

## MTRL



### MEDIUM PRESSURE WITH BACKWARD IMPELLER AND BELT TRANSMISSION

#### MANUFACTURING FEATURES:

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- Fan made of Fe360 sheet. The fan paint finish is based on a Qualicoat polyester powder coating stoved at 200°C, with an average film thickness of 70 microns. Average heat resistance of coating is 180°C with peaks of 200°C.
- Fully welded or joined housing.
- Single inlet backward curved impeller made of Fe360 sheet statically and dynamically balanced. Impellers are painted with epoxy primer that resists temperatures up to 300°C.
- Motorized fan with basement (configuration 12). Full equipped fans including: motor, pulleys, belts, belts guard and shaft guard. Fitted over a base plate.
- Standard orientation LG270.
- It allows adjusting the orientation locally from models 250 to 630. Models sizes from 710 to 2000 size the orientation is fixed.

#### APPLICATIONS:

Designed for inline installation, they are suitable for:

- Industrial applications, extraction or injection of air.
- Cooling of machines and parts.
- Clean air and pneumatic transport.
- Exhaust after filters, separators and cyclones.
- Clean air or slightly dusty air transport.
- Maximum working temperature: carried air: 200°C, ambient: 60°C.

#### UNDER REQUEST:

- 60Hz fans and special voltages.
- 2 speed motors.
- Fan with free shaft (configuration 1) or with motor supported on the pedestal side (configuration 9).
- Flameproof or explosionproof fans with ATEX certificated motors.
- Fan for air working temperatures up to 350°C with R/R (cooling impeller).
- Hot dip galvanised or stainless steel fans.
- Orientación: RD0, RD45, RD90, RD135, RD180, RD225, RD270, RD315, LG0, LG45, LG90, LG135, LG180, LG225, LG315.

