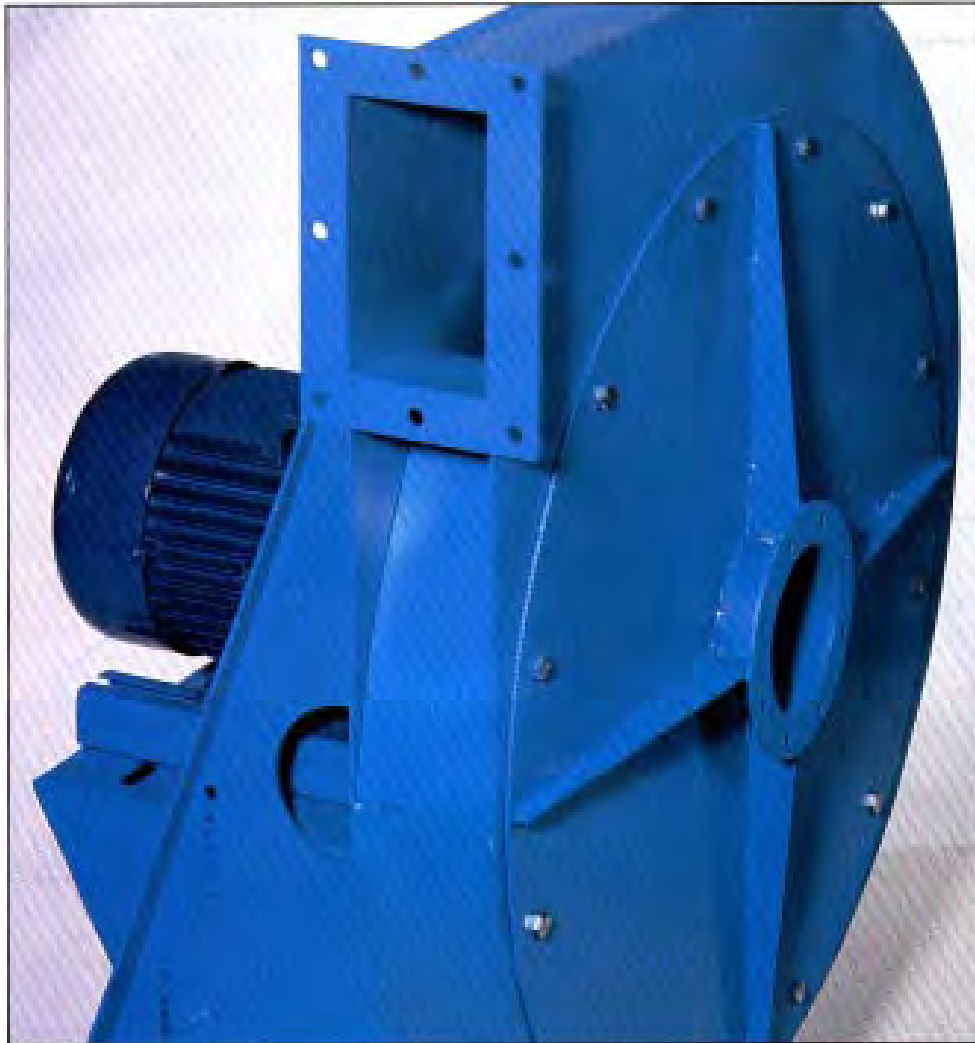


Industrial Radial Fans Serie DP - high pressure



comefri



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Note! Dimensions of belt driven DP-fans are available at request.


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GENERAL DESCRIPTION

The Comefri DP ... Fan is indicated for all the application in which is requested to convey small volumes at high pressure.

This fan is mainly used for ventilation, drying, pressurization and transport processes where the medium is containing also high quantity of dust.

The wheel is auto-cleaning and therefore it allows the treatment of air containing granular particles, but not filaments.

The maximum allowed operating temperature, for standard lay-out, is 80°C.

The housing is made of carbon steel continuously welded and appropriately reinforced.

The fan is suitable to be oriented by 45 degree steps.

This brochure is concerning the setting 4 (direct transmission), however the main data are applicable for both settings 1 and 8.



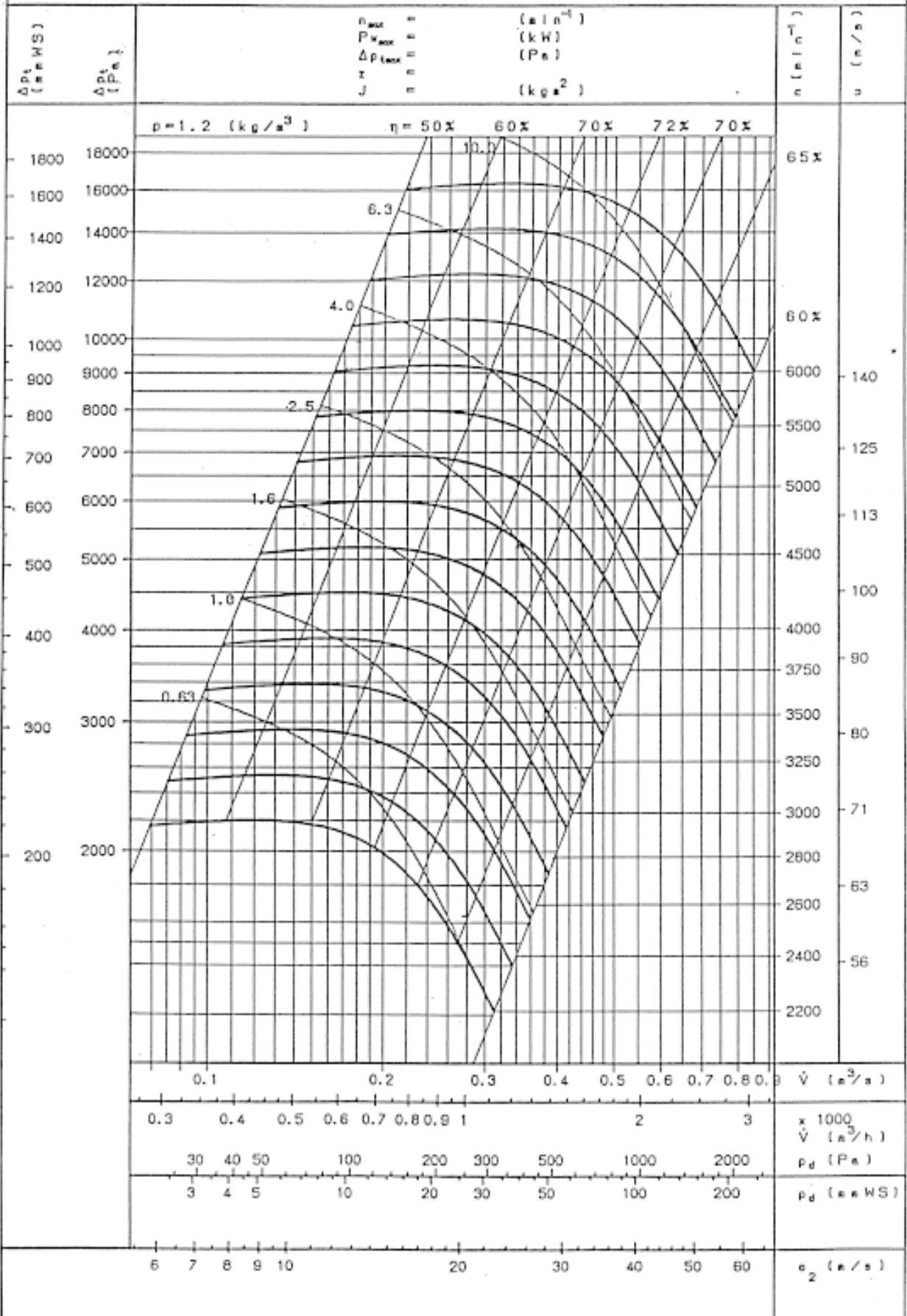
For this fan, the list of the main accessories upon request is the following:

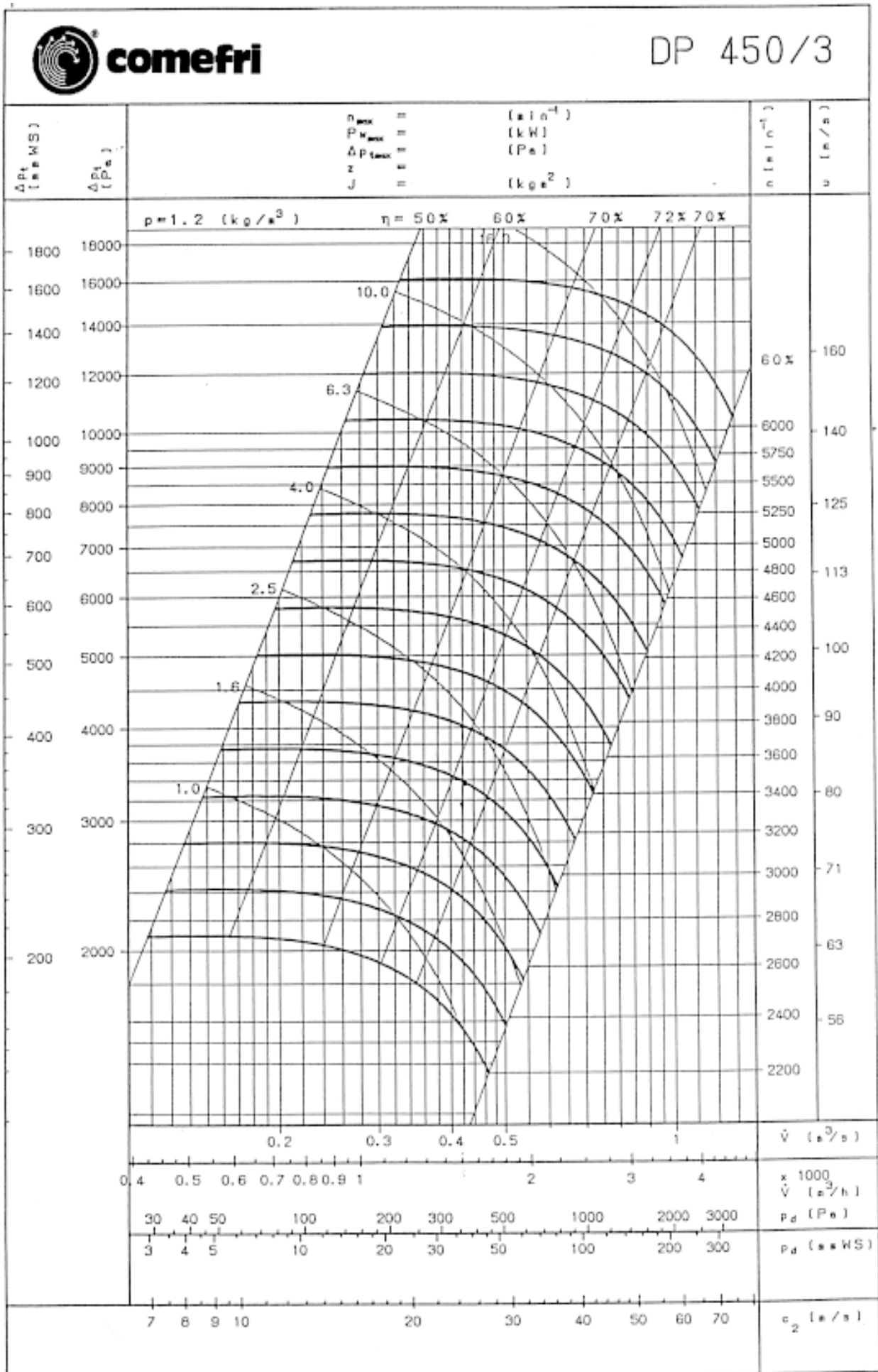
- drain plug;
- coupling with B5 electric motor without motor support;
- inlet and outlet guard;
- anti sparking execution according to the international standards;
- special construction for fluid temperature up to 200°C;
- shaft sealing: simple, rubber seal, stuffing box and labyrinth.



