

Application:

Explosion-proof centrifugal fans meeting the requirements of the ATEX directive.

- Fans for pumping explosive gases and vapors.
- Temperature class: from T1 to T3 on request T4.
- Ambient temperature up to +40°C.
- Explosive zone: Z1 (1) and Z2 (2).
- Explosion category: II.

The fans are made in two versions:

To Zone 1 (2G):

II 2G Ex h IIB T3 Gb

Explosion-proof three-phase motor not suitable for speed regulation.

For zone 2 and 22 (3G/3D):

II 3G Ex h IIB+H2 T3 Gc

3D Ex h IIIB T120stC Dc

Explosion-proof three-phase motor adapted to speed regulation dedicated frequency converter.

Construction:

- Fan housing - chromium-nickel steel painted with antistatic paint.
- Radial impeller - chromium-nickel steel painted with antistatic paint.
- Explosion-proof electric motor.

As a standard, we manufacture fans in the LEFT housing arrangement. The arrangement of the RIGHT housing is made to order.

ATTENTION PFPK EX-160/4, PFPK EX-160/2, PFPK EX-160/2D, PFPK EX-180/2 fans are made only in the LEFT casing arrangement.

On request, we manufacture explosion-proof fans:

- to zone 1 for speed regulation,

Technical data:

Typ	Efficiency MAX	Pressure MAX	Input power	Highest speed	Rated Current ** 3x400V 2G	Rated Current ** 3x400V 3G/3D	Noise*	Weight
	[m3/h]	[Pa]	[kW]	[obr./min]	[A]	[A]	[dB(A)]	[kg]
PFPK EX-160/4	1150	250	0,12	1400	0,85	0,47	58	28
PFPK EX-200/4	1540	300	0,18	1400	0,63	0,72	59	33
PFPK EX-250/4	2160	325	0,25	1400	0,71	0,78	60	36
PFPK EX-315/4	3200	450	0,37	1400	0,98	1,1	66	37
PFPK EX-315/4D	3780	600	0,55	1400	1,5	1,55	67	58
PFPK EX-355/4	5800	630	0,75	1400	1,9	1,85	68	62
PFPK EX-400/4	7100	750	1,1	1400	2,7	2,7	71	98
PFPK EX-450/4	9000	900	1,5	1400	3,4	3,5	76	125
PFPK EX-500/4	13000	1200	2,2	1400	4,8	4,7	80	130
PFPK EX-500/4D	14800	1260	3,0	1400	6,5	6,5	80	140
PFPK EX-560/4	17400	1445	4,0	1400	8,1	8,6	81	155
PFPK EX-560/4D	21700	1620	5,5	1400	10,9	11,6	82	168
PFPK EX-630/4	29200	1920	7,5	1400	-	14,4	86	198
PFPK EX-160/2	1100	520	0,18	2800	0,5	0,54	60	25
PFPK EX-160/2D	1800	640	0,25	2800	0,7	0,74	68	26
PFPK EX-180/2	2200	1000	0,55	2800	1,4	1,4	75	28
PFPK EX-200/2	3050	1200	1,1	2800	2,45	2,5	79	30
PFPK EX-250/2	3900	1300	1,5	2800	3,3	3,1	80	43
PFPK EX-315/2	6500	1820	2,2	2800	4,6	4,55	82	52
PFPK EX-315/2D	8600	2180	3,0	2800	6	6,1	83	54
PFPK EX-355/2	9360	2500	4,0	2800	7,8	7,5	85	92
PFPK EX-400/2A	12500	2700	5,5	2800	10,5	10,5	90	122
PFPK EX-400/2	15120	3400	7,5	2800	12,7	14,5	92	128
PFPK EX-450/2	17640	3900	11,0	2800	20	20	95	159
PFPK EX-500/2	22356	5020	18,5	2800	-	33	97	279
PFPK EX-500/6	8100	470	0,75	900	2,1	2,1	71	119