## Accessories



AC



BAD



EI



INT



JE-45



RA



RI

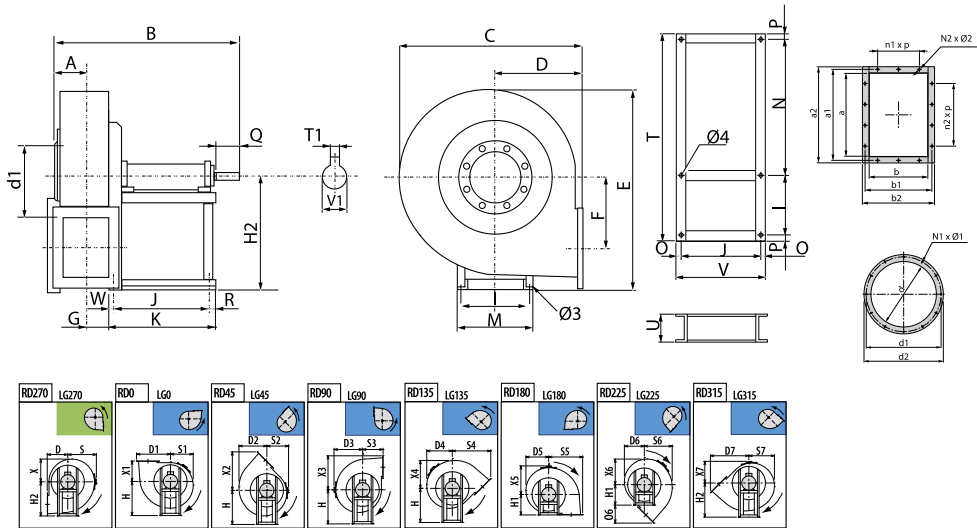
## Technical data

### Three-phase motor

| Code         | Model     | R.P.M. | Rated I. (A) 400V | Rated power kW | Max. Airflow m3/h | Sound db (A)* | Weight | Connect. diagram |
|--------------|-----------|--------|-------------------|----------------|-------------------|---------------|--------|------------------|
| 5046025__R__ | MTRL 250  | 3500   | -                 | 3              | 2.950             | 44            | 32     | 1                |
| 5046028__R__ | MTRL 280  | 3500   | -                 | 3              | 3.790             | -             | 46     | 1                |
| 5046031__R__ | MTRL 310  | 3500   | -                 | 4              | 6.120             | 44            | 50     | 1                |
| 5046035__R__ | MTRL 350  | 3500   | -                 | 4              | 7.960             | 45            | 76     | 1                |
| 5046040__R__ | MTRL 400  | 3500   | -                 | 11             | 12.660            | 47            | 92     | 1                |
| 5046045__R__ | MTRL 450  | 1000   | -                 | 15             | 16.740            | 49            | 105    | 1                |
| 5046050__R__ | MTRL 500  | 1000   | -                 | 15             | 19.180            | 49            | 145    | 1                |
| 5046056__R__ | MTRL 560  | 1000   | -                 | 22             | 25.560            | 50            | 196    | 1                |
| 5046063__R__ | MTRL 630  | 1000   | -                 | 22             | 32.770            | 51            | 239    | 1                |
| 5046071__R__ | MTRL 710  | 1000   | -                 | 37             | 43.820            | 51            | 360    | 1                |
| 5046080__R__ | MTRL 800  | 1000   | -                 | 45             | 52.910            | 52            | 442    | 1                |
| 5046090__R__ | MTRL 900  | 1000   | -                 | 55             | 66.720            | 53            | 570    | 1                |
| 5046100__R__ | MTRL 1000 | 1000   | -                 | 55             | 74.170            | 55            | 800    | 1                |
| 5046112__R__ | MTRL 1120 | 1000   | -                 | 90             | 105.580           | 53            | 1.065  | 1                |
| 5046125__R__ | MTRL 1250 | 1000   | -                 | 90             | 122.400           | 53            | 1.258  | 1                |
| 5046140__R__ | MTRL 1400 | 1000   | -                 | 132            | 158.510           | 56            | 1.712  | 1                |
| 5046160__R__ | MTRL 1600 | 950    | -                 | 160            | 199.990           | 56            | 2.363  | 1                |
| 5046180__R__ | MTRL 1800 | 800    | -                 | 200            | 250.730           | 55            | 2.912  | 1                |
| 5046200__R__ | MTRL 2000 | 800    | -                 | 315            | 344.310           | 58            | 3.413  | 1                |

**Notes:**  
 \* Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

## Dimensions



| Model    | A   | B    | C   | D   | D1  | D2  | D3  | D4  | D5  |
|----------|-----|------|-----|-----|-----|-----|-----|-----|-----|
| MTRL 250 | 94  | 530  | 471 | 195 | 313 | 255 | 276 | 235 | 212 |
| MTRL 280 | 105 | 620  | 505 | 200 | 356 | 287 | 305 | 262 | 230 |
| MTRL 310 | 117 | 644  | 557 | 225 | 397 | 316 | 332 | 288 | 256 |
| MTRL 350 | 130 | 816  | 630 | 255 | 437 | 359 | 375 | 325 | 289 |
| MTRL 400 | 147 | 869  | 685 | 285 | 487 | 387 | 400 | 353 | 311 |
| MTRL 450 | 163 | 902  | 765 | 320 | 542 | 435 | 445 | 398 | 354 |
| MTRL 500 | 183 | 1047 | 862 | 360 | 597 | 490 | 502 | 450 | 401 |

| Model    | D6  | D7  | E    | F   | G   | H   | H1  | H2  | I   |
|----------|-----|-----|------|-----|-----|-----|-----|-----|-----|
| MTRL 250 | 215 | 359 | 527  | 149 | 96  | 315 | 195 | 315 | 228 |
| MTRL 280 | 226 | 393 | 605  | 172 | 105 | 375 | 200 | 375 | 288 |
| MTRL 310 | 253 | 440 | 656  | 196 | 117 | 400 | 225 | 400 | 288 |
| MTRL 350 | 278 | 492 | 739  | 216 | 131 | 450 | 255 | 450 | 355 |
| MTRL 400 | 306 | 543 | 811  | 245 | 147 | 500 | 285 | 500 | 355 |
| MTRL 450 | 342 | 609 | 914  | 275 | 165 | 560 | 320 | 560 | 355 |
| MTRL 500 | 380 | 676 | 1001 | 303 | 185 | 600 | 360 | 600 | 364 |

| Model    | J   | K   | M   | N1xØ1 | N2xØ2 | O  | O6  | P    | Q  |
|----------|-----|-----|-----|-------|-------|----|-----|------|----|
| MTRL 250 | 210 | 282 | 255 | 8x10  | 10x12 | 17 | 164 | 13,5 | 40 |
| MTRL 280 | 284 | 347 | 324 | 8x12  | 10x12 | 23 | 193 | 18   | 50 |
| MTRL 310 | 284 | 347 | 324 | 8x12  | 10x12 | 23 | 215 | 18   | 50 |
| MTRL 350 | 407 | 485 | 400 | 8x12  | 10x12 | 28 | 237 | 13   | 60 |
| MTRL 400 | 407 | 485 | 400 | 12x12 | 14x12 | 28 | 258 | 23   | 80 |
| MTRL 450 | 407 | 485 | 400 | 12x12 | 14x12 | 28 | 289 | 23   | -  |

