Van Tongeren kennemer bv
INDUSTRIAL FANS & DUSTCOLLECTION SYSTEMS
P.O. Box 4 - NL-1940 AA Beverwijk
Tel.(31)251-229160 Fax.(31)251-212382

T-model grafiek

Client	-
Client ref.	-
Project	-
Equipment	-
Type	MD 617/1000/T1E
VTK ref.	-
Doc. No.	-

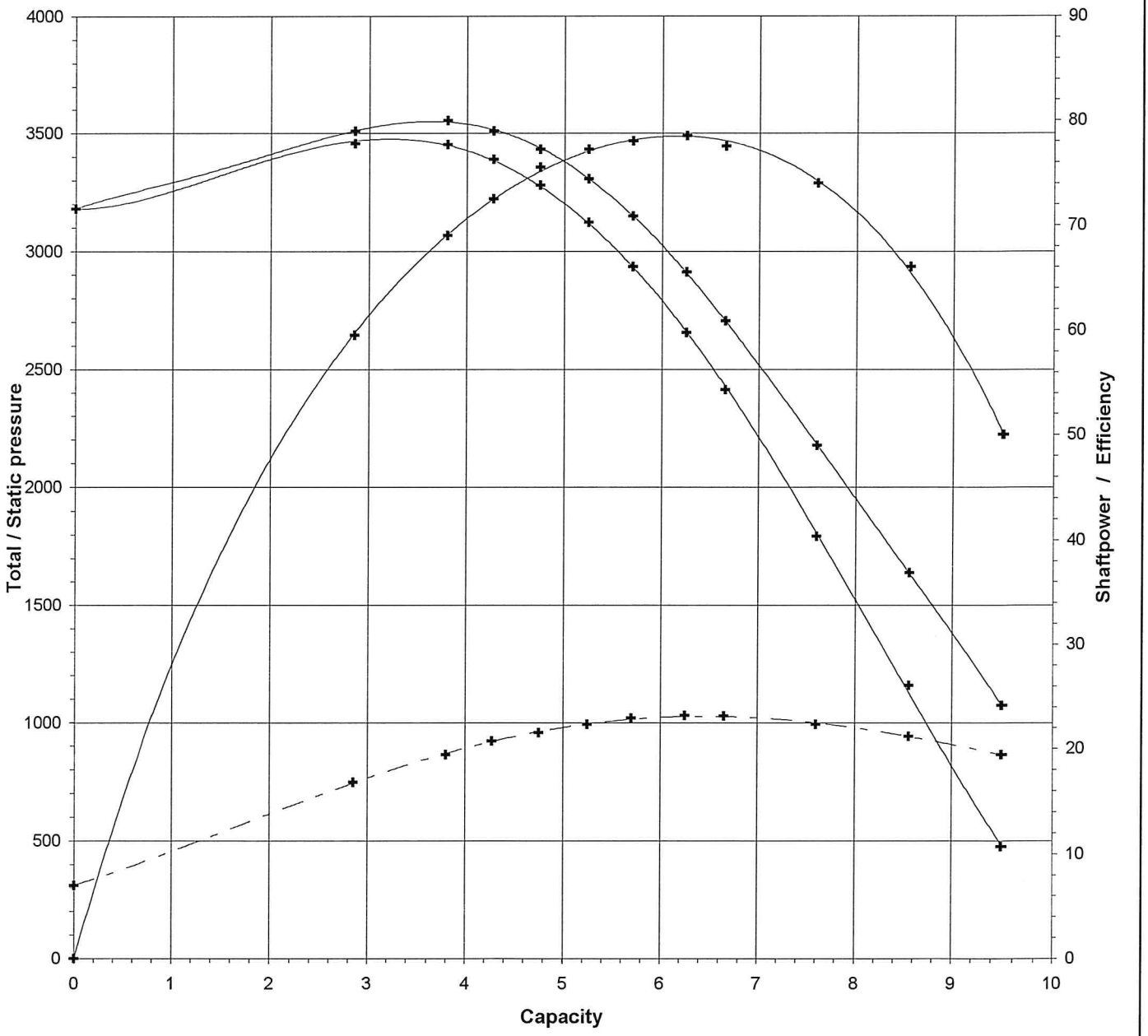
Revision No.	O
Date	99/02/18
By / Checked	BKo