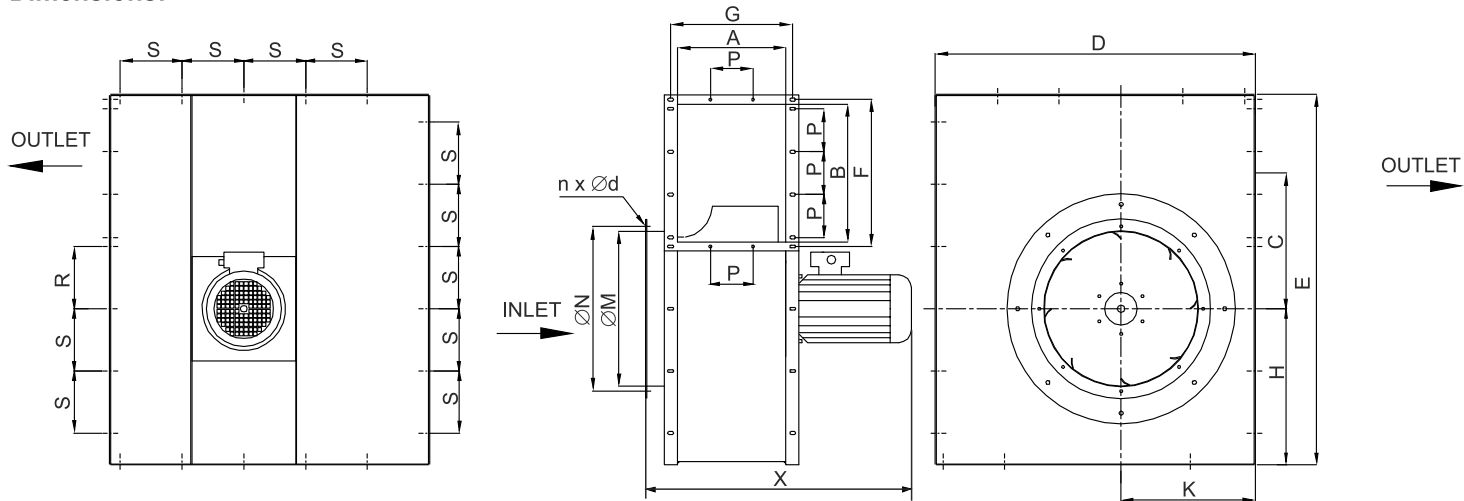
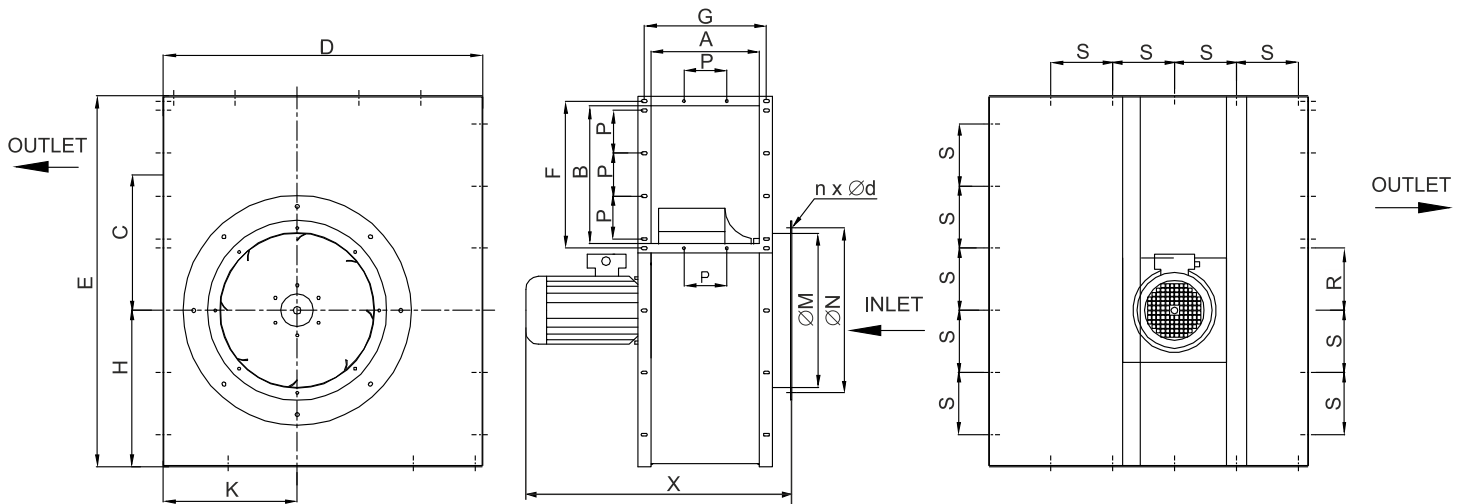
**Guide values, may change the application depending on the motor used
Rated currents are given on the rating plate and in the operating instructions.

