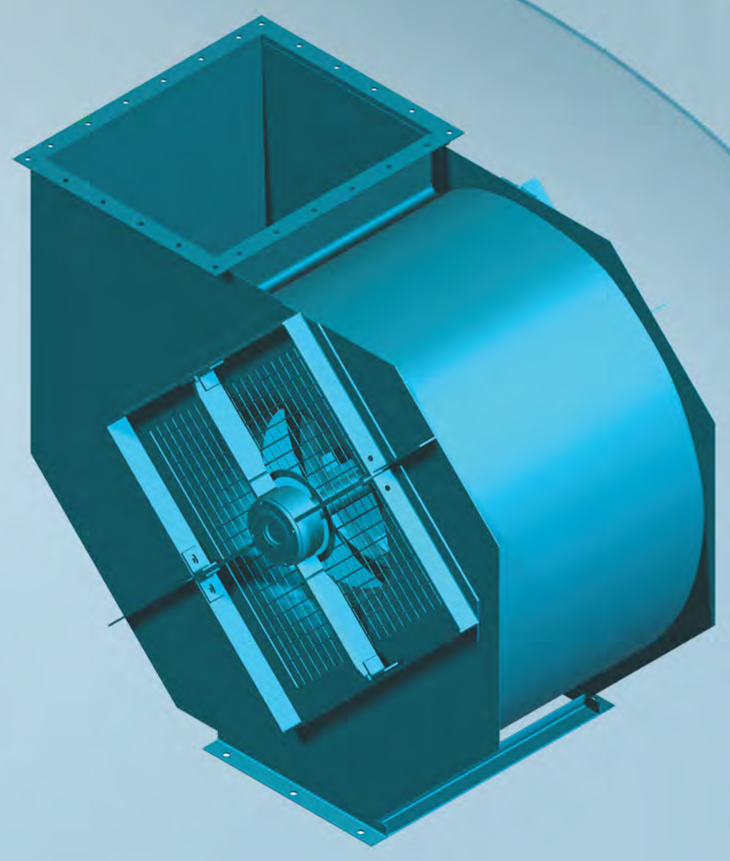
CENTRIFUGAL

ZWPDM 63 ÷ 100 FANS

Application

Fan sets ZWPDM find their application in industry and construction and are applied for blowing of inert gas in ventilation systems and process lines. Temperature of medium should not exceed 313 K (40°C).
They can operate only in ventilation ducts when the role of fan is natural suction of agent from environment, while installation ducts are mounted only on outlet side.



Construction

Fan set ZWPDM consists of fan type WPDM, three-phase electric motor and steel base frame seated on vibration-dampers. The fans ZWPDM are produced in three sizes: 63, 80, 100 and driven by V-belt transmission (drive No 2).

The main elements such as impeller, casing, base frame under drive unit are made of standard steel of standard quality. In the corrosion resistant and in heat-corrosion resistant version, impeller and casing are made of stainless steel.

Anticorrosion protection of elements in standard version is paint coating of general purpose while for special versions – chemo- or thermo- resisting paints or according to client's demand.

Order conditions

Following shall be given when ordering:
– type and size of fan unit , location of outlet hole, fan rotational speed, version of execution,
– volumetric capacity and total pressure, voltage and type of electric motor.

