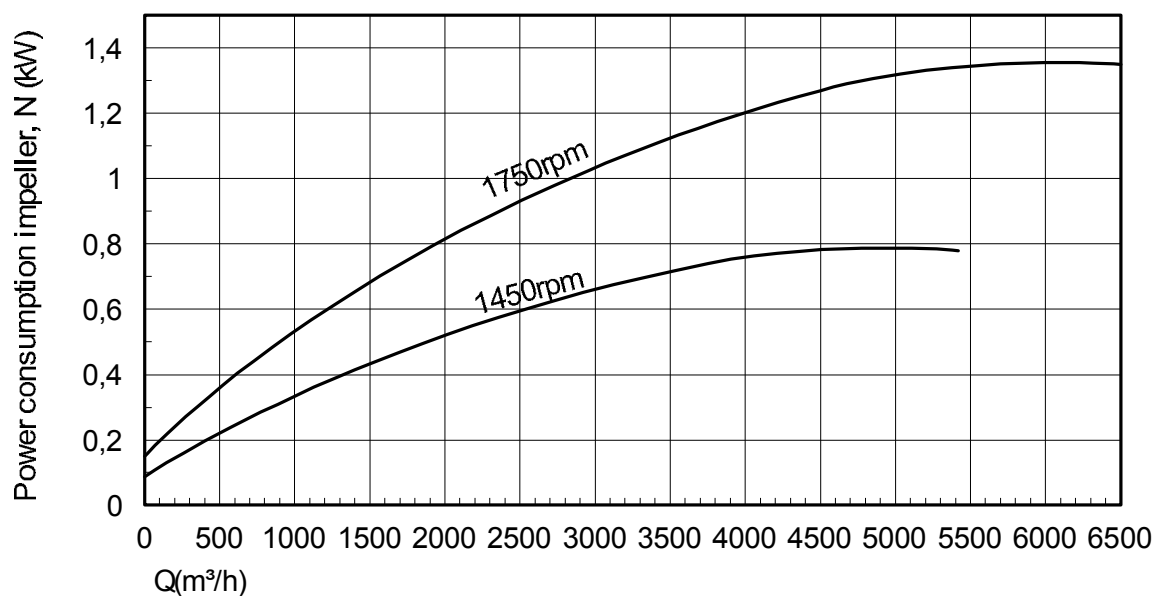
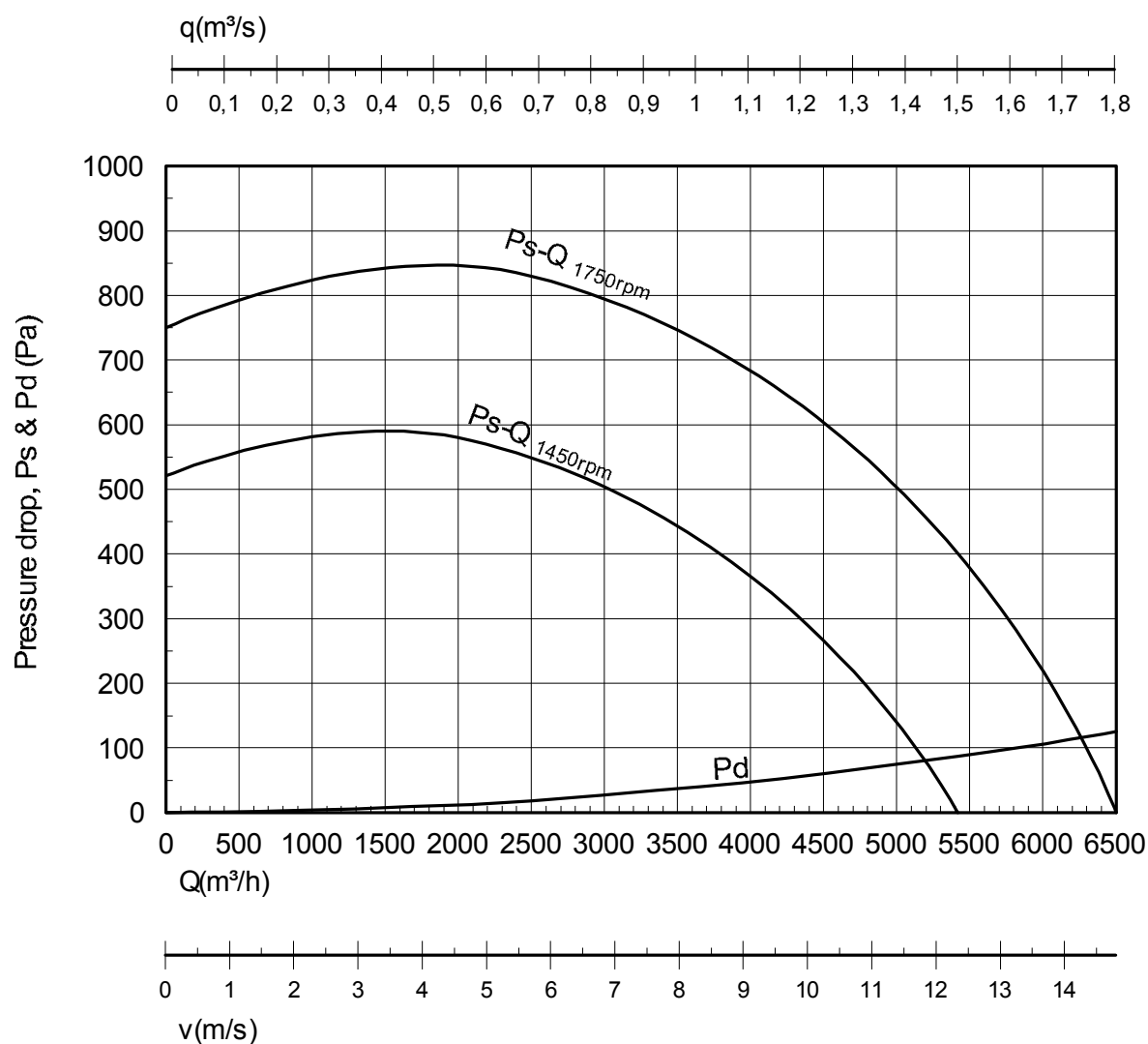
SUV 400 B



CENTRIFUGAL EXHAUST FAN PERFORMANCE DATA

SUV 400 Z

Imp: Z12x400x105



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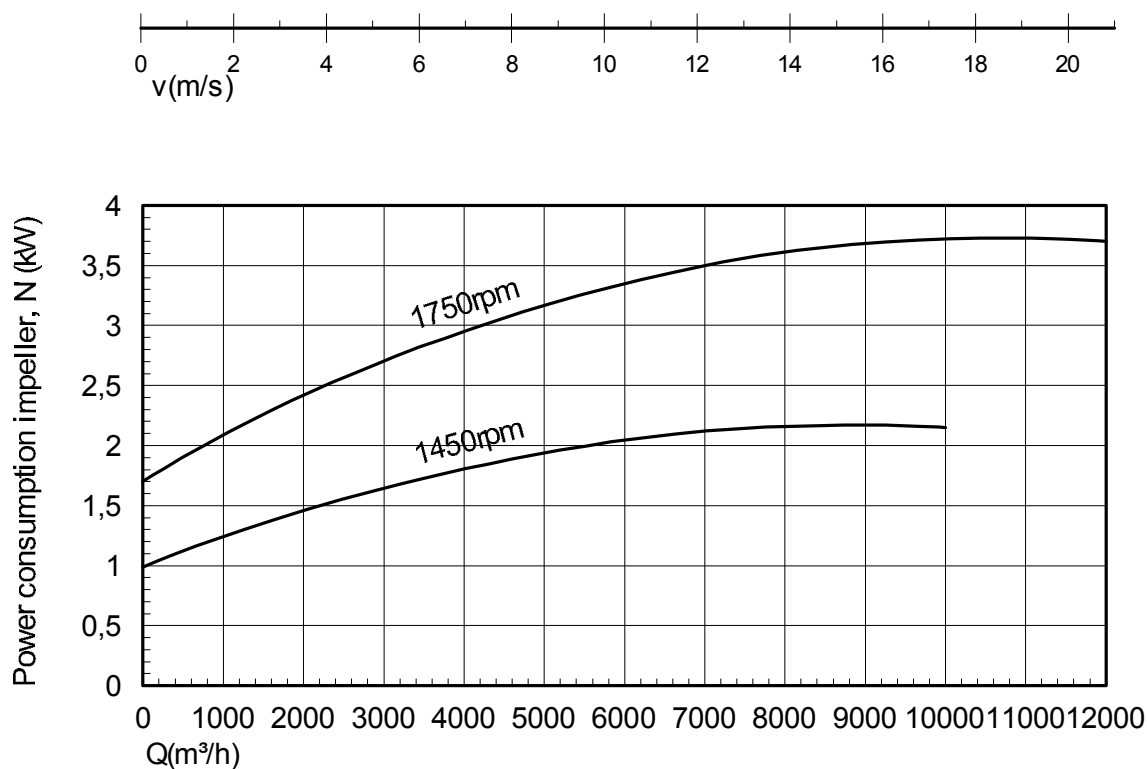
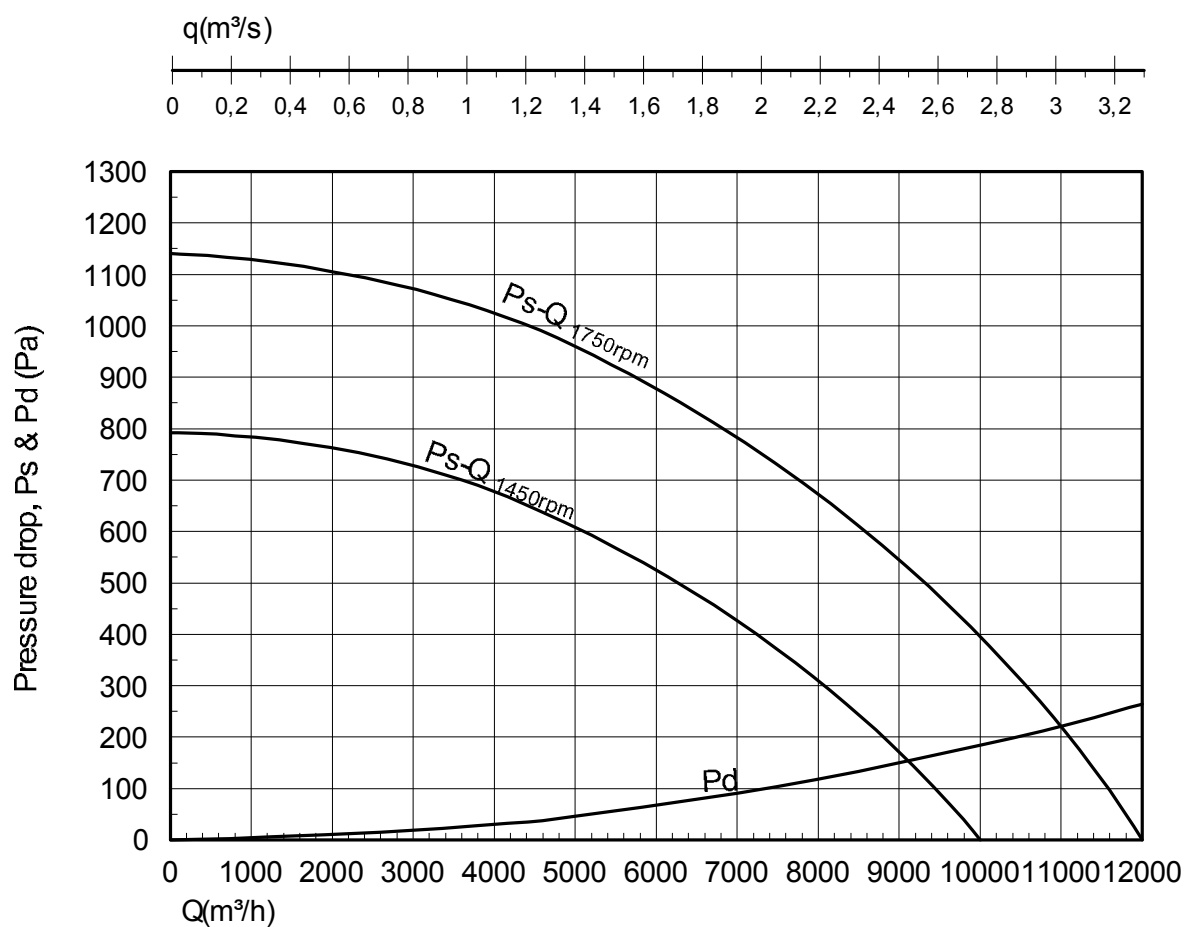
SUV 400 Z



CENTRIFUGAL EXHAUST FAN PERFORMANCE DATA

SUV 450 Z

Imp: Z12x450x105



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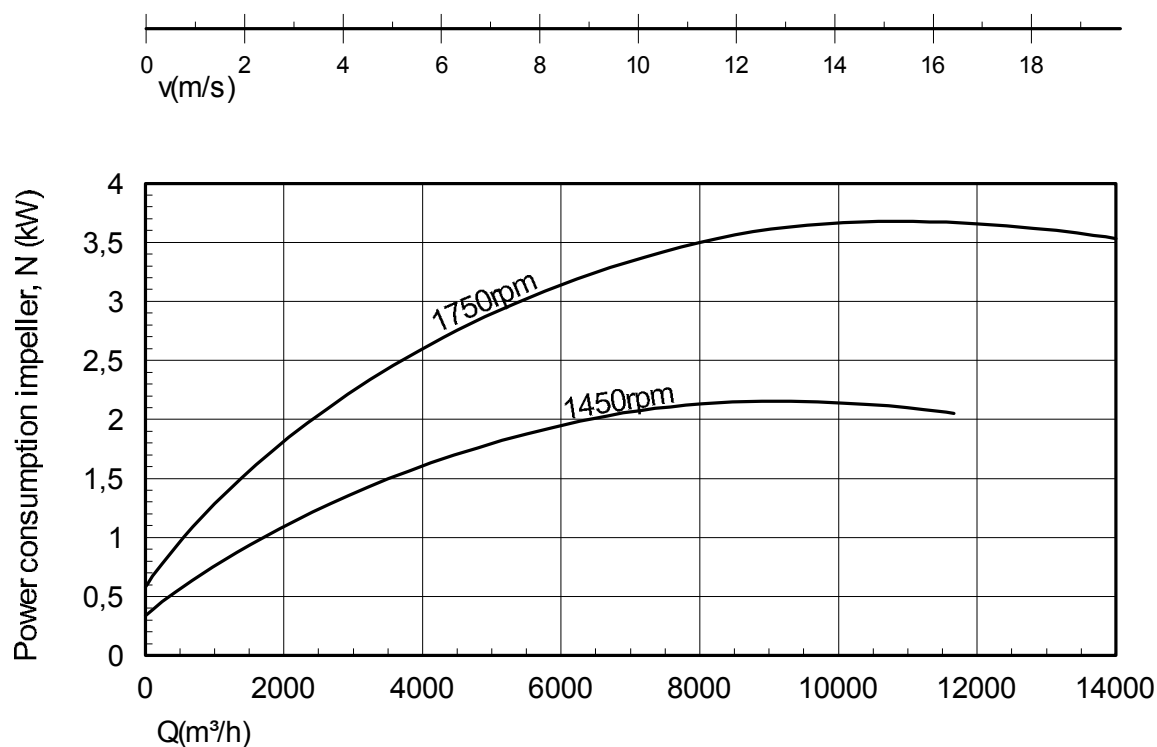
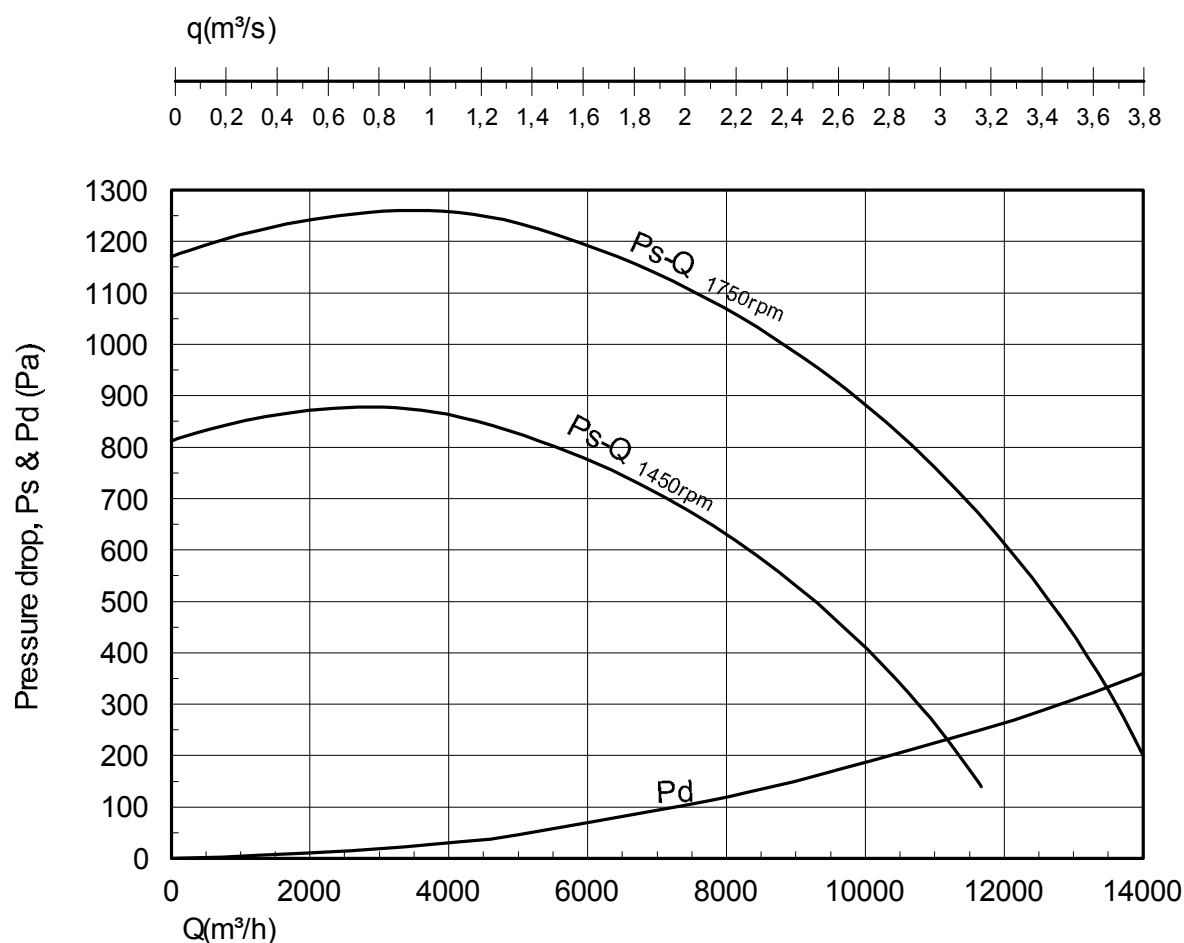
SUV 450 Z