*Measurement at a distance of 4m



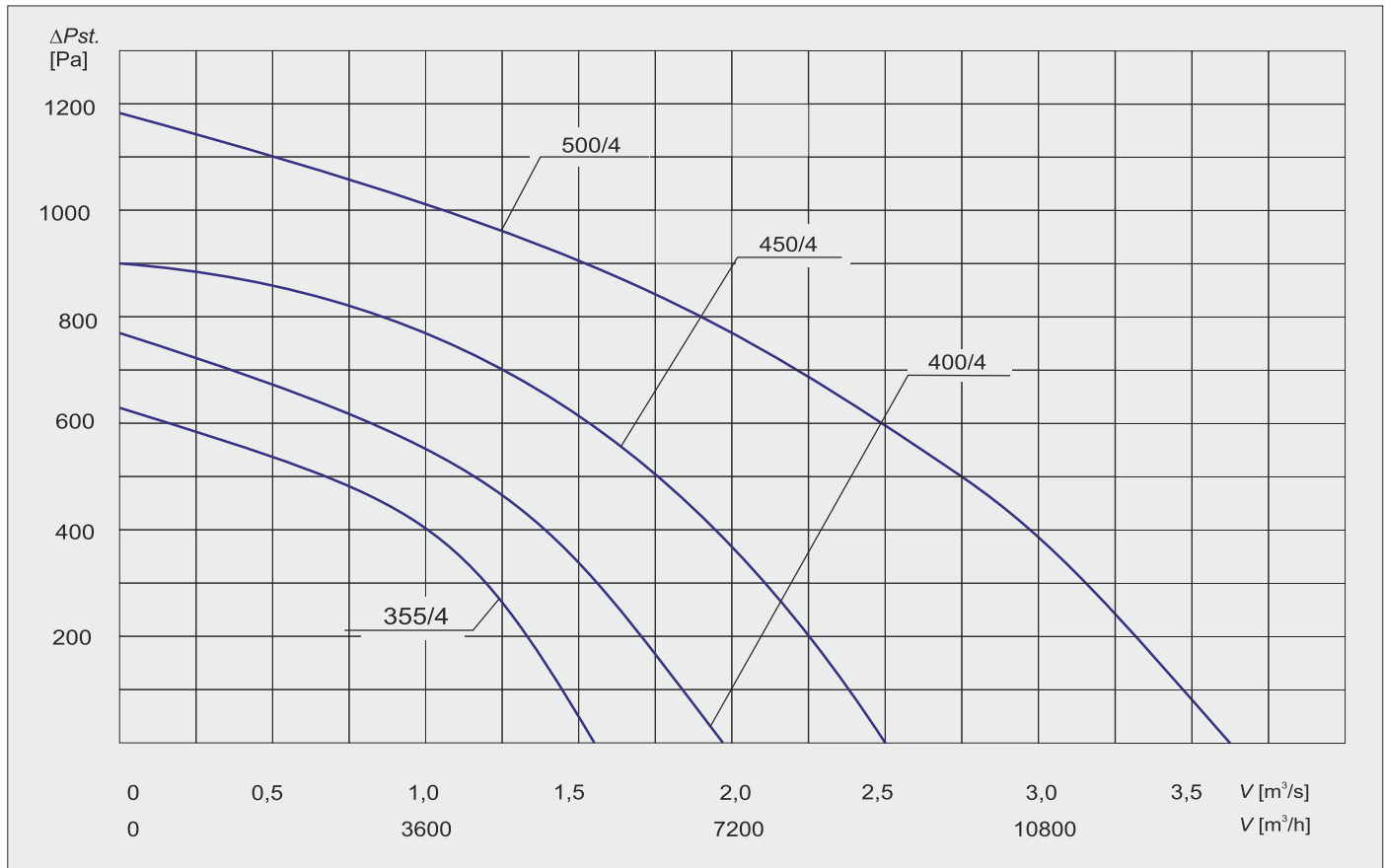