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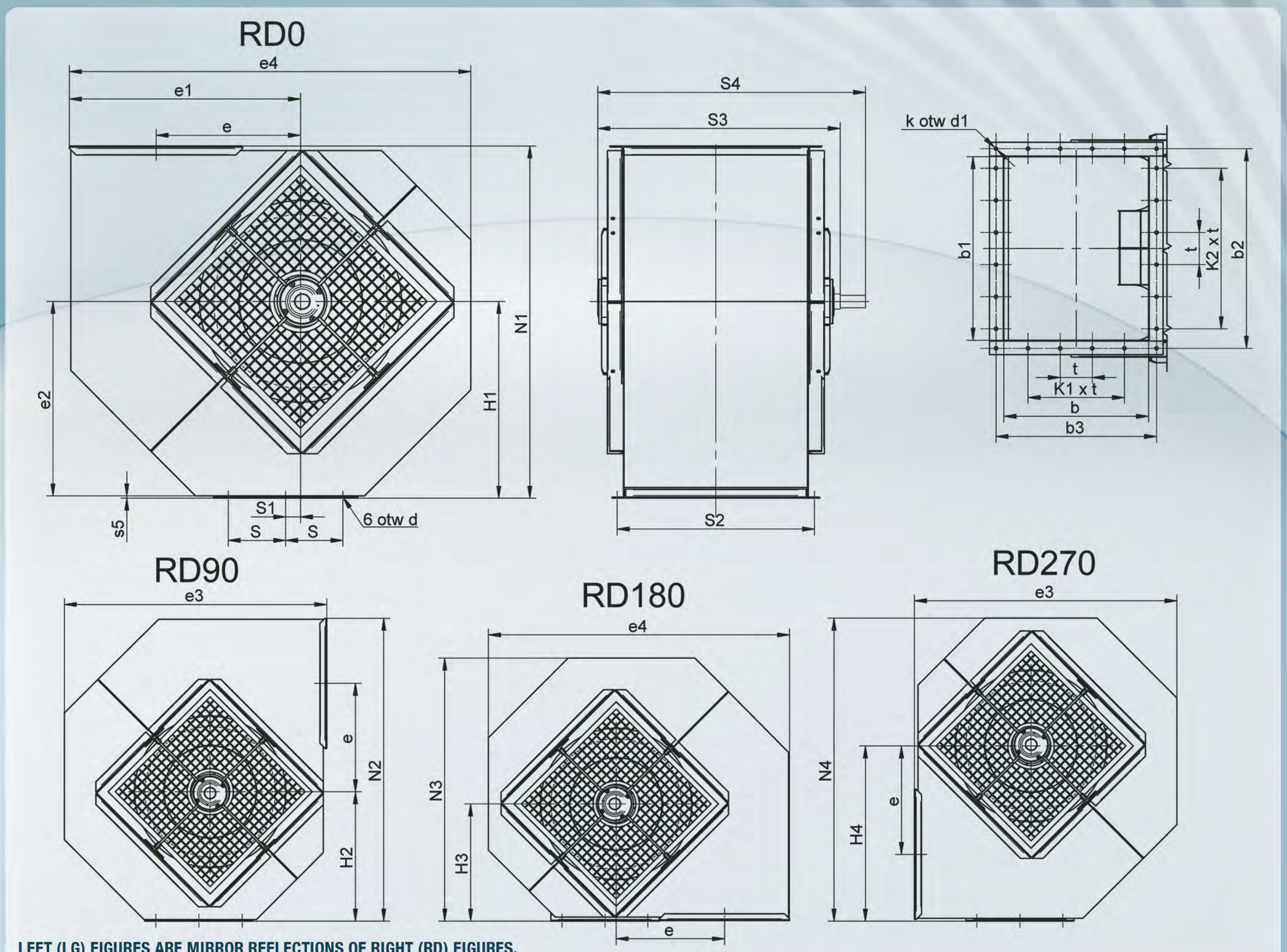
TECHNICAL SPECIFICATION OF ZWPDM FANS WITH V-BELT DRIVE (NO. 2)



