



NYBORG - MAWENT



CENTRIFUGAL FANS ZWWOax

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APPLICATION:

Centrifugal ZWWOax fans are intended for pressing of inert gas in general ventilation systems and process lines. Allowable dust content must not exceed 0,3g/m³.

CONSTRUCTION:

Main elements of the set such as: impeller, casing, base frame are made of standard steel of ordinary quality. In corrosion and heat-corrosion resistant executions the impeller and casing are made of steel with increased resistance to corrosion. On client's request other kinds of steel can be used.

DRIVES:

- Direct drive (1) – up to 80°C
- Direct drive-C* (1) – up to 220°C
- Indirect belt drive (2) – up to 350°C
- Indirect coupling drive (4) – up to 350°C

*In case of heat-resistant execution up to 220°C in direct drive (1) please contact our sales department.

PROTECTION AGAINST CORROSION:

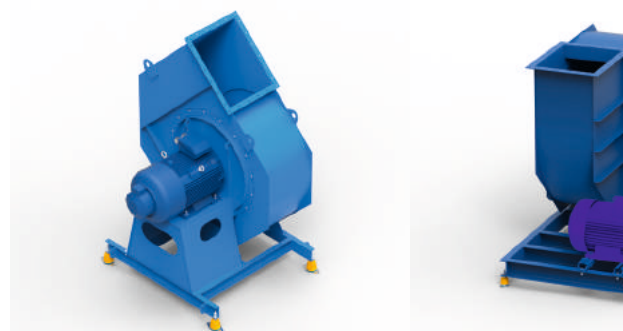
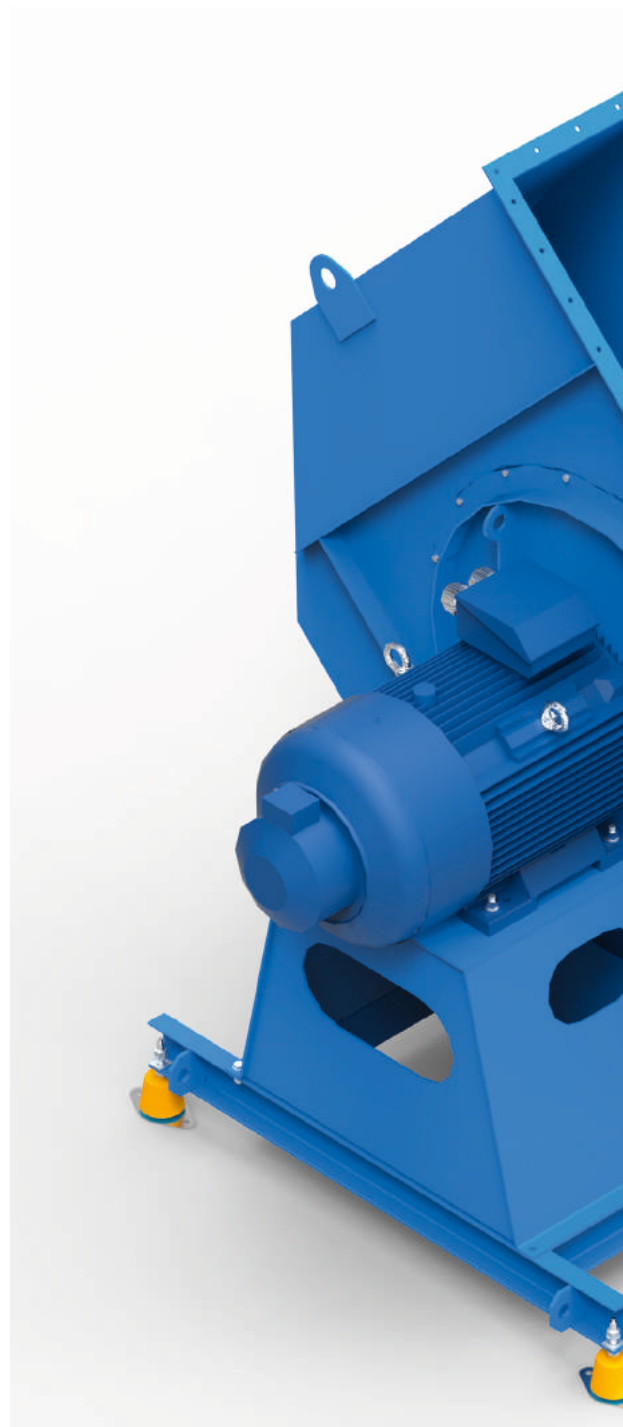
- Standard execution - painting with standard set of paints, C3 class, RAL 5009,
- Heat resistant execution - painting with a set of paints resistant to heat up to 350°C

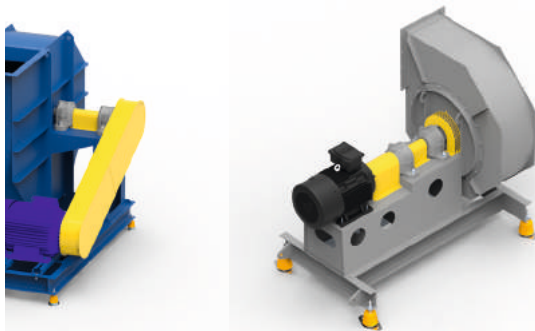
Options: hot deep galvanizing, acid treatment, passivation, glass blasting, chemo-resistant painting and in C4 and C5 classes on Client's request

MOTOR:

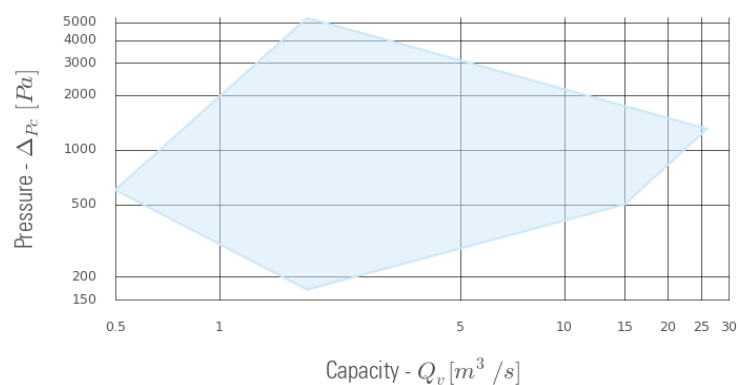
In standard the fans are driven by three-phase electric motors in IP55 execution, insulation class F, from world-renown producers. Ambient temperature must not exceed 40°C.

Motors for special execution available on Client's demand.





WORKING FIELD OF THE FAN:



ATEX:

The explosion-proof fans are meant for operation in potentially explosive areas according to ATEX 94/9/WE directive.

Available executions:

- Zones 2 and 1 for gases (3G/2G)
- Zones 22 and 21 for dusts (3D/2D)

MOUNTING POSITIONS:

Each size of fan is produced with 8 locations of fan's outlet:

- Right: RD0, RD90, RS180, RD270
- Left: LG0, LG90, LG180, LG270

Other mounting positions available after contact with sales department.

ACCESSORIES:

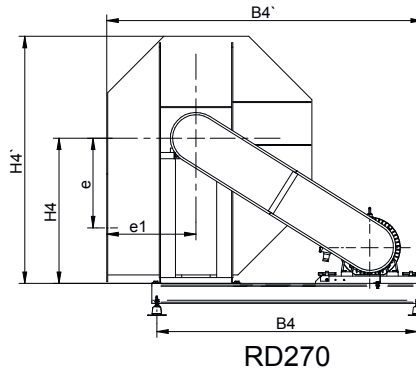
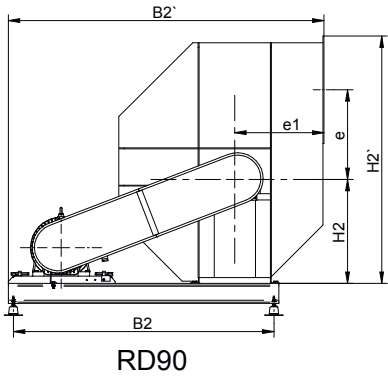
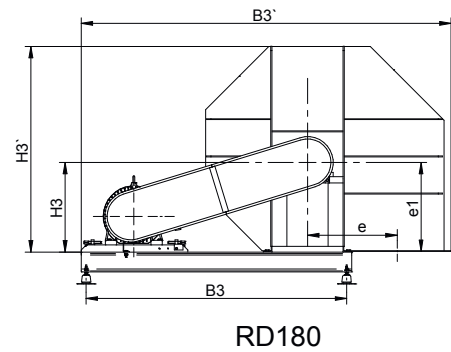
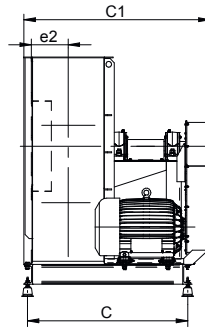
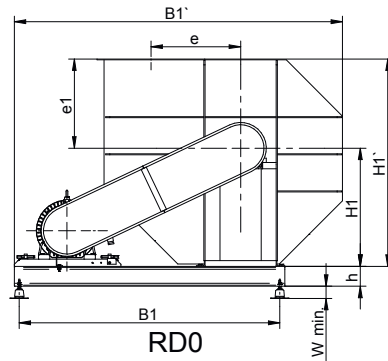
Available accessories used for our fans are included in Fan's Accessories Catalogue.

Due to constant improvement of our products we reserve the possibility of design changes which will increase their advantages and safety. Given dimensions are visual, we reserve the possibility of changes.

