

Radial Fan

backward curved double inlet

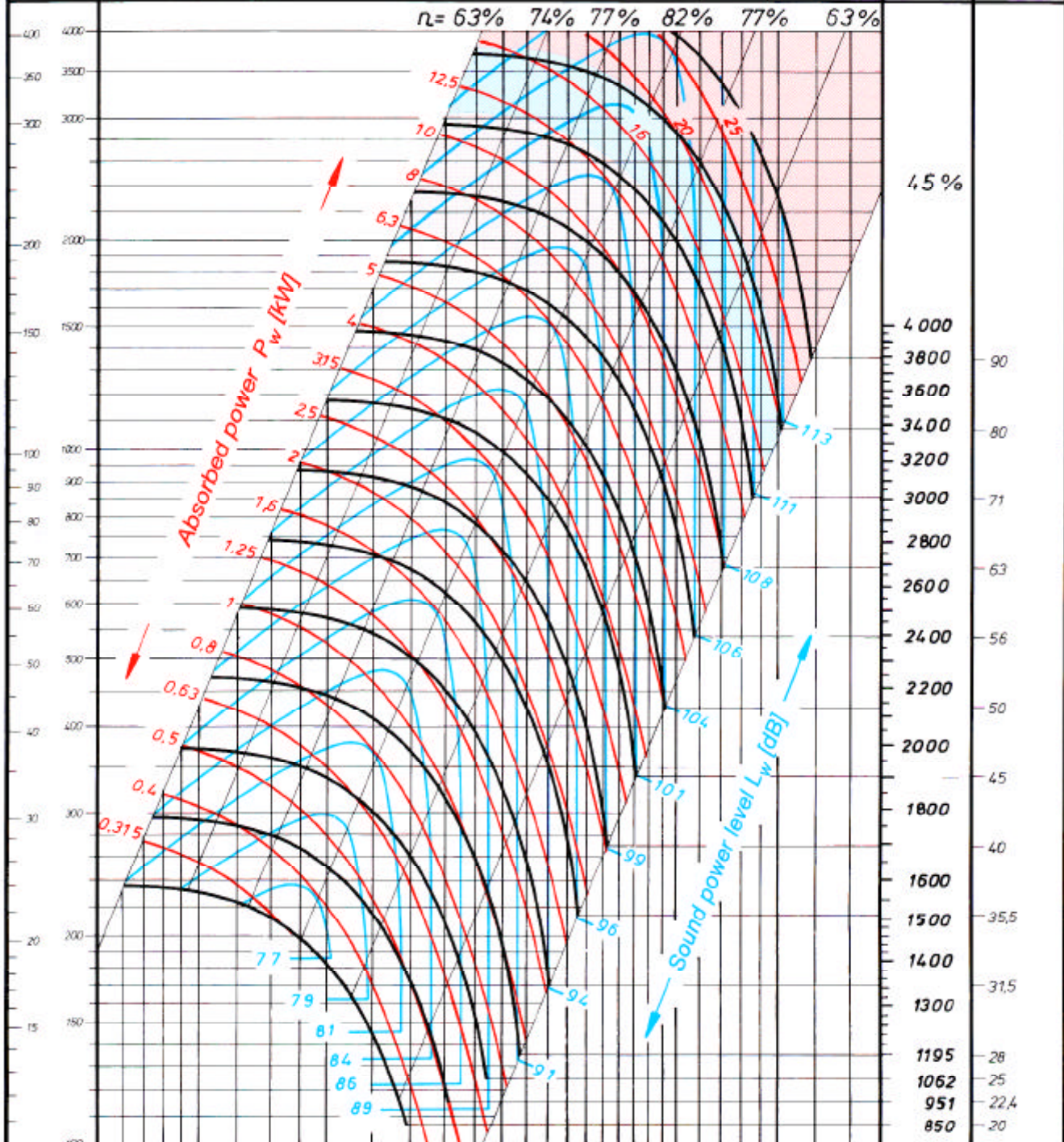
T-HLZ 450
HLZ 450 R
HLZ 450 T



Max. speed
Max. shaft power
Max. total pressure
Number of blades
Mass moment of inertia

	T-HLZ	HLZ-R	HLZ-T
Max. speed n_{max}	= 2500	3060	3400 min^{-1}
Max. shaft power P_{Wmax}	= 8	16	20 kW
Max. total pressure Δp_{tmax}	= 2000	3000	4000 Pa.
Number of blades z	= 8	8	8
Mass moment of inertia $J_{U^2 \frac{kgm^2}{s^2}}$	= 0,33	0,7	0,7 kgm^2