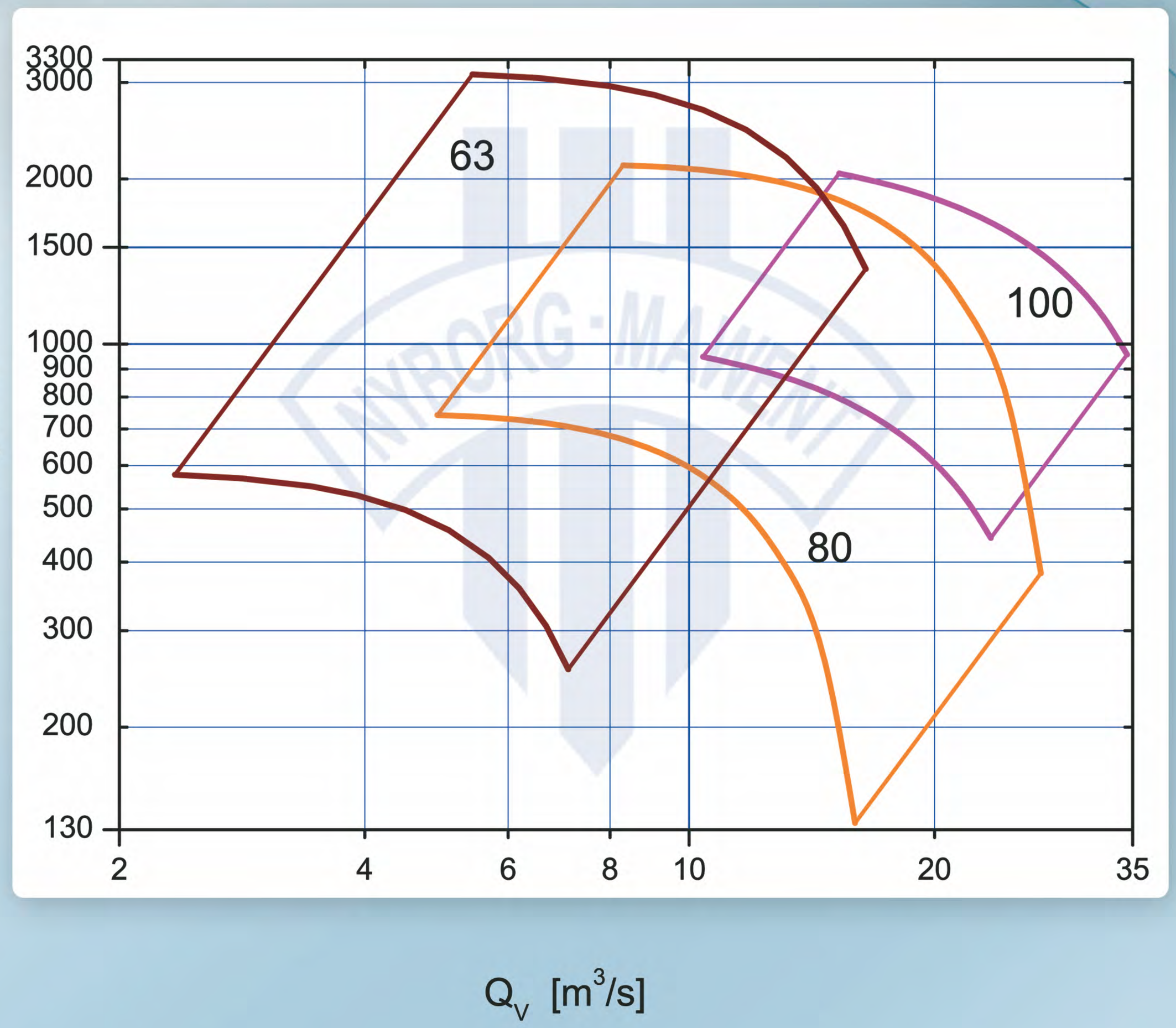
LEFT (LG) FIGURES ARE MIRROR REFLECTIONS OF RIGHT (RD) FIGURES.