FAN TYPE ZWWOAX 45-100 WITH DIRECT DRIVE (NAP.1)

ZWW0ax	Motor power	e	e1	e2	s	s1	s2	s3	H1	H2	H3	H4	H1`	H2`	H3`	H4`	h	W	B	B1	B2	C	C`	C1	C1`	d	n	Impeller flywheel effect GD2	Fan weight		
	[kW]	[mm]																								[szt.]		[Nm2]	[kg]		
45	1.1	450	451	187	500	460	172	210	600	750	1051	1328	1181	1256	80	85	950	1234	1081	920	970	960	1010	18	5	-	245				
	1.5																										250				
	2.2																										255				
	3																										260				
	5.5																										285				
	7.5																										318				
	22																										412				
	30																										515				
56	1.5	560	557	234	600	555	315	259	740	900	1297	1633	1469	1530	100	85	1040	1523	1286	870	1002	920	990	18	7	-	330				
	2.2																										335				
	4																										360				
	7.5																										360				
	11																										420				
	15																										448				
	18,5																										500				
	22																										515				
63	2.2	630	626	254	570	630	300	289	830	730	630	1020	1456	1738	1444	1735	140	85	870	1440	1723	939	1009	993	1063	19	5	196,5	368		
	3																												379		
	4																												385		
	5.5																												390		
	7.5																												409		
	11																												442		
	15																												437		
	18,5																												478		
71	2.2	710	681	266	690	703	500	319	940	830	700	1170	1621	1958	1918	1975	200	135	990	1933	1599	1119	1206	1145	1225	19	5	-	493		
	3																												445		
	4																												510		
	5.5																												510		
	7.5																												515		
	11																												550		
	15																												600		
	18,5																												640		
80	30	800	766	325	690	773	500	354	1060	950	800	1320	1826	2213	1835	2227	200	135	990	2170	1800	1290	1308	1219	1306	1300	1380	19	5	-	605
	37																														835
	5.5																														860
	7.5																														870
	11																														920
	15																														960
	18,5																														972
	22																														1030
100	37	1000	995	410	800	890	620	445	1320	1180	995	1570	2315	2745	2300	2710	220	135	1620	2724	2350	1730	1515	1545	1590	24	7	-	1132		
	11																												1375		
	15																												1420		
	22																												1490		

TECHNICAL DATA

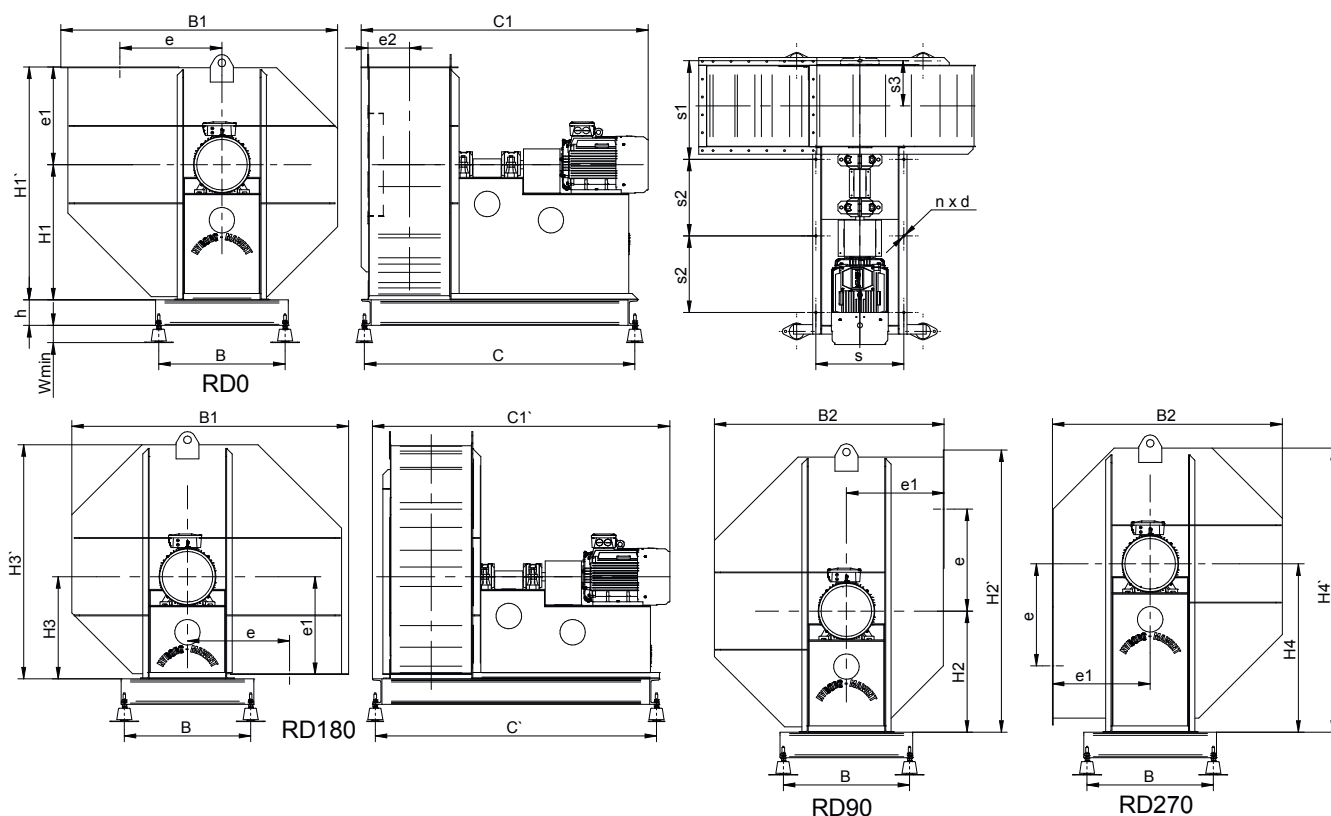


The drawing presents the fan in RD mounting position, LG is its mirror reflection.
Visual drawing. We reserve the right to implement changes.

FAN TYPE ZWWOAX 63-100 WITH V-BELT DRIVE (NAP.2)

ZWW0ax	Motor Power	e	e1	e2	H1	H2	H3	H4	H1`	H2`	H3`	H4`	h	Wmin	B1	B2	B3	B4	B1`	B2`	B3`	B4`	C	C1	d	n	Impeller fly-wheel effect GD2	Fan weight
	[kW]																								[mm]	[szt.]	[Nm2]	[kg]
63	2.2														1850	1895	1930	1740	2300	2280	2700	2125					570	
	3.0														1795	1840	1875	1680	2270	2225	2645	2065					579	
	4.0														1835	1880	1915	1725	2310	2265	2685	2110	1125	1280	19	5	585	
	5.5														1825	1865	1900	1785	2300	2250	2670	2100					635	
	7.5	630	626	715	830	730	630	1020	1456	1738	1444	1735	140	85	1830	1875	1915	1720	2305	2755	2670	2105					669	
	11																										700	
	15																										694	
	18.5																										750	
	22																										761	
	30																							1309			860	
80	5.5														1770	1845	1770	1525	2387	2321	2893	2001					966	
	7.5														1730	1800	1730	1500	2347	2276	2848	1976	1300	1450	19	5	587	987
	11																										1040	
	15	800	766	907	1060	950	800	1320	1925	2260	1940	2330	140	135	2060	2110	2060	1875	2677	2586	3143	2951					1055	
	18.5																										1090	
	22																										1172	
	30																										1250	
	37																										1253	
	45														2625	2715	2400	2410	3015	2965	3614	2660					1904	
	55														2675	2760	2440	2470	3065	3010	3654	2720	1600	1760	24	7	2000	
100	11																										2055	
	15																										2092	
	18.5																										2253	
	22																										2302	
	30	1000	995	1160	1320	1180	1000	1570	2315	2745	2300	2710	220	135	3060	3035	2795	2895	3450	3285	4009	3145	1600	1826			2330	
	37																										2420	
	45																										2420	
	55																										2650	
	75														3205	3270	2930	3045	3595	3520	4144	3295					2650	

TECHNICAL DATA

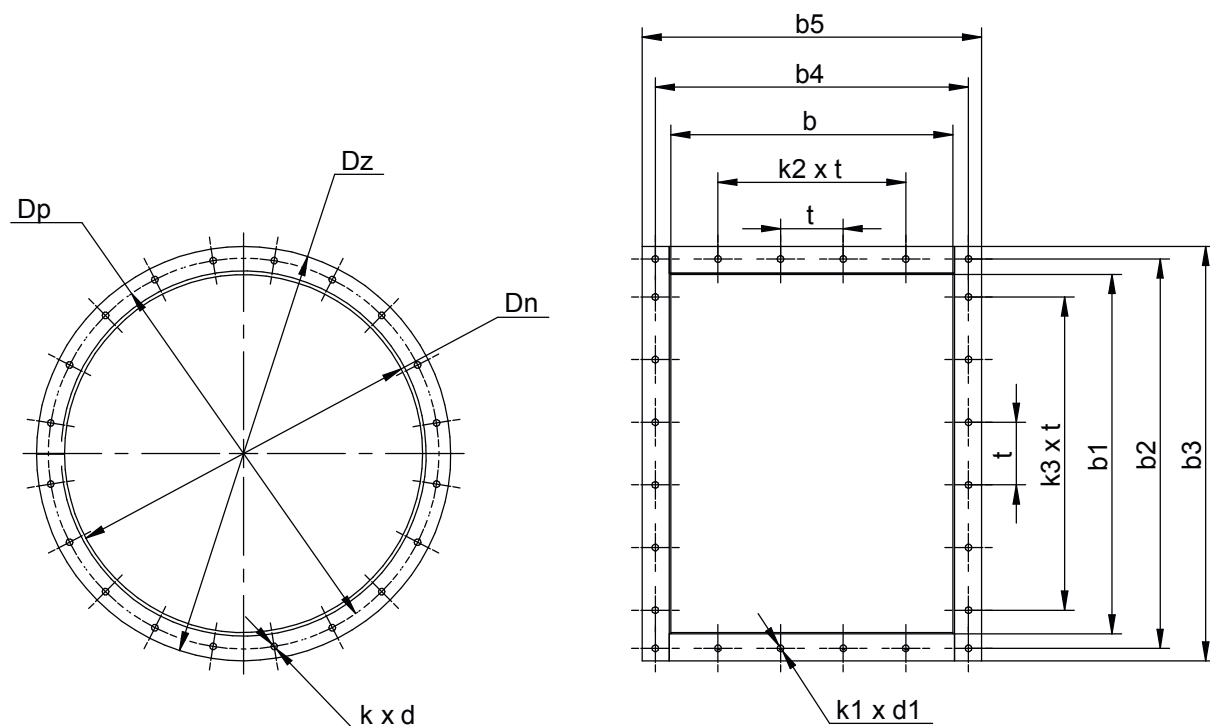


The drawing presents the fan in RD mounting position, LG is its mirror reflection.
Visual drawing. We reserve the right to implement changes.