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DP 450/2

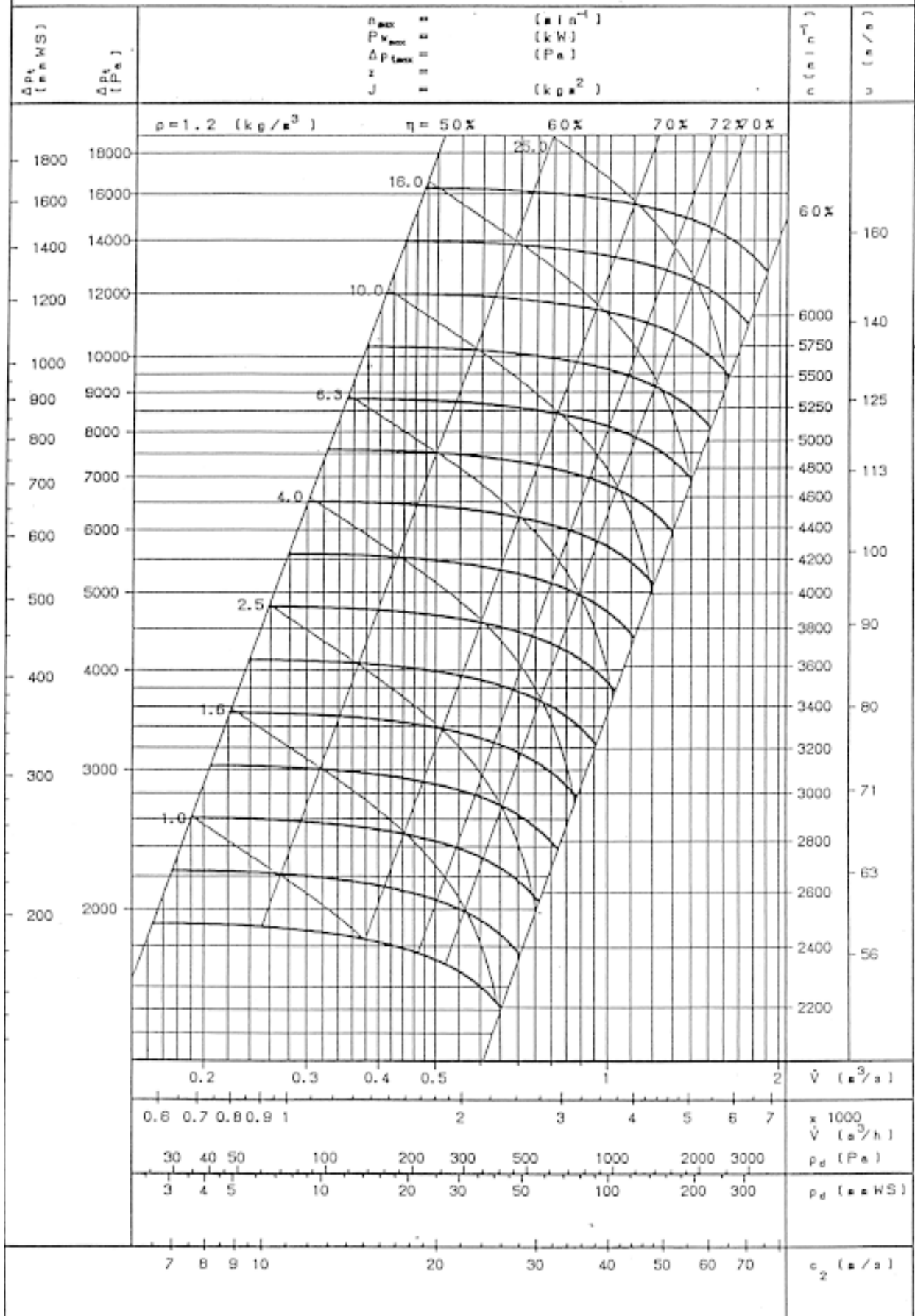


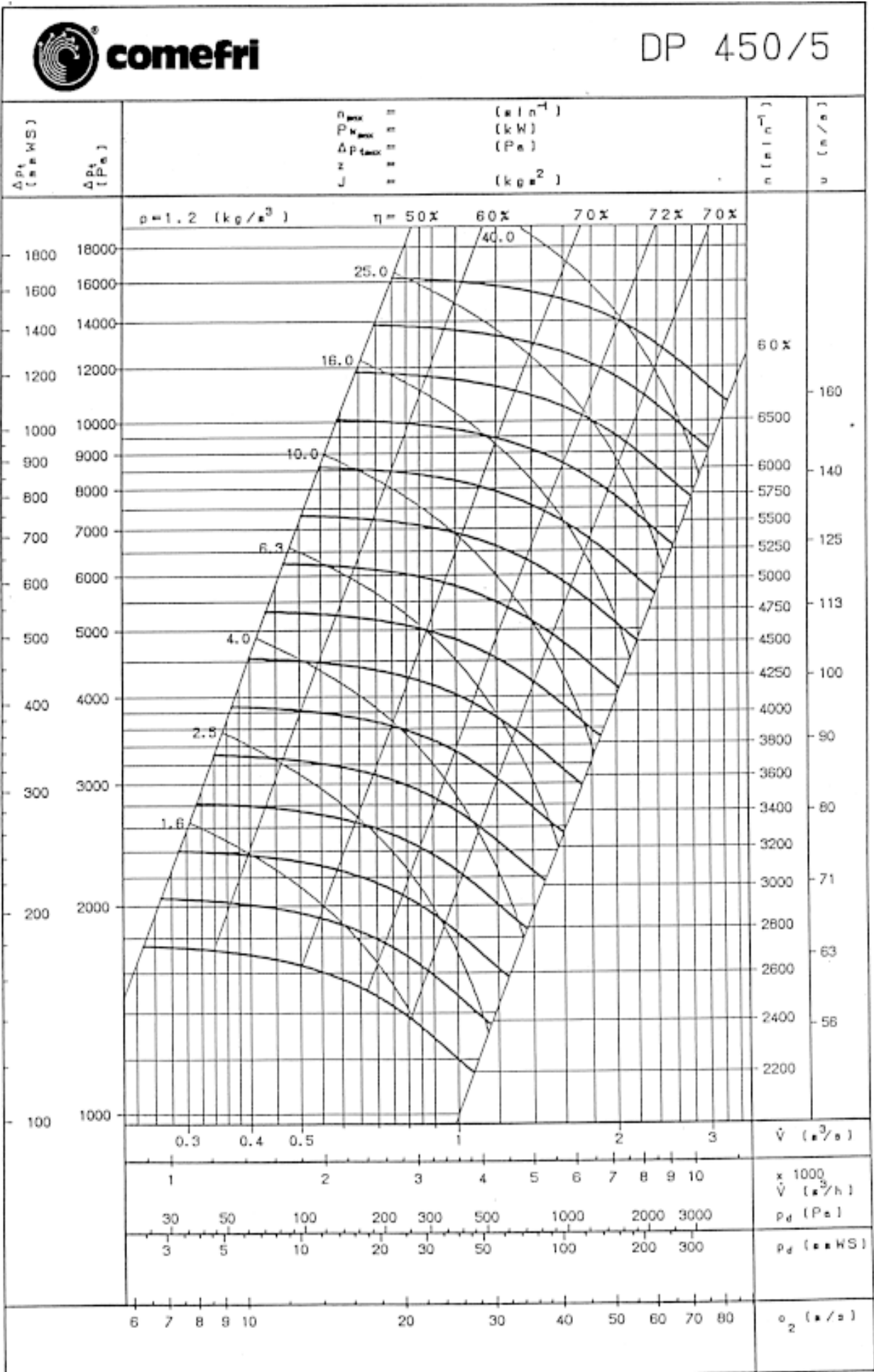




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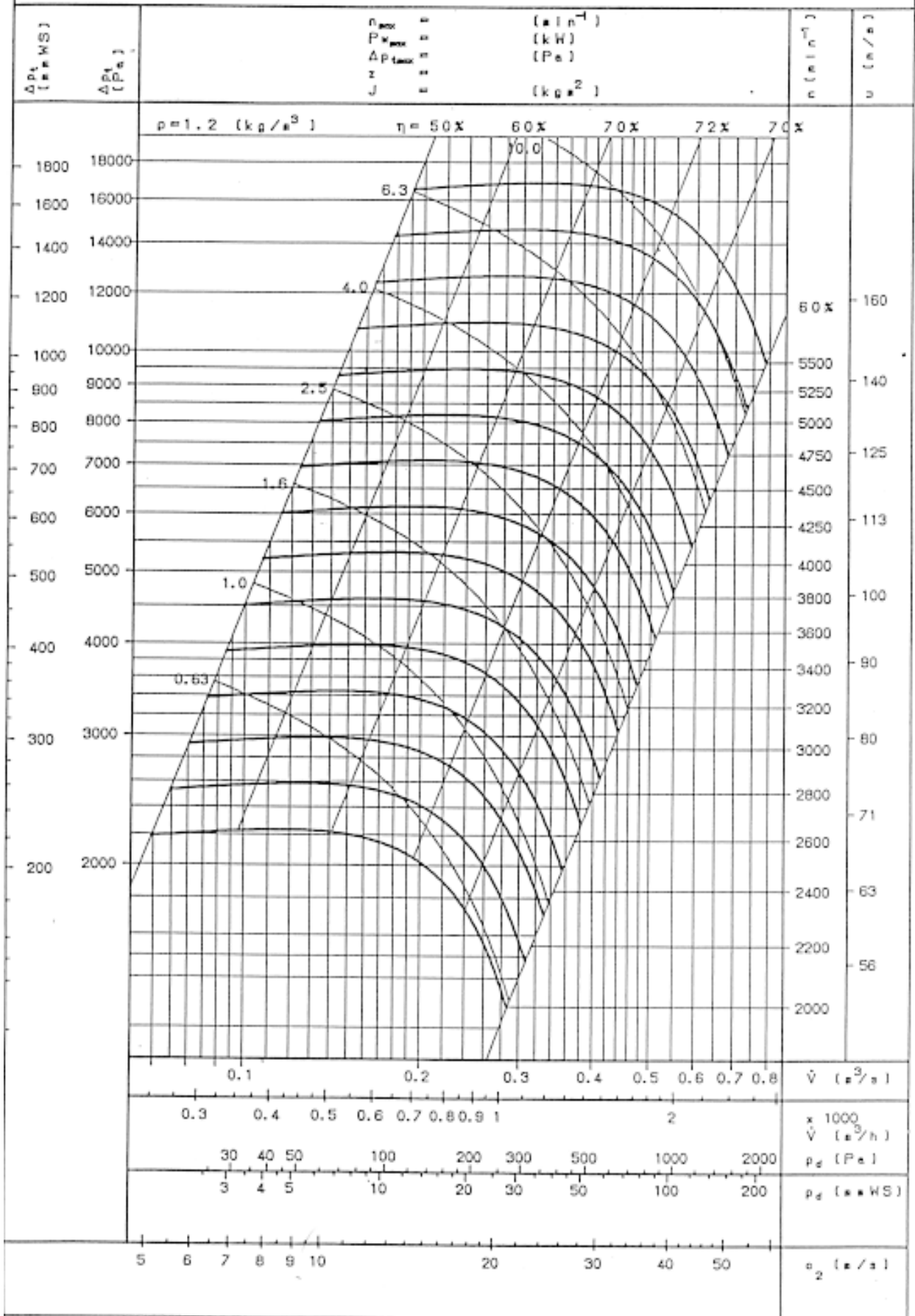
DP 450/4