CENTRIFUGAL EXHAUST FAN PERFORMANCE DATA

SUV 500 B

Imp: B6x600x122



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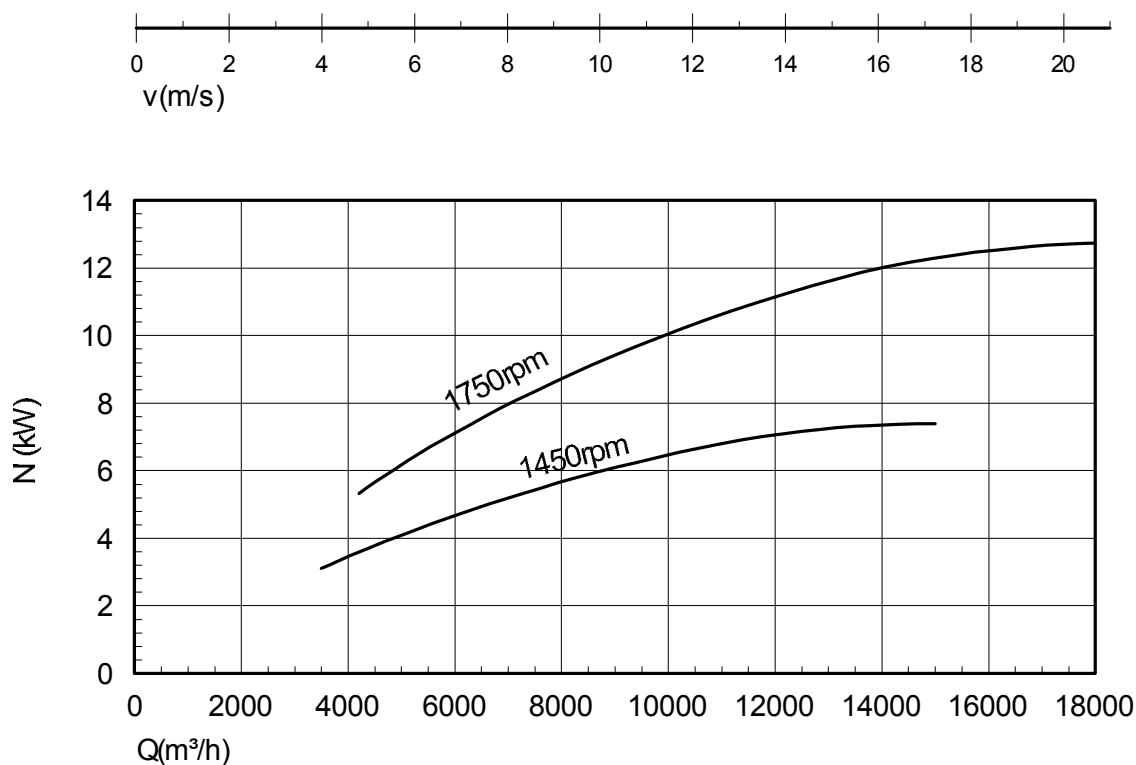
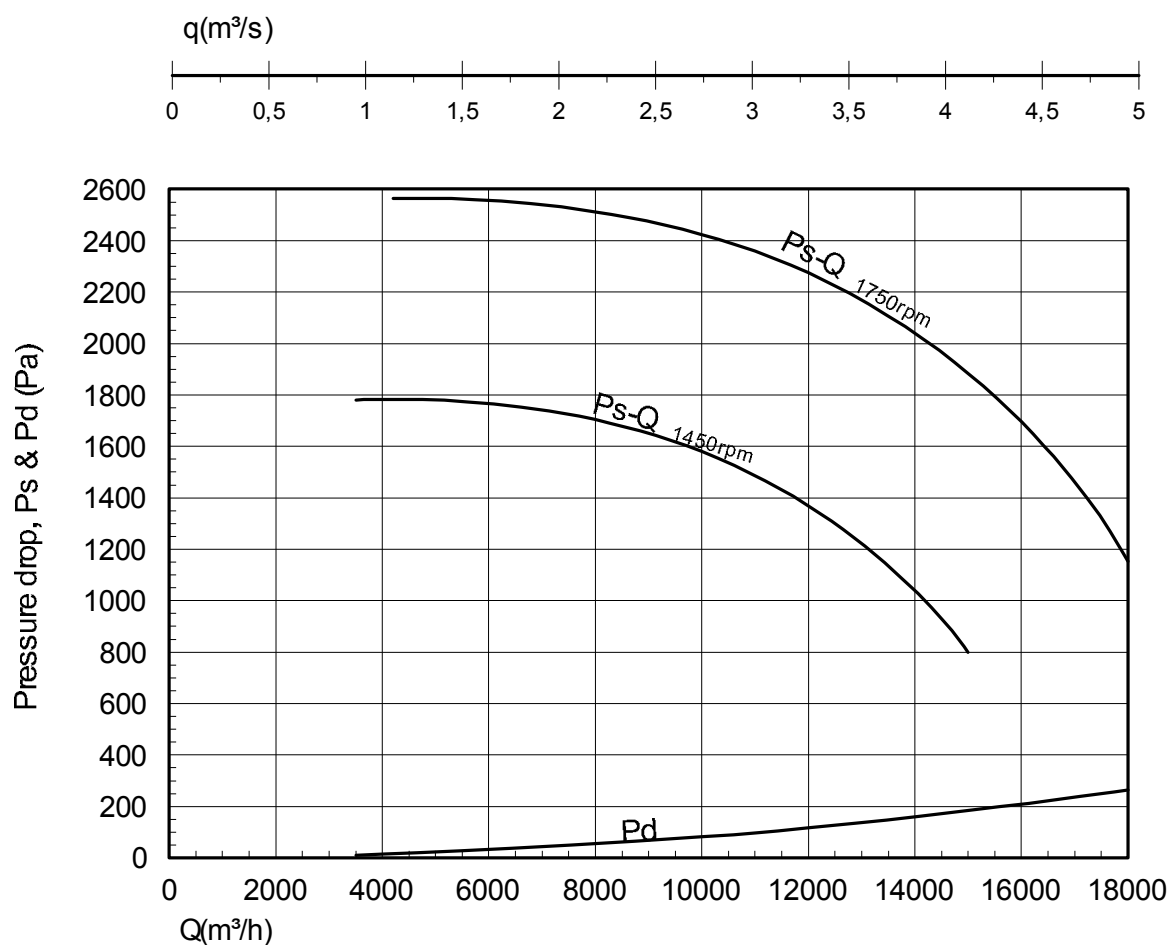
SUV 500 B



CENTRIFUGAL EXHAUST FAN PERFORMANCE DATA

SUV 550 Z

Imp: 615x100



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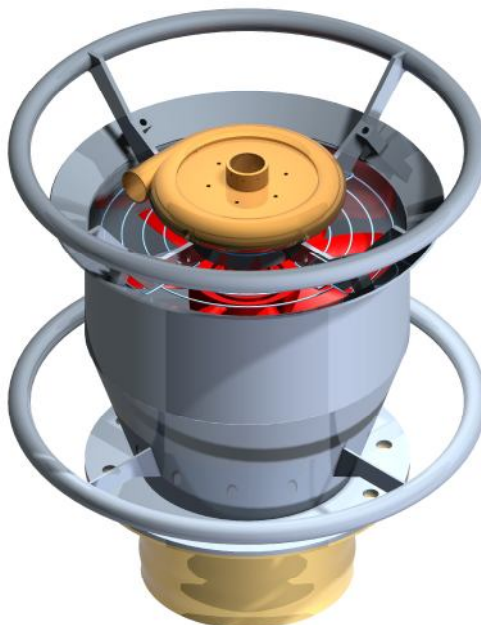
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SUV 550 Z



PRZENOŚNY WENTYLATOR ODGAZOWUJĄCY

TYP
MPV-A1EGSX



ZASTOSOWANIE

Typowym zastosowaniem tego wentylatora jest mechaniczna wentylacja niebezpiecznych obszarów i zbiorników ładunkowych na pokładzie statków. Montaż w otworach zbiorników na pokładzie.

KONSTRUKCJA

MPV-A1EGSX jest przeznaczony przede wszystkim do mechanicznej wentylacji zbiorników ładunkowych i innych miejsc, w których występują wybuchowe opary. Wentylator jest odporny na iskrzenie z silnikiem napędzanym wodą lub sprężonym powietrzem.

WYKONANIE

Obudowa wentylatora wykonana jest z odpornego na wodę morską aluminium w wykonaniu wysokowytrzymałym. Wirnik jest wykonany z aluminium odpornego na sól i amoniak lub ze wzmocnionego polipropylenu. Aerodynamiczny kształt i wyważenie. Osłona z siatki stalowej jest wykonana ze stali nierdzewnej.

MPV-A1EGSX dostępny jest od rozmiaru nr 300 do rozmiaru nr 500. Średnica koła podziałowego może zostać dostosowana do wymagań klienta.

SILNIK

Napędzany wodą morską lub sprężonym powietrzem.

TOWARZYSTWA KLASYFIKACYJNE

Wentylator spełnia wymogi różnych towarzystw klasyfikacyjnych.

AKCESORIA (wentylator napędzamy wodą)

- wózek
- przewody wlotu/wylotu wody
- składany przewód powietrza

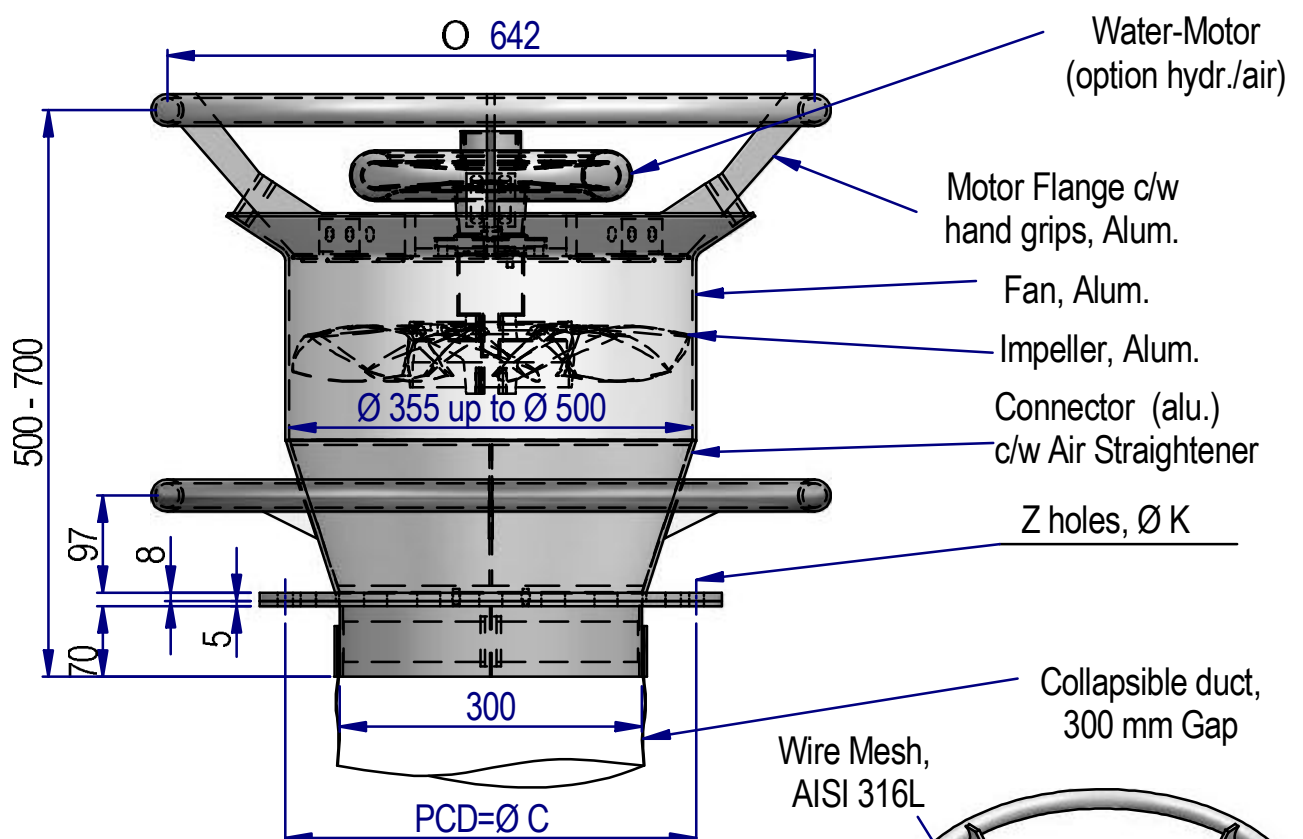
AKCESORIA (wentylator napędzany powietrzem)

- wózek
- wąż sprężonego powietrza, wąż napędowy
- filtr powietrza / smarownica
- składany przewód powietrza

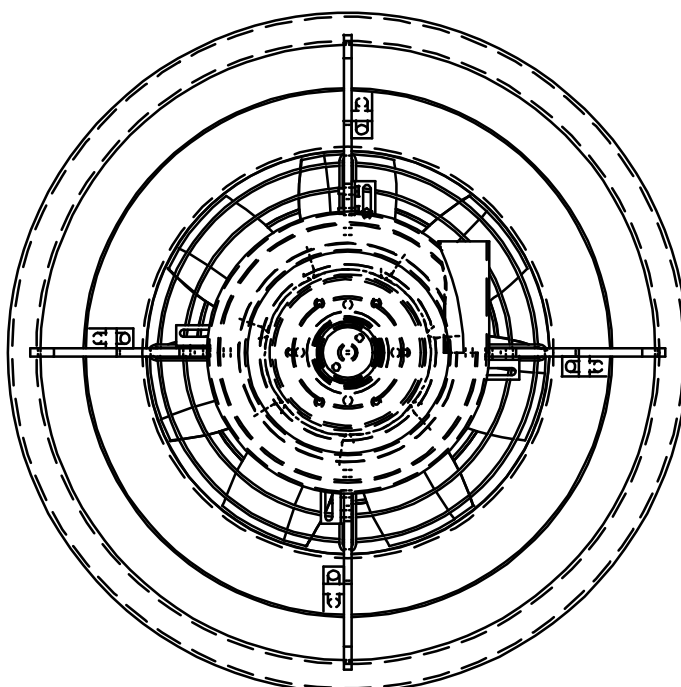
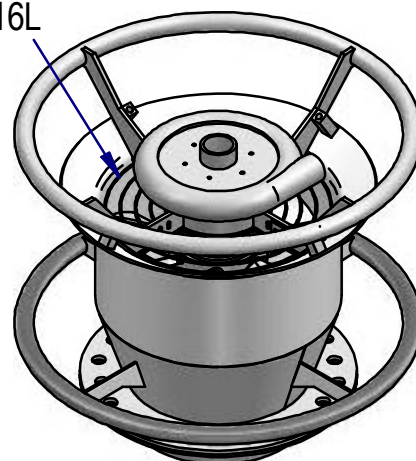


PORTABLE GAS FREEING FAN

MPV - A1EGSX



Dimensions for PCD (C) and Size and No. of holes in flange (Z,K) can be adjusted to meet customer's requirements.