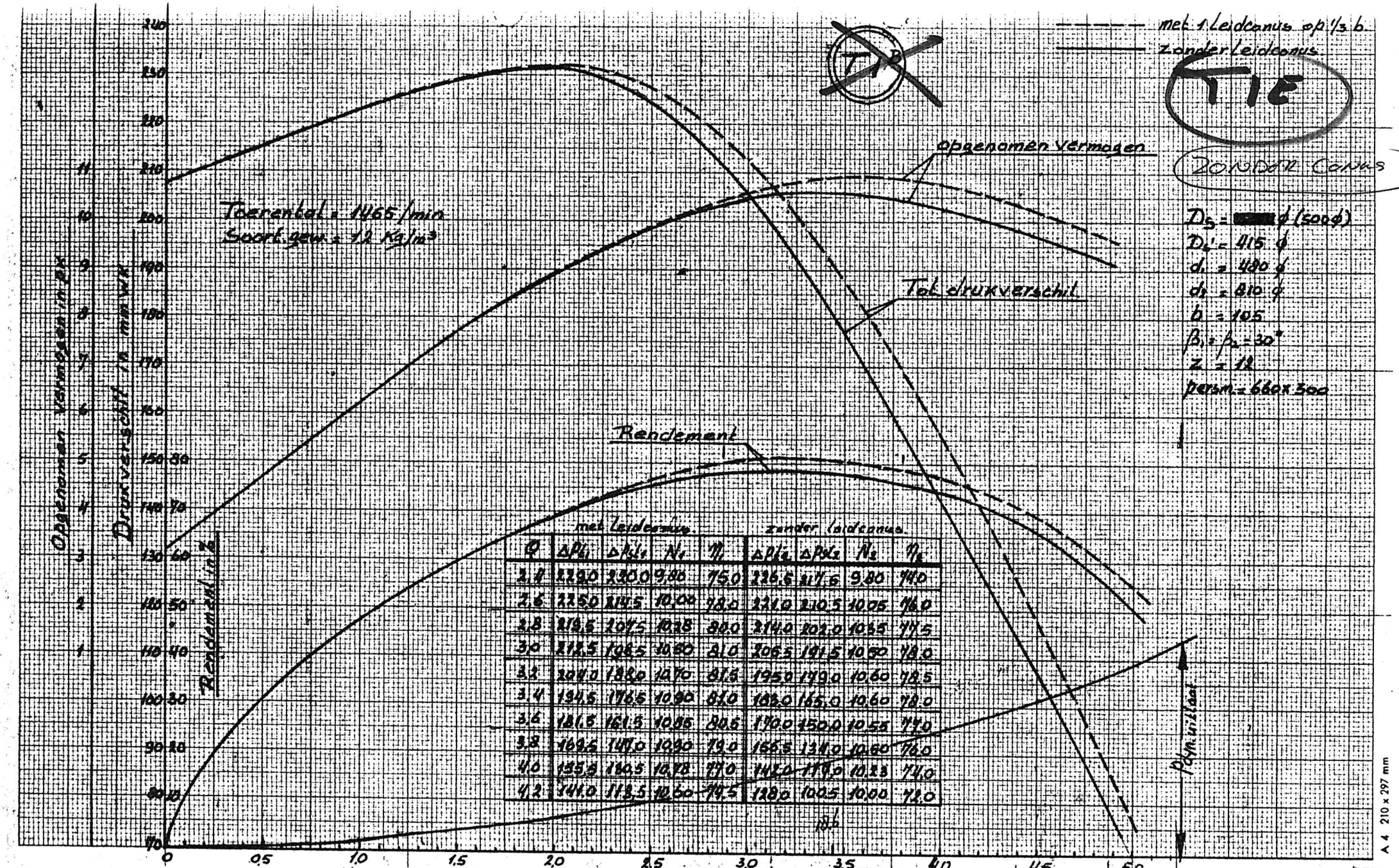
Notes

Type	T1E
Bijzonderheden	Gelijk aan T1B echter zonder leidconus in aanzuig

Case	Design
Inlet density	1.205 kg/Am^3
Inlet temperature	20 °C
Fan speed	1480 rpm