FAN TYPE ZWWOAX 45-100 WITH COUPLING DRIVE (NAP.4)

ZWW0ax	Motor power	e	e1	e2	s	s1	s2	s3	H1	H2	H3	H4	H1`	H2`	H3`	H4`	h	Wmin	B	B1	B2	C	C`	C1	C1`	d	n	Impeller flywheel effect GD2	Fan weight		
	[kW]																								[mm]		[sz]		[Nm2]	[kg]	
45	1.1	450	451	187	500	461	505	210	600	750	750	750	1051	1478	1331	1256	160	135	950	1234	1081	1470	-	1475	-	18	7	-	425		
	-																						1515	-	430						
	-																						1510	-	442						
	-																						1515	-	435						
	-																						1575	-	457						
	-																						1638	-	468						
	1720																						-	1776	-				538		
	1620																						-	1810	-				671		
	1720																						-	1898	-				671		
	45																													461	630
56	1.5	560	557	231	390	560	560	234	740	740	740	900	1297	1633	1480	1530	100	85	1040	1523	1297	1575	1585	1685	18	7	-	480			
	1640																						1645	1745				490			
																							1685	1785				505			
																							1800	1900				577			
	1675																						1740	1800				1900	611		
																							1857	1957				641			
																							1880	1980				690			
	1715																						1780	1920				2020	700		
																							1810	1885					646		
	2.2																														
63	3.0	630	626	256	570	643	600	289	830	730	630	1020	1456	1738	1444	1735	160	135	870	1723	1440	1839	1874	1949	19	7	196,5	664			
																							1850	1925				614			
																							1874	1949				614			
	1896																						1971	1920				1995	670		
																							1920	1995				705			
																							1920	1995				700			
																							1950	2025				678			
																							1990	2065				687			
																							1905	1985				650			
	1970																						2050					740			
71	4.0	710	681	266	690	703	500	319	940	830	700	1170	1621	1958	1918	1975	200	135	990	1933	1599		1975	2055	19	7	-				
																							2010	2090				797			
																							2060	2140				867			
																							2101	2182				897			
	1970																						2055	2101				2182	960		
																							2145	2227					1300		
																							2050	2145					1300		
																							2106	2191					1327		
																							2071	2156					1354		
																							2118	2203					1204		
80	5.5	800	766	324	690	773	600	359	1060	950	800	1320	1826	2213	1835	2227	200	135	990	2170	1081	2039	2124			19	7	587	1261		
	2106																												2191	1454	
	2156																												2241	1529	
	2255																												2340	1270	
																															1965
100	11	1000	995	409	800	890	800	445	1320	1180	1000	1570	2315	2745	2300	2710	220	135	1620	2724	2350	2588	2668	2555	2635	24	9	1580	1965		

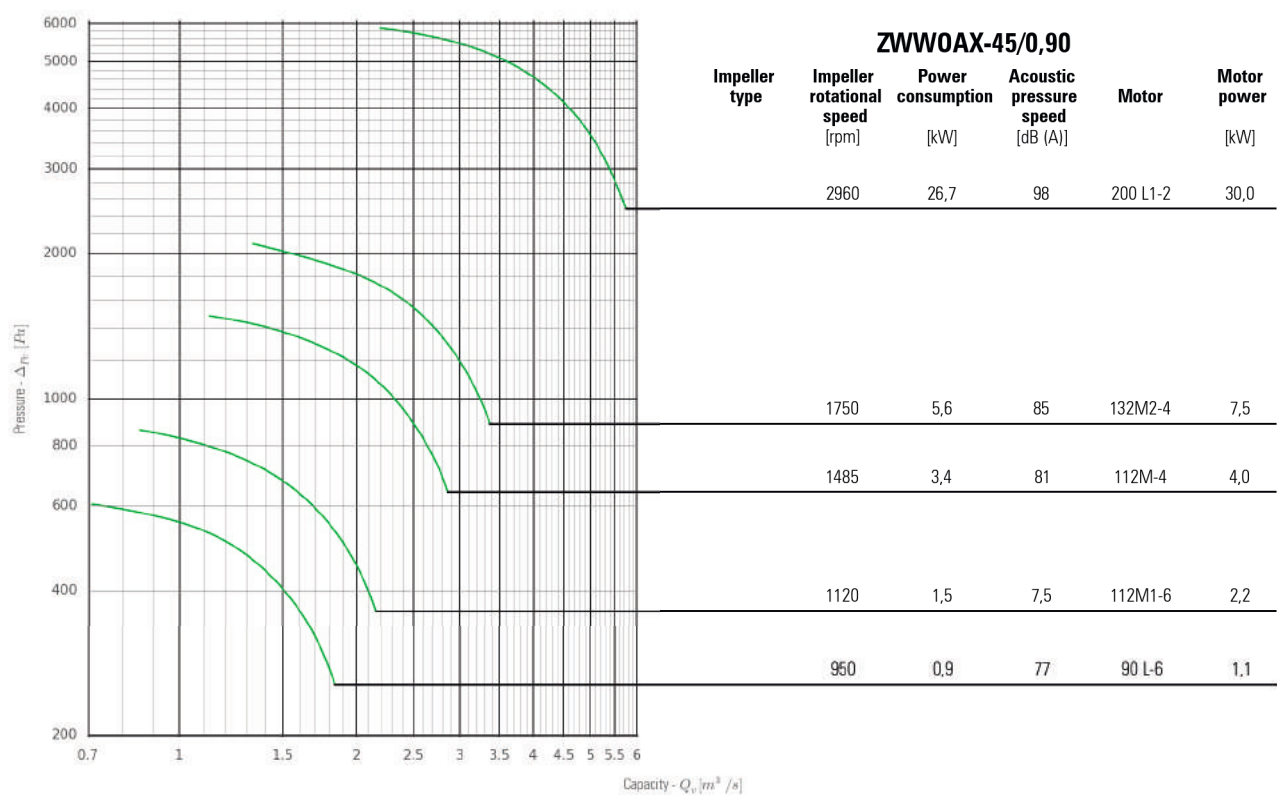
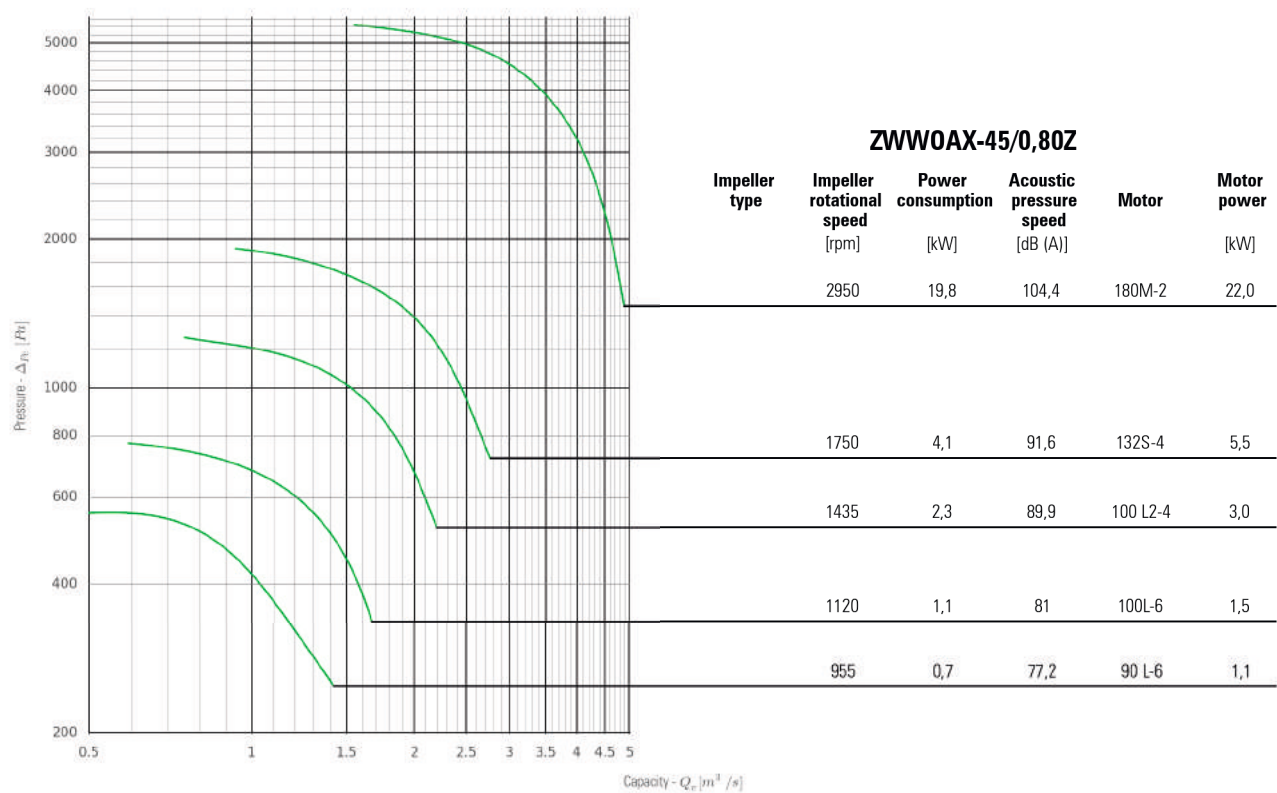
TECHNICAL DATA