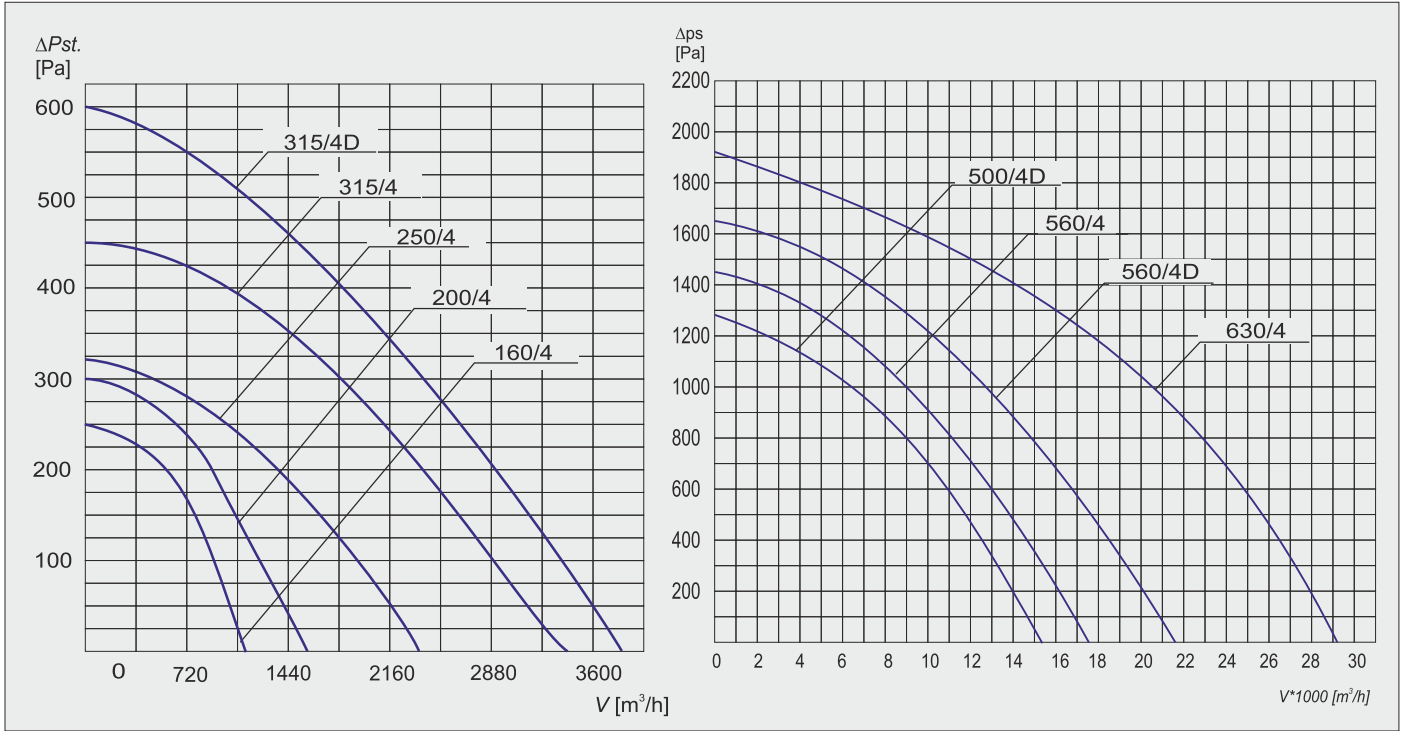
DIAGRAM OF THE HOUSING IN THE LEFT ARRANGEMENT