	Units	Line type
Capacity	Am3/h	
Total press.	Pa	———
Static press.	Pa	– – – –
Power	kW	— - — -
Efficiency	%	- - - - - - - -





	met Leidconus				zonder Leidconus			
Q	Δp_{t_1}	Δp_{k_1}	N_1	η_1	Δp_{t_2}	Δp_{k_2}	N_2	η_2
2,4	229,0	230,0	9,80	75,0	226,5	227,5	9,80	74,0
2,6	225,0	226,5	10,00	78,0	221,0	220,5	10,05	76,0
2,8	219,5	207,5	10,28	80,0	214,0	202,0	10,55	77,5
3,0	212,5	198,5	10,50	81,0	206,5	191,5	10,50	78,0
3,2	204,0	188,0	10,70	81,5	195,0	179,0	10,60	78,5
3,4	194,5	176,5	10,90	81,0	182,0	165,0	10,60	78,0
3,6	181,5	161,5	10,95	80,5	170,0	150,0	10,55	77,0
3,8	169,5	147,0	10,90	79,0	156,5	134,0	10,60	76,0
4,0	155,5	130,5	10,78	77,0	141,0	119,0	10,25	74,0
4,2	141,0	113,5	10,60	74,5	128,0	100,5	10,00	72,0

p_{st} =	207,5 =	215,1		221,4		225,5		225,8	225,2	217,6	214	198,5	191,5	168,3	157,5	130,5	117	85	76,5	37	31
p_t =	207,5 =	215,5		223		229		232	231,5	227,5	224	212,5	205,5	187,5	176,5	155,5	142	106	107	76	70
N =	3,2 =	4,7		6,25		7,7		8,95	8,9	9,9	9,85	10,6	= 10,5	10,9	10,6	10,78	10,23	10,2	9,7	9,4	8,9
η =	0 =	30,6		47		59,5		69		77	75,5	81	78	80,5	77,5	77	74	69	66	55	50

Eenheid	Regelnr.	T01E
Diameter	mm	1000
Toerental	rpm	1480
Dichtheid	kg/Am³	1.205
Zuigmond diameter	mm	617.3
Persmond lengte	mm	814.8
Breedte huis	mm	370.4
Lengte spiraal	mm	5679.0
Zijaanzich a1	mm	685.2
b	mm	866.7
c	mm	1045.7
d	mm	859.3
e	mm	1044.4
Schoeplengte	mm	385.2
Aantal schoepen		12
Breedte inwendig	mm	129.6
Breedte uitwendig	mm	129.6
Keeldiameter	mm	512.3
Inw. dia. schoepen	mm	592.6
Intrede hoek	°	30
Uittrede hoek	°	30

Kental	Min	Max	Ref. regel
Pst	351.9	117.9	3
Q	3.80	8.55	11
P^3/Q^2	3015347	22414.53	
P/Q^2	24.34709	1.611639	

	Volume (Am³/s)	Tot. Druk (Pa)	Stat. Druk (Pa)	Vermogen (kW)	Rendement (%)
1	0.00	3179.6	3179.6	7.0	0.00
2	2.85	3509.0	3455.4	16.8	59.50
3	3.80	3555.0	3452.3	19.4	69.00
4	4.28	3510.0	3389.0	20.7	72.50
5	4.75	3432.4	3279.2	21.5	75.50
6	5.25	3306.0	3121.7	22.3	77.20
7	5.70	3148.9	2934.4	22.9	78.00
8	6.25	2912.0	2654.5	23.2	78.50
9	6.65	2704.6	2413.4	23.1	77.50
10	7.60	2175.9	1792.8	22.3	74.00
11	8.55	1639.6	1156.9	21.2	66.00
12	9.50	1072.6	475.0	19.4	50.00

	Volume (Am³/s)	Tot. Druk (mm wk)	Stat. Druk (mm wk)	Vermogen (kW)	Rendement (%)	P^3/Q^2	P/Q^2
1	0.00	324.1	324.1	7.0	0.00	-	-
2	2.85	357.7	352.2	16.8	59.50	5374906.15	43.32214
3	3.80	362.4	351.9	19.4	69.00	3015347.36	24.34709
4	4.28	357.8	345.5	20.7	72.50	2253743.98	18.88424
5	4.75	349.9	334.3	21.5	75.50	1653769.84	14.80061
6	5.25	337.0	318.2	22.3	77.20	1169089.78	11.54526
7	5.70	321.0	299.1	22.9	78.00	822957.847	9.19755
8	6.25	296.8	270.6	23.2	78.50	507202.204	6.927136
9	6.65	275.7	246.0	23.1	77.50	336371.623	5.557639
10	7.60	221.8	182.8	22.3	74.00	105572.637	3.160907
11	8.55	167.1	117.9	21.2	66.00	22414.5277	1.611639
12	9.50	109.3	48.4	19.4	50.00	1256.77878	0.536003