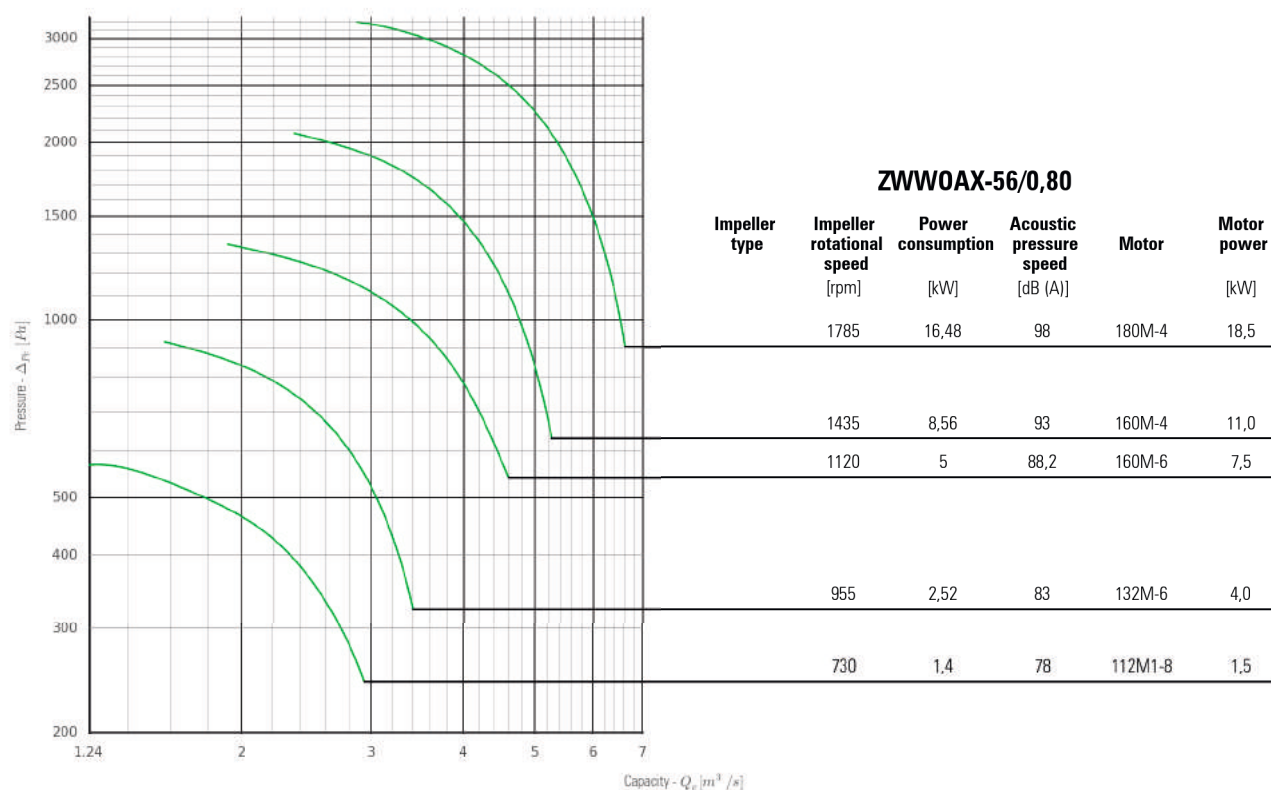
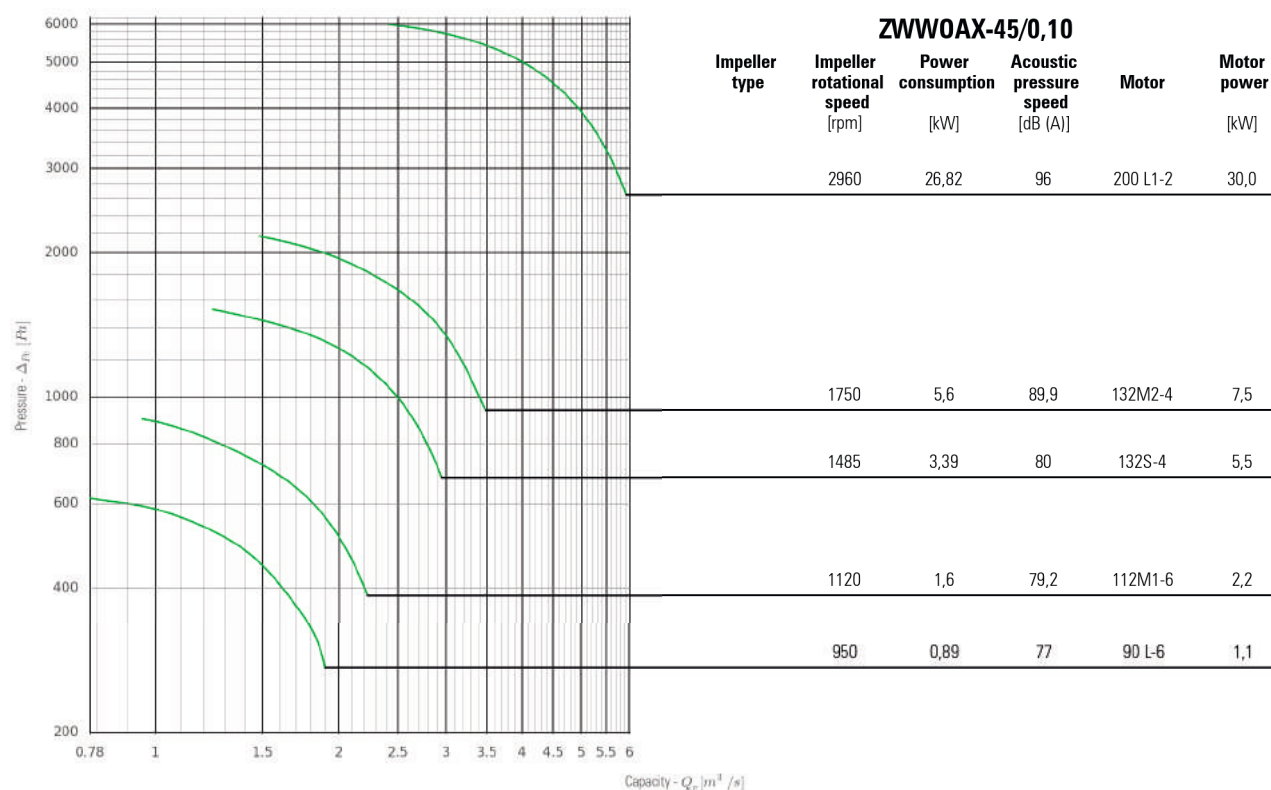
Visual drawing. We reserve the right to implement changes.

FLEXIBLE CONNECTIONS																	
ZWW0ax	Motor power [kW]	Dn	Dp	Dz	b	b1	b2	b3	b4	b5	t	d	d1	k	k1	k2	k3
														[mm]			
45	1.1	450	523	574	355	450	520	556	425	461	140	M12	15	12	12	1	1
	1.5																
	2.2																
	3.0																
	4.0																
	5.5																
	7.5																
	22																
	30																
56	1.5	560	633	680	450	560	630	666	520	558				12	12	1	1
	2.2																
	4.0																
	7.5																
	11																
	15																
	18.5																
	22																
	30																
63	2.2	630	703	754	502	630	700	756	570	628				16	20	3	3
	3.0																
	4.0																
	5.5																
	7.5																
	11																
	15																
	18.5																
	22																
71	3.0	710	783	830	560	710	770	830	620	688	20	20	3	3			
	4.0																
	5.5																
	7.5																
	11.0																
	15.0																
	18.5																
	30																
	37																
80	5.5	800	873	926	630	800	870	926	700	758	20	24	3	5			
	7.5																
	11																
	15																
	18.5																
	22																
	30																
	37																
	100														37	1000	1073
11																	
15																	
18.5																	
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45																	
55																	
75																	