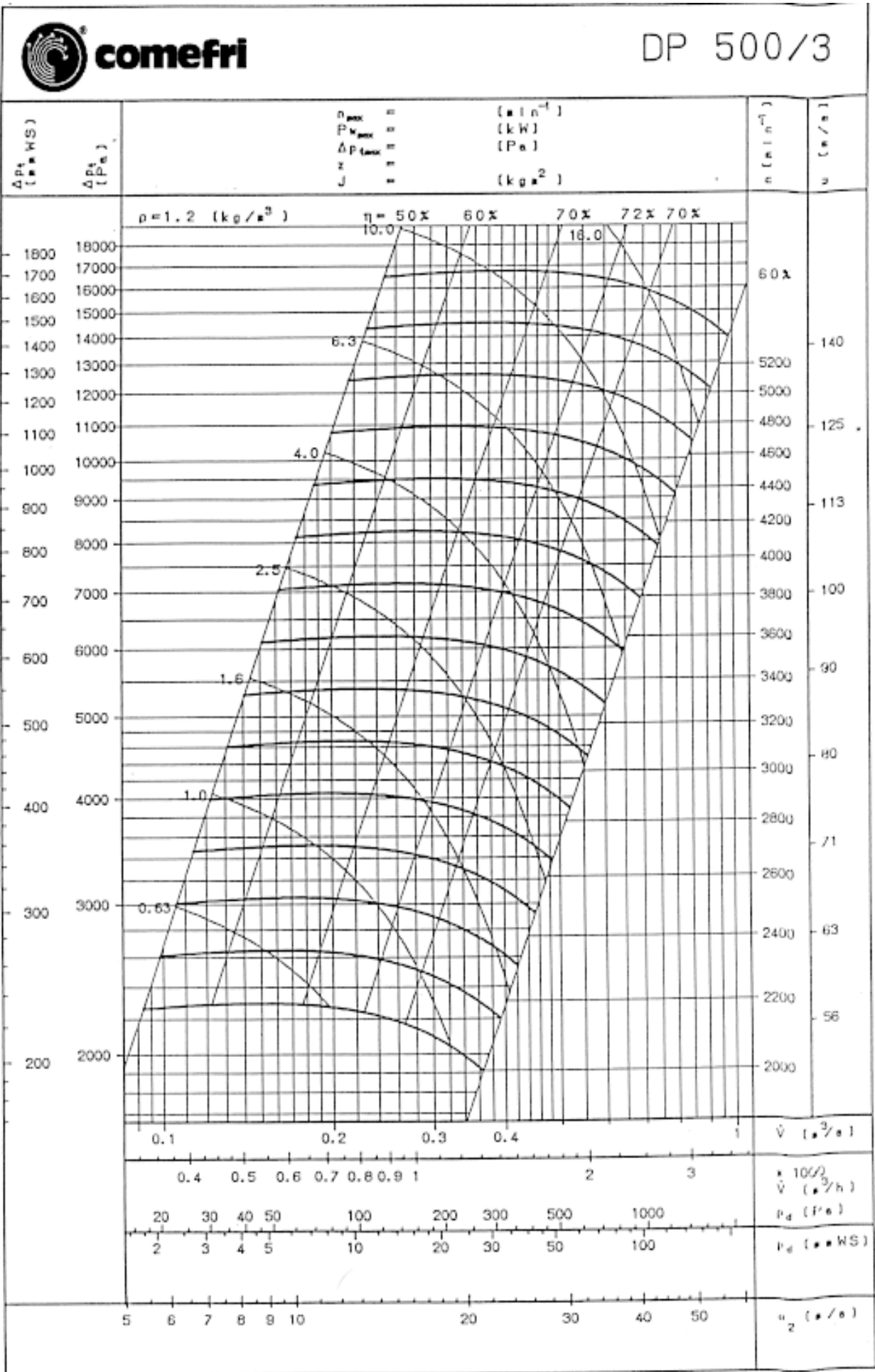


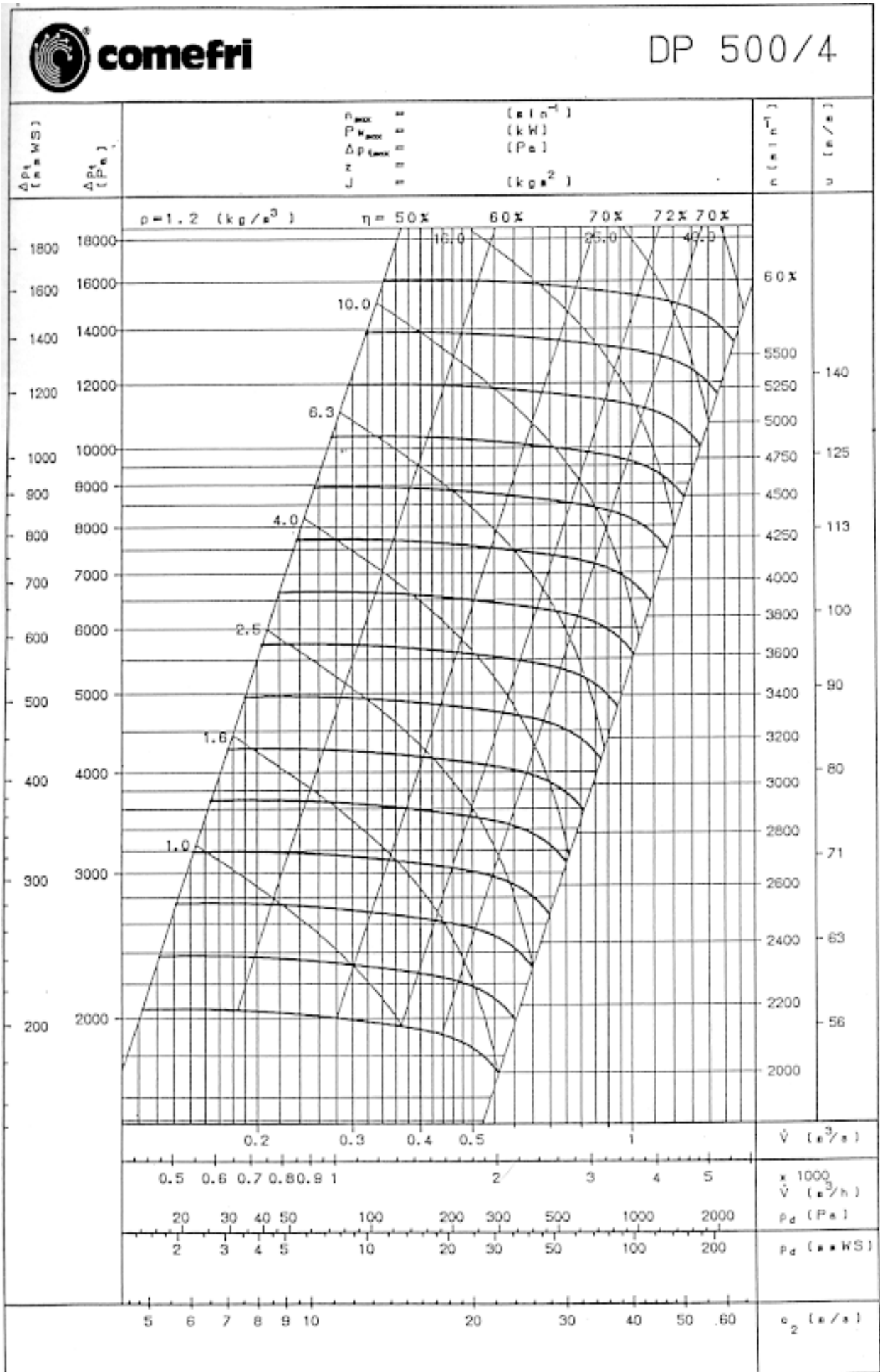


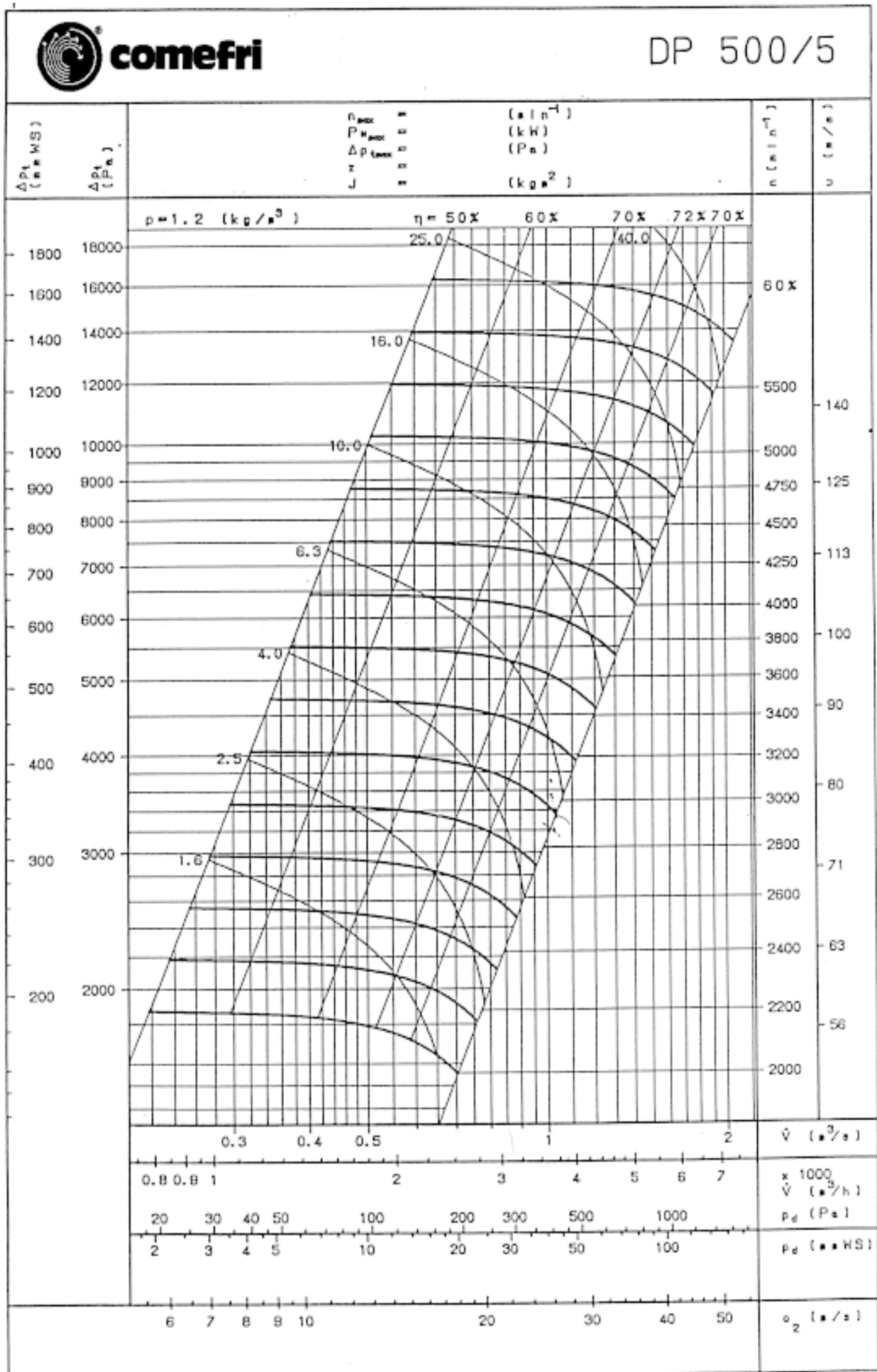


DP 500/2





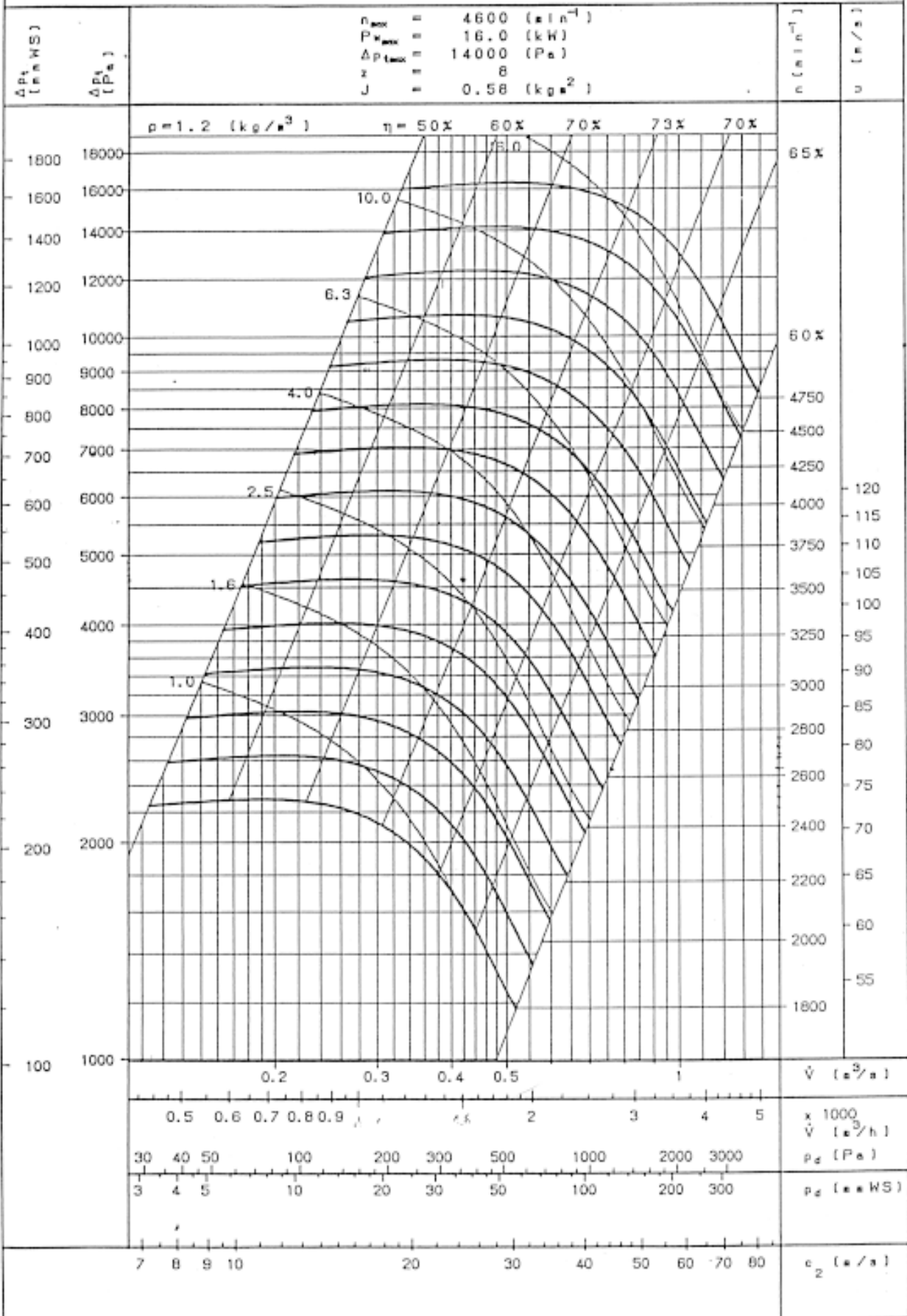


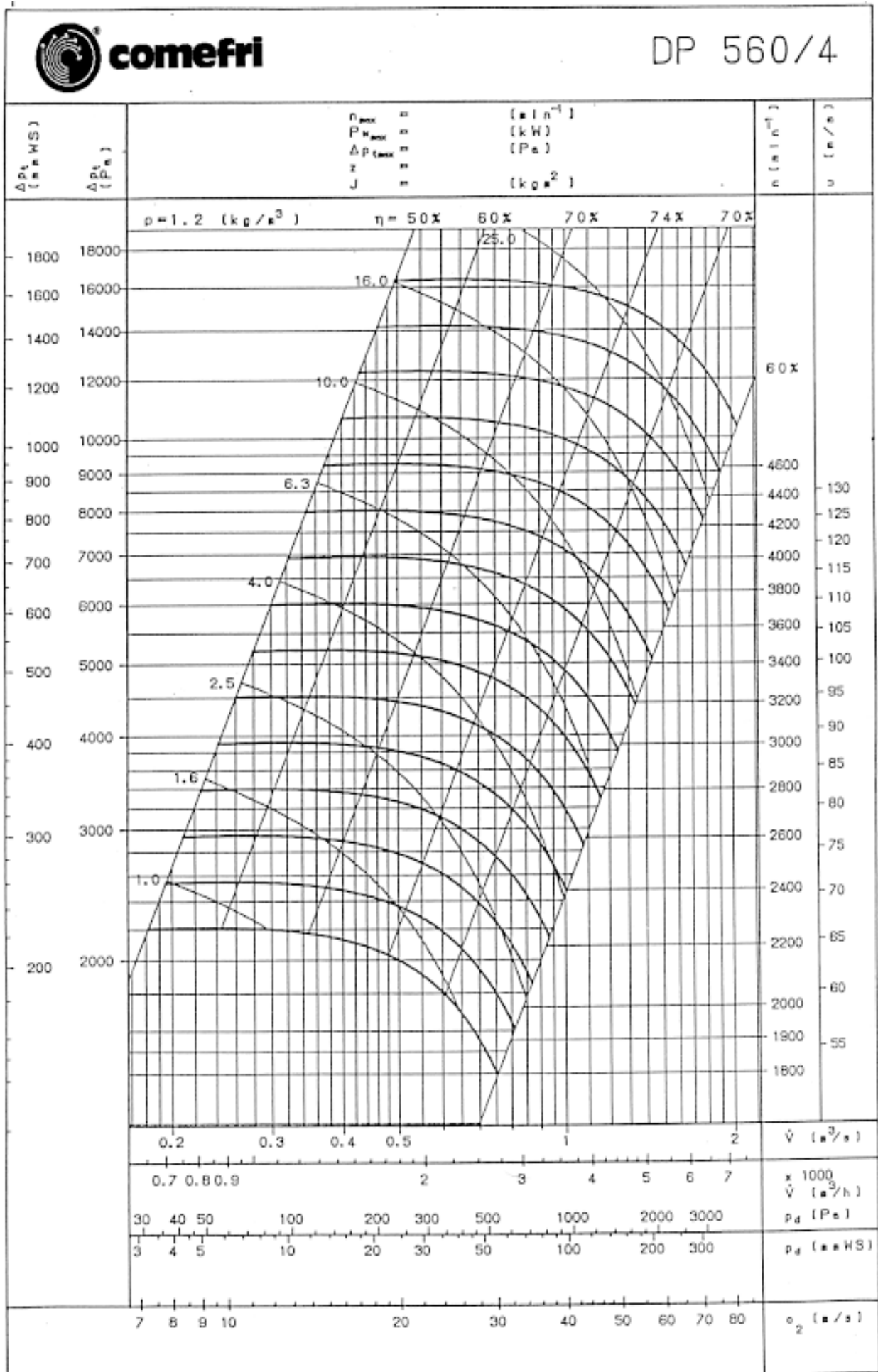


