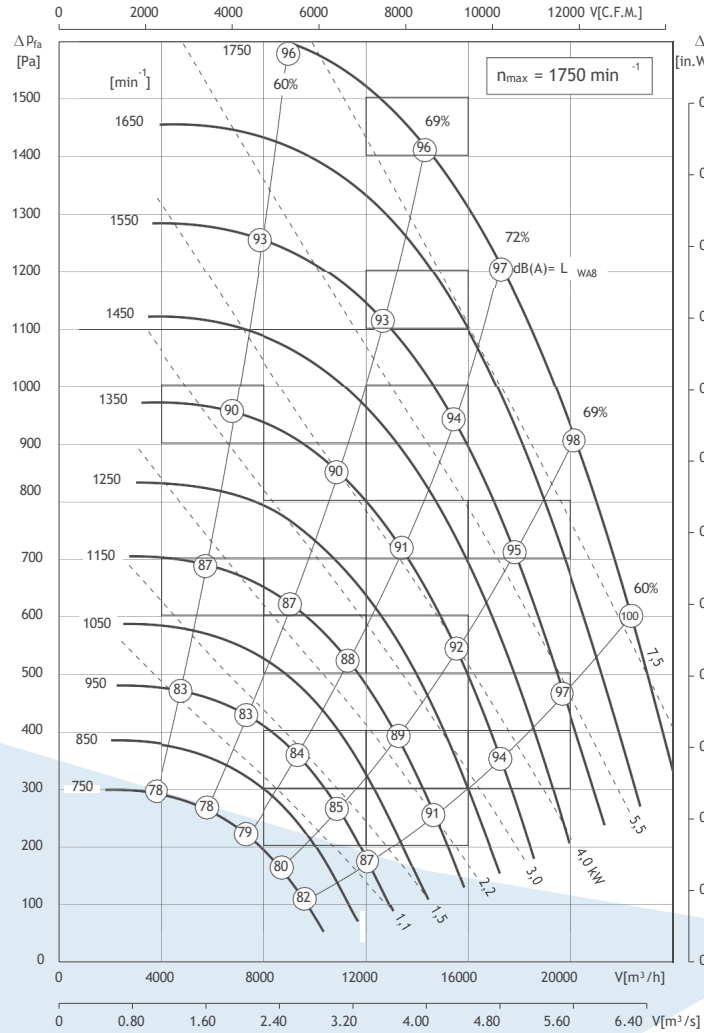


Backward Curved Impellers DKN 630



n [min ⁻¹]	u [m/s]	η Korr
1750	58.6	1
1650	55.3	1
1550	52	1
1450	48.6	0.99
1350	45.2	0.99
1250	41.9	0.99
1050	35.2	0.99
950	31.8	0.98
850	28.5	0.98
750	25	0.98

$$L_{WAS} = L_{WA8} - 6 \text{ dB}$$

$$L_{WA6} = L_{WA8} - 3 \text{ dB}$$

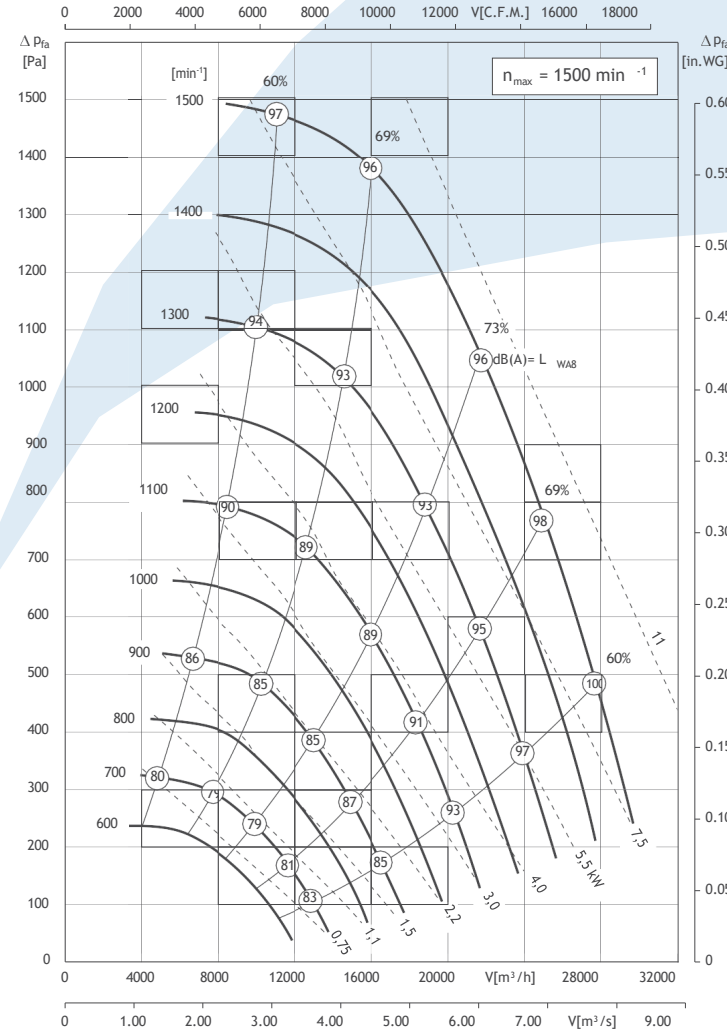
$$L_{Woc \text{ outlet}} = L_{WA8} - L_{Wrel}$$