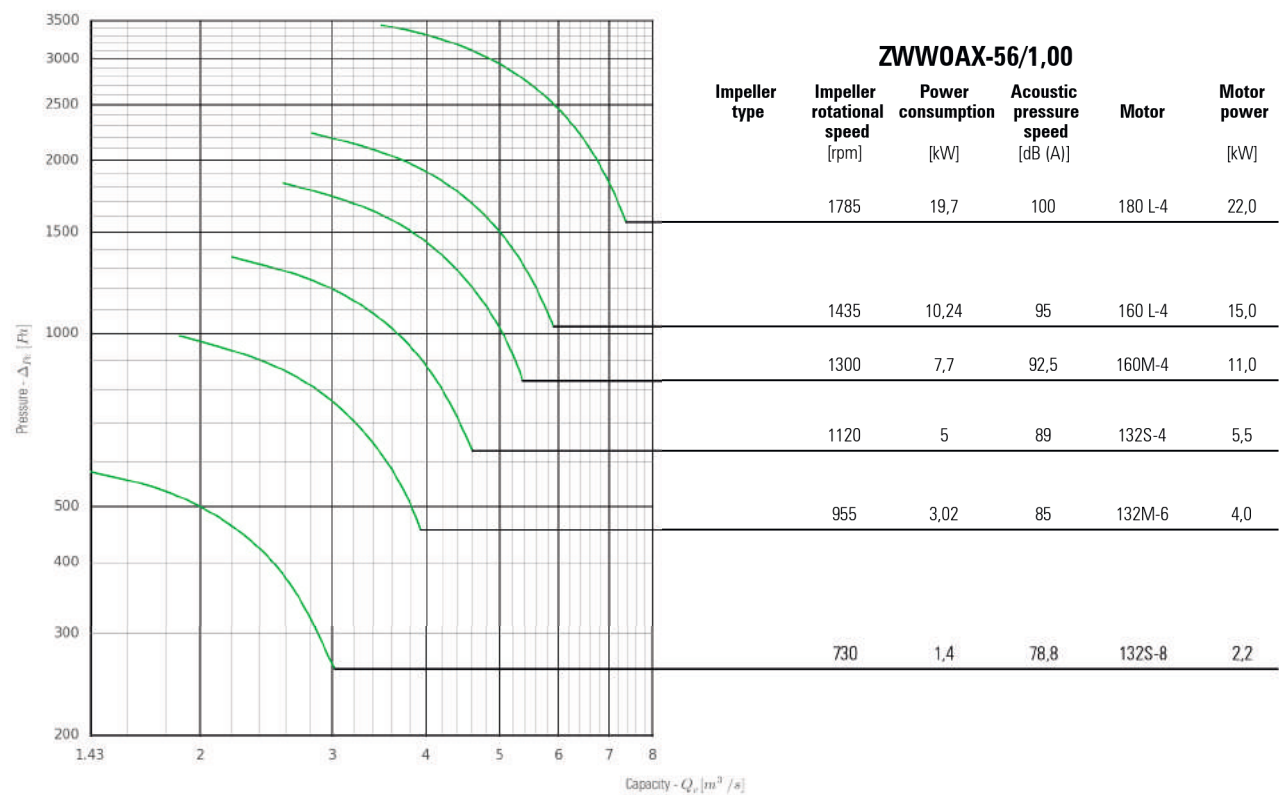
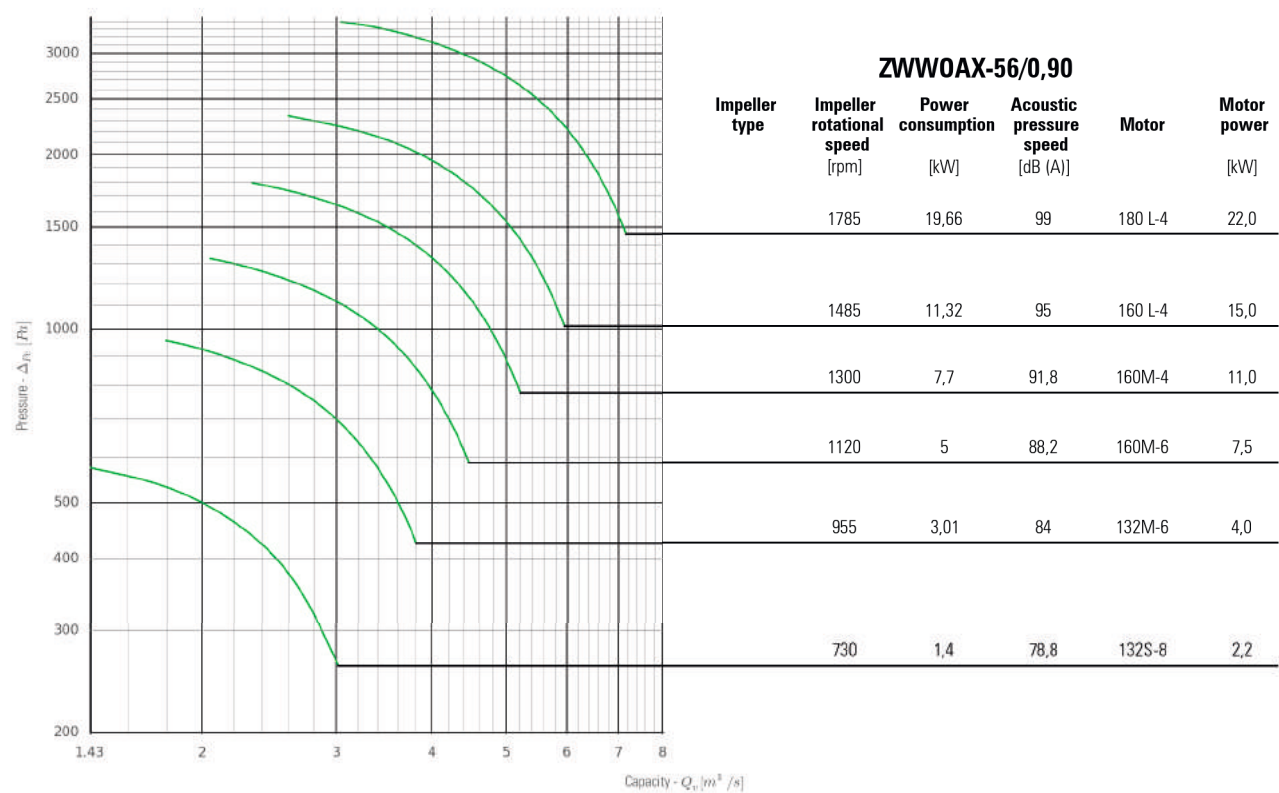
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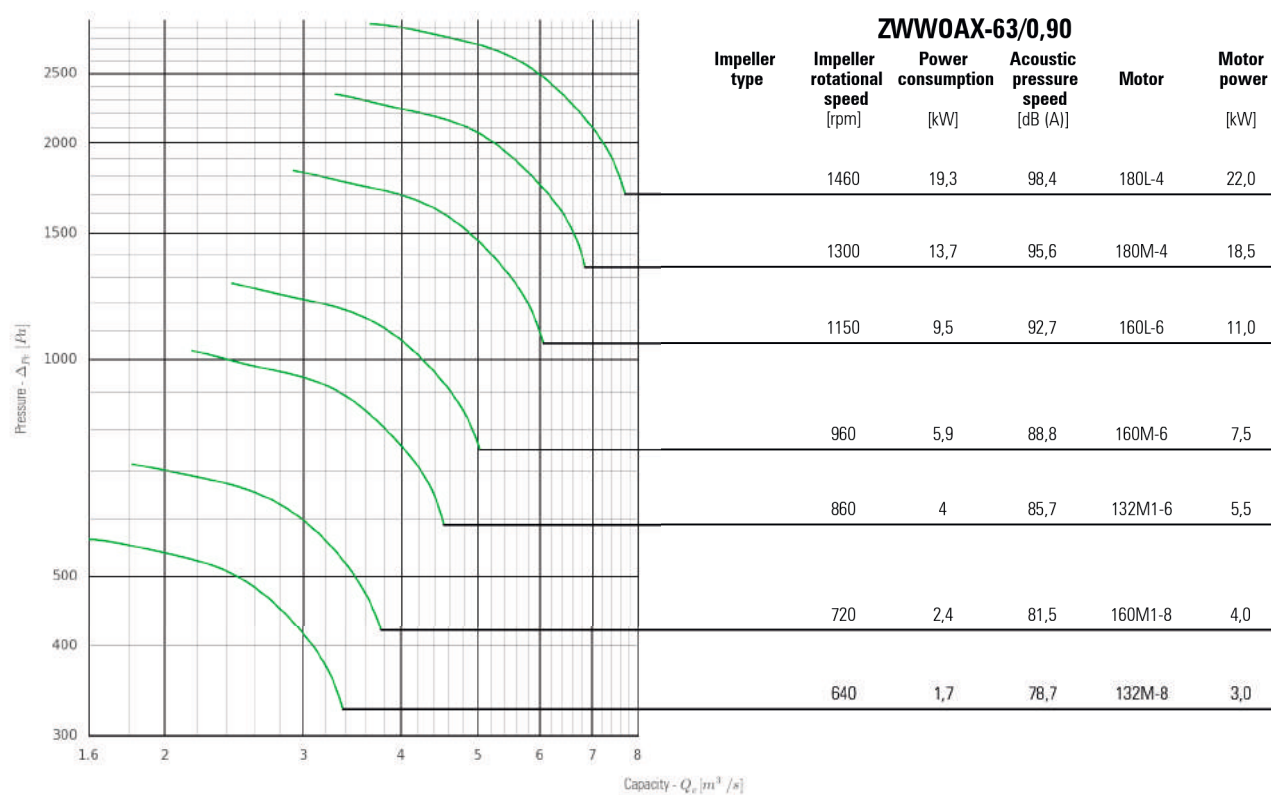
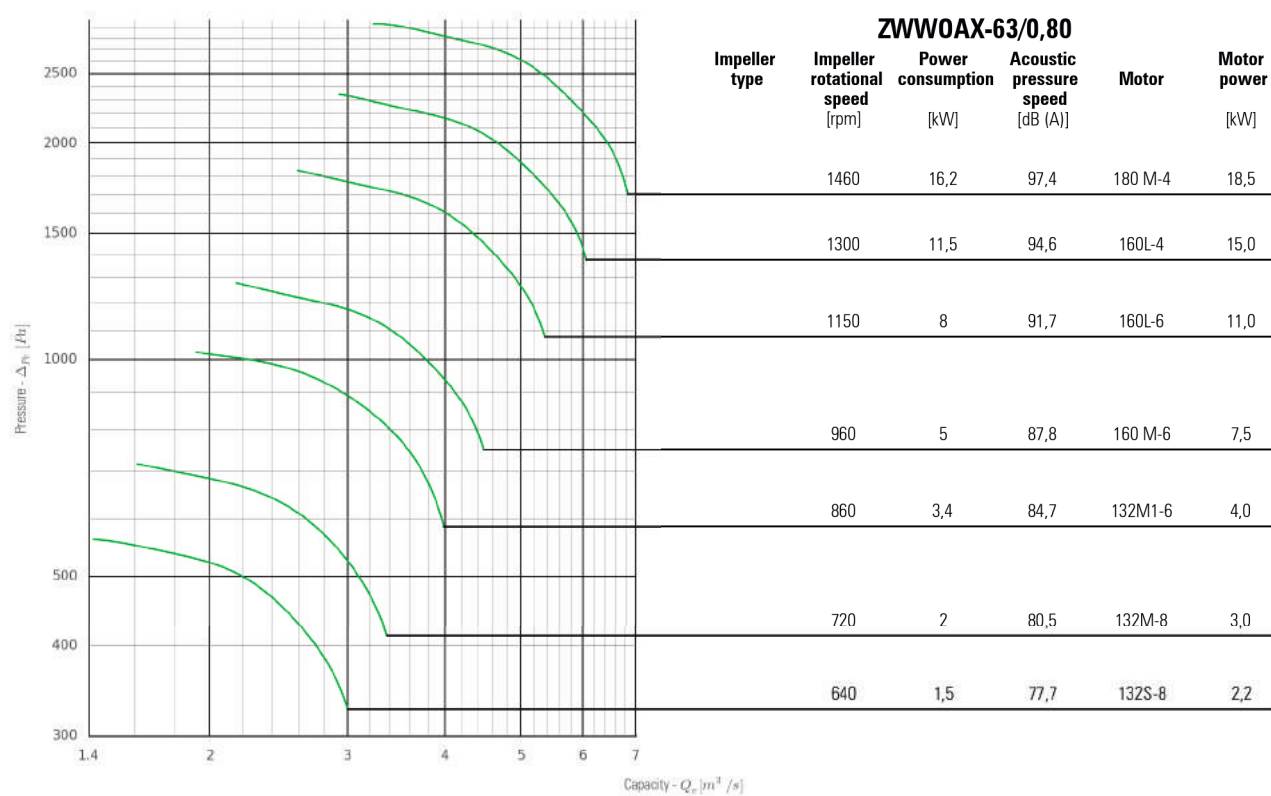
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