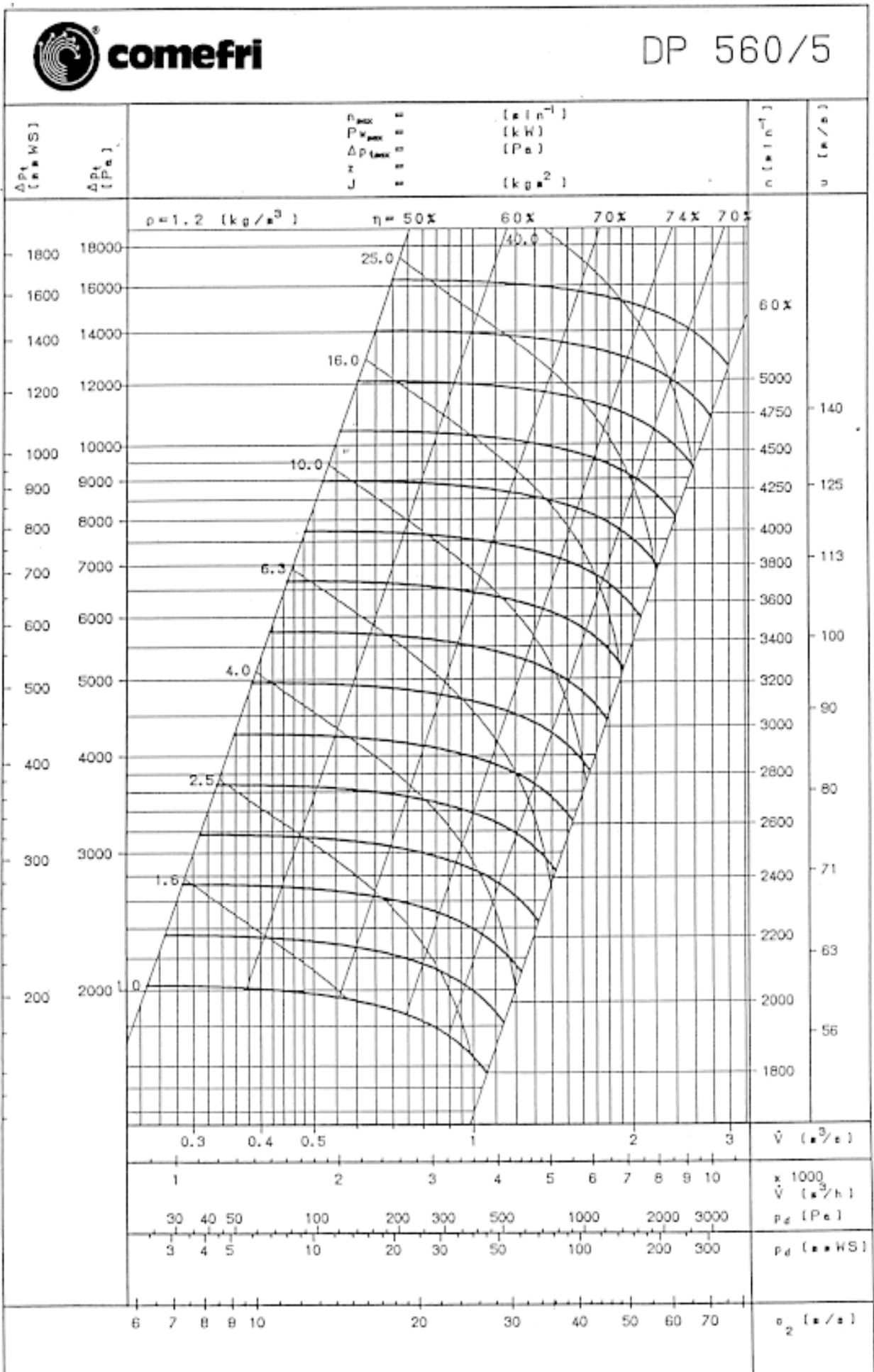


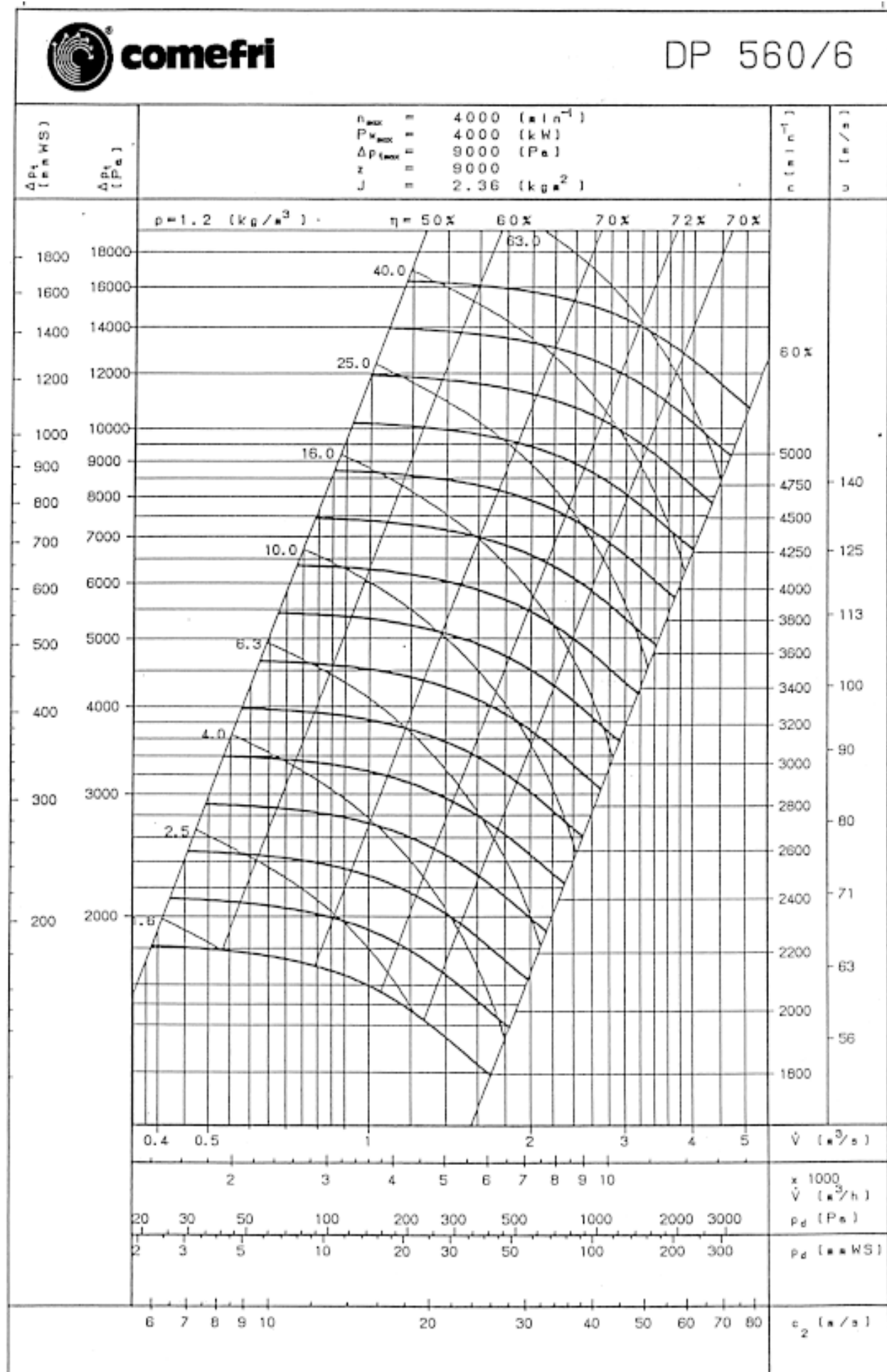
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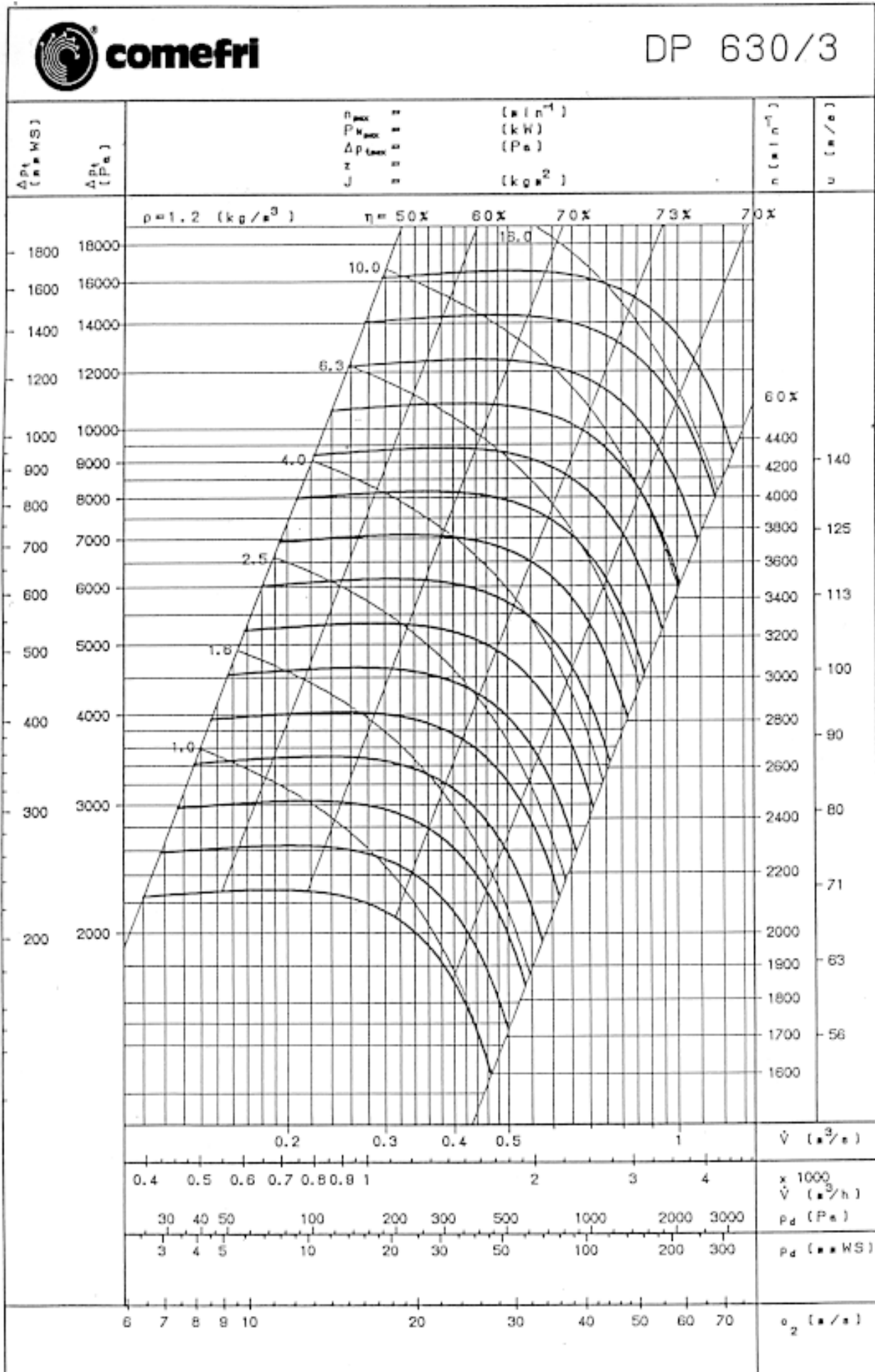
DP 560/3