Fan size	Weight fan with motor [kg]
350	25
400	26
450	27
500	28
Trolley (option)	11,5
Air motor (option)	+1

4-2158

R.Berge
12/09-03,
rev. 27.05.04



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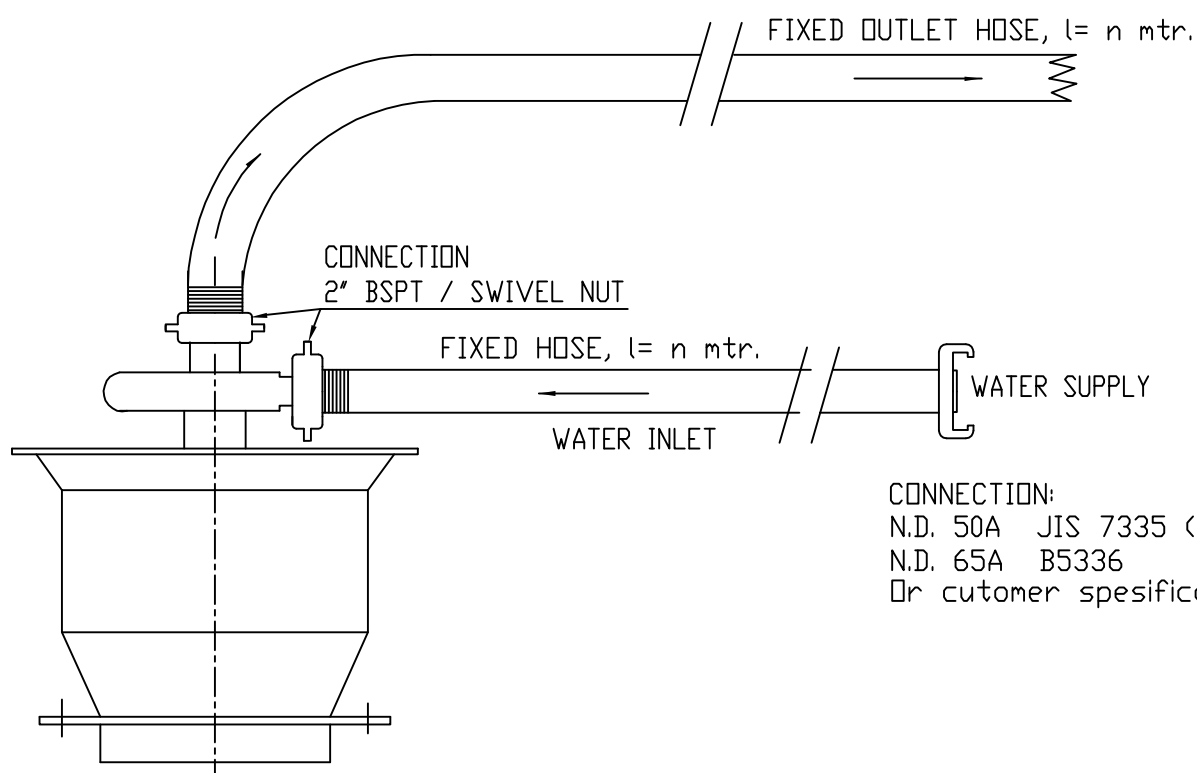
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MPV - A1EGSX



PORTABLE GAS-FREEING FAN
ARRANGEMENT HOSES, PRINCIPLE SKETCH

MPV 300/450
A1EGSX



CONNECTION:
N.D. 50A JIS 7335 (1116)/
N.D. 65A B5336
Or customer specification

Date : 05.03.98

Tegn : 4-1324

Name : M.Berge



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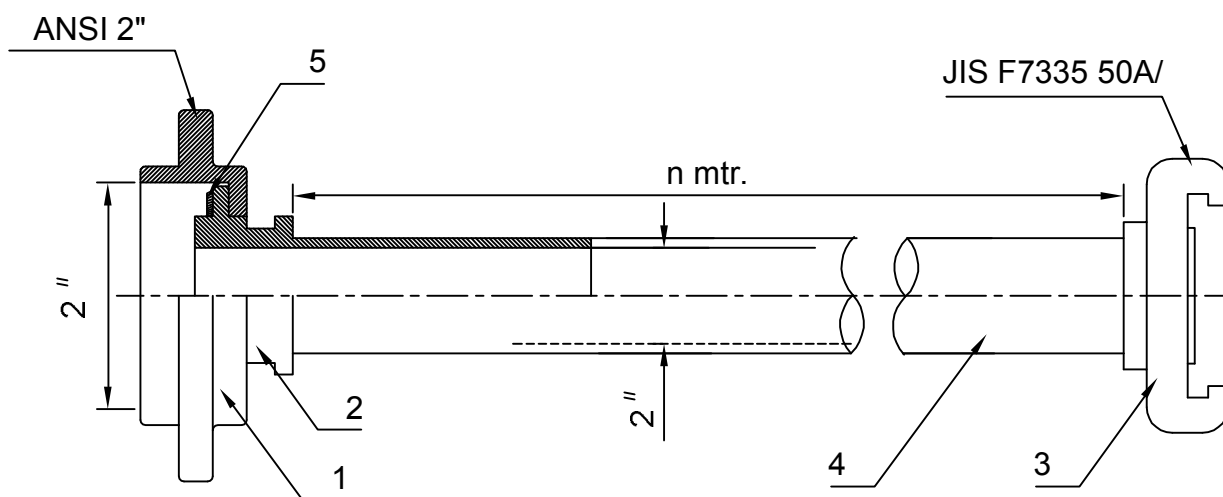
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MPV 300/450
A1EGSX



WATER INLET HOSE

MPV 300/450
A1EGSX



5	1	Packing	Neopr
4	1	Hose, Armtex	
3	1	Nakajima joint	Brass
2	2	Hose nipple	Brass
1	1	Swivel nut	Brass
Item	Qty	Part/Description	Matr.

Date : 05.03.98

Tegn : 4-1327

Name : M.Berge



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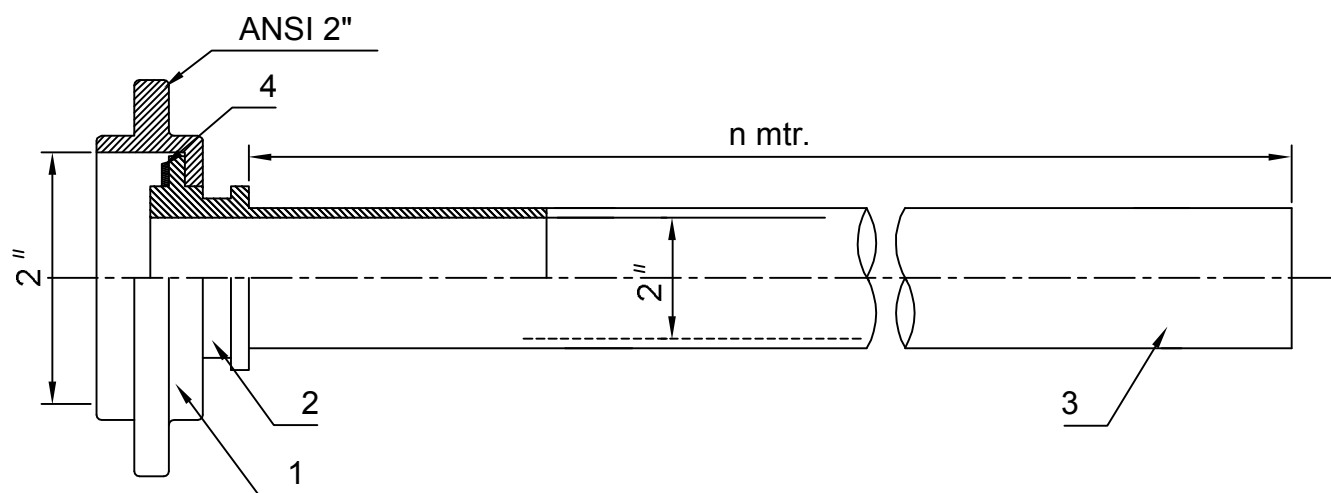
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www.nyborgfan.com

MPV 300/450
A1EGSX



WATER OUTLET HOSE

MPV 300/450
A1EGSX



4	1	Packing	Neopr
3	1	Hose, Heliflat	
2	2	Hose nipple	Brass
1	1	Swivel nut	Brass
Item	Qty	Part	Matr.

Date : 05.03.98

Tegn : 4-1326

Name : M.Berge



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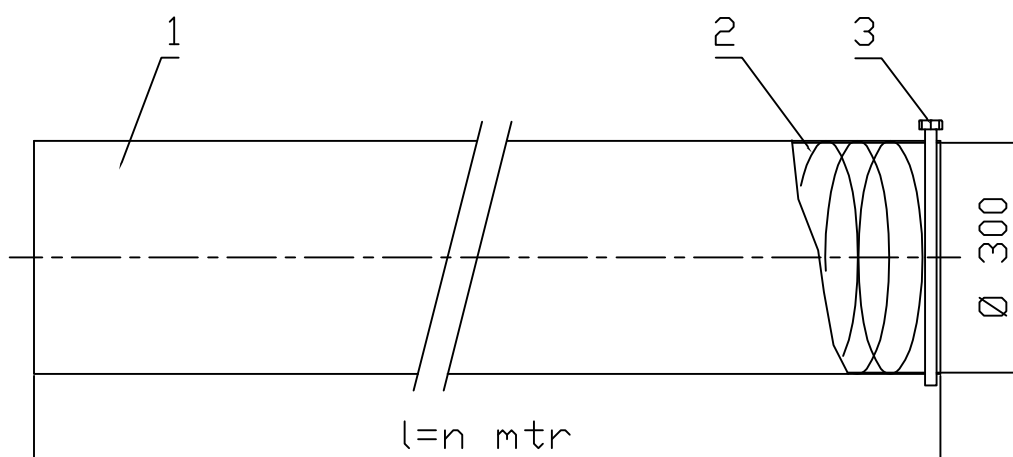
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MPV 300/450
A1EGSX



AIR DUCT, COLLAPSIBLE

MPV 300/450
A1EGSX



3	1	Hose clamp	St.37
2	1	Wire reinf.	St.37
1	1	Hose	Nylon
Item	Qty	Part/Descript.	Material

Date : 05.03.98

Tegn : 4-1325

Name : M.Berge



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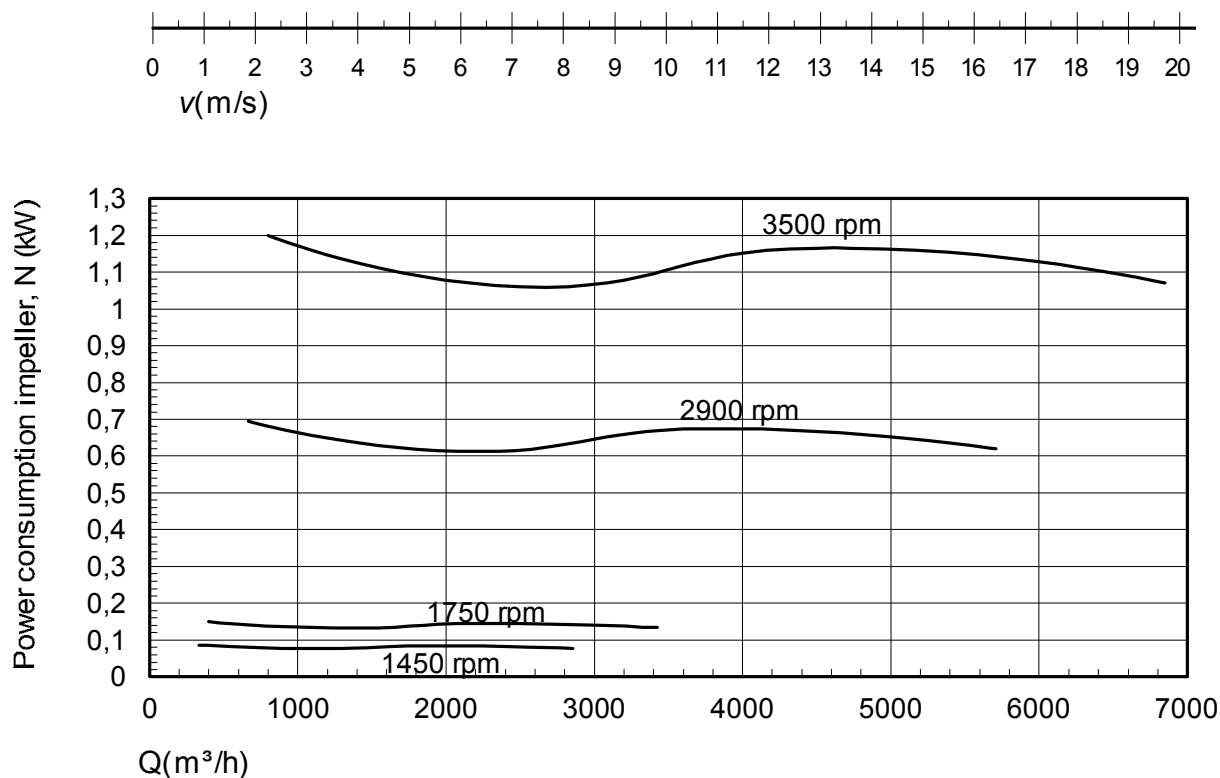
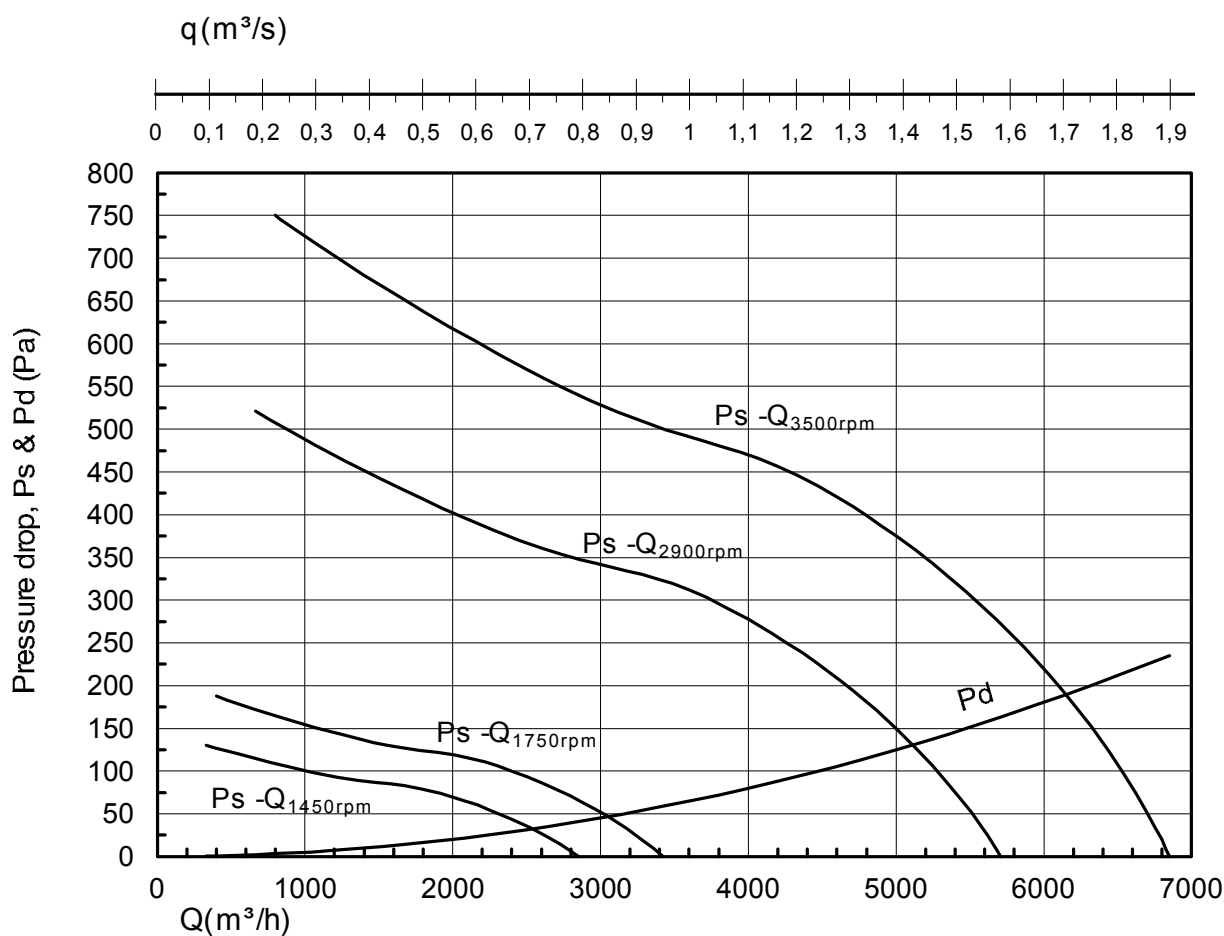
MPV 300/450
A1EGSX