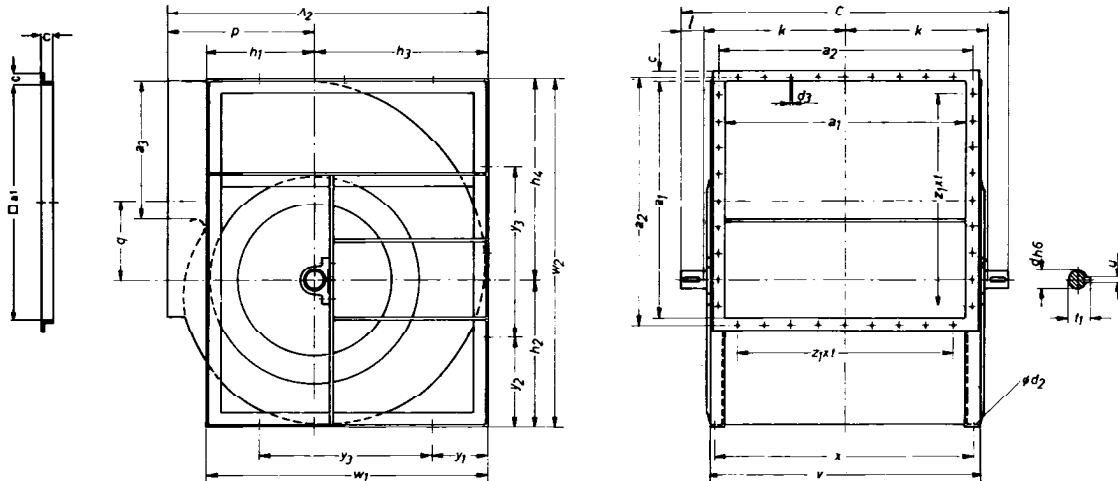
Fan speed
 n (min^{-1})
Peripheral speed
 U (m/s)



Fan total pressure	3000	5000	10000	15000	20000	30000	Volume V (m^3/h)							
	2	3	5	10	20	30	50	100	200	300	500	800	p_a (Pa)	dyn. Press.
	0.2	0.3	0.5	1	2	3	5	10	20	30	50	80	p_a (mm WS)	
	2	3	4	5	7	8	9	10	15	20	25	30	Outlet velocity C_2 (m/s)	

...A

HLZ...T



HLZ	A_2	a_1	a_2	a_3	C	c	d_{h6}	d_2	d_3	h_1	h_2	h_3	h_4	k
400 T	651	507	537	305	780	25	35	10	7,5	245	300	361	436	312
450 T	722	569	599	306	920	25	40	12	7,5	270	336	404	492	346
500 T	801	638	668	383	955	25	40	12	7,5	296	374	448	544	381
560 T	893	715	745	414	1118	25	50	15	7,5	335	419	502	611	446
630 T	1000	801	831	469	1220	25	50	15	7,5	370	471	566	687	490
710 T	1120	898	928	510	1336	25	60	18	7,5	412	531	636	773	544
800 T	1256	1007	1037	574	1445	25	60	18	7,5	458	597	716	871	598
900 T	1409	1130	1164	653	1574	30	60	18	10	507	670	805	978	660
1000 T	1541	1267	1301	713	1712	30	60	18	10	560	735	884	1075	728

HLZ	l	p	q	t_1	u	v	w_1	w_2	x	y_1	y_2	y_3	$z_1 \times t$
400 T	73,5	290	179	38	10	588	606	736	549	126	191	355	5 x 90
450 T	94,5	322	202	43	12	651	674	828	611	112	189	450	6 x 90
500 T	92	352	221	43	12	720	744	918	681	147	234	450	6 x 90
560 T	113	390	248	53,5	14	818	838	1030	768	169	265	500	7 x 90
630 T	120	434	280	53,5	14	904	936	1158	854	188	299	560	8 x 90
710 T	124	485	318	64	18	1001	1048	1304	961	209	337	630	9 x 90
800 T	124	540	354	64	18	1111	1174	1468	1071	232	379	710	11 x 90
900 T	127	604	406	64	18	1234	1312	1648	1194	256	424	800	11 x 100
1000 T	128	657	433	64	18	1371	1444	1810	1331	272	455	900	12 x 100

subject to change

Radial Fans

TLZ, T-HLZ and HLZ
Weights

Table 6.10

Fan and accessories weights (in Kg)

Size	TLZ	TLZ...T	T-HLZ	T-HLZ...T	HLZ	Inlet vane control	Feet	Frame	Outlet flange
160	5.1						0.5		0.66
180	6.0		6.3				0.5		0.72
200	7.2		7.2				0.8	2.0	0.80
225	8.5		8.2				0.8	2.1	0.88
250	10.8		10.2				0.8	2.4	0.97
280	14.5		14.2				1.0	3.2	1.07
315	20.0		19.4			12	1.0	3.7	1.20
355	26.5		26.3			14	2.0	7.0	1.35
400	32.0		31.5		58	18	2.0	7.6	1.50
450	42.0		41.2		76	21	3.7	8.5	1.70
500	56.0		66.3		88	23	3.7	9.5	1.90
560	76.0		90.0		155	24	7.5	15.8	2.00
630	96.0		111.0		182	30	7.5	17.9	2.30
710	125.0	190	145.0	208	245	35	11.0		2.60
800		230		249	297	40			2.90
900		288		321	392	46			3.90
1000		333		380	459	55			4.40
1120				835	115				
1250				1015	1280				

subject to change