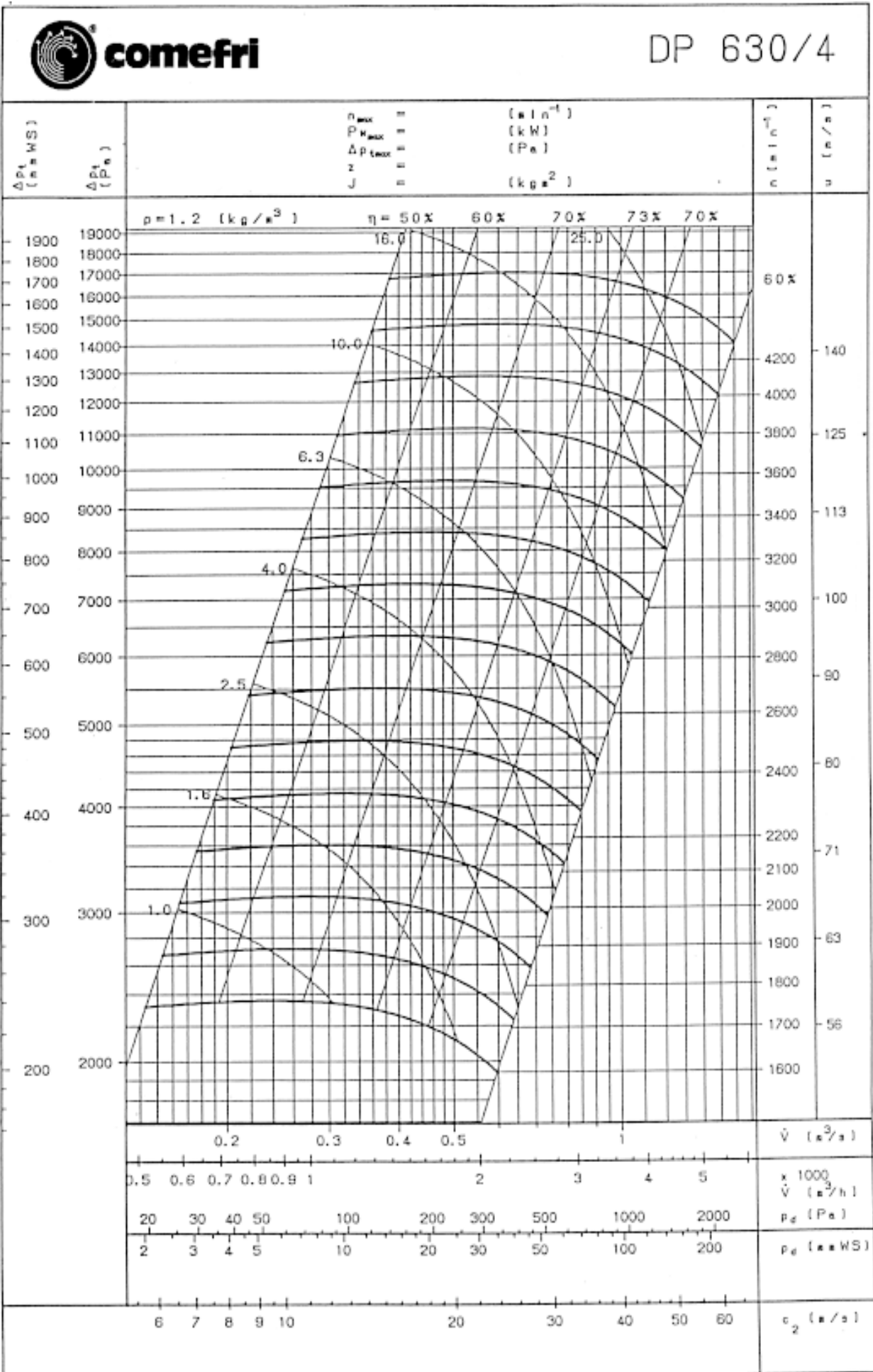


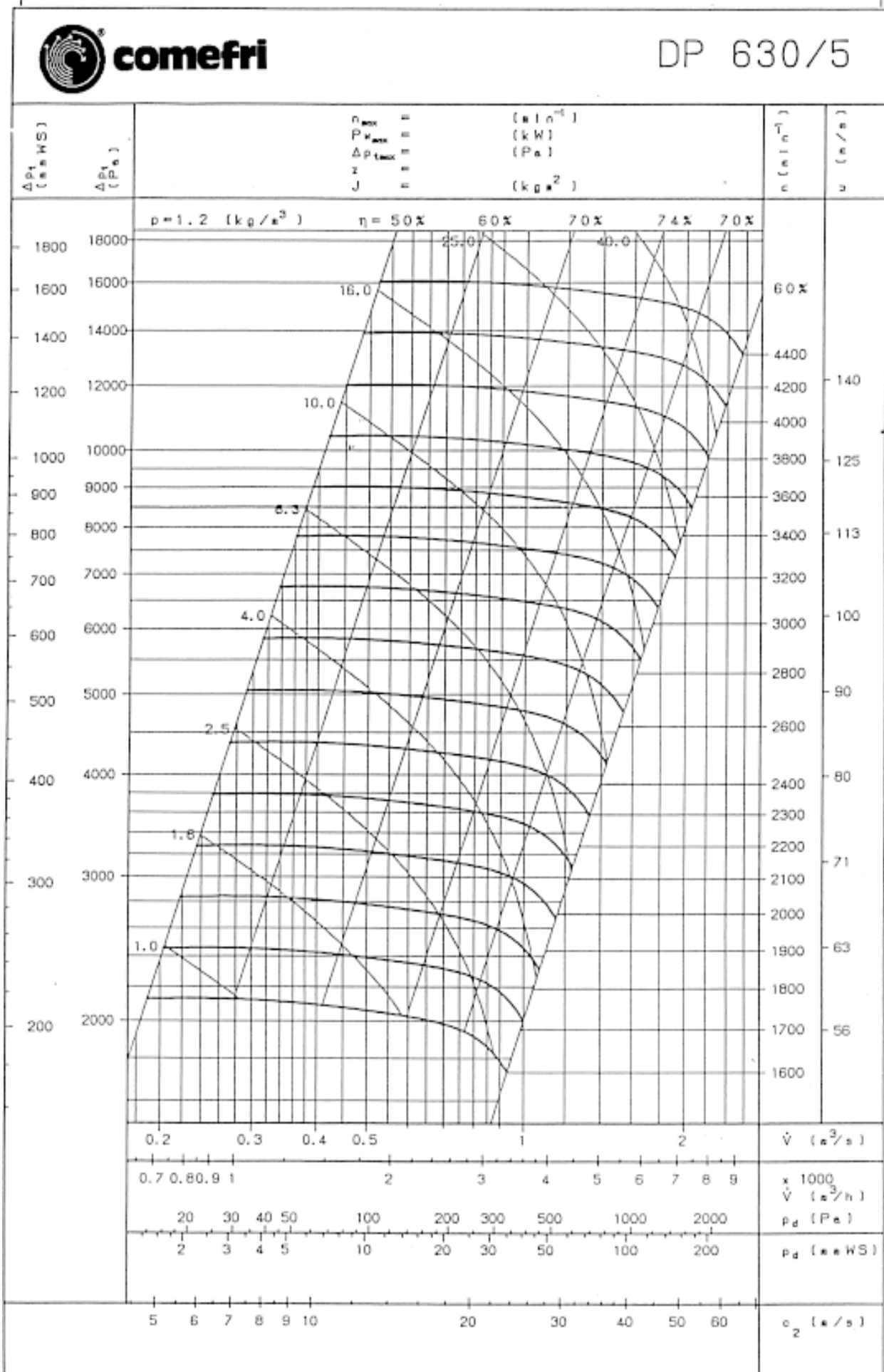


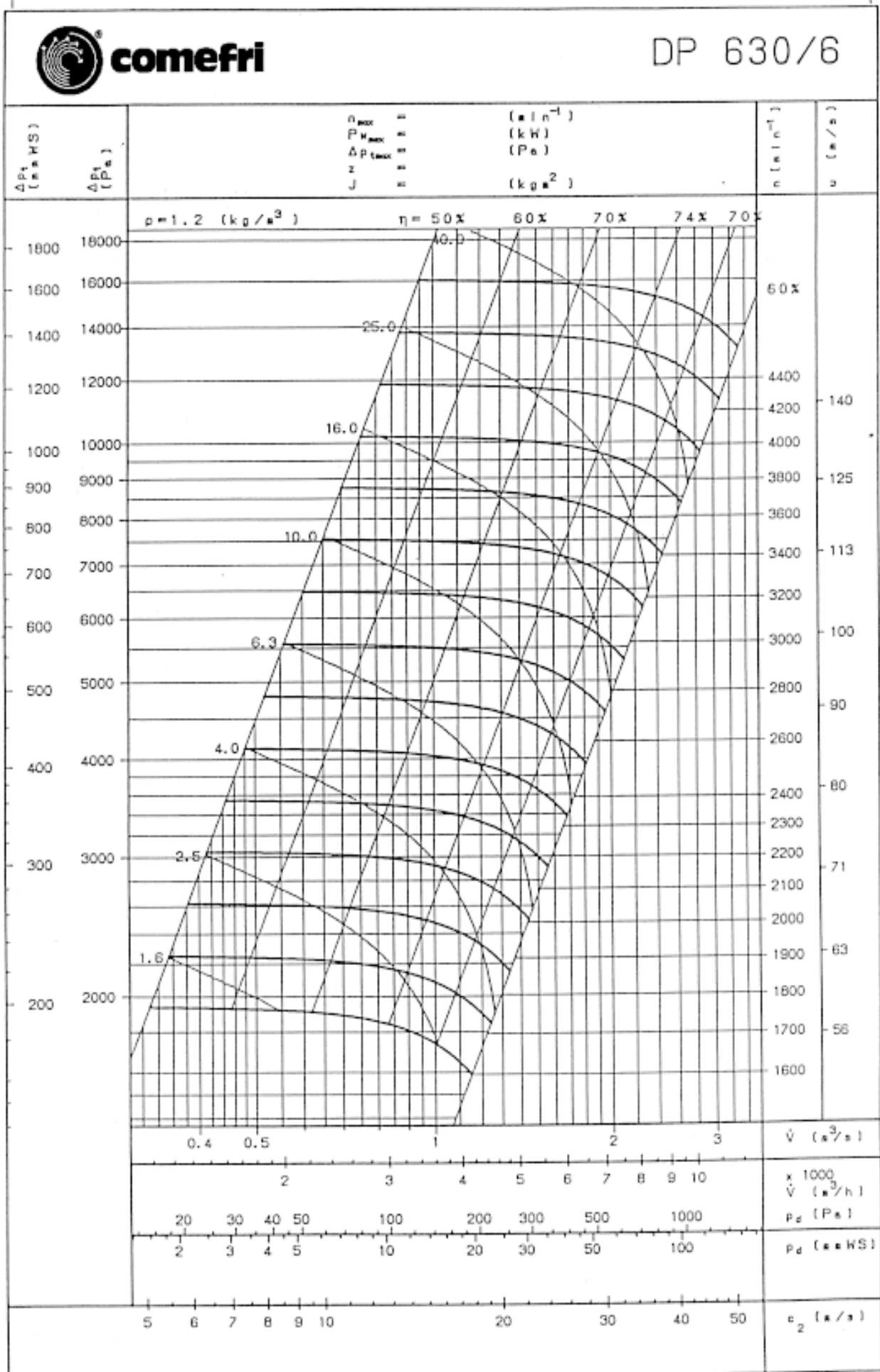


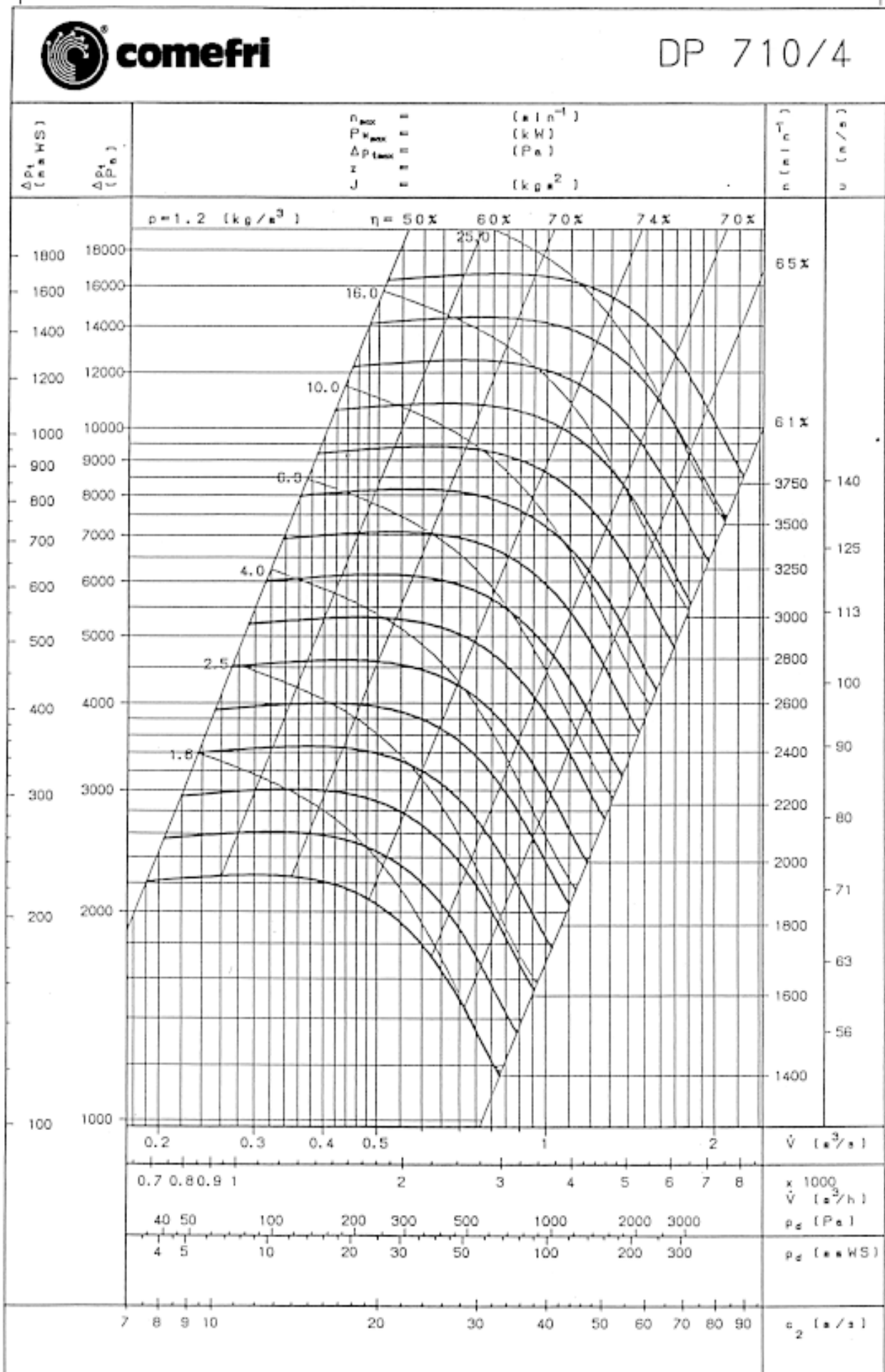


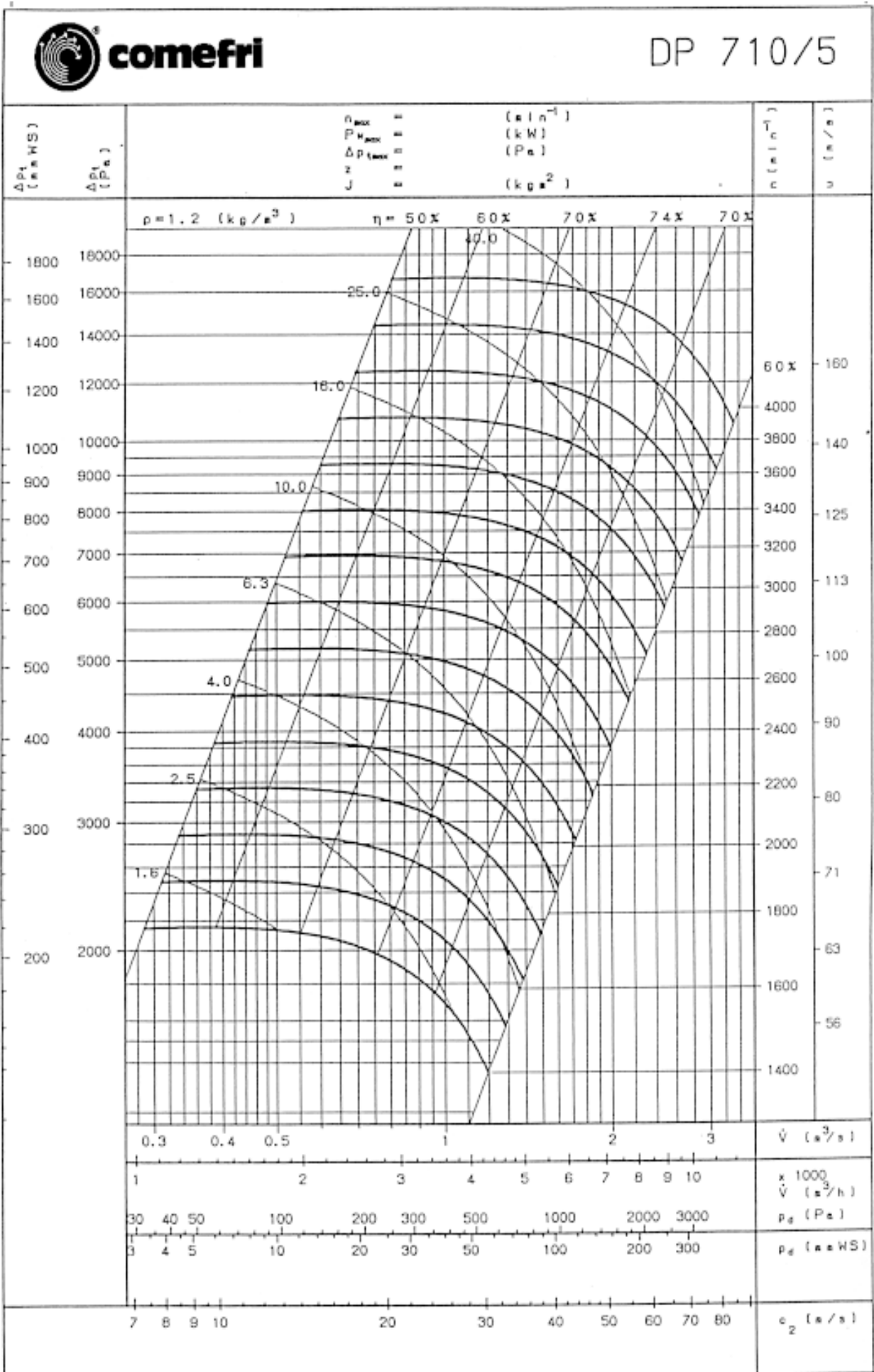


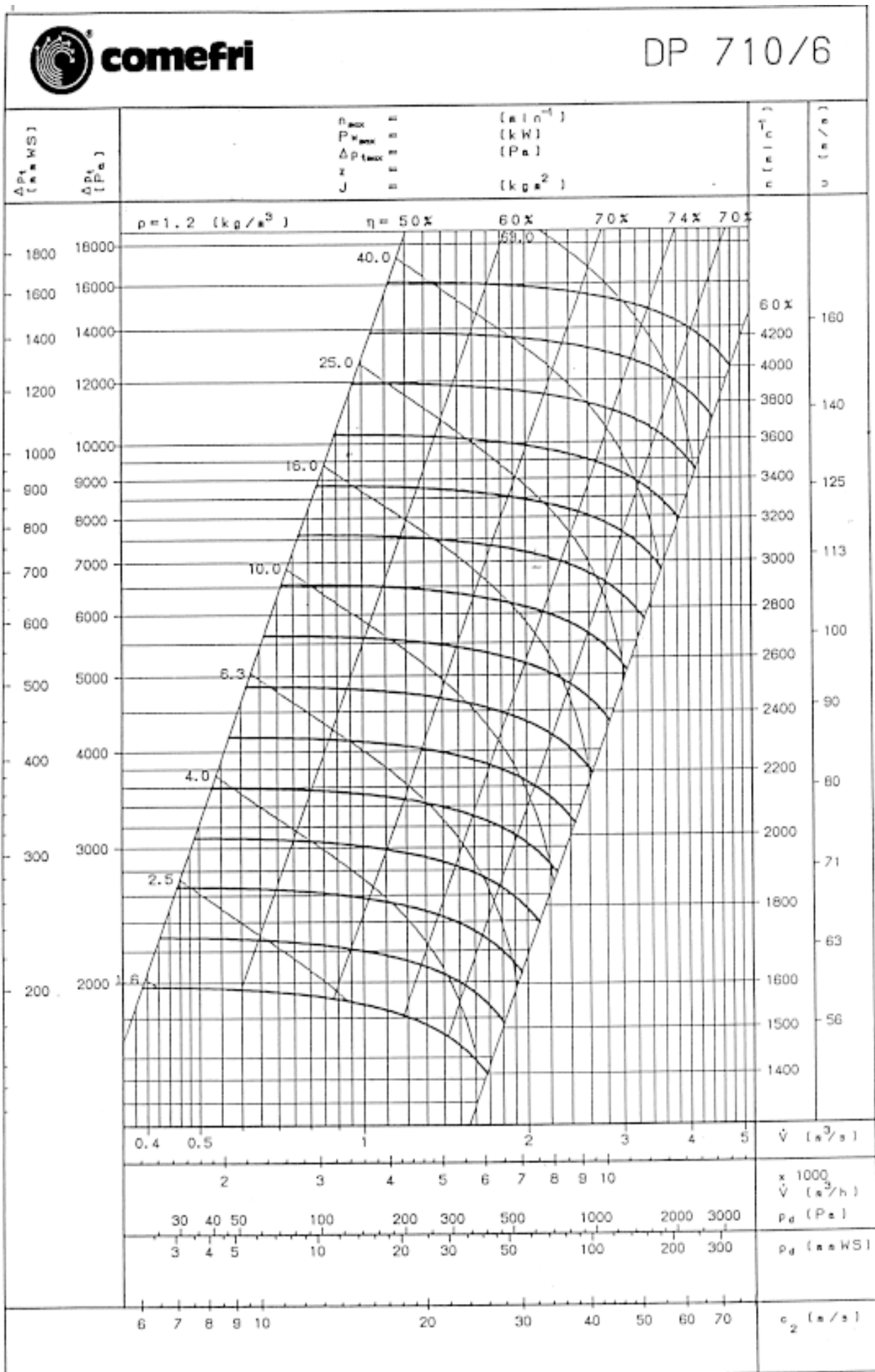


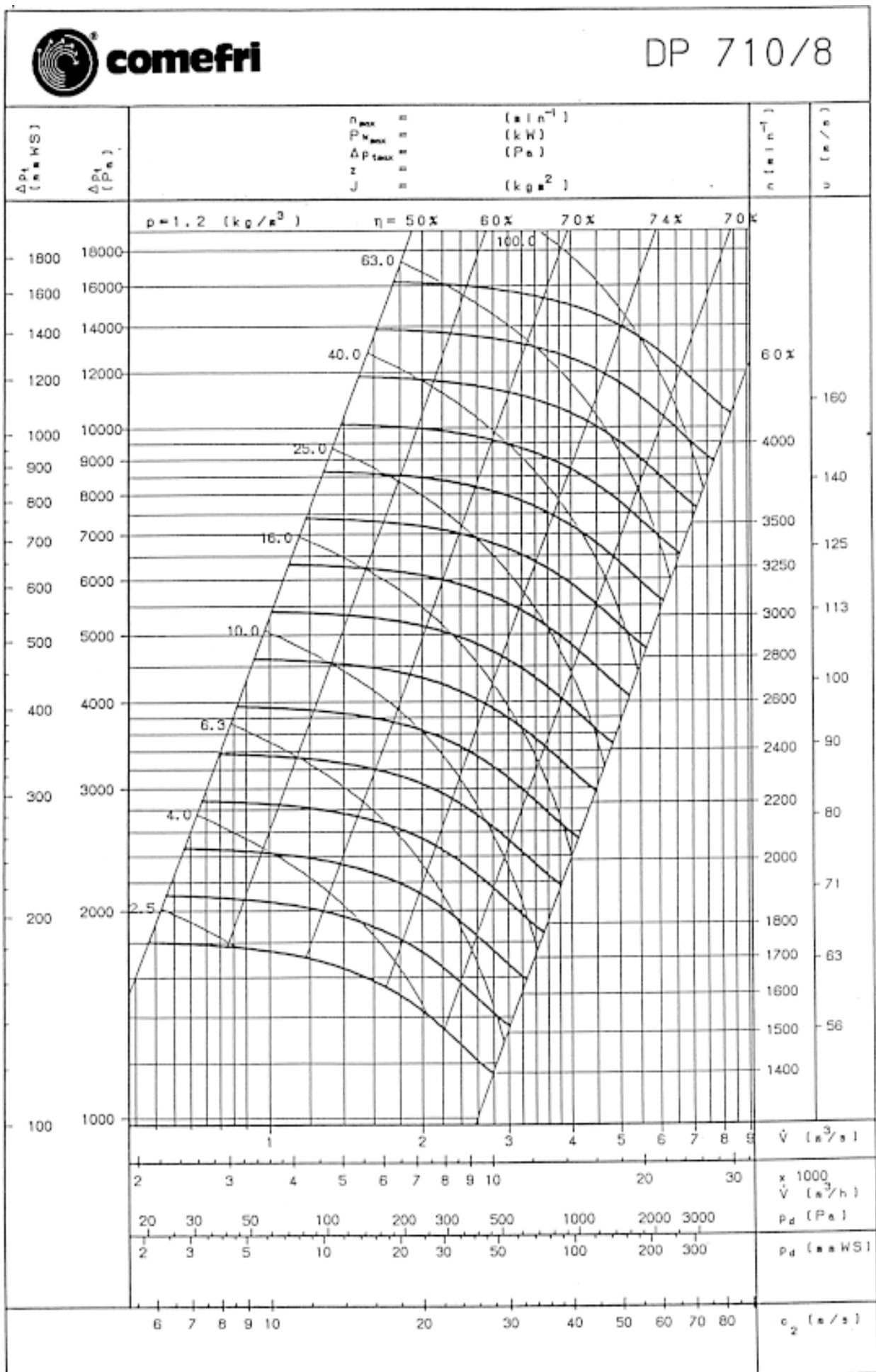


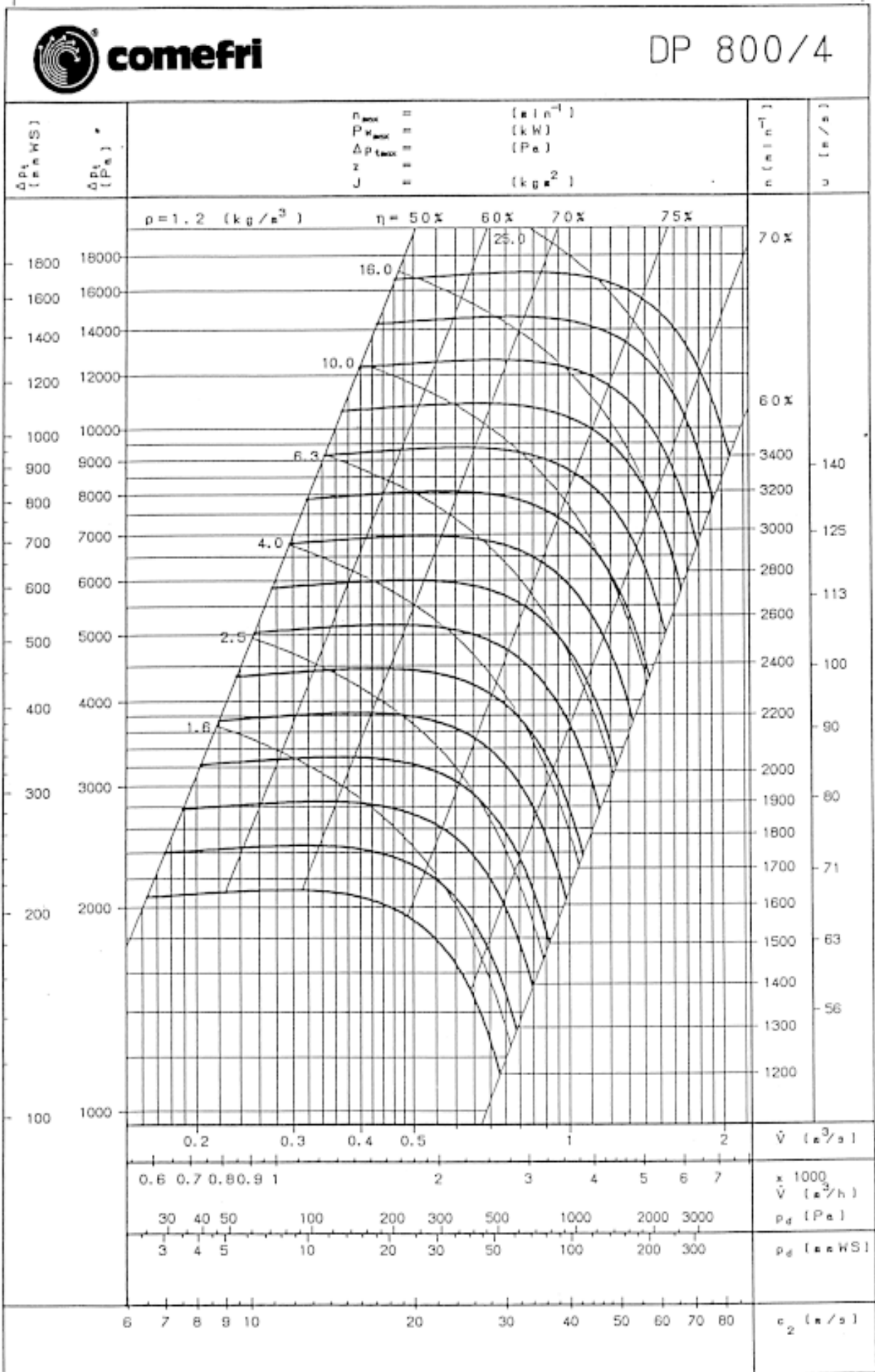


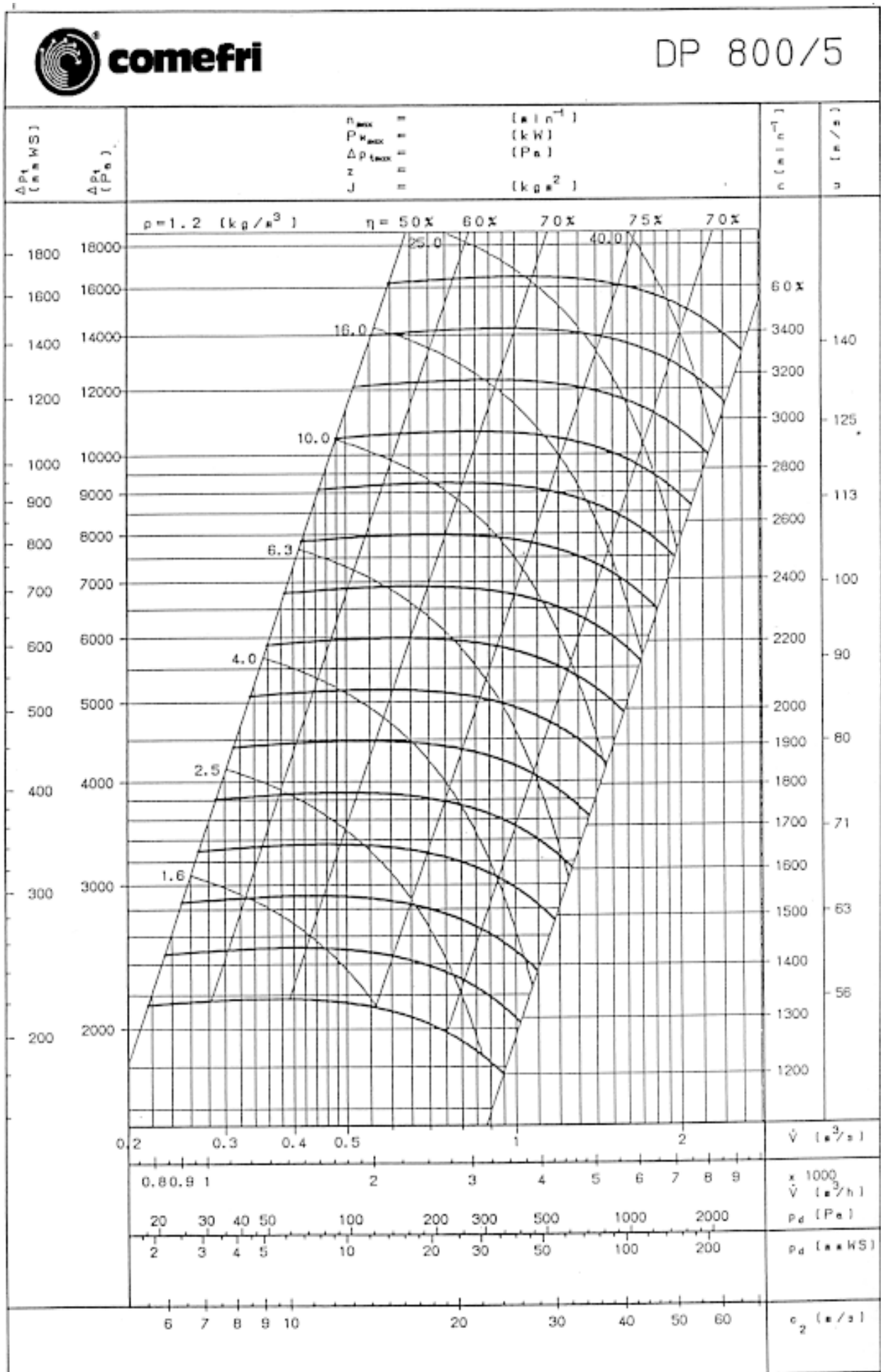


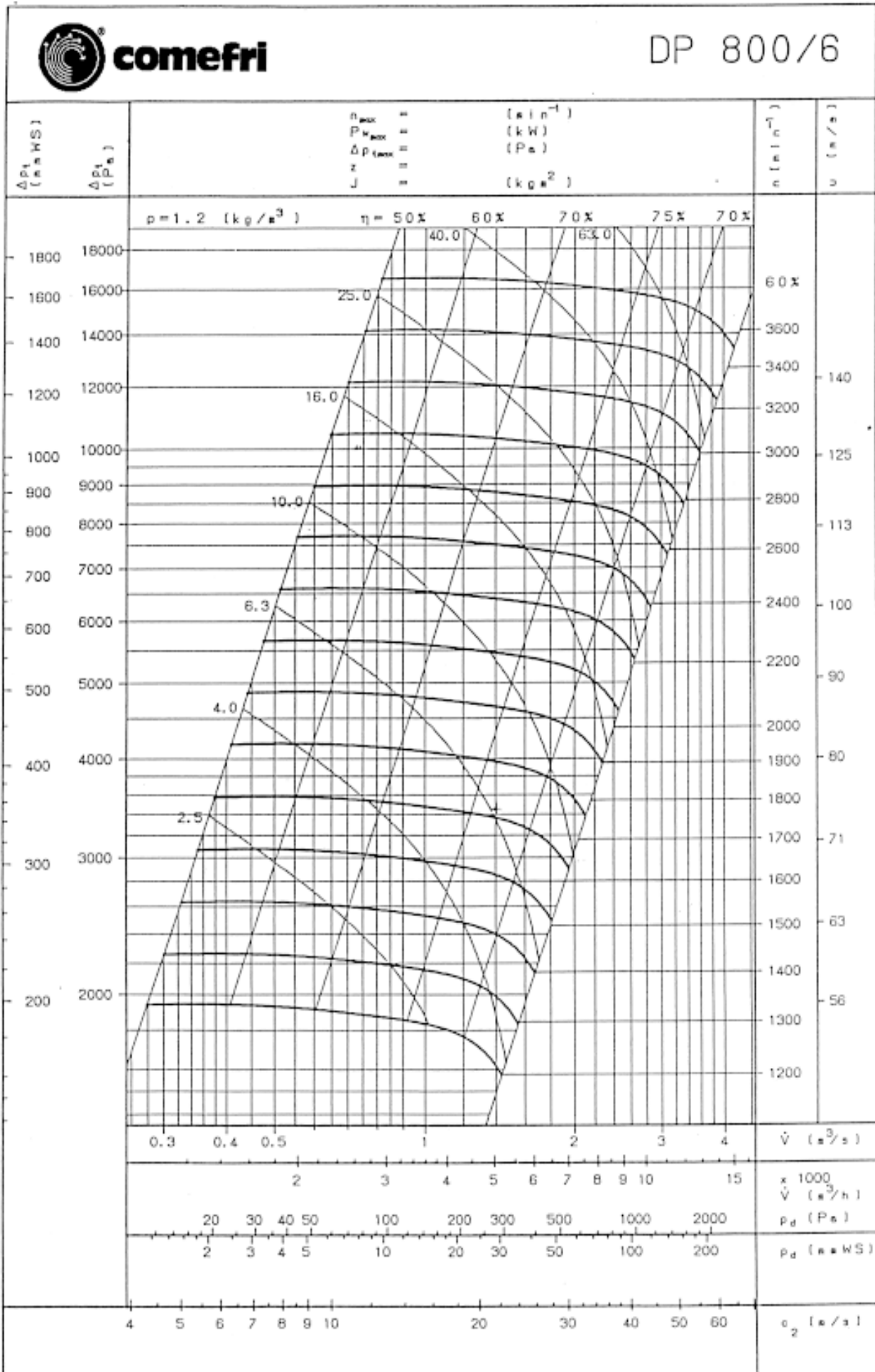


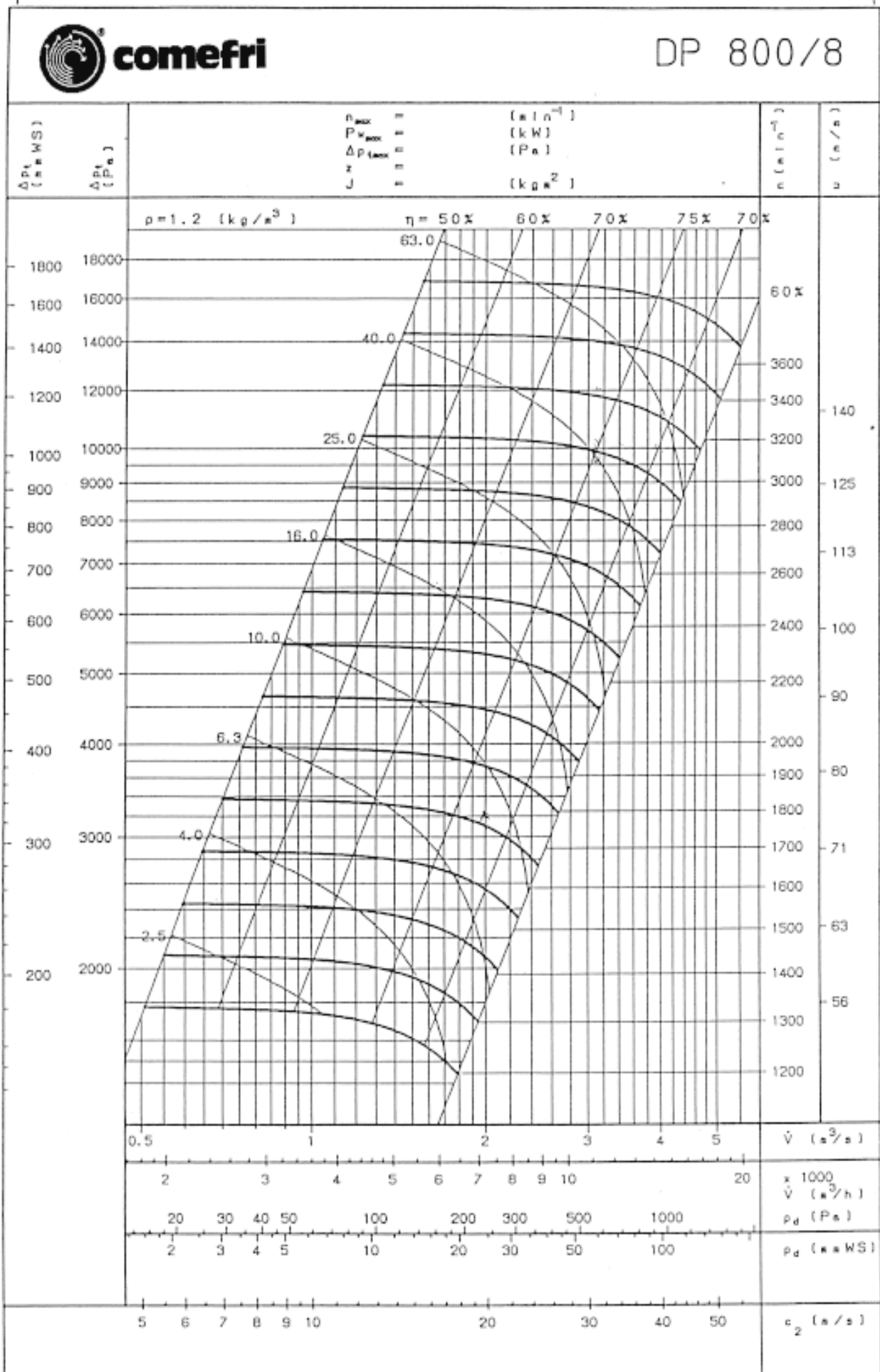


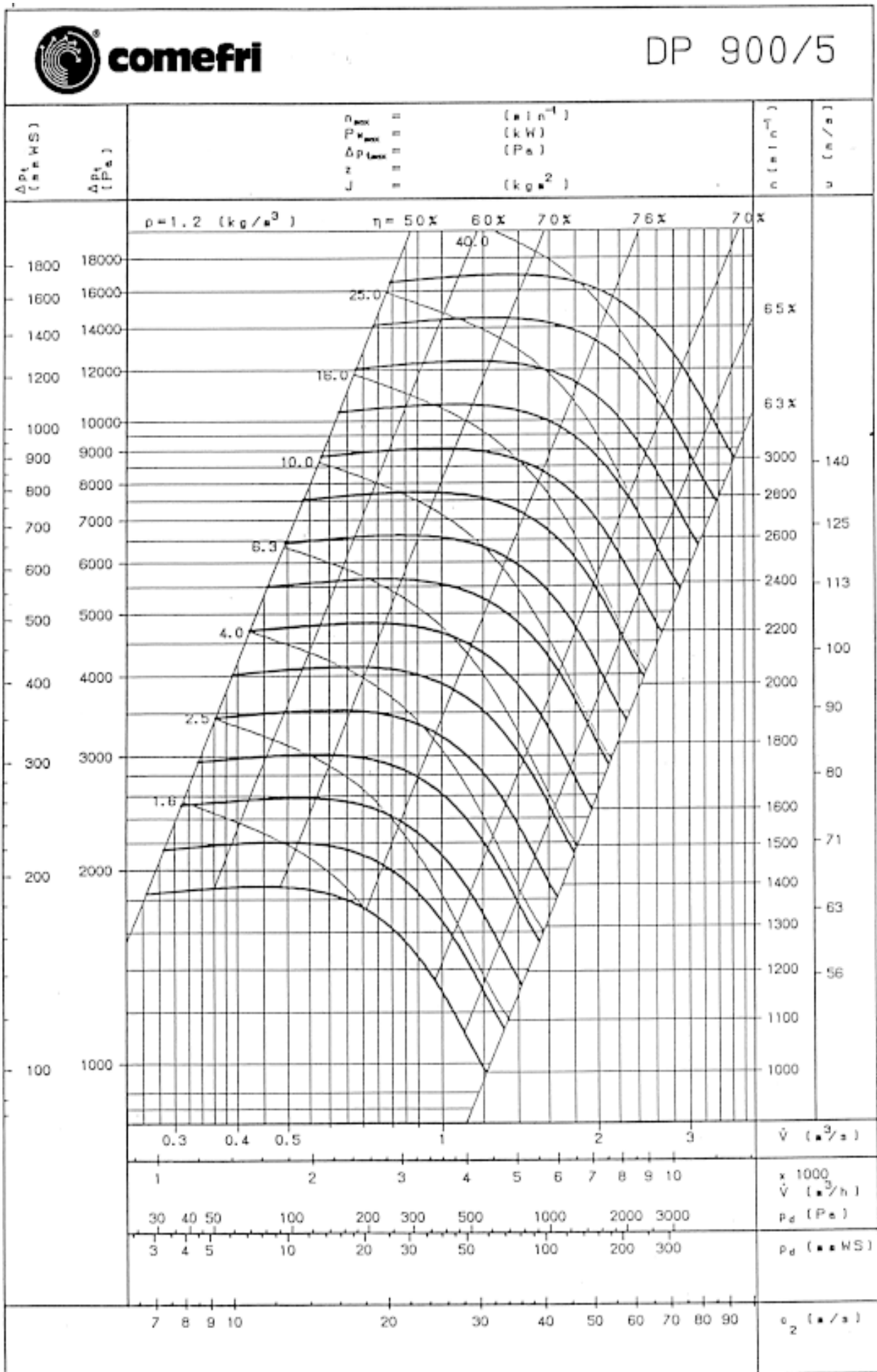


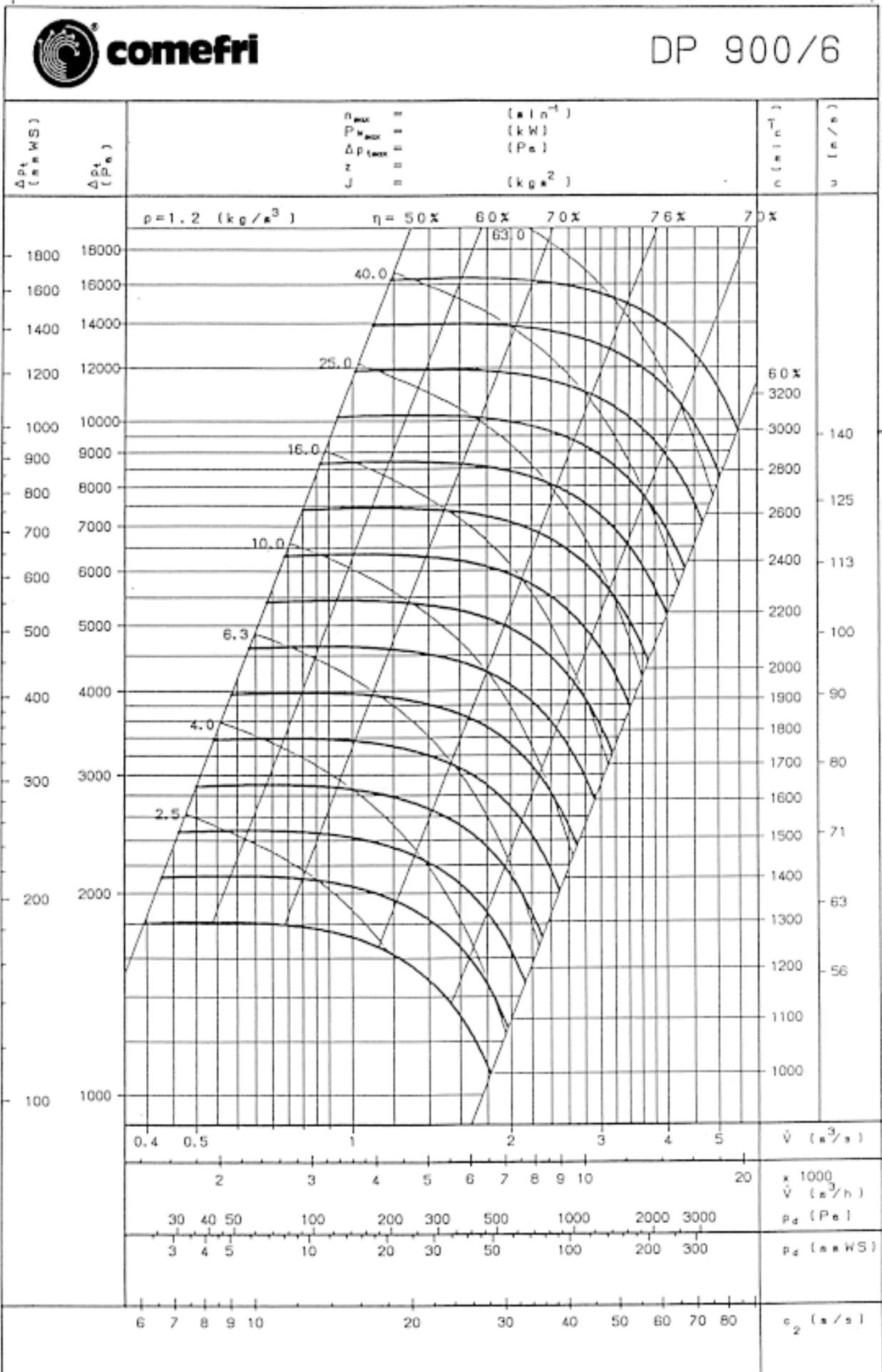


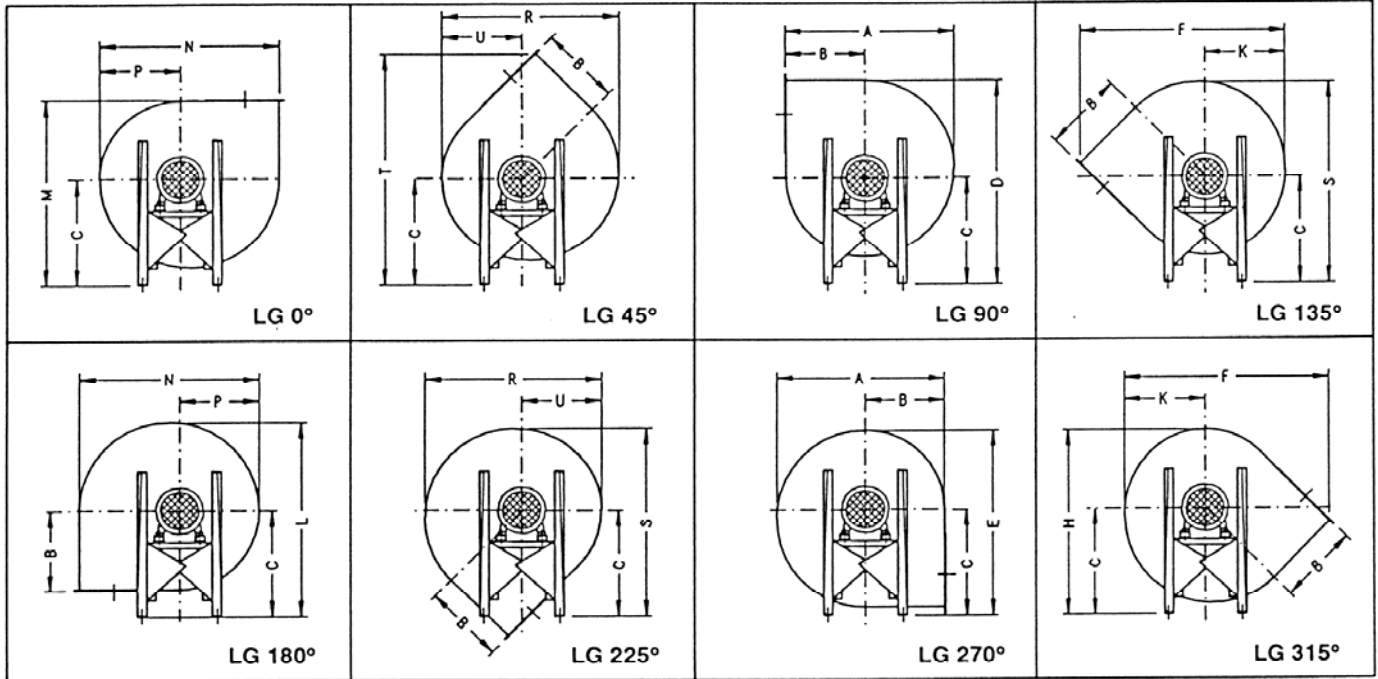




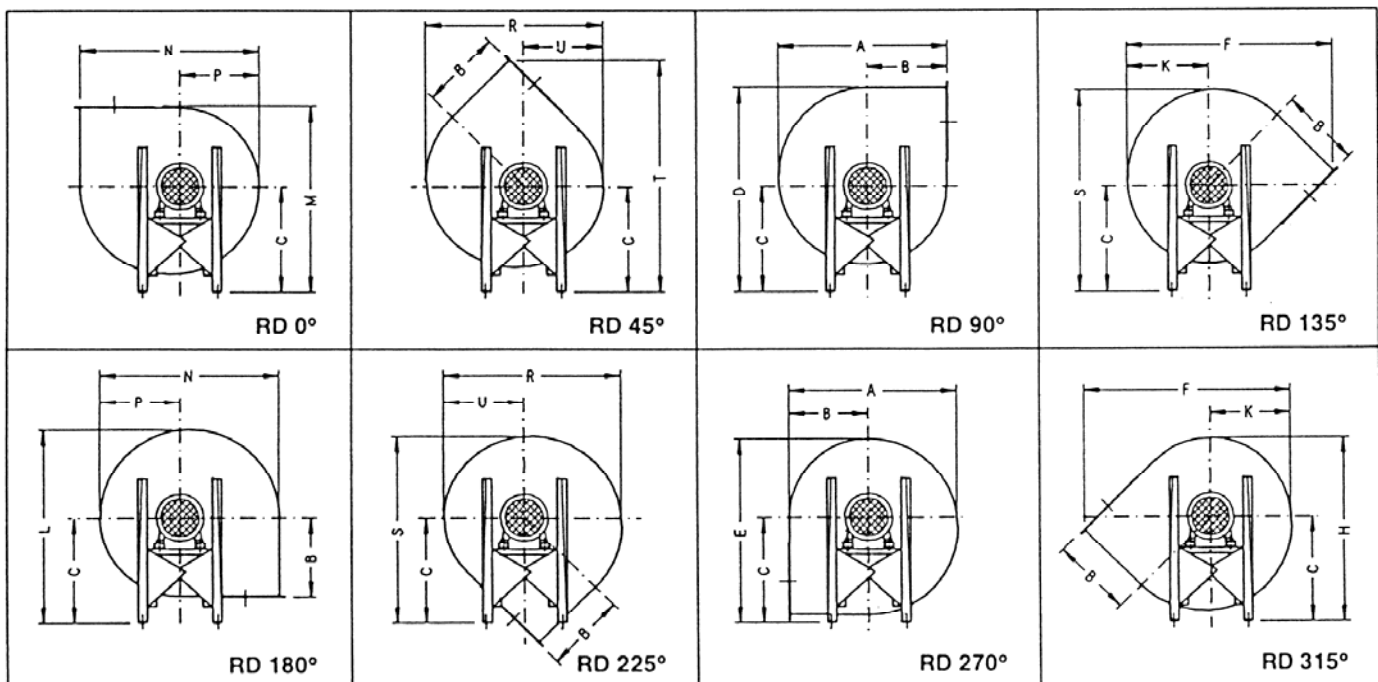






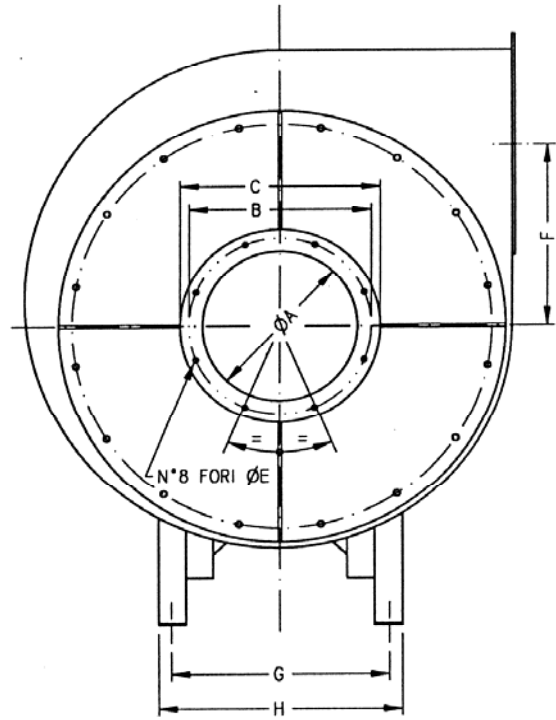
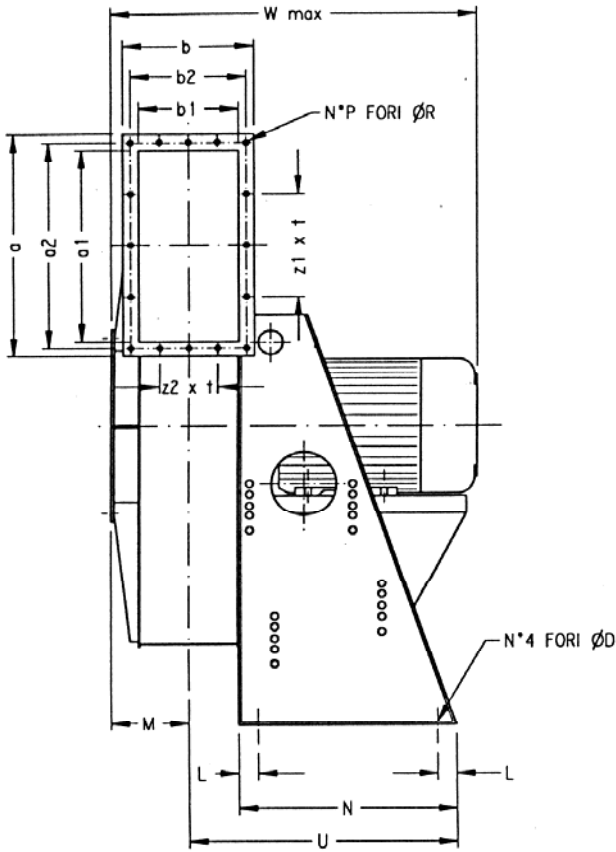


| | A | B | C | D | E | F | G | H | K | L | M | N | P | R | S | T | U |
|------------|------|-----|-----|------|------|------|------|------|-----|------|------|------|-----|------|------|------|-----|
| 450 | 637 | 299 | 466 | 840 | 767 | 788 | 829 | 767 | 311 | 804 | 771 | 695 | 301 | 663 | 778 | 944 | 301 |
| 500 | 706 | 332 | 466 | 882 | 800 | 874 | 868 | 799 | 344 | 841 | 804 | 749 | 333 | 736 | 811 | 996 | 333 |
| 560 | 790 | 371 | 565 | 1030 | 938 | 977 | 1015 | 938 | 385 | 984 | 942 | 837 | 373 | 938 | 950 | 1157 | 373 |
| 630 | 887 | 417 | 565 | 1087 | 984 | 1098 | 1071 | 984 | 432 | 1035 | 988 | 941 | 419 | 984 | 997 | 1230 | 419 |
| 710 | 1000 | 470 | 798 | 1386 | 1269 | 1235 | 1367 | 1269 | 486 | 1327 | 1274 | 1058 | 471 | 1040 | 1285 | 1546 | 471 |
| 800 | 1125 | 529 | 798 | 1460 | 1328 | 1390 | 1438 | 1328 | 547 | 1394 | 1333 | 1191 | 530 | 1170 | 1345 | 1640 | 530 |
| 900 | 1264 | 594 | 798 | 1542 | 1393 | 1562 | 1518 | 1393 | 615 | 1467 | 1398 | 1339 | 596 | 1315 | 1413 | 1745 | 595 |