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 350 A

Imp: A6T / 22

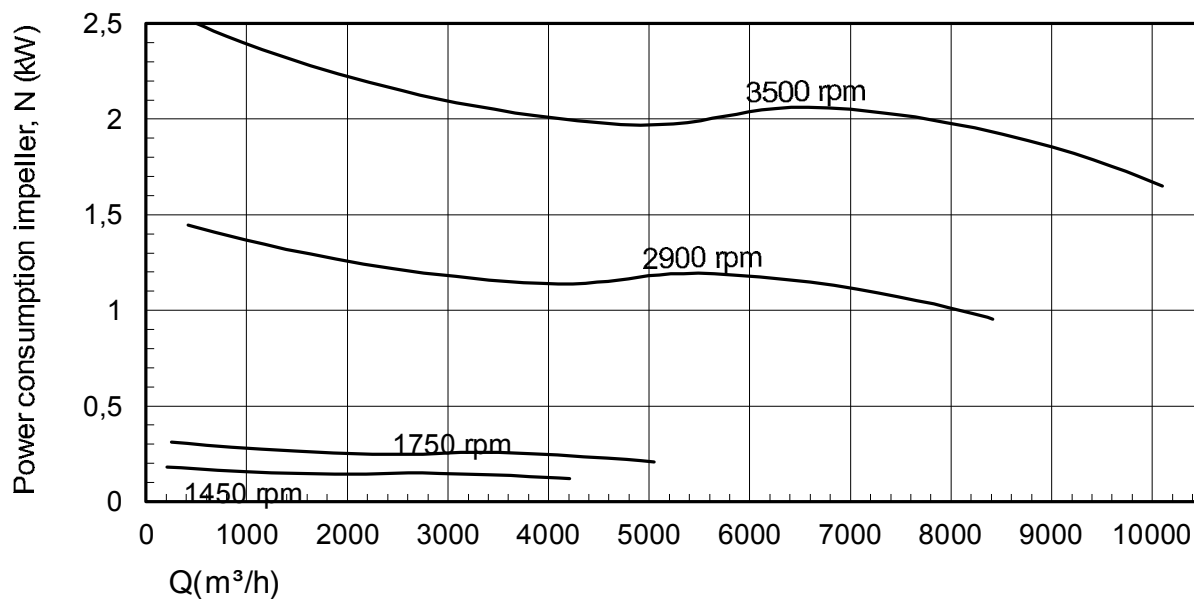
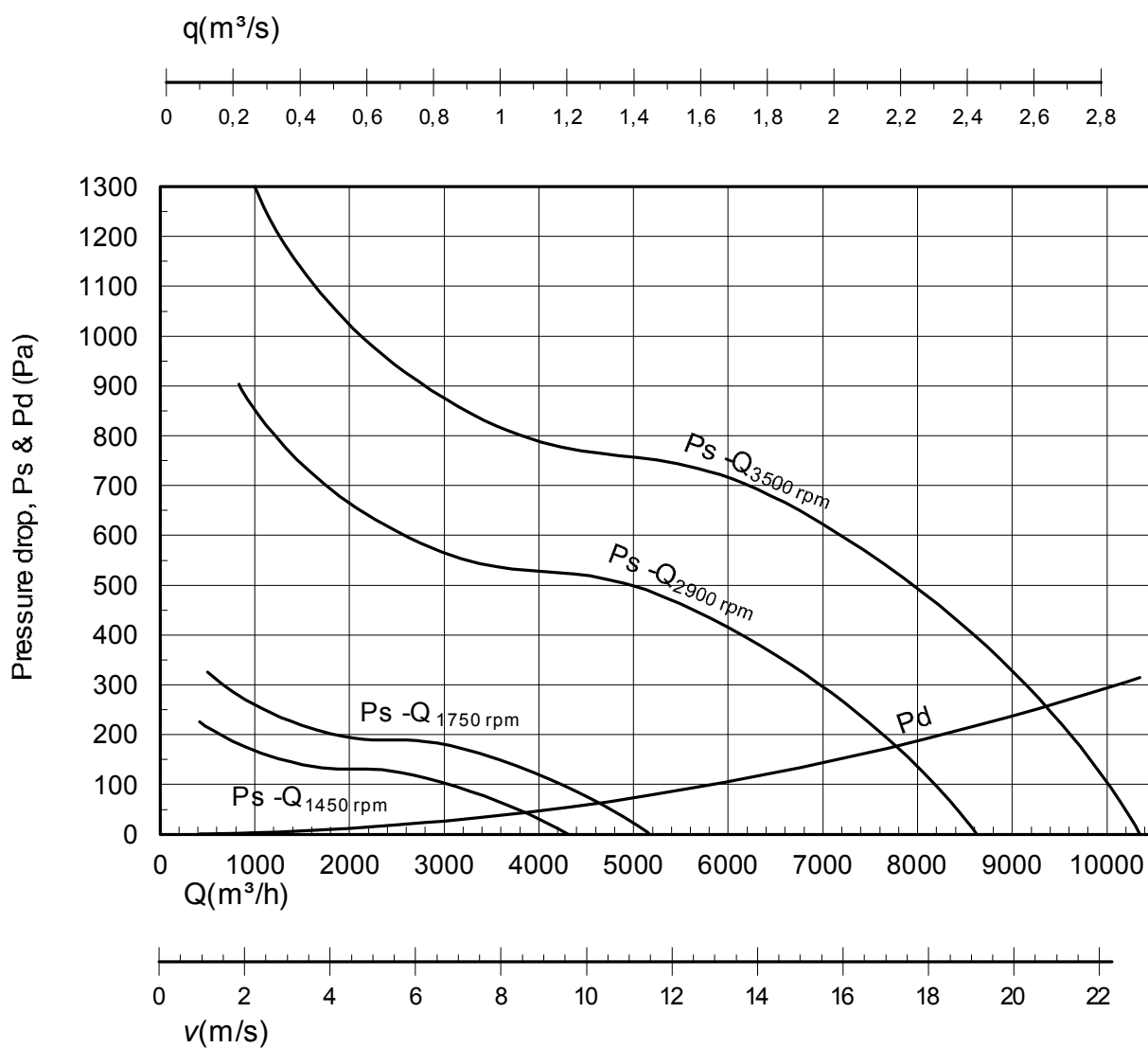




NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 400 A

Imp: A7T / 22



nyborg12.prs/38



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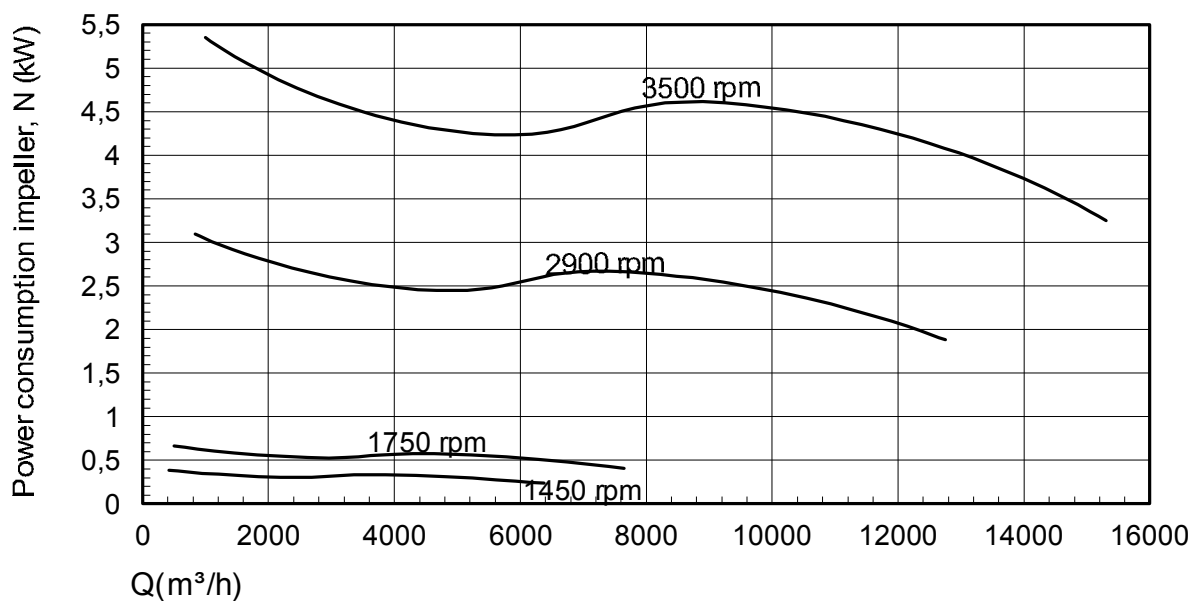
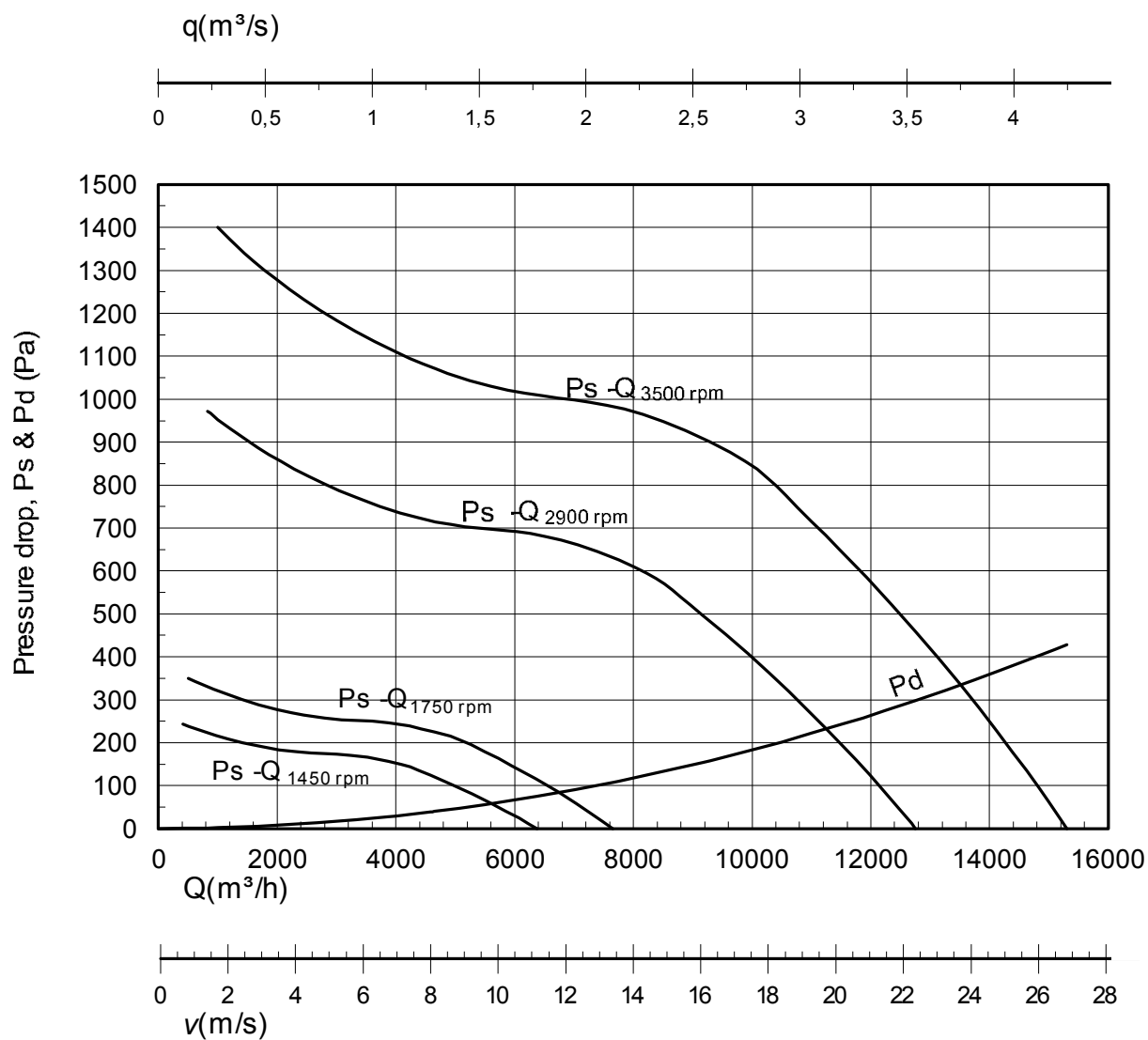
MPV 400 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 450 A

Imp: A7T / 22



nyborg12.prs/33



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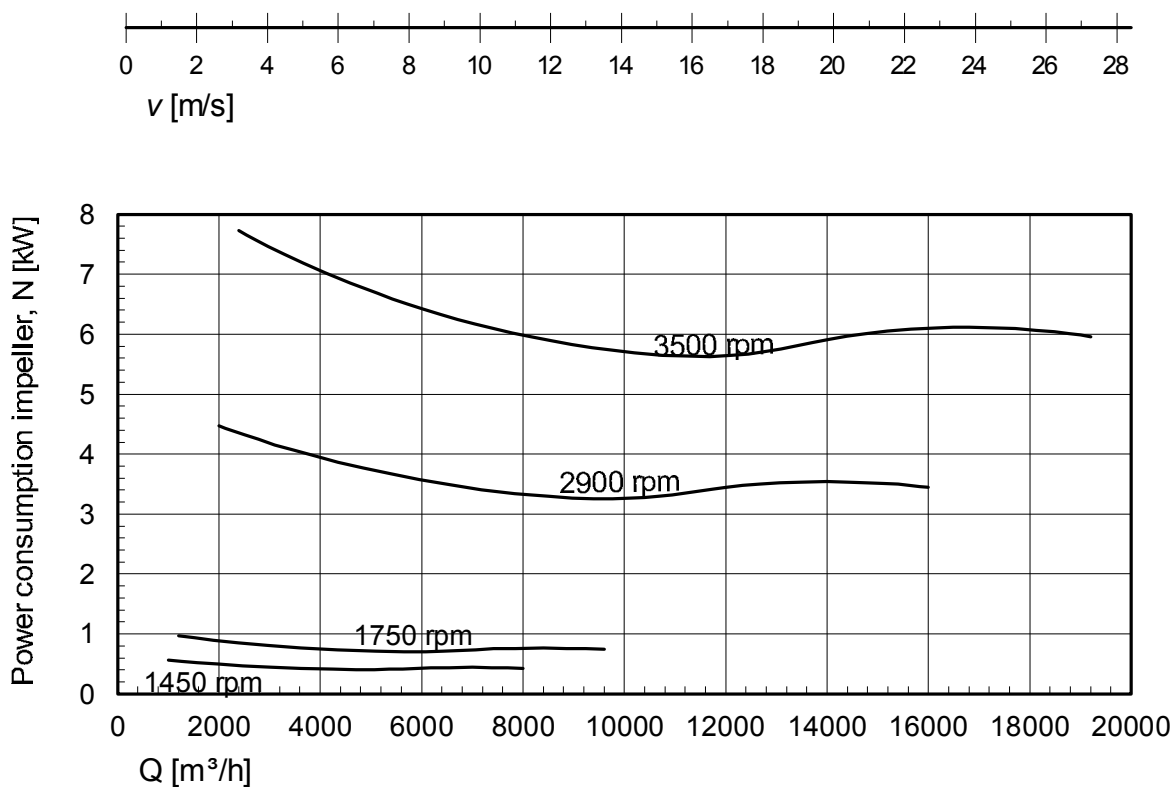
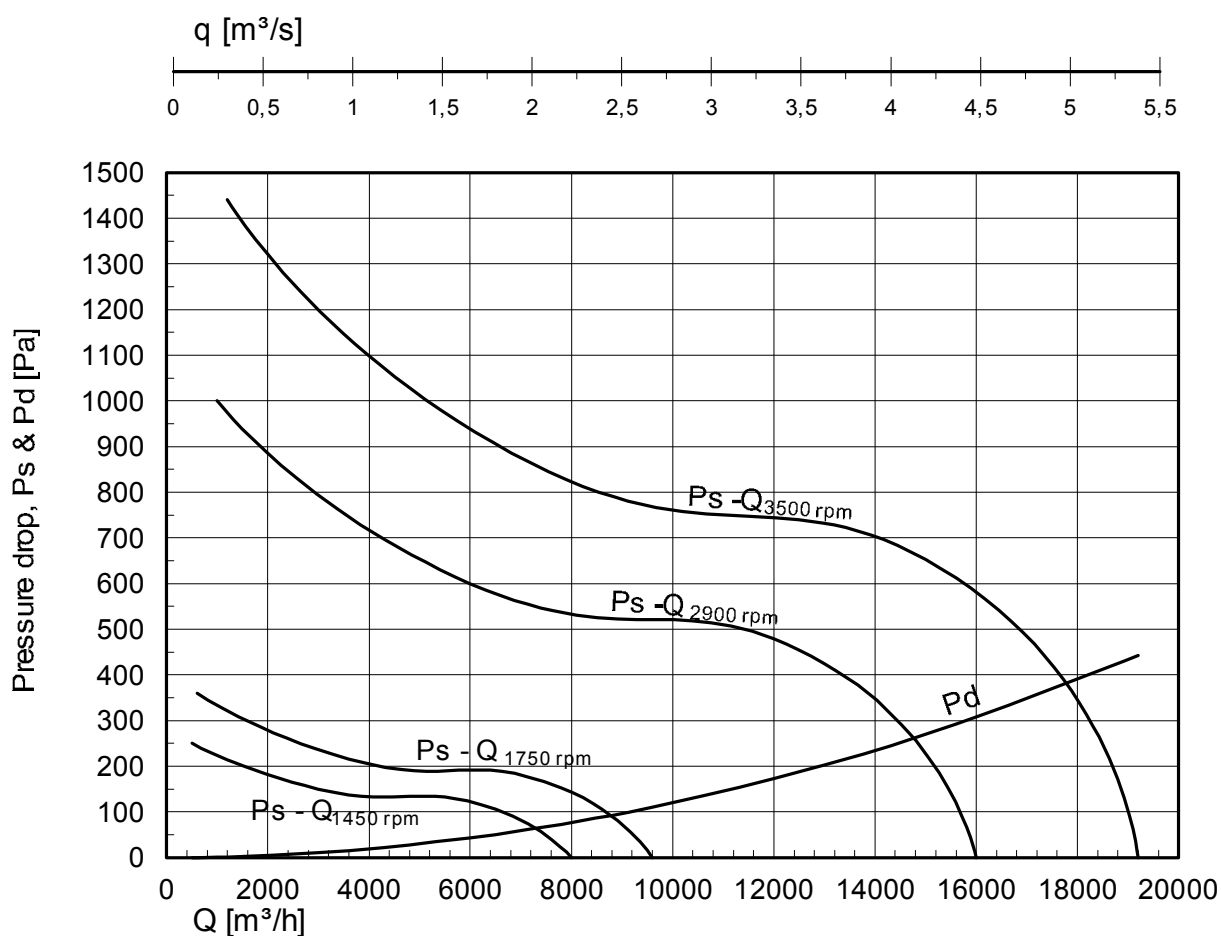
MPV 450 A