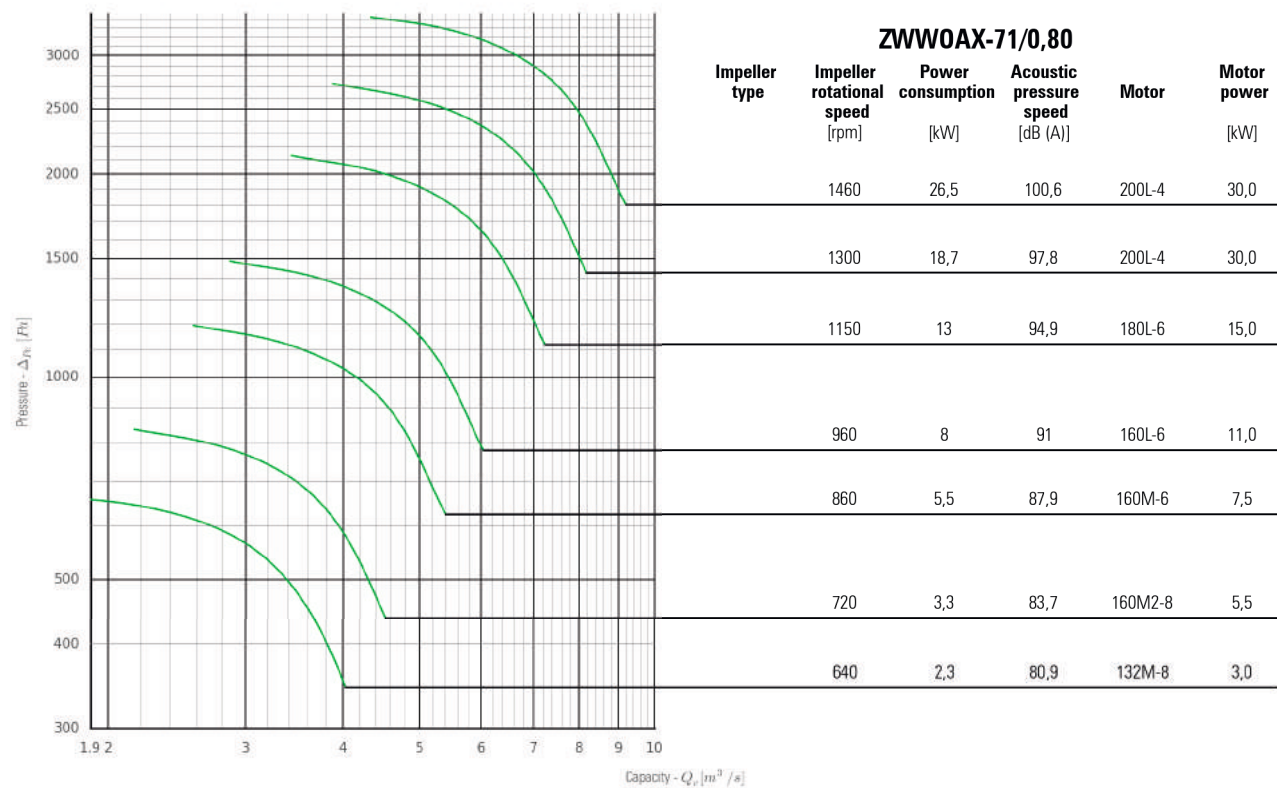
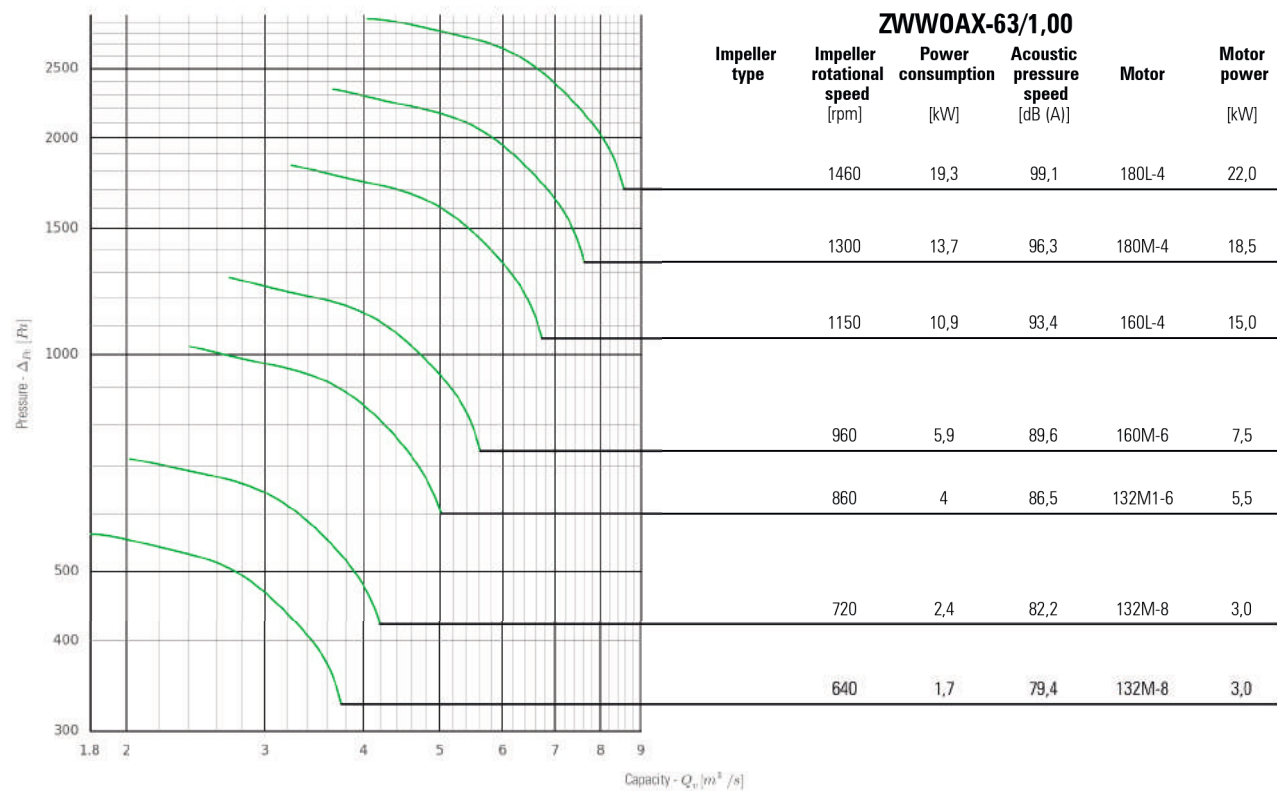
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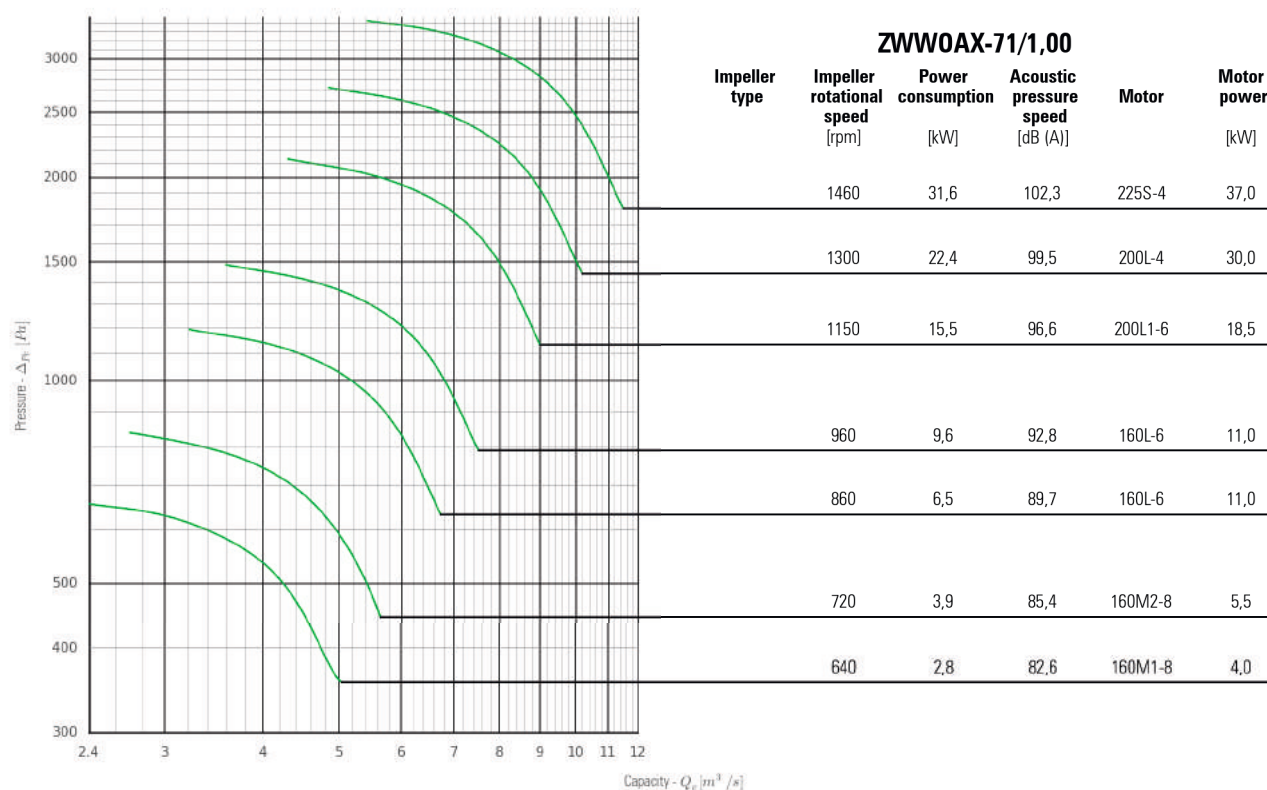
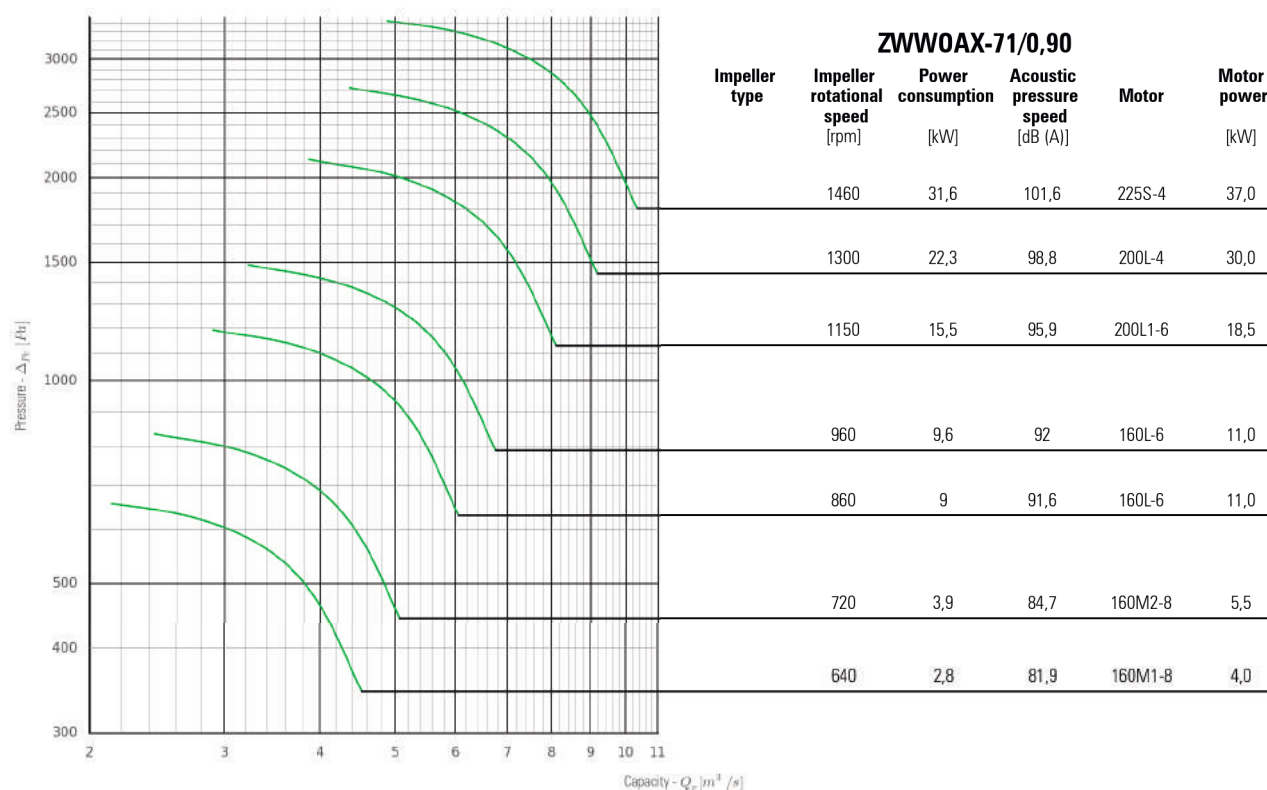