$$L_{Woc \text{ inlet}} = L_{WAS} - L_{Wrel}$$

f [Hz]	L_{Wrel}	
	Inlet side [dB]	Outlet side [dB]
63	-10	-10
125	-2	-3
250	1	0
500	-5	-4
1K	-5	-5
2K	-7	-7
4K	-12	-12
8K	-19	-20

Calibration factor
 $k_{10} = 287$

Backward Curved Impellers DKN 710



n [min ⁻¹]	u [m/s]	η Korr
1500	56.4	1
1400	52.6	1
1300	48.9	1
1200	45.1	0.99
1100	41.4	0.99
1000	37.6	0.99
900	33.8	0.99
800	30.1	0.98
700	26.3	0.98
600	22.6	0.98

$$L_{WAS} = L_{WA8} - 6 \text{ dB}$$

$$L_{WA6} = L_{WA8} - 3 \text{ dB}$$

$$L_{Woc \text{ outlet}} = L_{WA8} - L_{Wrel}$$

$$L_{Woc \text{ inlet}} = L_{WAS} - L_{Wrel}$$

f [Hz]	L_{Wrel}	
	Inlet side [dB]	Outlet side [dB]
63	-3	-2
125	1	0
250	-4	-4
500	-5	-5
1K	-2	-2
2K	-11	-11
4K	-17	-17
8K	-24	-25

Calibration factor
 $k_{10} = 370$

Model	Motor	n_n [min ⁻¹]	P_N [kW]	I_n [A]	f_{max} [Hz]	n_{max} [min ⁻¹]	Weight [kg]	
							DKNB	DKNM
DKN_630-6KW.195.A10-001	100L-6	925	1.5	3.9	50	925	60	54
DKN_630-6KW.195.A11-001	112M-6	940	2.2	5.2	56	1050	65	56
DKN_630-6KW.195.A13-001	132S-6	950	3.0	7.2	62	1180	80	70
DKN_630-4KW.195.A13-001	132S-4	1455	5.5	11.4	50	1455	83	72
DKN_630-4KW.195.A13-002	132S-4	1455	7.5	15.1	55	1600	91	78
DKN_630-4KW.195.A16-001	160M-4	1460	11	21.4	60	1750	116	97

Model	Motor	n_n [min ⁻¹]	P_N [kW]	I_n [A]	f_{max} [Hz]	n_{max} [min ⁻¹]	Weight [kg]	
							DKNB	DKNM
DKN_710-8KW.174.A09-001	112M-8	705	1.5	3.9	54	760	138	-
DKN_710-8KW.174.A10-001	132S-8	700	2.2	5.7	62	870	155	-
DKN_710-6KW.174.A10-001	132S-6	950	3.0	7.2	51	970	155	-
DKN_710-6KW.174.A11-001	132M-6	950	4.0	9.4	56	1060	160	-
DKN_710-6KW.174.A13-001	132M-6	950	5.5	12.8	62	1180	168	-
DKN_710-6KW.174.A13-002	160M-6	960	7.5	17.0	68	1305	190	-
DKN_710-4KW.174.A13-002	160M-4	1460	11	21.4	51	1500	182	-