NYBORG AXIAL FLOW FAN PERFORMANCE DATA

MPV 500 A

Imp: A7T / 22



nyborg12.prs/13



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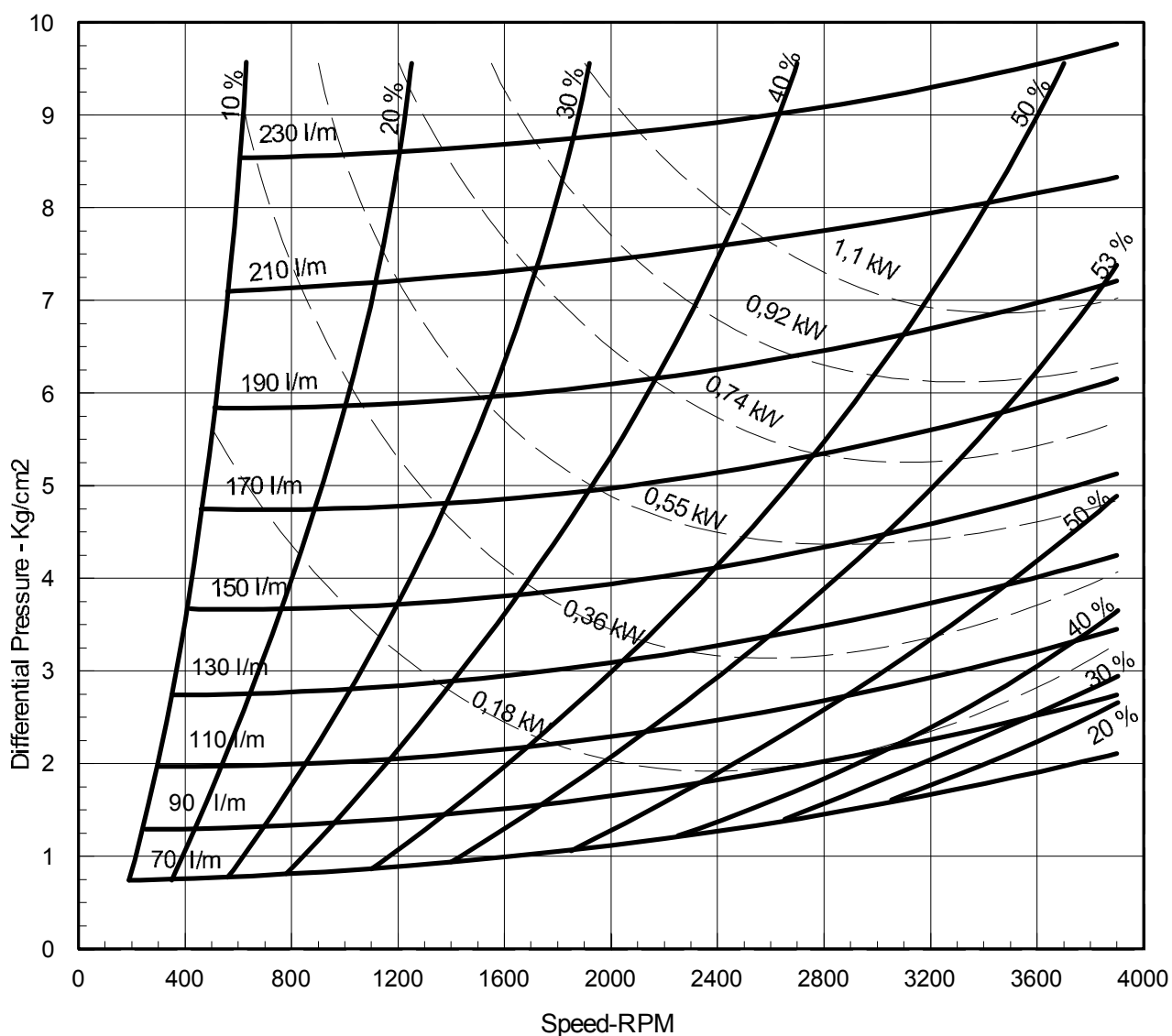
MPV 500 A



NYBORG PORTABLE AXIAL FLOW FAN WATER CONSUMPTION CHART

**MPV -
A1EGSX**

WATER MOTOR : GILKES 3,25F WM 0,10 VENT



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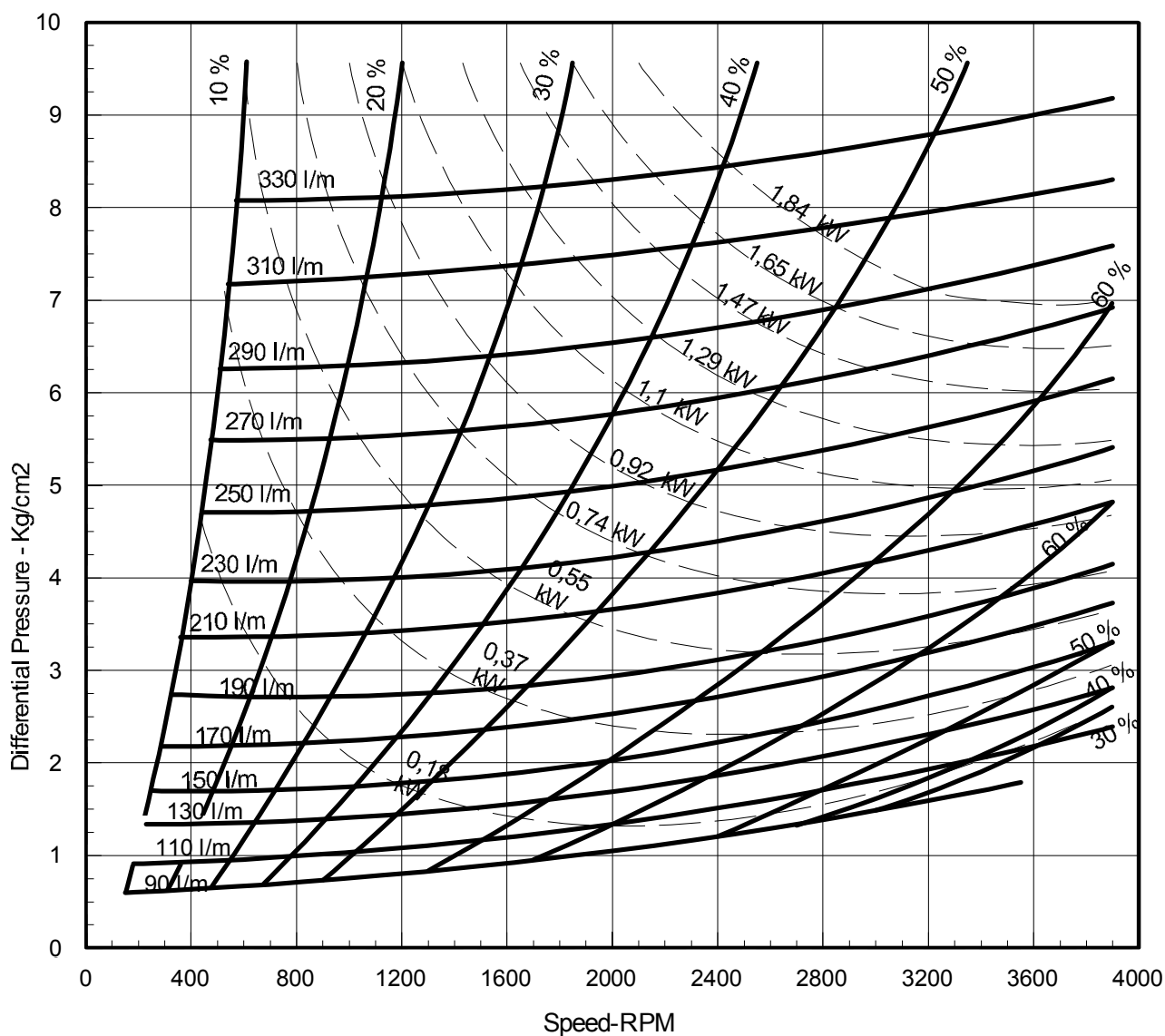
**MPV -
A1EGSX**



NYBORG PORTABLE AXIAL FLOW FAN WATER CONSUMPTION CHART

**MPV -
A1EGSX**

WATER MOTOR : GILKES 3,25F WM 0,15 VENT



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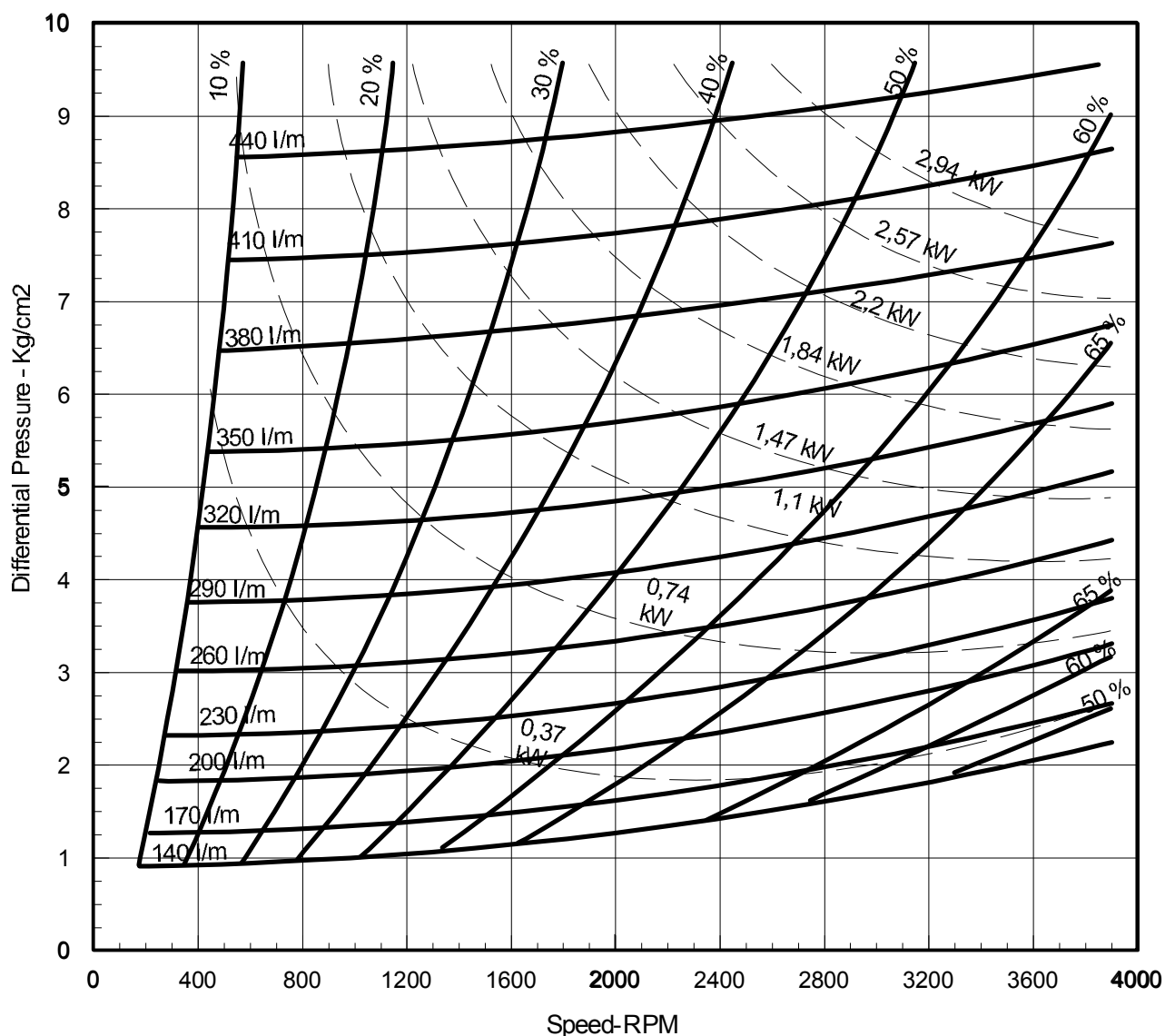
**MPV -
A1EGSX**



NYBORG PORTABLE AXIAL FLOW FAN WATER CONSUMPTION CHART

**MPV -
A1EGSX**

WATER MOTOR : GILKES 3,25F WM 0,20 VENT



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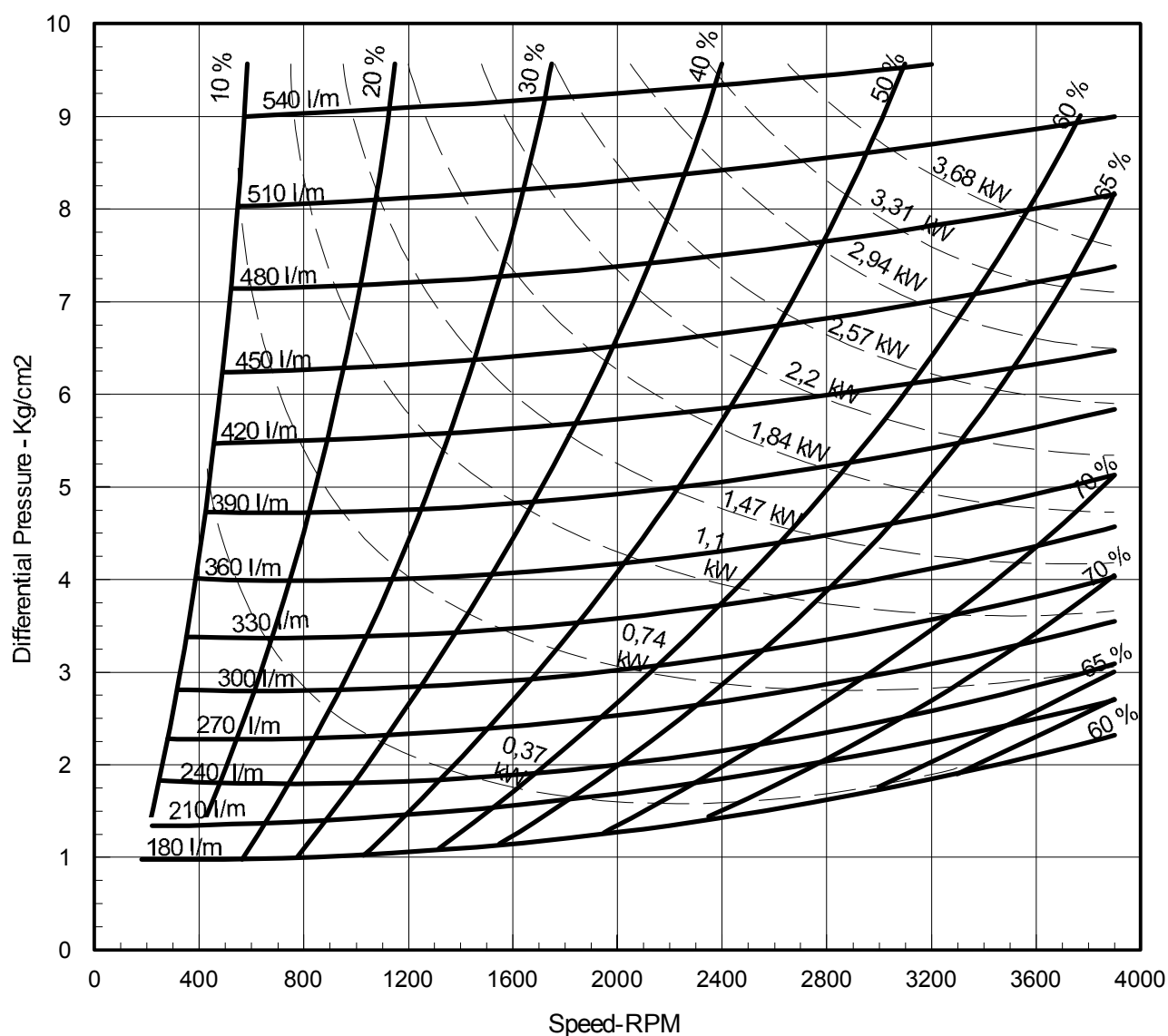
**MPV -
A1EGSX**