DP 450 ÷ 900 / 2,3,4,5,6,8



| TIPO | GRANDEZZA MOTORE MASSIMA | A | B | C | D | E | F | G | H | L | M | N | P | R | U | W | a | b | a1 | b1 | a2 | b2 | z1 | z2 | t | J kgm² | PESO kg | |
|------|--------------------------|-----|-----|-----|-----|----|----|-----|-----|-----|----|-----|-----|----|----|-----|------|-----|-----|-----|-----|-----|-----|----|---|--------|---------|-----|
| 450 | /2 | 90 | 106 | 136 | 160 | 13 | 8 | 287 | 350 | 386 | 34 | 88 | 343 | 8 | 10 | 389 | 445 | 220 | 145 | 160 | 85 | 196 | 121 | 0 | 0 | 0 | 0.23 | 71 |
| | /3 | 100 | 140 | 182 | 214 | 13 | 8 | 277 | 350 | 386 | 34 | 104 | 343 | 8 | 10 | 394 | 540 | 240 | 155 | 180 | 95 | 216 | 131 | 0 | 0 | 0 | 0.27 | 78 |
| | /4 | 112 | 182 | 219 | 254 | 13 | 10 | 255 | 350 | 386 | 34 | 112 | 343 | 8 | 12 | 402 | 550 | 284 | 172 | 224 | 112 | 260 | 148 | 0 | 0 | 0 | 0.26 | 90 |
| | /5 | 112 | 223 | 265 | 298 | 13 | 10 | 227 | 350 | 386 | 34 | 127 | 343 | 10 | 12 | 416 | 585 | 340 | 200 | 280 | 140 | 316 | 176 | 1 | 0 | 125 | 0.33 | 93 |
| 500 | /2 | 100 | 106 | 136 | 160 | 13 | 8 | 328 | 350 | 386 | 34 | 88 | 343 | 8 | 10 | 389 | 515 | 220 | 145 | 160 | 85 | 196 | 121 | 0 | 0 | 0 | 0.33 | 90 |
| | /3 | 100 | 140 | 182 | 214 | 13 | 8 | 318 | 350 | 386 | 34 | 104 | 343 | 8 | 10 | 394 | 540 | 240 | 155 | 180 | 95 | 216 | 131 | 0 | 0 | 0 | 0.38 | 95 |
| | /4 | 112 | 182 | 219 | 254 | 13 | 10 | 296 | 350 | 386 | 34 | 112 | 343 | 8 | 12 | 402 | 560 | 284 | 172 | 224 | 112 | 260 | 148 | 0 | 0 | 0 | 0.38 | 100 |
| | /5 | 132 | 223 | 265 | 298 | 13 | 10 | 268 | 350 | 386 | 34 | 127 | 343 | 10 | 12 | 416 | 665 | 340 | 200 | 280 | 140 | 316 | 176 | 1 | 0 | 125 | 0.47 | 130 |
| 560 | /3 | 132 | 140 | 182 | 214 | 15 | 8 | 367 | 414 | 460 | 35 | 104 | 400 | 8 | 10 | 451 | 600 | 240 | 155 | 180 | 95 | 216 | 131 | 0 | 0 | 0 | 0.58 | 135 |