Fan Type	e	e1	e2	e3	e4	b	b1	b2	b3	S	S1	S2	S3	S4	S5	d	d1	t
	[mm]																	
WPDM-63	630	1007	856	1511	1748	630	800	870	700	250	65	860	1060	1170	11	19	15	140
WPDM-80	800	1272	1095	1915	2222	800	1060	1150	890	290	75	1130	1320	1430	12	19	19	140
WPDM-100	1000	1573	1352	2389	2744	1000	1320	1410	1090	450	75	1390	1615	1755	16	19	19	140

Fan Type	H1	H2	H3	H4	N1	N2	N3	N4	k	k1	k2	impeller flywheel effect GD^2	Fan weight
									[pcs.]			[Nm^2]	[kg]
WPDM-63	1511	1759	1506	1018	856	752	661	1018	24	5	5	394	450
WPDM-80	1915	2200	1916	2236	1095	963	832	1285	32	5	7	1520	690
WPDM-100	2389	2756	2382	2756	1352	1183	1042	1585	40	7	9	4420	1242

SUMMARY CHARACTERISTICS OF ZWPDM FANS

Characteristics of explosion-proof fans include resistances of inlet and outlet wire meshes.
Flow parameters were elaborated for normal conditions i.e. agent density on inlet 1,2 kg/m^3.