NYBORG PORTABLE AXIAL FLOW FAN WATER CONSUMPTION CHART

**MPV -
A1EGSX**

WATER MOTOR : GILKES 3,25F WM 0,25 VENT



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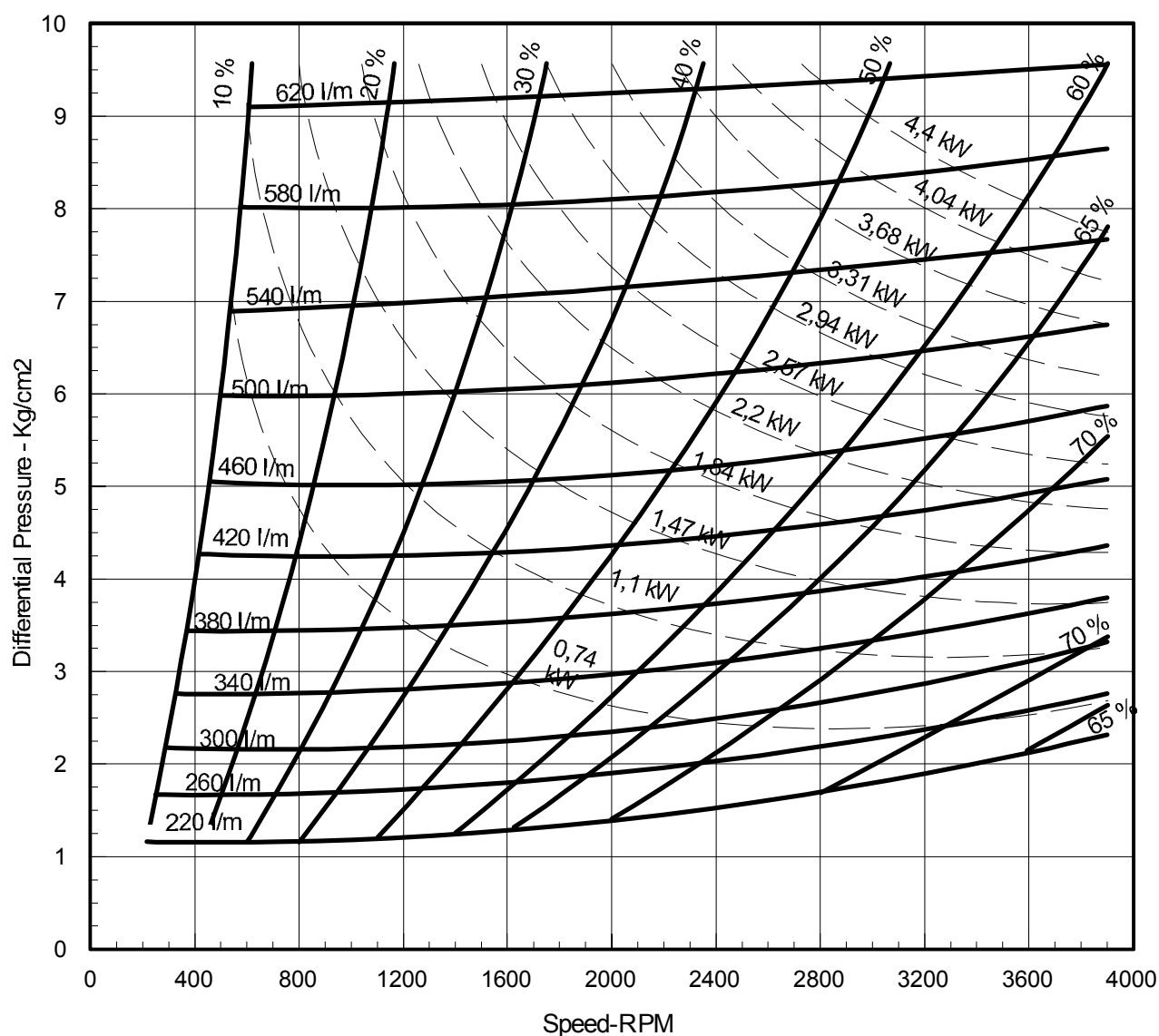
**MPV -
A1EGSX**



NYBORG PORTABLE AXIAL FLOW FAN WATER CONSUMPTION CHART

**MPV -
A1EGSX**

WATER MOTOR : GILKES 3,25F WM 0,30 VENT



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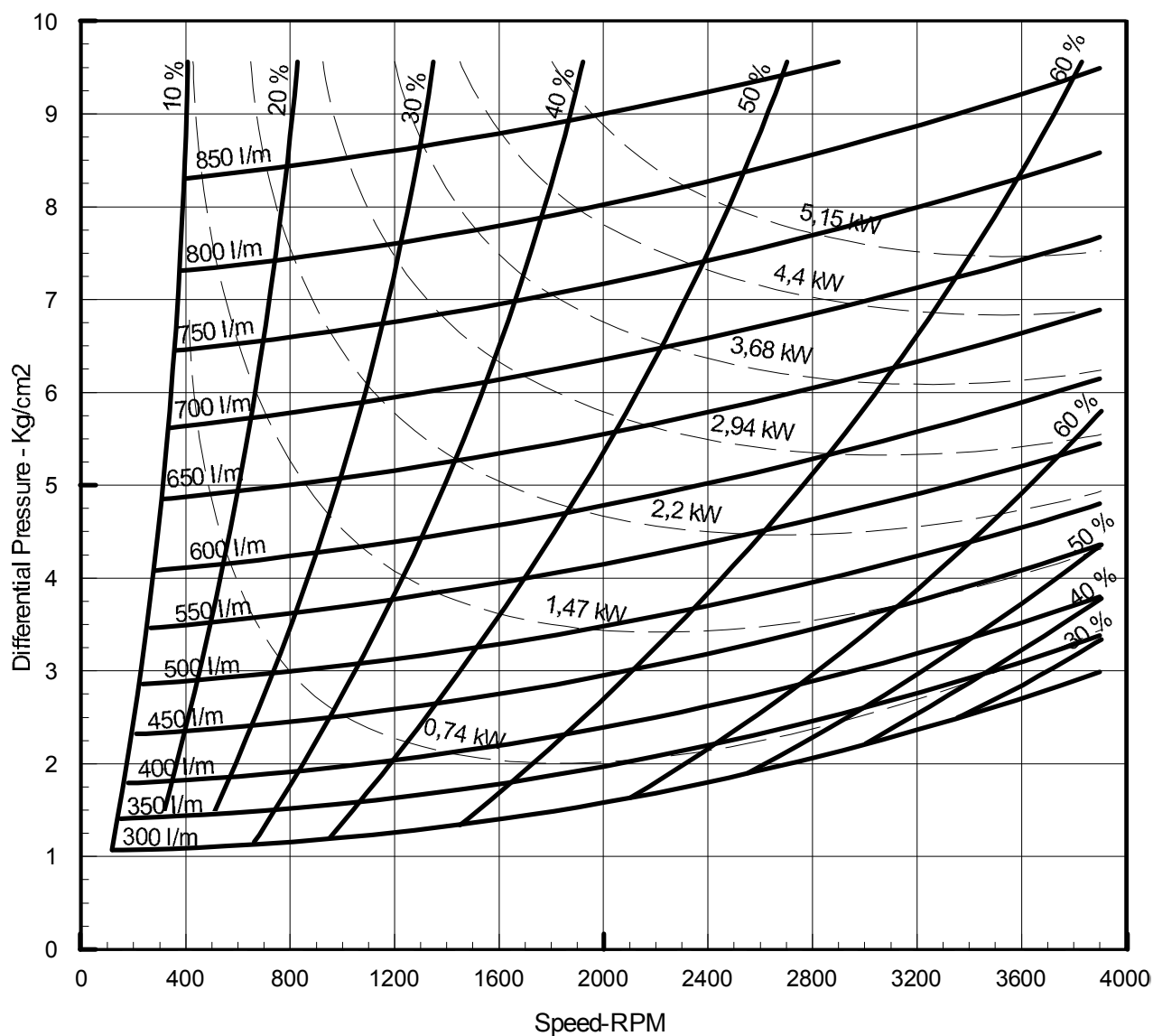
**MPV -
A1EGSX**



NYBORG PORTABLE AXIAL FLOW FAN WATER CONSUMPTION CHART

**MPV -
A1EGSX**

WATER MOTOR : GILKES 4,25F WM 0,10 VENT



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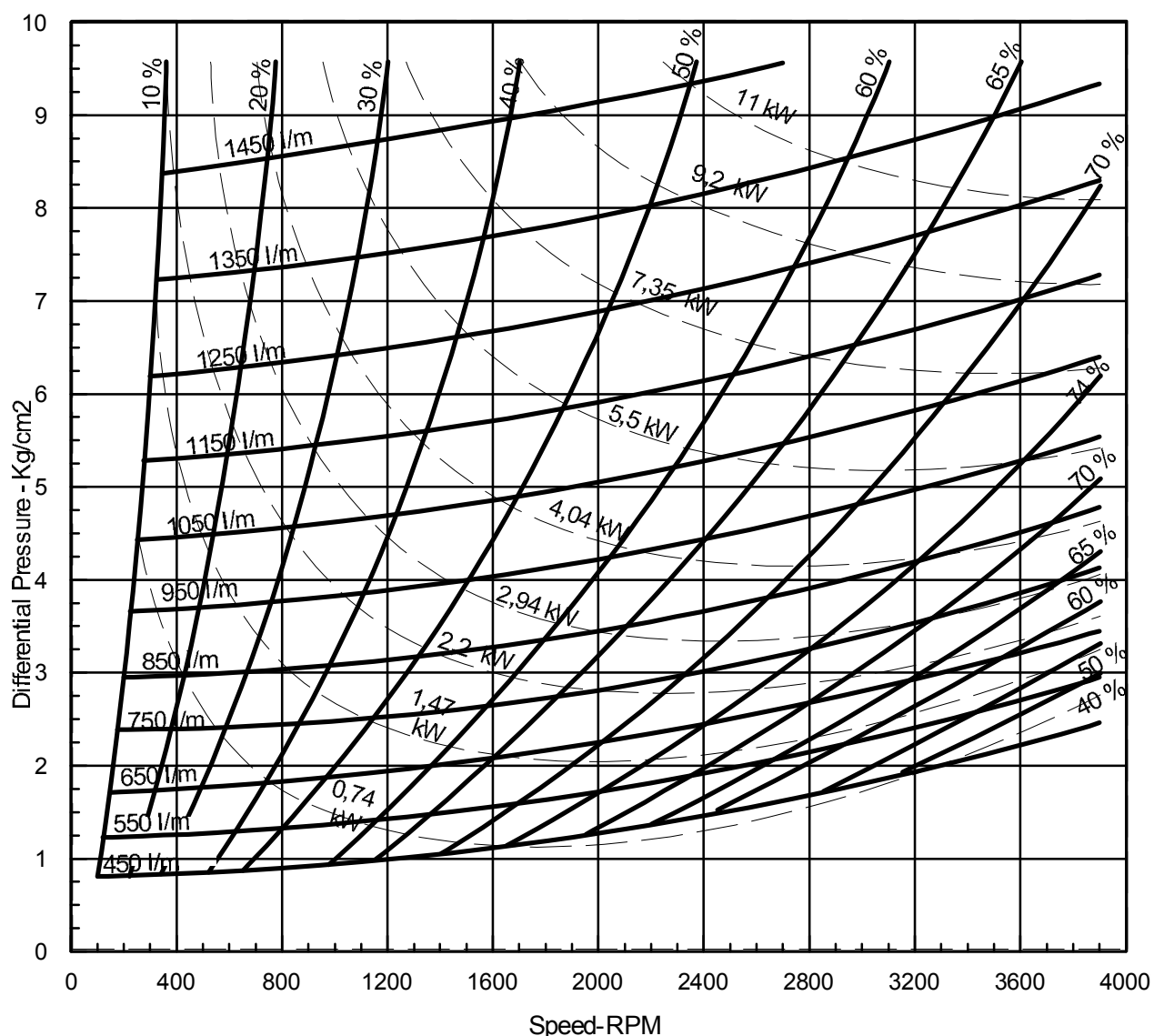
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A1EGSX**



NYBORG PORTABLE AXIAL FLOW FAN WATER CONSUMPTION CHART

**MPV -
A1EGSX**

WATER MOTOR : GILKES 4,25F WM 0,20 VENT



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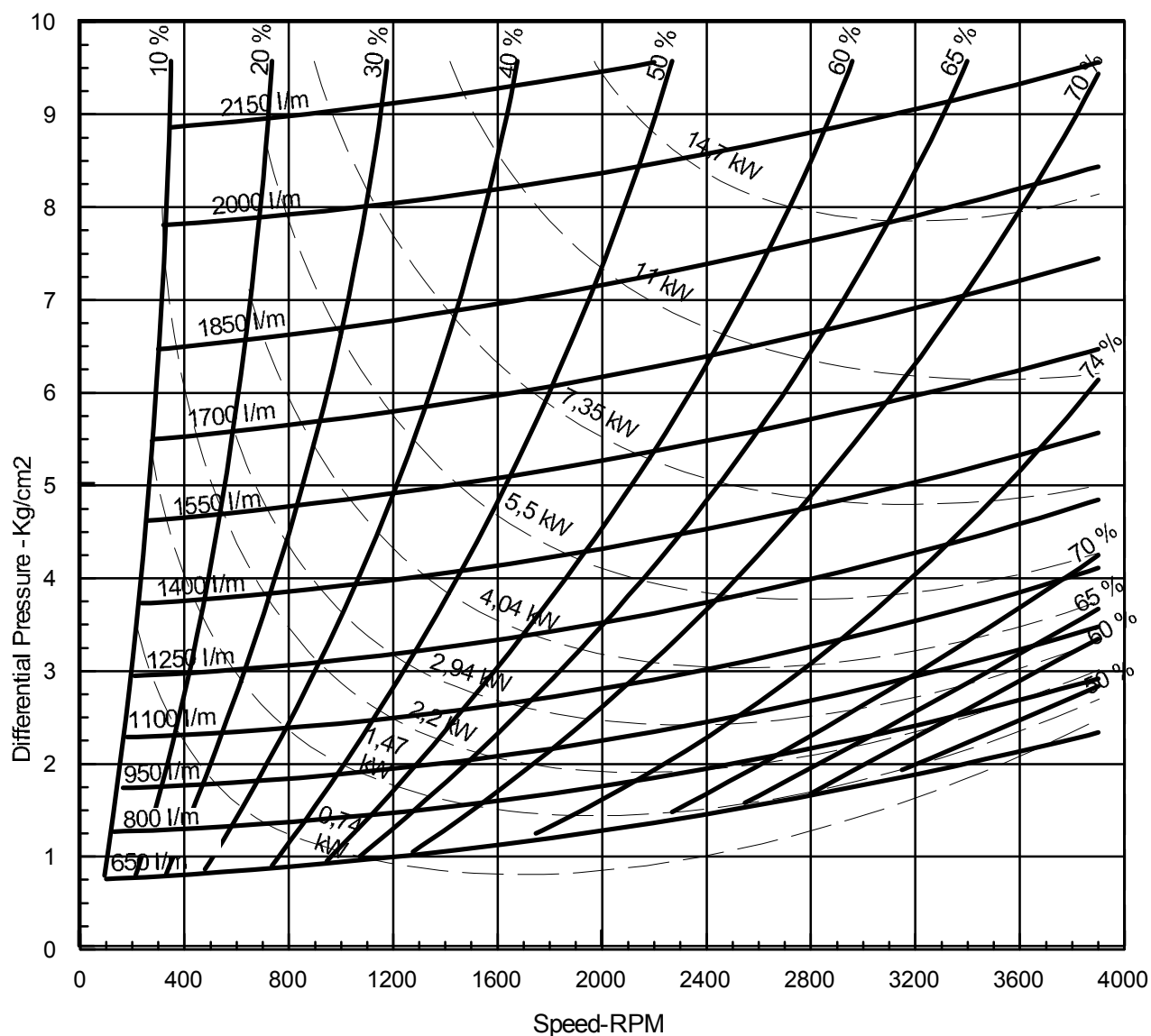
**MPV -
A1EGSX**



NYBORG PORTABLE AXIAL FLOW FAN WATER CONSUMPTION CHART

**MPV -
A1EGSX**

WATER MOTOR : GILKES 4,25F WM 0,30 VENT



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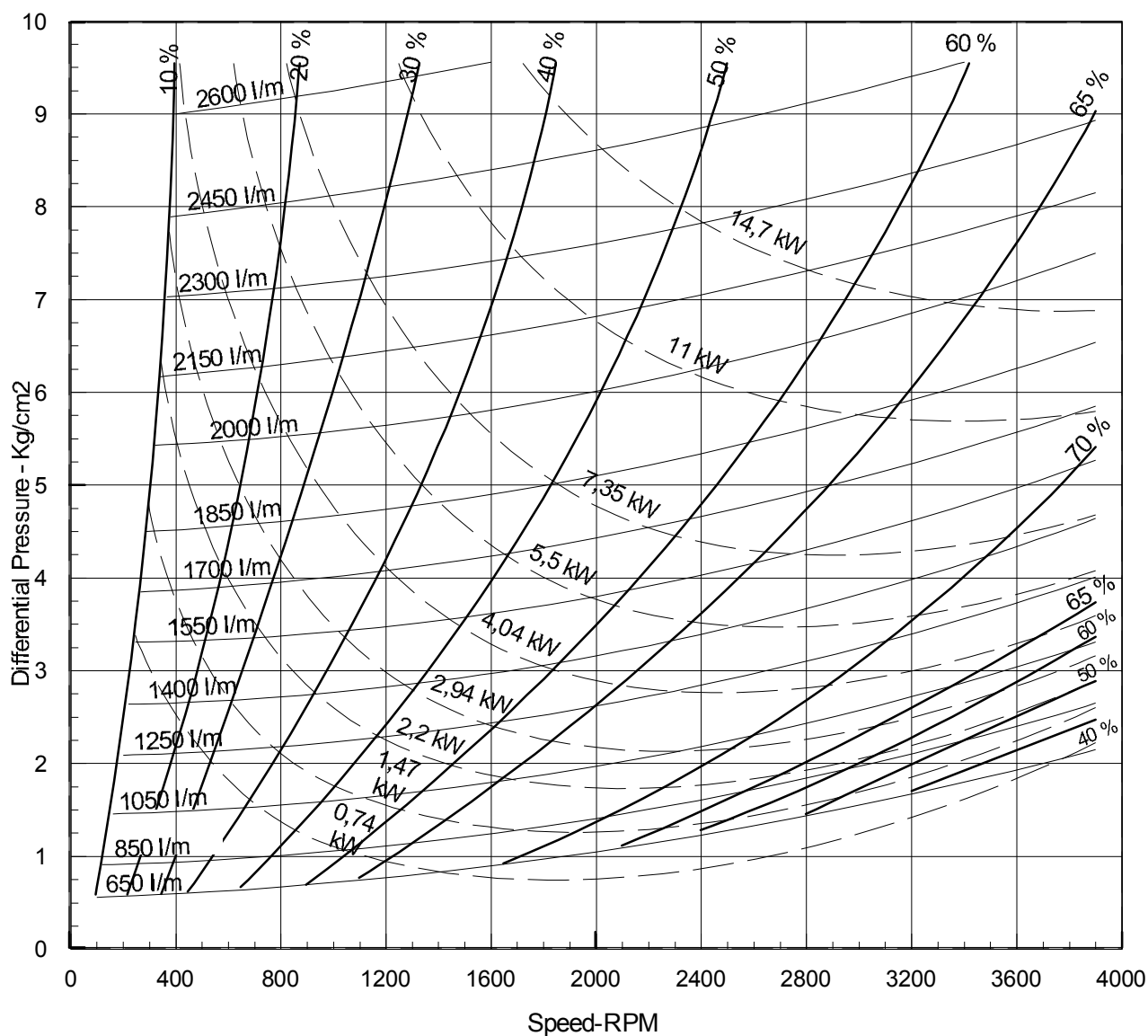
**MPV -
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NYBORG PORTABLE AXIAL FLOW FAN WATER CONSUMPTION CHART

**MPV -
A1EGSX**

WATER MOTOR : GILKES 4,25F WM 0,40 VENT



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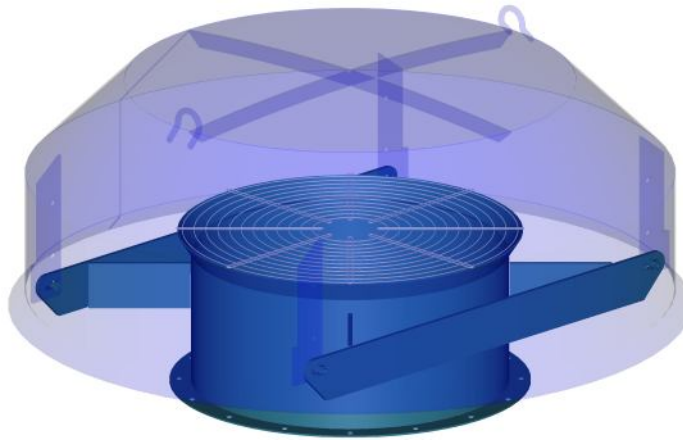


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**MPV -
A1EGSX**



OSŁONY WENTYLACYJNE



ZASTOSOWANIE

Wysokowytrzymałe osłony do zastosowań okrętowych, montowane na szczycie przewodu wentylacyjnego.