| | /4 | 132 | 182 | 219 | 254 | 15 | 10 | 345 | 414 | 460 | 35 | 112 | 400 | 8 | 12 | 459 | 615 | 284 | 172 | 224 | 112 | 260 | 148 | 0 | 0 | 0 | 0.58 | 150 |
| | /5 | 160 | 223 | 265 | 298 | 15 | 10 | 317 | 414 | 460 | 35 | 127 | 400 | 10 | 12 | 473 | 805 | 340 | 200 | 280 | 140 | 316 | 176 | 1 | 0 | 125 | 0.69 | 180 |
| | /6 | 160 | 282 | 332 | 365 | 15 | 10 | 277 | 414 | 460 | 35 | 147 | 400 | 10 | 12 | 493 | 845 | 430 | 250 | 360 | 180 | 396 | 216 | 1 | 0 | 125 | 0.68 | 175 |
| 630 | /3 | 132 | 140 | 182 | 214 | 15 | 8 | 423 | 414 | 460 | 35 | 104 | 400 | 8 | 10 | 451 | 600 | 240 | 155 | 180 | 95 | 216 | 131 | 0 | 0 | 0 | 0.89 | 160 |
| | /4 | 160 | 182 | 219 | 254 | 15 | 10 | 401 | 414 | 460 | 35 | 112 | 400 | 8 | 12 | 459 | 755 | 284 | 172 | 224 | 112 | 260 | 148 | 0 | 0 | 0 | 0.90 | 185 |
| | /5 | 160 | 223 | 265 | 298 | 15 | 10 | 373 | 414 | 460 | 35 | 127 | 400 | 10 | 12 | 473 | 780 | 340 | 200 | 280 | 140 | 316 | 176 | 1 | 0 | 125 | 1.04 | 200 |
| | /6 | 160 | 282 | 332 | 365 | 15 | 10 | 333 | 414 | 460 | 35 | 147 | 400 | 10 | 12 | 493 | 825 | 430 | 250 | 360 | 180 | 396 | 216 | 1 | 0 | 125 | 1.04 | 210 |
| 710 | /4 | 160 | 182 | 219 | 254 | 17 | 10 | 467 | 652 | 696 | 41 | 112 | 630 | 8 | 12 | 690 | 755 | 284 | 172 | 224 | 112 | 260 | 148 | 0 | 0 | 0 | 1.58 | 270 |
| | /5 | 200 | 223 | 265 | 298 | 17 | 10 | 439 | 652 | 696 | 41 | 127 | 630 | 10 | 12 | 704 | 860 | 340 | 200 | 280 | 140 | 316 | 176 | 1 | 0 | 125 | 1.79 | 330 |
| | /6 | 225 | 282 | 332 | 365 | 17 | 10 | 399 | 652 | 696 | 41 | 147 | 630 | 10 | 12 | 723 | 980 | 430 | 250 | 360 | 180 | 396 | 216 | 1 | 0 | 125 | 1.60 | 400 |