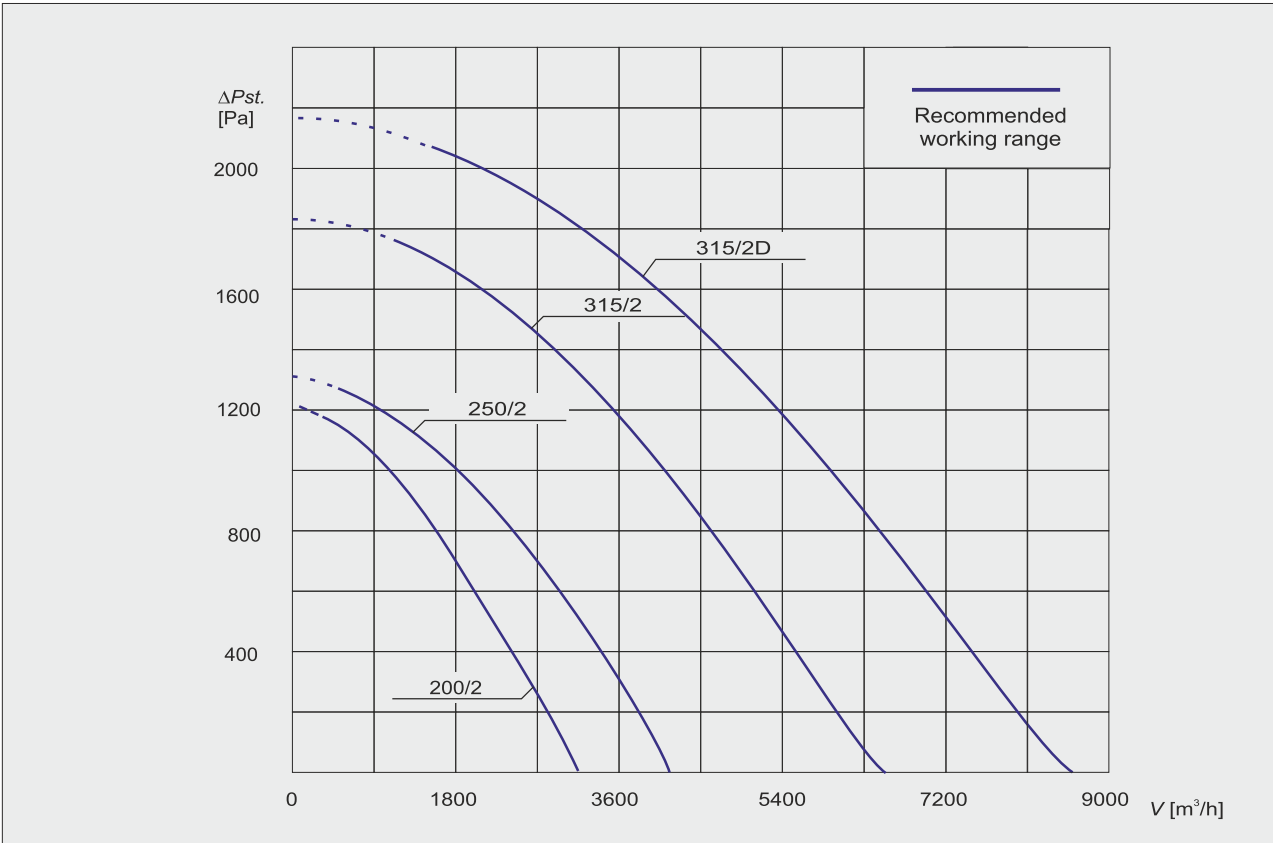