KH R10

Osłona wentylacyjna do ochrony przed rozpryskami sody morskiej i deszczem.

Zarówno do powietrza nawiewnego jak i wywiewnego.

W celu łatwej konserwacji i kontroli osłonę należy odkręcić w górę.

Dostępna dla rozmiarów przewodów wentylacyjnych o średnicy od Ø250- Ø1000 .

KH-R1F

Stała osłona wentylacyjna

Dostępna dla rozmiarów przewodów wentylacyjnych od średnicy Ø1000- Ø1400.

KHE-R1F

Osłona typu 'jet' do odprowadzania powietrza wylotowego w górę.

Funkcjonalny model chroni przed rozpryskami wody morskiej i deszczem, z systemem odprowadzania wody.

Dostępna dla rozmiarów przewodów wentylacyjnych od średnicy Ø250 – Ø 1000.

KH5-R10V

Zamykana osłona wentylacyjna do ochrony przed wlotem wody morskiej i rozpryskami, oraz konstrukcja całkowicie odporna na działanie czynników atmosferycznych..

Przeznaczone do montażu w niskich przewodach wentylacyjnych.

Wymiary są zgodne z wytycznymi towarzystw klasyfikacyjnych dla niskich przewodów wentylacyjnych na głównym pokładzie. Wymiar G może zostać odjęty of wymogów dla najwyższego z przewodów wentylacyjnych.

Zawór jest zamykany i otwierany ręcznie, i może zostać zablokowany w pozycji otwartej lub zamkniętej.

Zawór szczelnie zamyka się na uszczelce neoprenowej za pomocą obciążenia sprężyną, działa również w pozycji otwartej

Osłona może zostać odkręcona w górę w celu łatwej konserwacji i kontroli.

Dostępna dla rozmiarów przewodów wentylacyjnych od średnicy Ø250-Ø1000.

KONSTRUKCJA

Wieloletnie doświadczenie przyczyniło się do powstania prostej i funkcjonalnej konstrukcji.

Dostępne są również rozwiązania na specjalne zamówienie w celu realizacji specyfikacji klientów

WYKONANIE

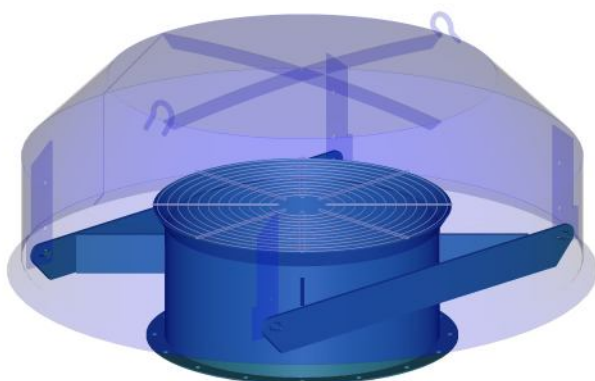
Zwykle produkowane z ocynkowanej ogniowo stali okrętowej klasy A.

Inne materiały to odporne na wodę morską aluminium lub stal nierdzewna.



VENTILATION COWLS

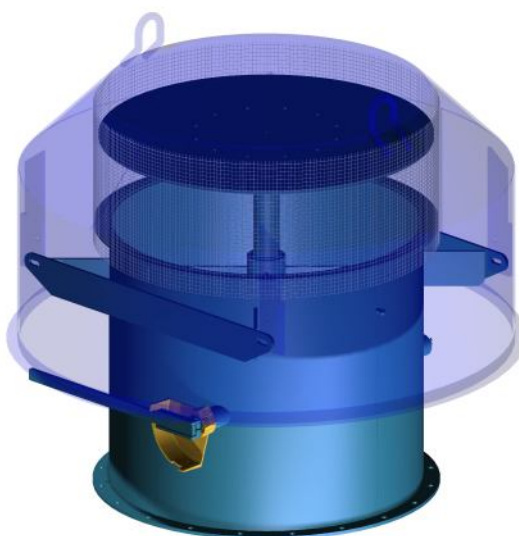
KH - R10



KHE - R1F



KHS - R10V



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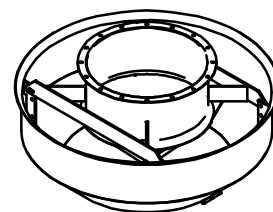
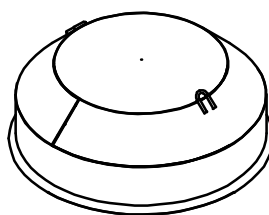
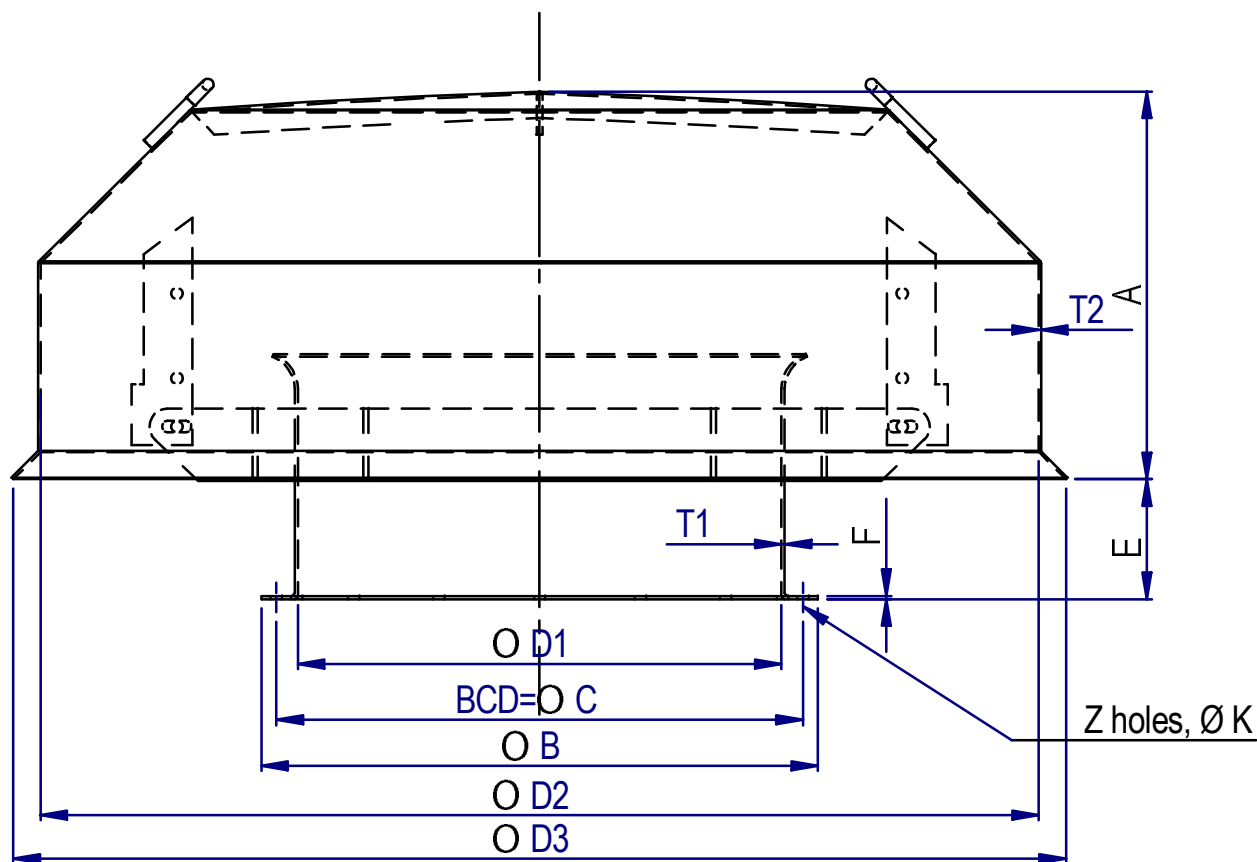
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NYBORG VENTILATION HOOD

For Duct Top Installation
All Hot-Dipped Galvanized

KH - R10



Size	A	B	C	Ø D1	Ø D2	Ø D3	E	F/ T1	T2	Z x K	Weight
250	305	334	310	250	650	700	75	3	2	8x12	
315	305	400	360	315	650	700	75	3	2	8x14	32
355	305	440	405	355	650	700	75	3	2	8x14	34
400	470	484	460	400	900	960	85	3	3	12x14	63
450	470	534	510	450	900	960	85	3	3	12x14	64
500	470	584	560	500	900	960	85	3	3	12x14	66
630	550	736	698	630	1300	1380	115	4	3	16x14	129
710	550	816	775	710	1300	1380	115	4	3	16x14	131
800	650	906	870	800	1650	1740	200	4	4	16x19	244
900	650	1028	980	900	1650	1740	200	5	4	16x19	248
1000	870	1128	1080	1000	1850	1940	130	5	4	20x19	

4-2219

R.Berge

10/12-02



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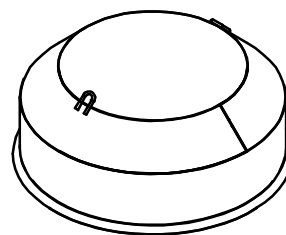
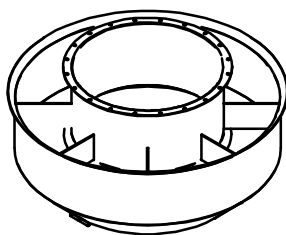
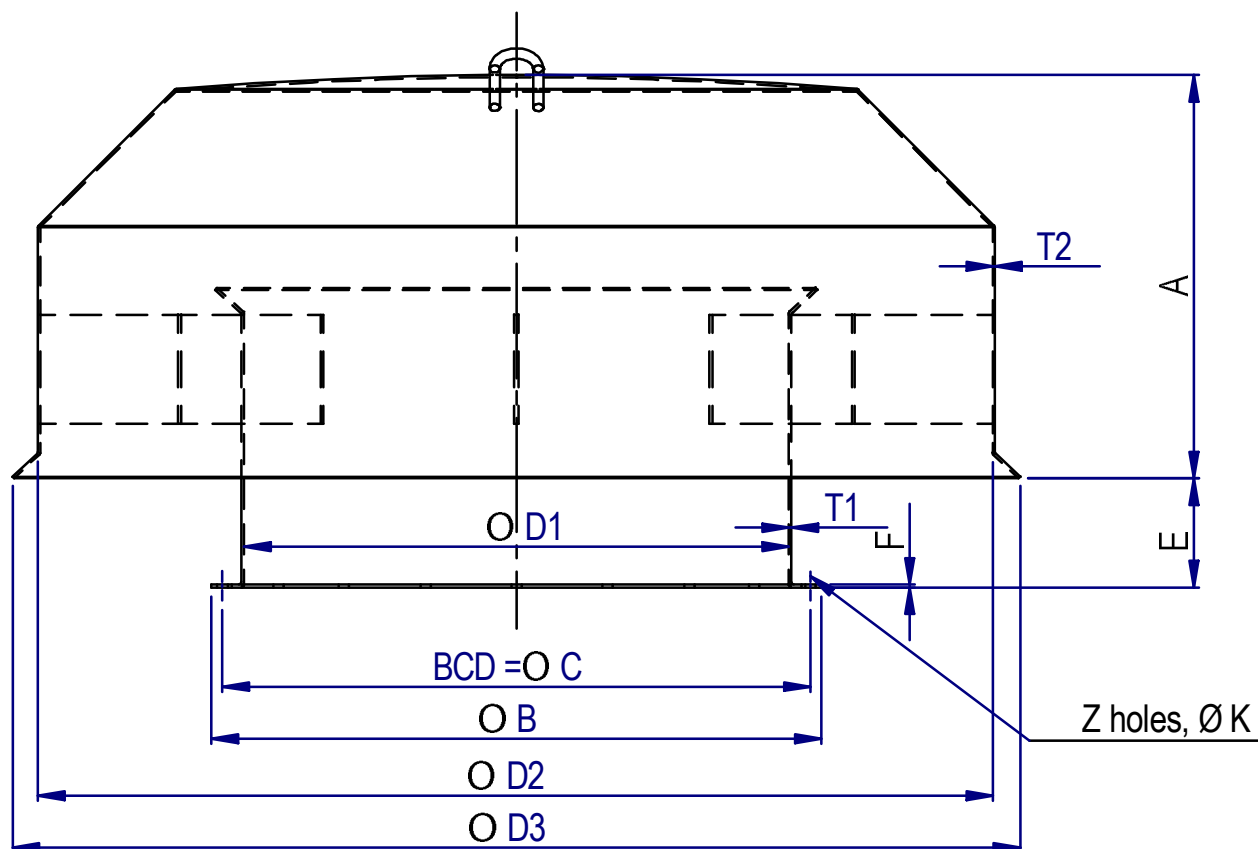
KH - R10



NYBORG VENTILATION HOOD

For Duct-Top Installation
All Hot-Dipped Galvanized

KH - R1F



Size	A	B	C	Ø D1	Ø D2	Ø D3	E	F/ T1	T2	Z x K	Weight
1000	740	1128	1080	1000	1750	1850	200	5	4	20xØ19	
1120	760	1228	1200	1120	1850	1950	200	5	4	20xØ19	
1250	770	1380	1320	1250	2050	2150	250	6	5	24xØ14	
1400	900	1530	1490	1400	2400	2510	250	6	5	32xØ19	

4-2241

R.Berge
13/12-02



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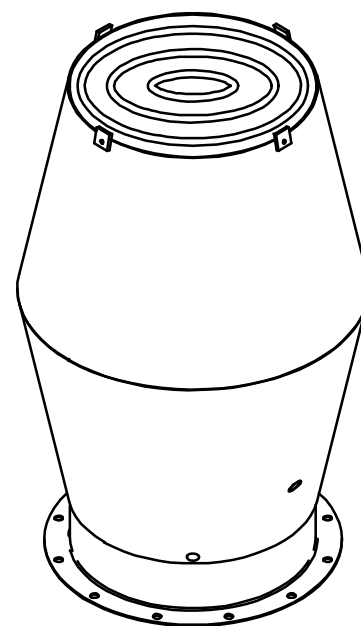
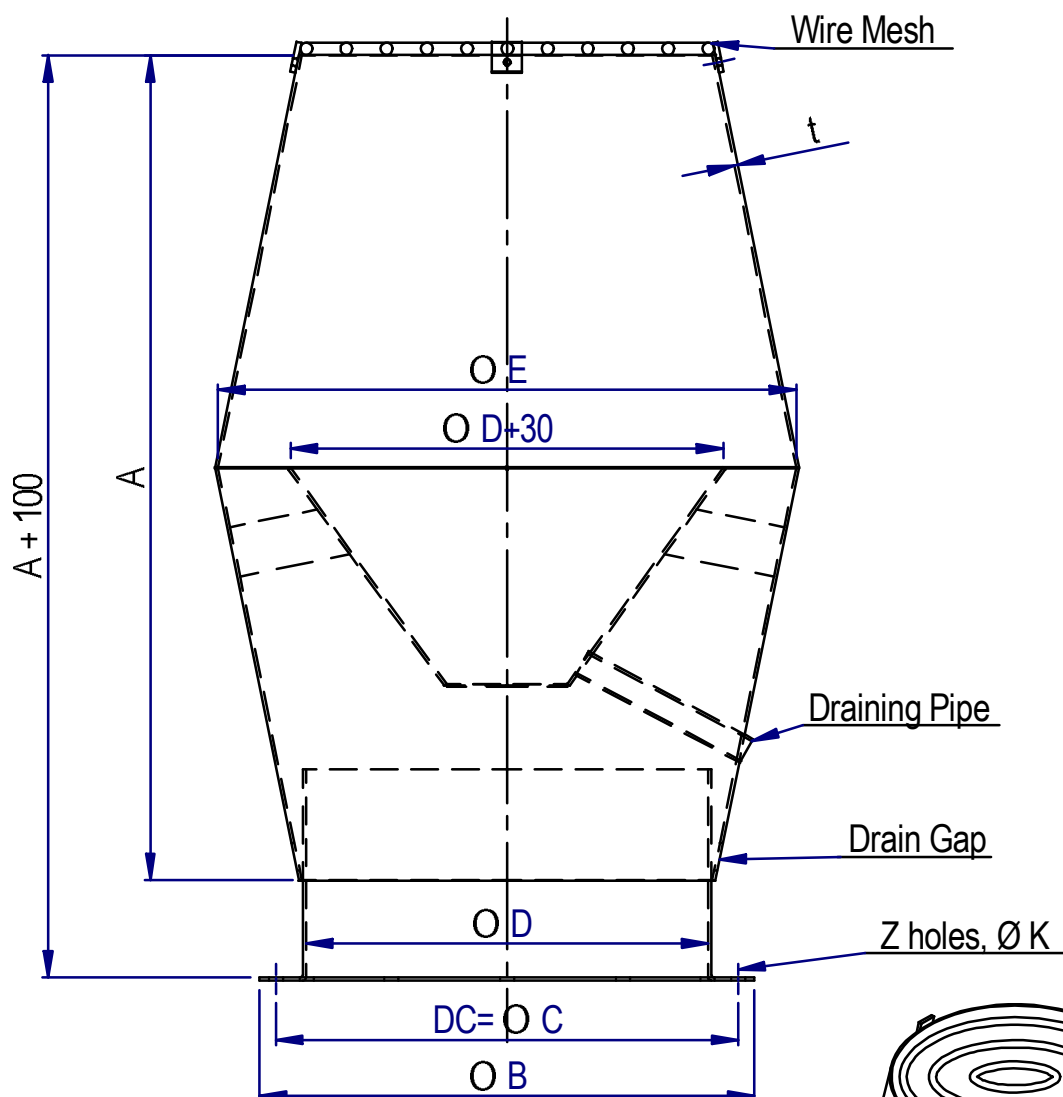
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fax: +47 70 25 29 08
office@nyborgfan.com
www.nyborgfan.com