| | /8 | 250 | 362 | 405 | 440 | 17 | 10 | 355 | 652 | 696 | 41 | 169 | 630 | 16 | 12 | 745 | 1050 | 528 | 304 | 448 | 224 | 492 | 268 | 3 | 1 | 125 | 2.19 | 450 |
| 800 | /4 | 200 | 182 | 219 | 254 | 17 | 10 | 539 | 652 | 696 | 41 | 113 | 630 | 8 | 12 | 690 | 810 | 284 | 172 | 224 | 112 | 260 | 148 | 0 | 0 | 0 | 2.43 | 360 |
| | /5 | 225 | 223 | 265 | 298 | 17 | 10 | 511 | 652 | 696 | 41 | 128 | 630 | 10 | 12 | 704 | 940 | 340 | 200 | 280 | 140 | 316 | 176 | 1 | 0 | 125 | 2.77 | 440 |
| | /6 | 280 | 282 | 332 | 365 | 17 | 10 | 471 | 652 | 696 | 41 | 148 | 630 | 10 | 12 | 724 | 1110 | 430 | 250 | 360 | 180 | 396 | 216 | 1 | 0 | 125 | 3.31 | 475 |
| | /8 | 280 | 362 | 405 | 440 | 17 | 10 | 427 | 652 | 696 | 41 | 170 | 630 | 16 | 12 | 746 | 1150 | 528 | 304 | 448 | 224 | 492 | 268 | 3 | 1 | 125 | 3.30 | 580 |
| 900 | /5 | 280 | 223 | 265 | 298 | 17 | 10 | 594 | 652 | 696 | 41 | 128 | 630 | 10 | 12 | 704 | 1294 | 340 | 200 | 280 | 140 | 316 | 176 | 1 | 0 | 125 | 4.30 | 590 |
| | /6 | 280 | 282 | 332 | 365 | 17 | 10 | 553 | 652 | 696 | 41 | 148 | 630 | 10 | 12 | 724 | 1314 | 430 | 250 | 360 | 180 | 396 | 216 | 1 | 0 | 125 | 4.98 | 650 |

- PESO VENTILATORE IN kg (COMPLETO DI MOTORE)



SOUND PRESSURE LEVEL FOR FANS SERIES DP

The graphic allows to quickly determine the medium sound pressure level measured at 1,5 m in free field for the fans of the series "DP".

- 1) Trace a line through the volume Q and the total pressure Δp , till you reach the vertical line of the graphic (point A).
- 2) From the point A trace an horizontal line
- 3) The traced horizontal line will touch the vertical line on the point B, where you read the sound pressure level for the requested fan.

Example: Sound pressure level for a DP fan with Q 4 m³/s and total pressure of 7848 Pa. The sound pressure level at 1,5 m is approx 96 dB (A).