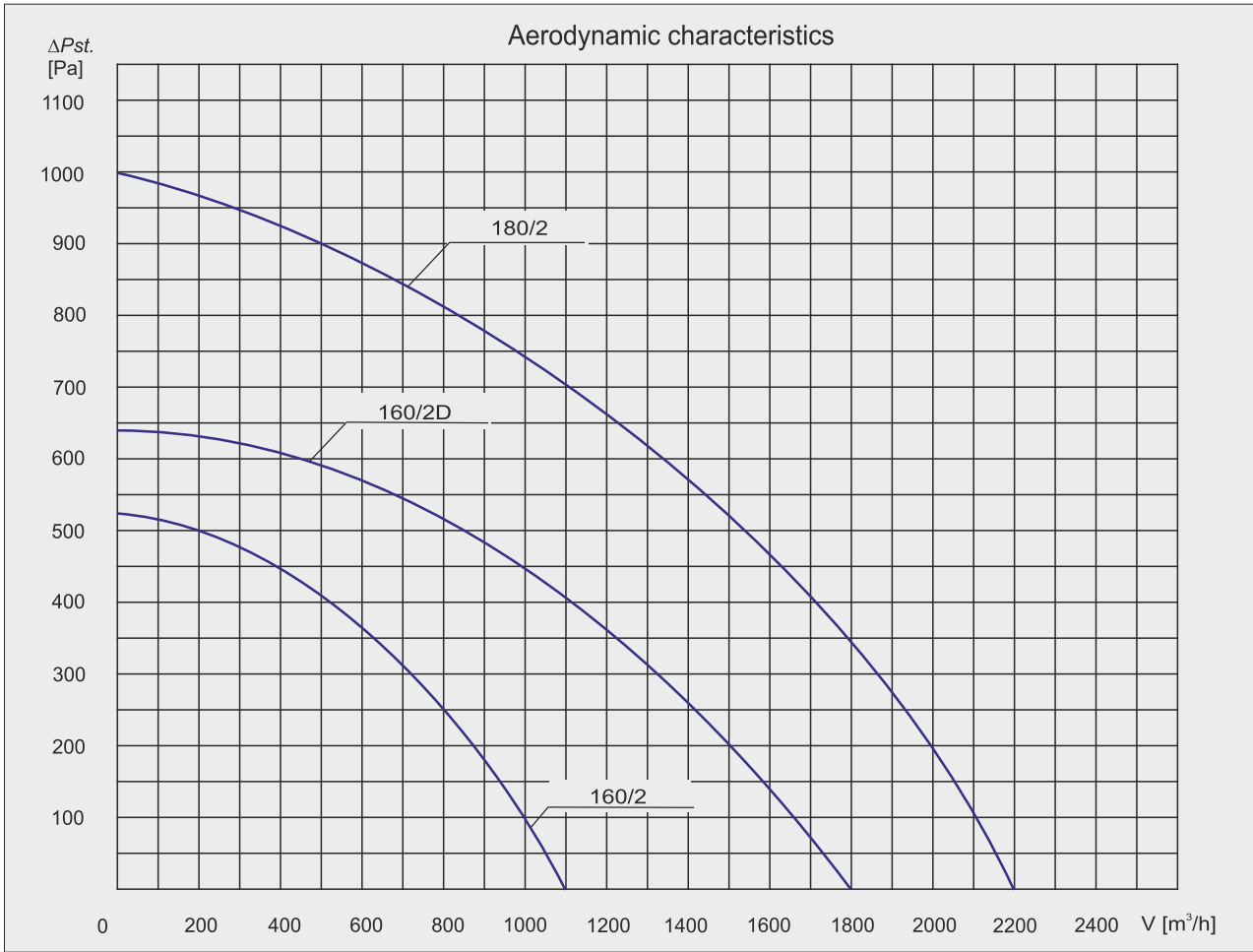
Dimensions:


DIAGRAM OF THE HOUSING IN THE RIGHT ARRANGEMENT


Typ	A	B	C	D	E	H	K	S	R	M	N	X	n x d	G	P	F
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
PFPK (OH, EX)-160/2	140	150	150	360	430	175	150	120	60	160	185	410	4 x 7	174	-	180
PFPK (OH, EX)-160/2D	150	160	165	400	470	195	170	140	70	160	185	445	4 x 7	184	-	190
PFPK (OH, EX)-160/4	200	200	200	480	560	230	200	170	85	160	205	510	4 x 7	234	-	230
PFPK (OH, EX)-180/2	200	200	200	480	560	230	200	170	85	160	205	510	4 x 7	234	-	230
PFPK (OH, EX)-200/2	200	200	225	500	600	245	210	110	110	200	225	546	4 x 9,5	236	-	230
PFPK (OH, EX)-200/4	200	200	225	500	600	245	210	110	110	200	225	485	4 x 9,5	236	-	230
PFPK (OH, EX)-250/2	200	250	240	550	670	275	230	200	100	250	275	590	4 x 9,5	236	140	280
PFPK (OH, EX)-250/4	200	250	240	550	670	275	230	200	100	250	275	512	4 x 9,5	236	140	280
PFPK (OH, EX)-315/2, 2D	250	315	298	700	820	344	300	250	125	315	352	676	8 x 9,5	286	140	345
PFPK (OH, EX)-315/4	250	315	298	700	820	344	300	250	125	315	352	560	8 x 9,5	286	140	345
PFPK (OH, EX)-315/4D	250	315	298	700	820	344	300	250	125	315	352	590	8 x 9,5	286	140	345
PFPK (OH, EX)-355/2	250	315	307	750	850	355	325	135	135	355	392	685	8 x 9,5	296	140	345
PFPK (OH, EX)-355/4	250	315	307	750	850	355	325	135	135	355	392	580	8 x 9,5	296	140	345
PFPK (OH, EX)-400/2, 2A	315	355	362	850	980	410	360	170	170	400	438	845	8 x 9,5	361	140	385
PFPK (OH, EX)-400/4	315	355	362	850	980	410	360	170	170	400	438	686	8 x 9,5	361	140	385
PFPK (OH, EX)-450/2	315	400	405	940	1080	445	410	190	190	450	488	910	8 x 9,5	361	140	428
PFPK (OH, EX)-450/4	315	400	405	940	1080	445	410	190	190	450	488	705	8 x 9,5	361	140	428
PFPK (OH, EX)-500/2	355	450	442	1050	1210	510	440	203	203	500	538	990	8 x 9,5	400	140	480
PFPK (OH, EX)-500/4	355	450	442	1050	1210	510	440	203	203	500	538	780	8 x 9,5	400	140	480
PFPK (OH, EX)-500/6	355	450	442	1050	1210	510	440	203	203	500	538	780	8 x 9,5	400	140	480
PFPK (OH, EX)-500/4D	355	450	442	1050	1210	510	440	203	203	500	538	780	8 x 9,5	400	140	480
PFPK (OH, EX)-560/4	400	500	511	1200	1350	560	530	247	247	560	600	832	12 x 9,5	443	140	528
PFPK (OH, EX)-560/4D	400	500	511	1200	1350	560	530	247	247	560	600	832	12 x 9,5	443	140	528
PFPK (OH, EX)-630/4	450	550	580	1350	1550	650	565	285	285	630	670	946	12 x 9,5	496	140	590

Aerodynamic characteristics





Charakterystyki aerodynamiczne PFPK (OH,EX)