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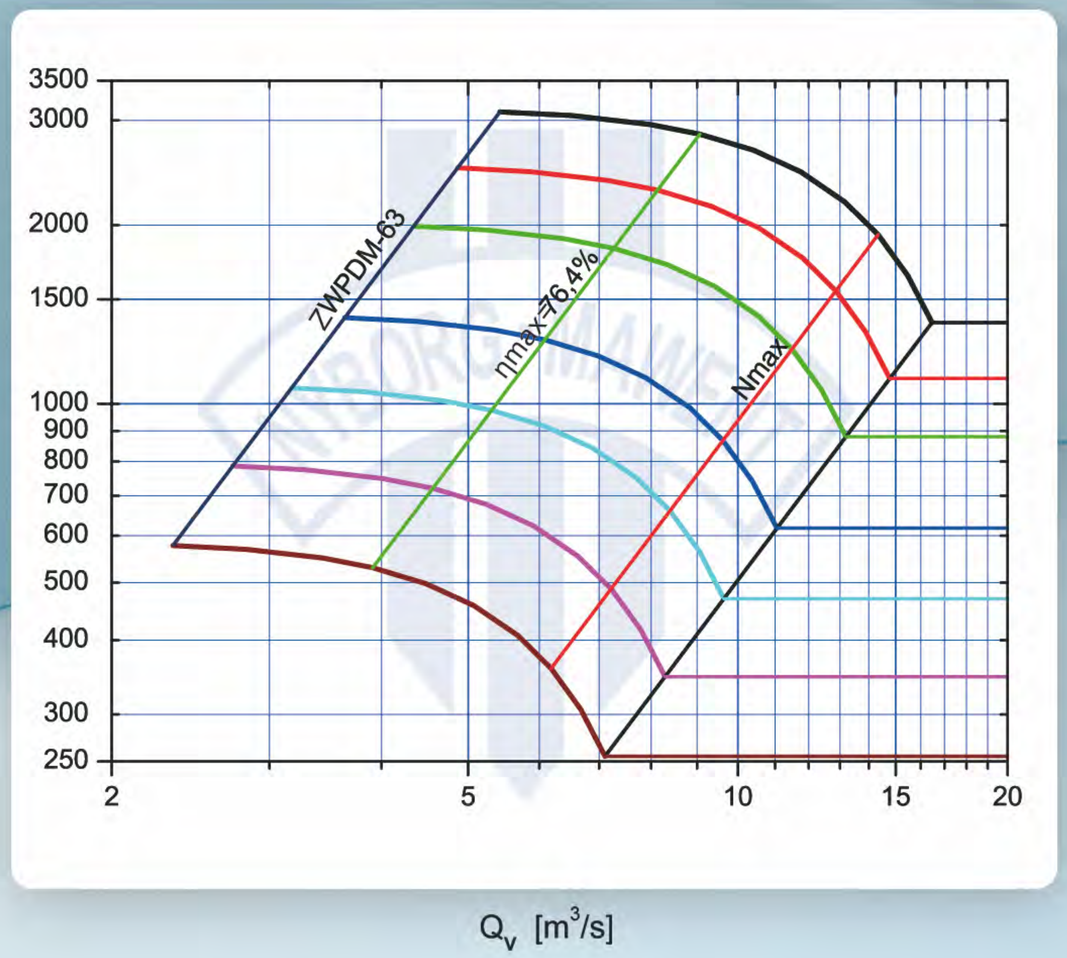
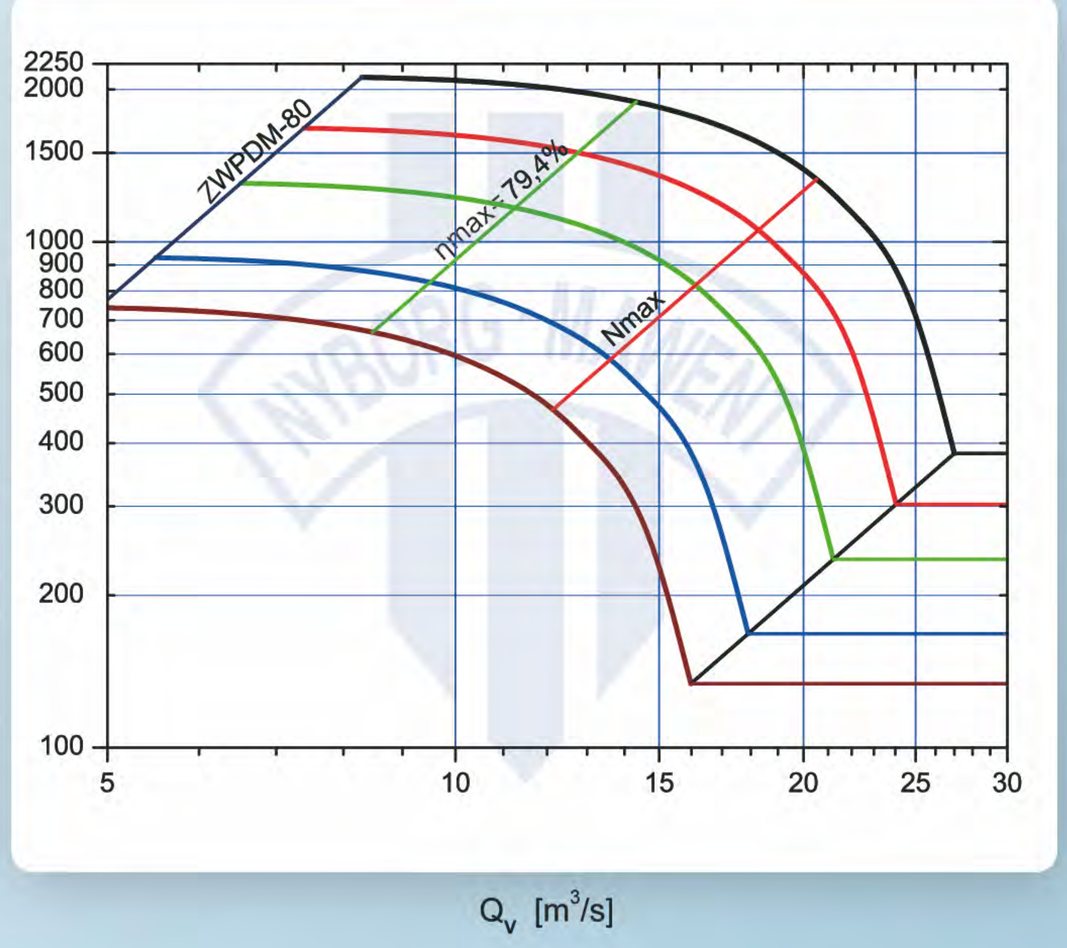
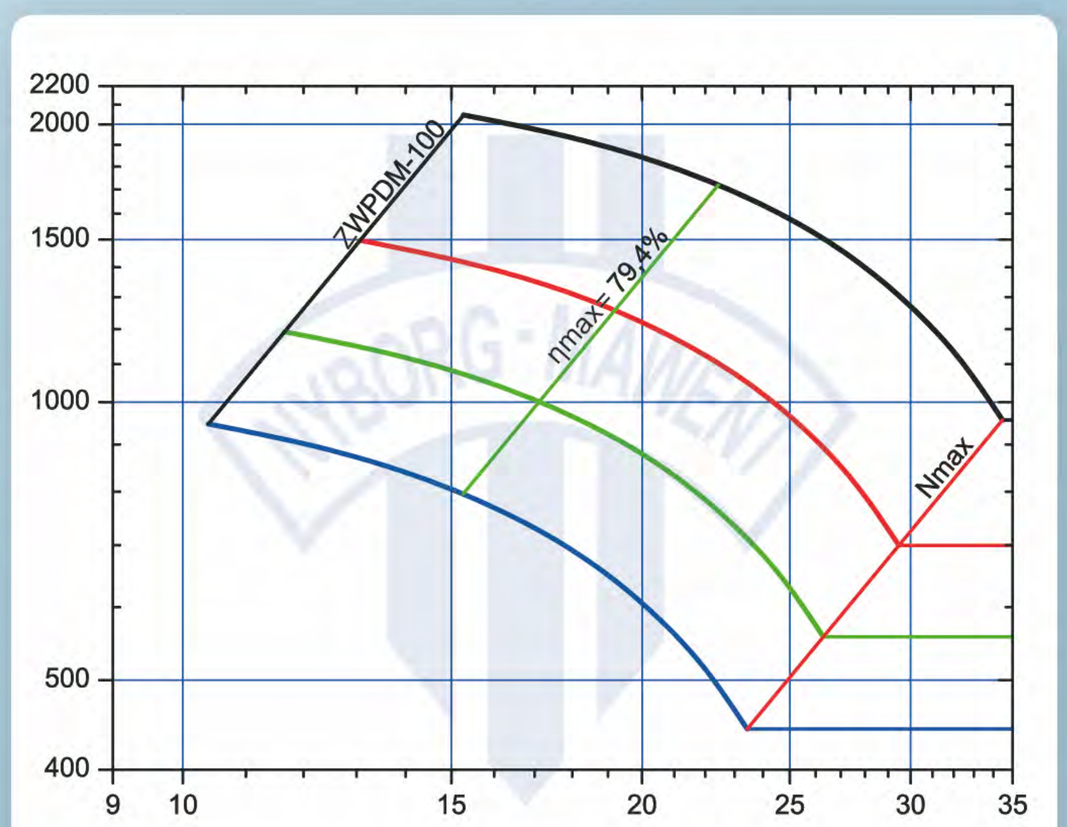
CHARACTERISTICS OF ZWPDM FANS



ZWPDM-63				
Impeller rotational speed	Power consumption	Acoustic pressure level	Motor	Motor power
[rpm]	[kW]	[dB (A)]		[kW]
1460	39,50	98	225M-4	45
1310	28,50	95	225S-4	37
1170	20,30	93	200L-4	30
980	11,90	88	180L-6	15
855	7,90	85	160L-6	11
735	5,01	82	160L-8	7,5
630	3,20	78	160M-8A	4



ZWPDM-80				
Impeller rotational speed	Power consumption	Acoustic pressure level	Motor	Motor power
[rpm]	[kW]	[dB (A)]		[kW]
980	37,30	94	280S-6	45
873	26,40	91	225M-6	30
770	18,10	88	225M-8	22
650	10,90	84	200L-8	15
580	7,80	81	180L-8	11



ZWPDM-100				
Impeller rotational speed	Power consumption	Acoustic pressure level	Motor	Motor power
[rpm]	[kW]	[dB (A)]		[kW]
760	53,90	94	280M-6	55
650	33,70	90	280S-8	37
580	24,00	88	250M-8	30
517	17,00	85	225S-8	18,5

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