KH - R1F



JET COWL

KHE - R1F



Size	A	B	C	D	E	T	Z x K
250	410	344	310	250	405	3	8x12
315	550	384	360	315	470	3	8x14
355	770	434	405	355	520	3	8x14
400	820	484	460	400	575	3	12x14
450	890	534	510	450	655	3	12x14
500	980	584	560	500	730	3	12x14
630	1220	736	698	630	930	3	16x14
710	1380	806	775	710	1045	3	16x14
800	1530	906	870	800	1155	3	16x19
900	1700	1028	980	900	1305	3	16x19
1000	1880	1128	1080	1000	1455	3	20x19
1120	2060	1248	1200	1120	1640	4	20x19
1250	2260	1380	1320	1250	1850	4	24x14

4-2240

R.Berge
13/12-02
rev. 01.03.05



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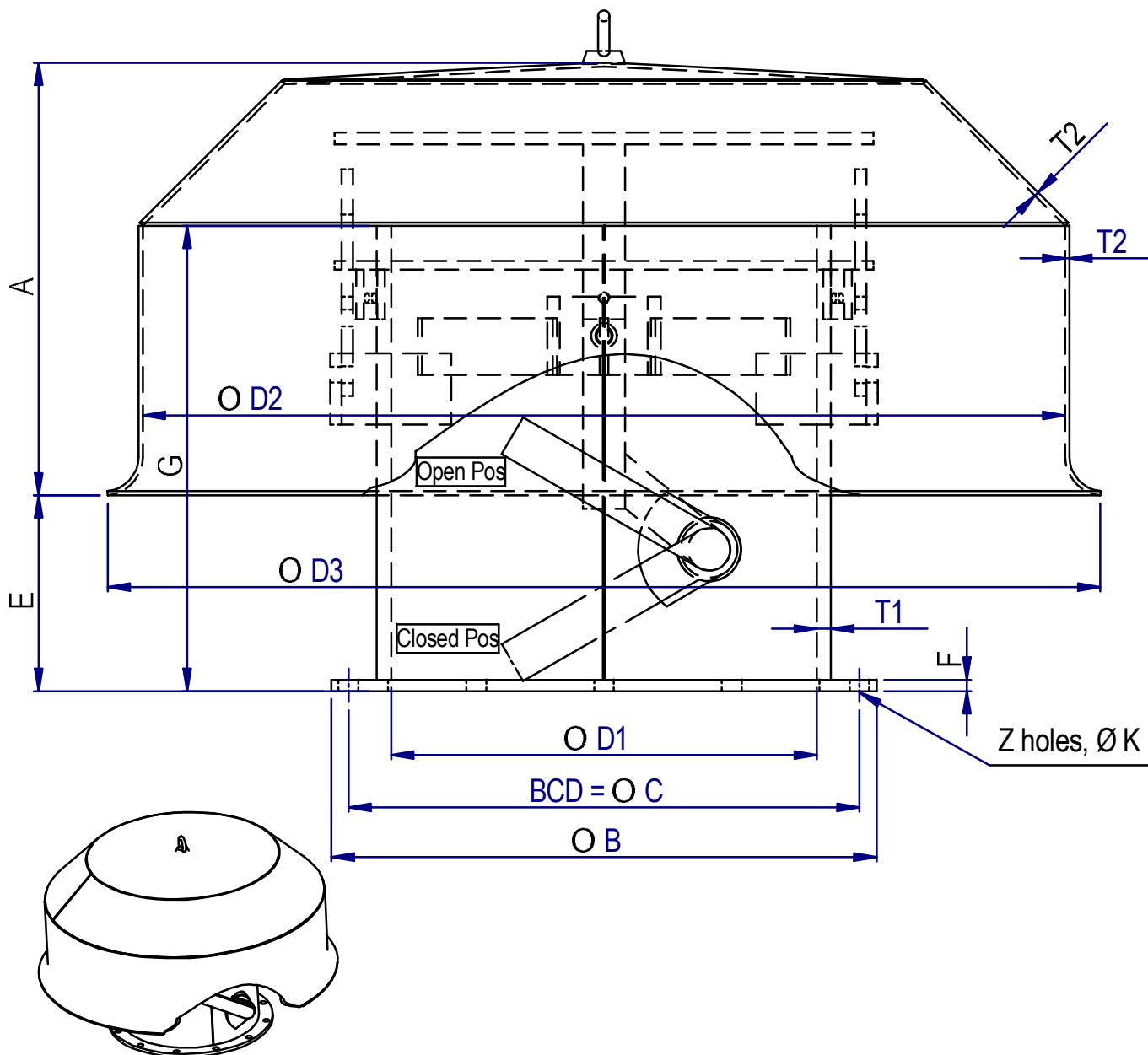
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KHE - R1F



SHUTABLE VENTILATION COWL

KHS - R10V



KHS	A	B	C	Ø D1	Ø D2	Ø D3	E	F	G	T1	T2	Z x K	Weight
250	290	329	292	251	550	590	140	8	330	8	2	8x12	42
300	305	387	360	304	600	640	140	10	340	10	3	8x14	56
350	305	437	405	350	650	700	140	10	340	10	3	8x14	68
400	320	488	460	400	750	800	180	10	348	10	3	12x14	85
450	360	550	510	450	800	850	190	12	430	10	3	12x14	110
500	400	600	560	500	900	950	200	12	470	10	3	12x14	135
550	470	660	630	550	1000	1060	230	12	475	10	3	16x14	155
630	520	740	698	630	1200	1280	230	12	520	10	3	16x14	190
700	555	810	775	700	1300	1375	240	12	525	10	3	16x14	215
800	600	912	870	800	1500	1600	430	12	705	10	3	16x19	260

4-2154

R.Berge
04/03-03



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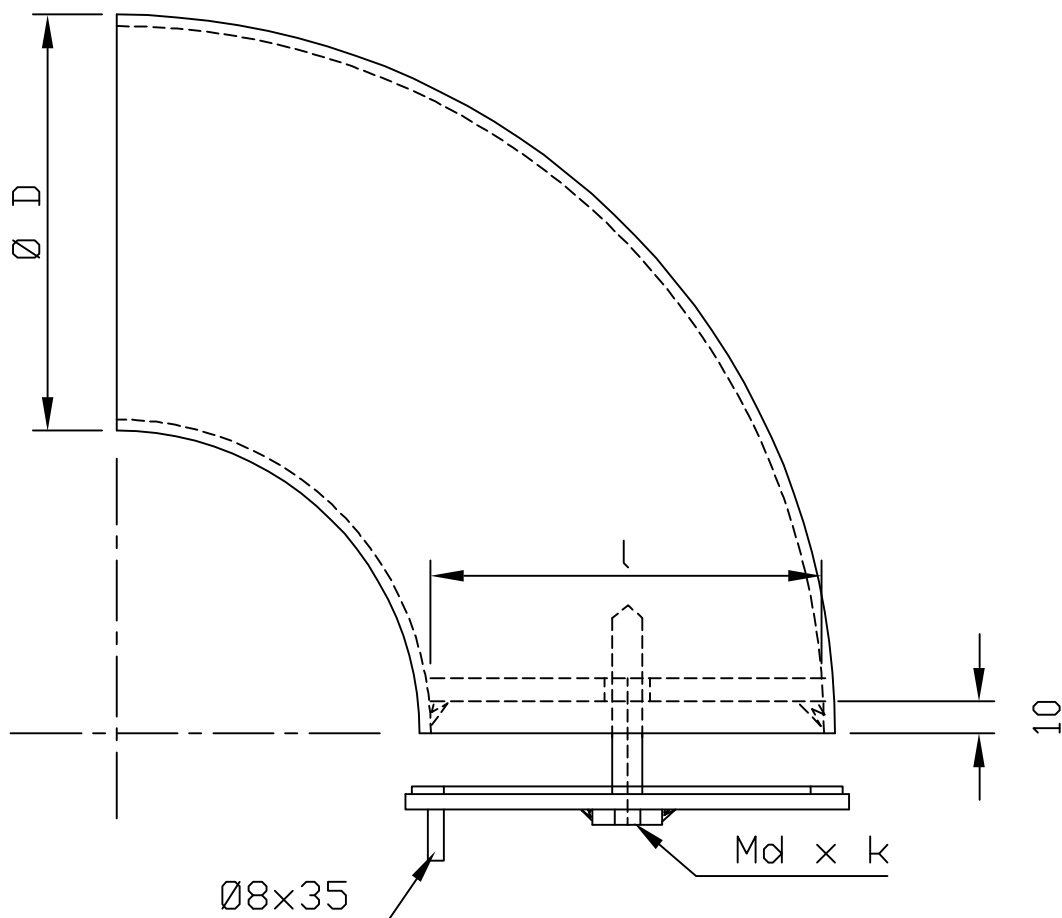
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KHS - R10V



DIMENSION DRAWING

SWAN NECK TYPE A



Dim.	ØD	r	t	Md x k	l	Weight [kg]	Remarks
50	60,3	80	4,5	M8x50	50	2	
80	88,9	120	4,5	M8x50	78	2,5	
100	114,3	150	6,3	M8x50	103	4	
125	139,7	190	8,0	M10x60	128	5,5	
160	168,3	240	8,8	M10x60	157	7,5	
200	219,1	300	8,8	M10x60	204	18	
250	273	375	8,8	M10x60	258	29	
300	323,9	450	8,8	M10x60	308		

Date : 13.10.98

Tegn : 4-1367

Name : M.BERGE



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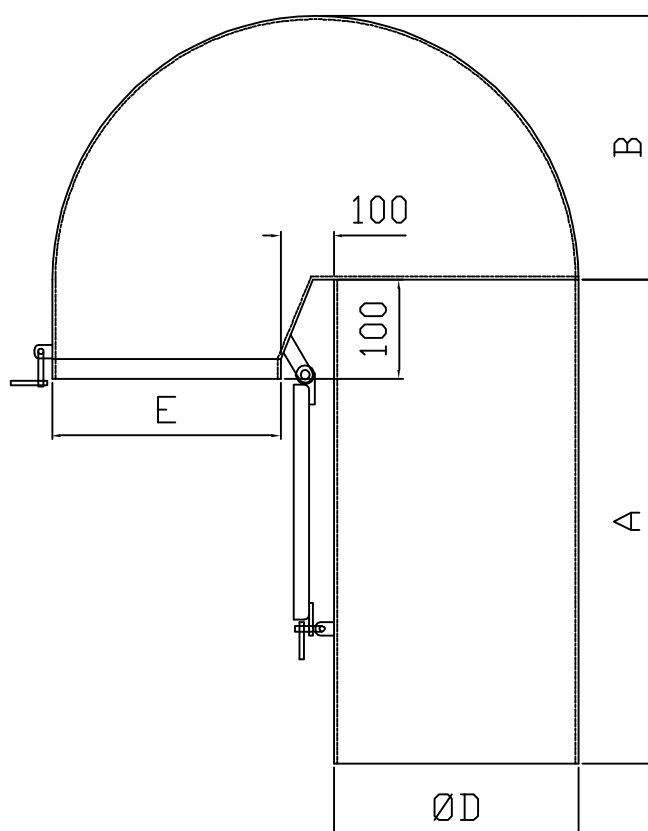
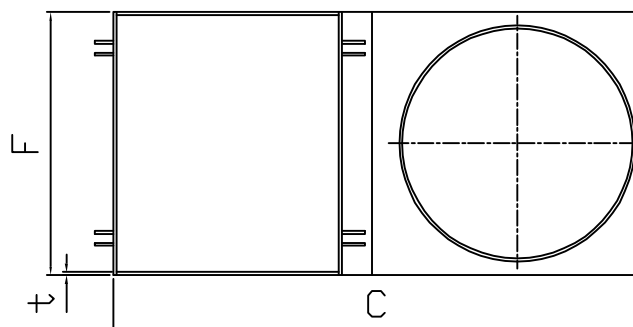
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**SWAN NECK
TYPE A**



Dimension Drawing

Swan
Neck
Type B



Dim	A	B	C	D	E	F	t
200		270	530	200	210	250	4
250		325	640	250	270	280	4
300		390	770	300	350	330	4
350			870	350	400	410	5
400			970	400	450	410	5

Date : 13.10.98

Tegn : 4-1368

Name : M.Berge



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Swan
Neck
Type B



Gen. Arr. Drawing

MPV 1120
D1E

Alt. :

6 mm AISI 316L
c/w mineral wool /
Perf. pl, AISI 316

Laminates, 2 mm GRP
c/w 40 mm core
insulation

Hinges, SS, 6 off

Motor
MPV 1100 AIEG
c/w guide -vanes

Wire-Mesh, AISI 316L

Insulation, 100mm, Rockwool

Perforated Plates, AISI 316L

LSS $\varnothing$ 1120

Frame, th= 10 mm

2400

Derrick

Hub for Derrick

1630

2750 (2550)

1120 (920)

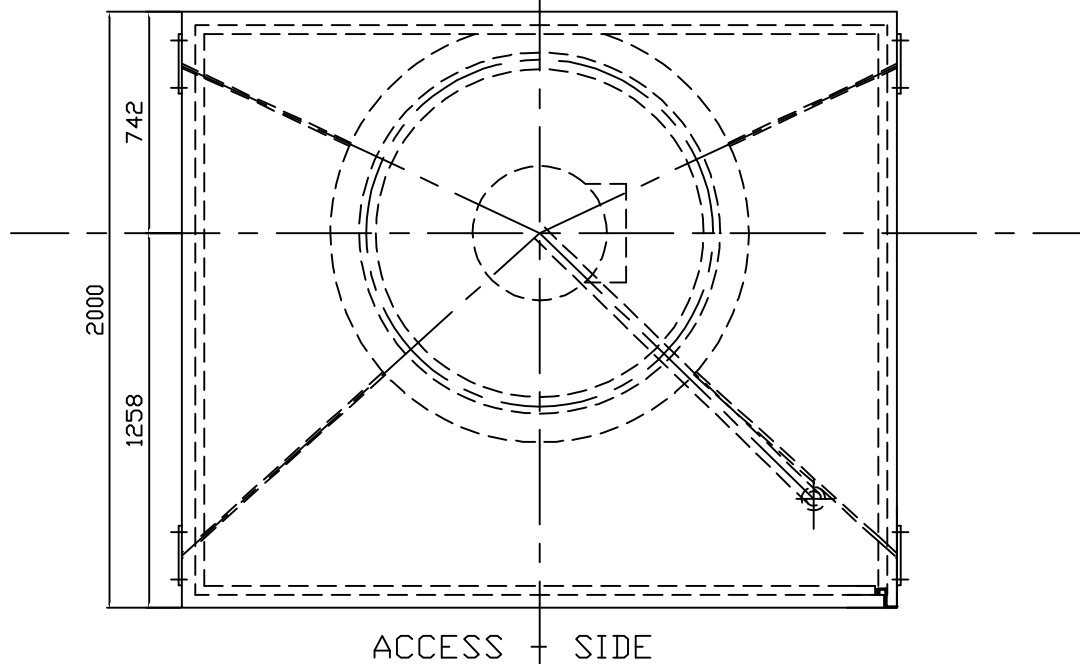
$\varnothing$ 1340

$\varnothing$ 1120

$\varnothing$ 1400

$\varnothing$ 1460

24 off, $\varnothing$ 19 dia



Date : 16/10-98

Tegn : 4-1305

Name : R.Berge



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MPV 1120
D1E