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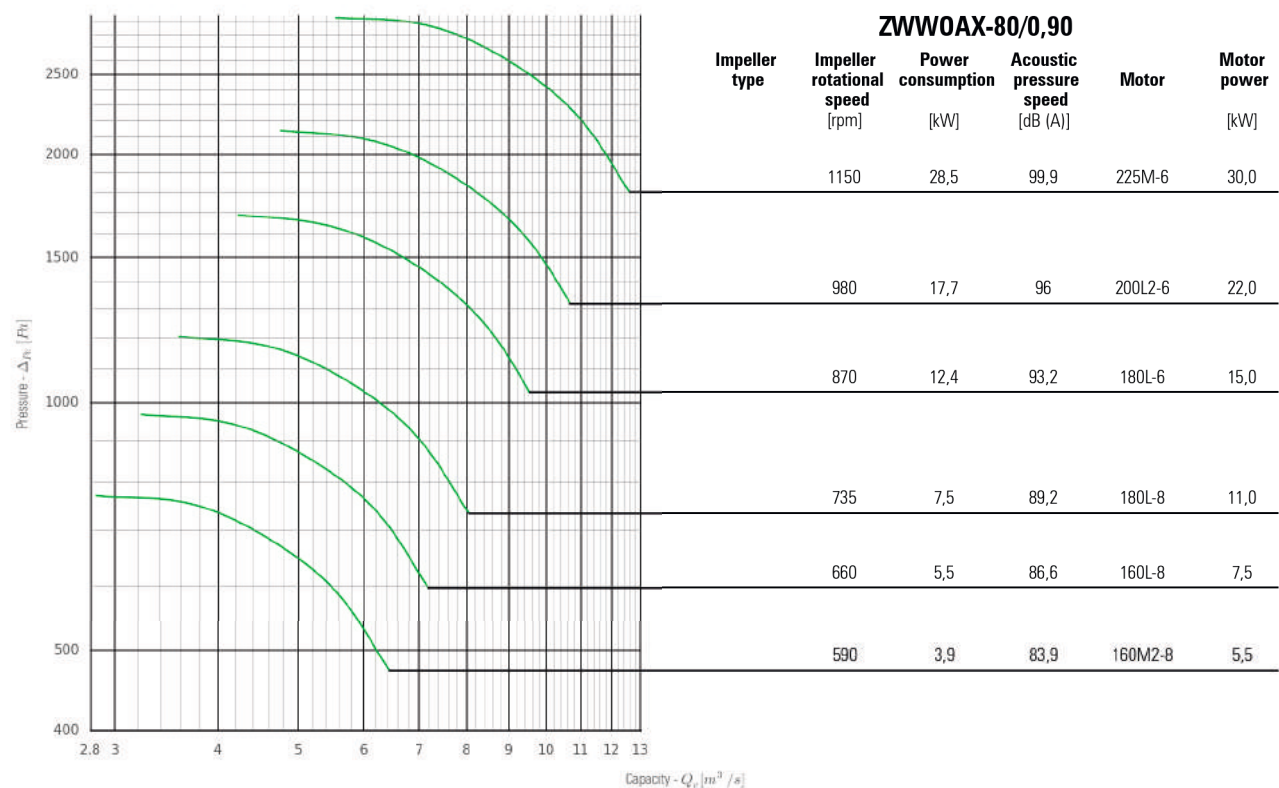
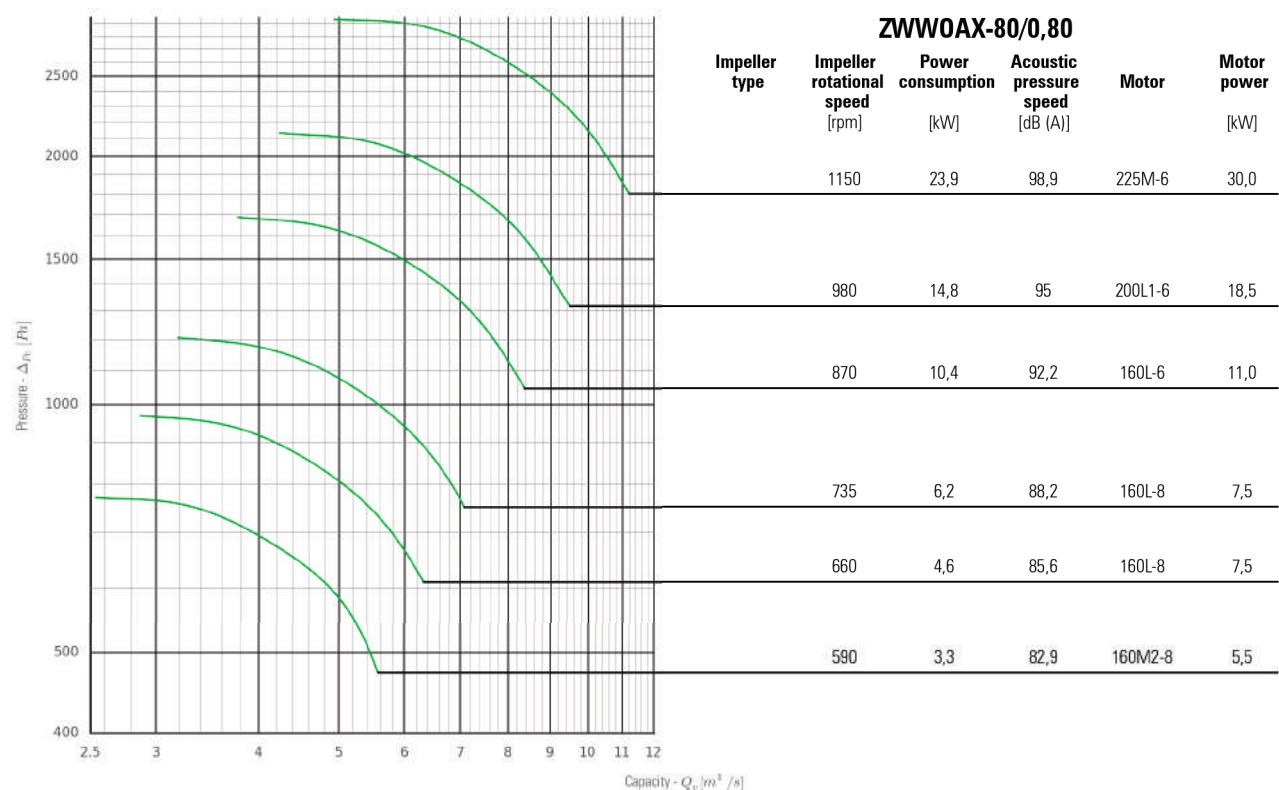
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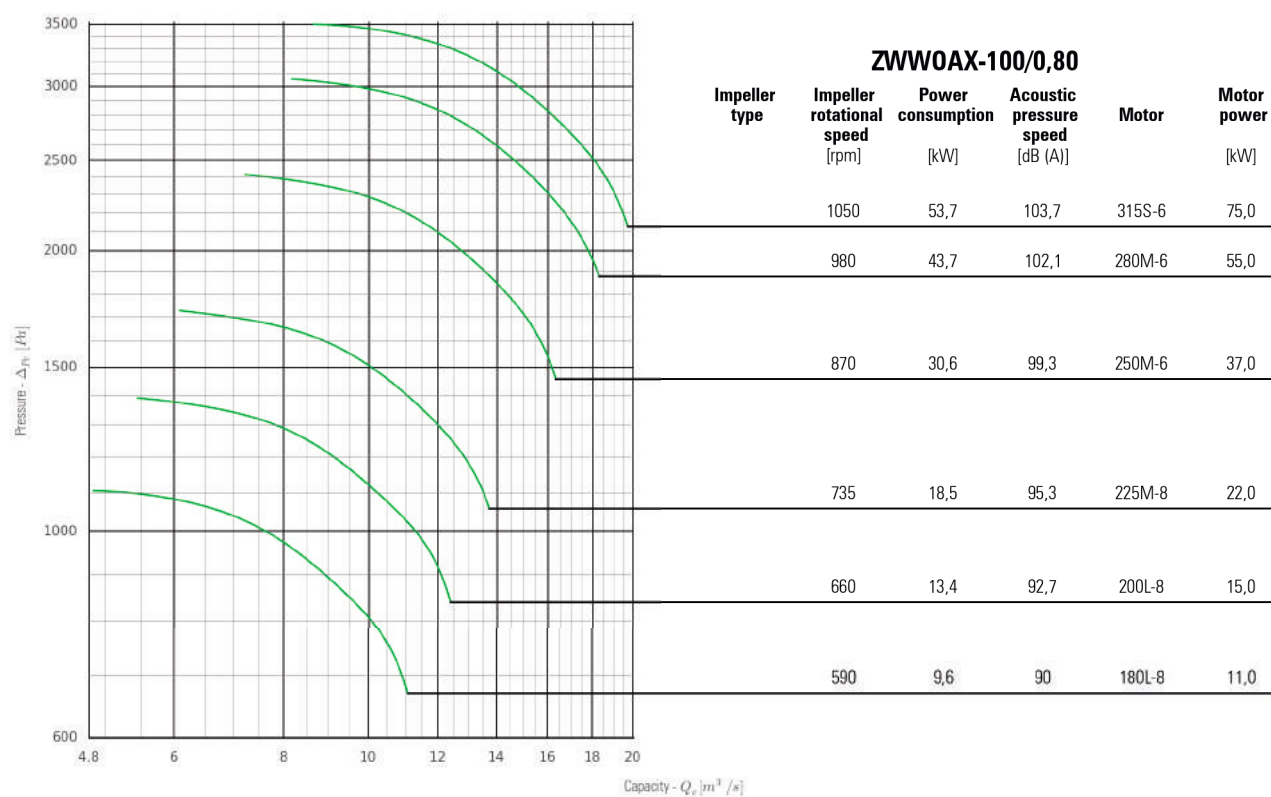
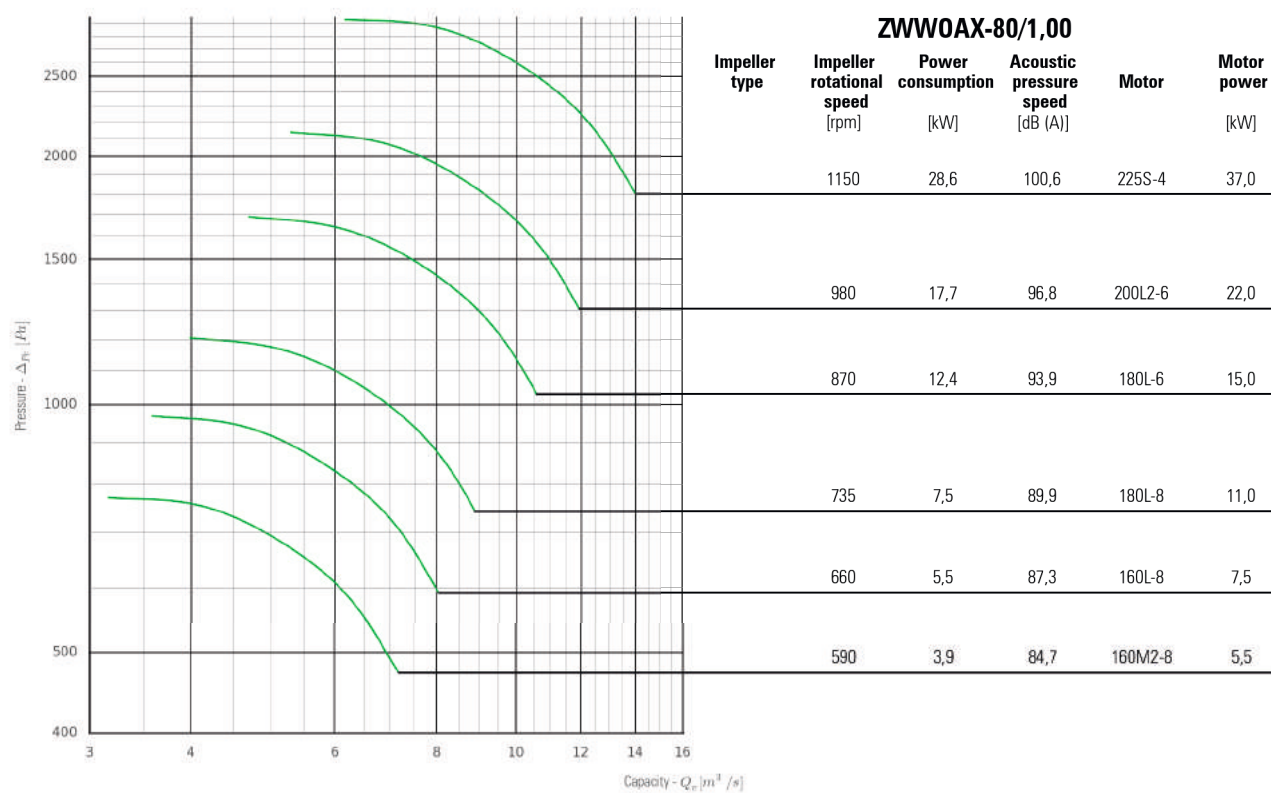
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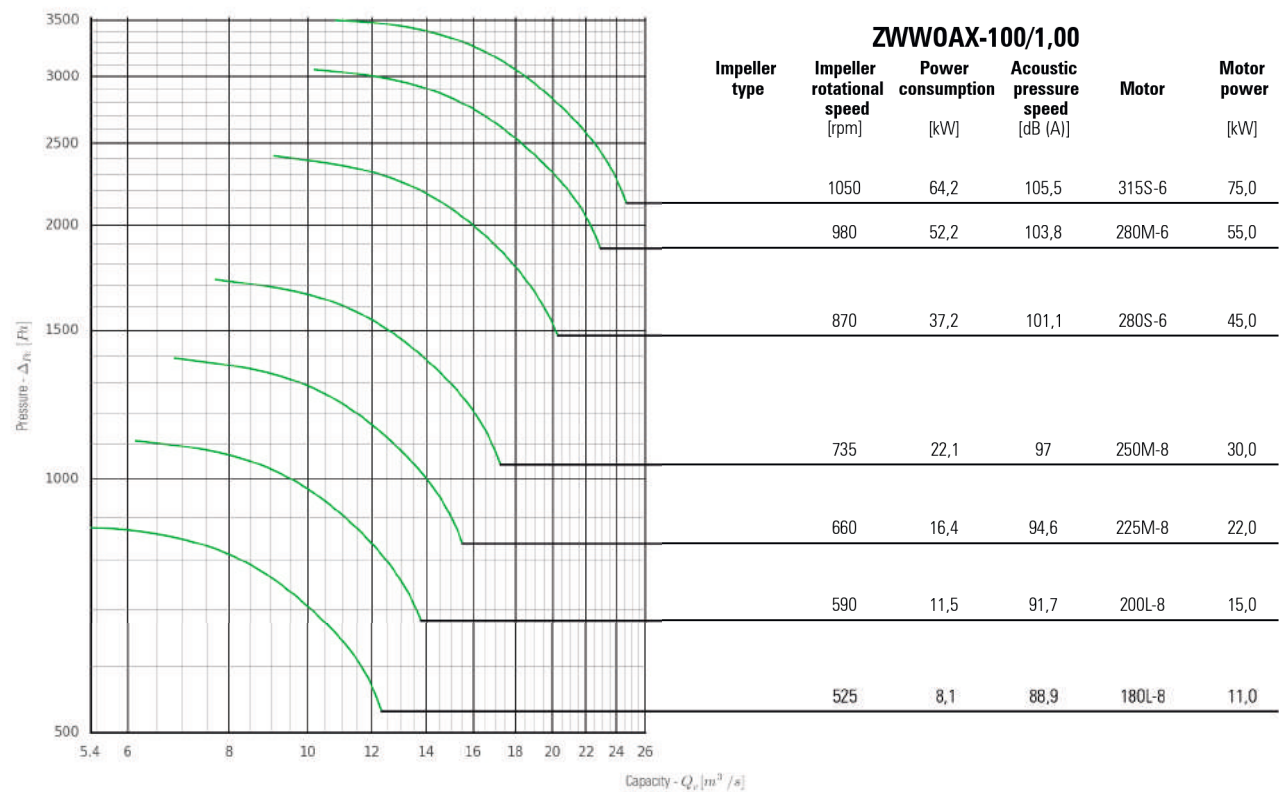
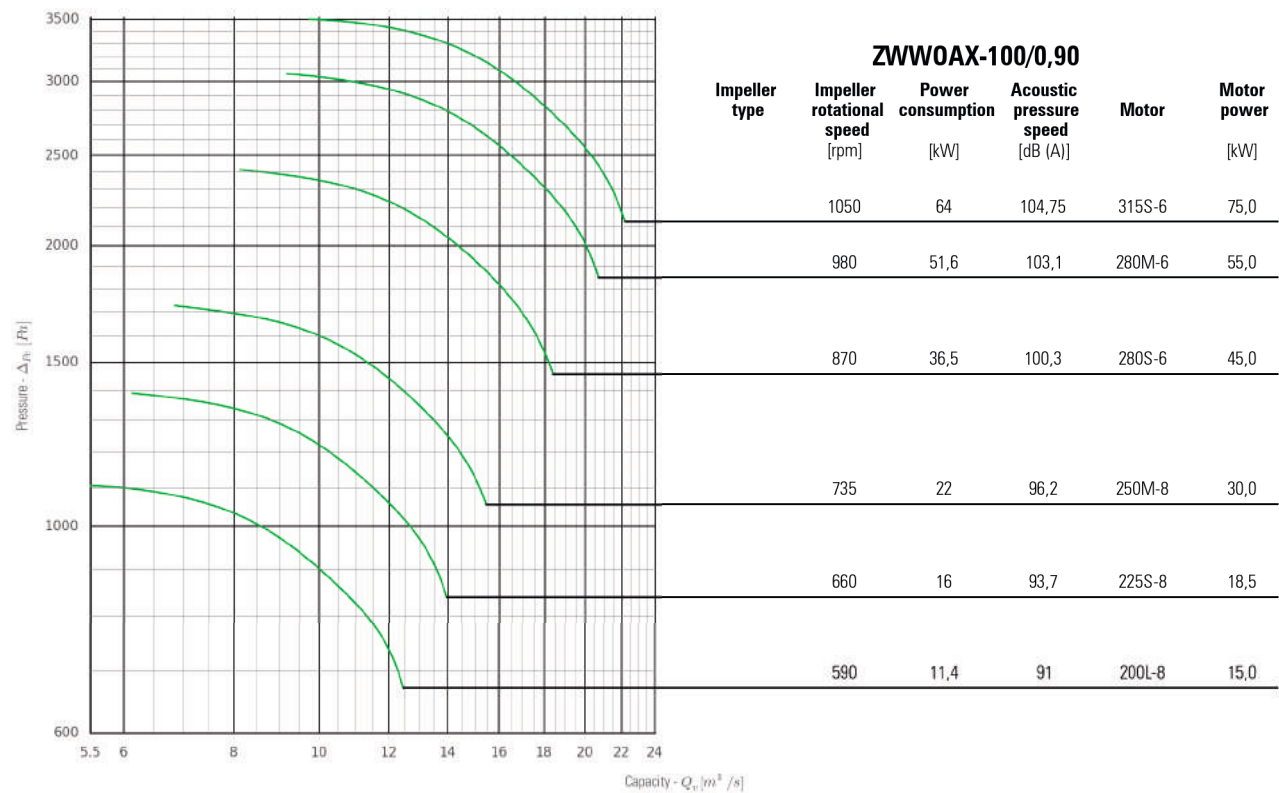
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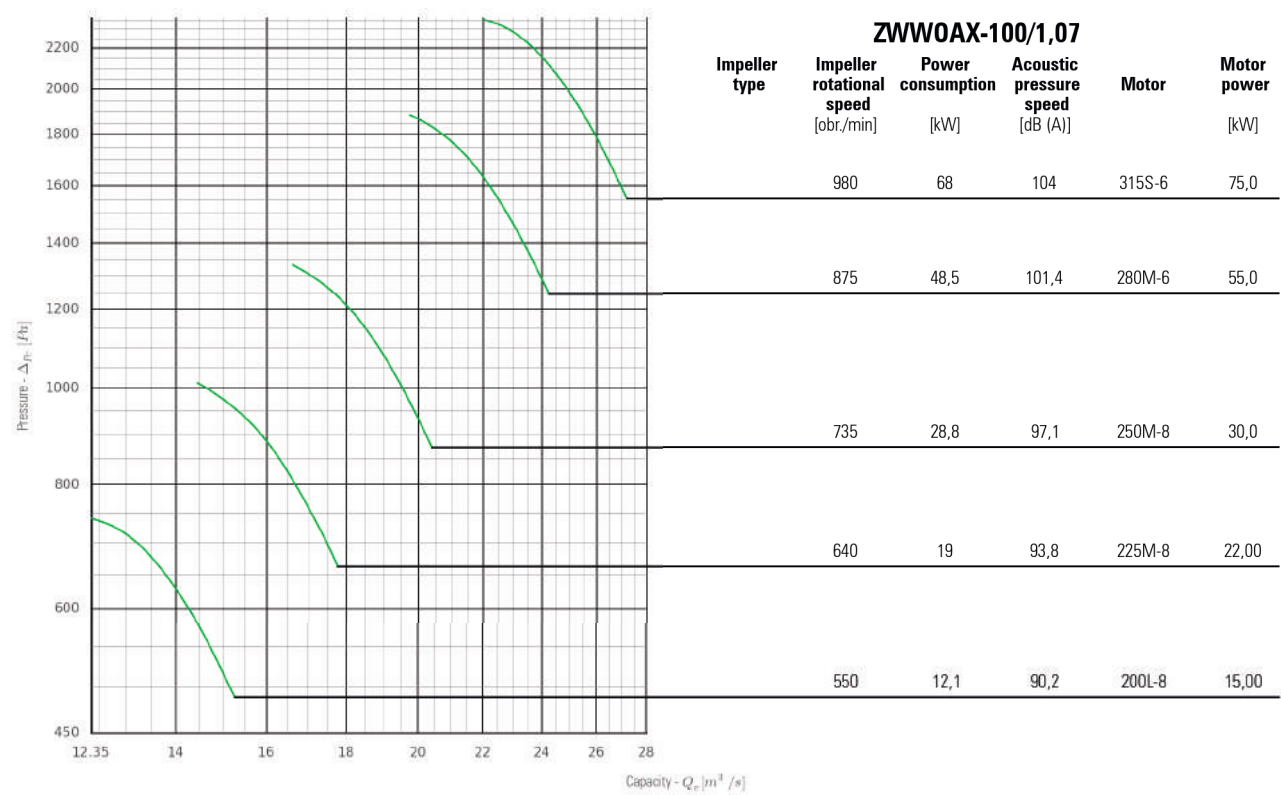
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