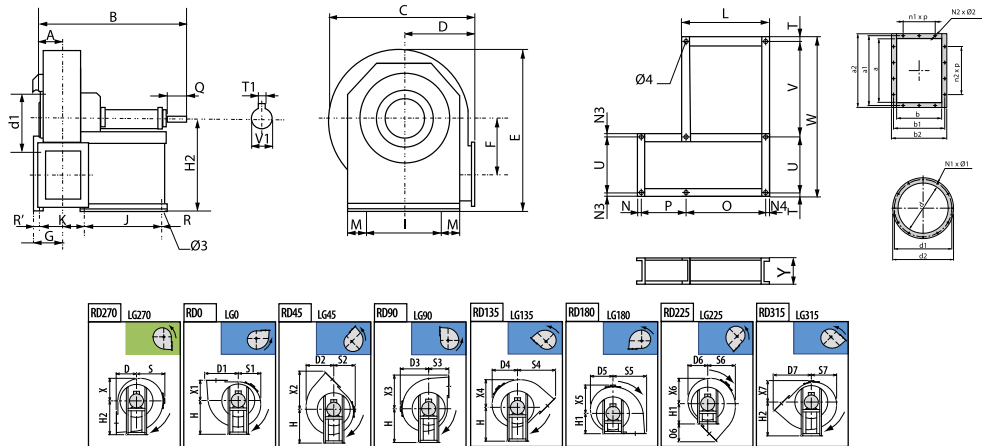
| Model    | J   | K   | M   | N1xØ1 | N2xØ2 | O  | O6  | P  | Q   |
|----------|-----|-----|-----|-------|-------|----|-----|----|-----|
| MTRL 500 | 477 | 560 | 418 | 12x14 | 14x12 | 33 | 316 | 27 | 110 |

| Model    | R  | S   | S1  | S2  | S3  | S4  | S5  | S6  | S7  |
|----------|----|-----|-----|-----|-----|-----|-----|-----|-----|
| MTRL 250 | -  | 276 | 212 | 215 | 195 | 359 | 313 | 255 | 235 |
| MTRL 280 | -  | 305 | 230 | 226 | 200 | 393 | 356 | 287 | 262 |
| MTRL 310 | -  | 332 | 256 | 253 | 225 | 440 | 397 | 316 | 288 |
| MTRL 350 | -  | 375 | 289 | 278 | 255 | 492 | 437 | 359 | 325 |
| MTRL 400 | -  | 400 | 311 | 306 | 285 | 543 | 487 | 387 | 353 |
| MTRL 450 | -  | 445 | 354 | 342 | 320 | 609 | 542 | 435 | 398 |
| MTRL 500 | 33 | 502 | 401 | 380 | 360 | 676 | 597 | 490 | 450 |

| Model    | T  | T1 | U   | V  | V1 | W  | X   | X1  | X2  |
|----------|----|----|-----|----|----|----|-----|-----|-----|
| MTRL 250 | 6  | 6  | 80  | 19 | 19 | 55 | 212 | 195 | 359 |
| MTRL 280 | 8  | 8  | 100 | 24 | 24 | 40 | 230 | 200 | 393 |
| MTRL 310 | 8  | 8  | 100 | 24 | 24 | 40 | 256 | 255 | 440 |
| MTRL 350 | 8  | 8  | 120 | 28 | 28 | 50 | 289 | 255 | 492 |
| MTRL 400 | 10 | 10 | 120 | 38 | 38 | 50 | 311 | 285 | 543 |
| MTRL 450 | 10 | 10 | 120 | 38 | 38 | 50 | 354 | 320 | 609 |
| MTRL 500 | 12 | 12 | 140 | 42 | 42 | 50 | 401 | 360 | 676 |

| Model    | X3  | X4  | X5  | X6  | X7  | a   | a1  | a2  | b   |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MTRL 250 | 313 | 255 | 276 | 235 | 215 | 258 | 292 | 328 | 185 |
| MTRL 280 | 356 | 287 | 305 | 262 | 226 | 288 | 332 | 368 | 205 |
| MTRL 310 | 397 | 316 | 332 | 288 | 253 | 322 | 366 | 402 | 229 |
| MTRL 350 | 437 | 359 | 375 | 325 | 278 | 361 | 405 | 441 | 256 |
| MTRL 400 | 487 | 387 | 400 | 353 | 306 | 404 | 448 | 484 | 288 |
| MTRL 450 | 542 | 435 | 445 | 398 | 342 | 453 | 497 | 533 | 322 |
| MTRL 500 | 597 | 490 | 502 | 450 | 380 | 507 | 551 | 587 | 361 |

| Model    | b1  | b2  | d   | d1  | d2  | n1xp  | n2xp  | Ø3 | Ø4 |
|----------|-----|-----|-----|-----|-----|-------|-------|----|----|
| MTRL 250 | 219 | 255 | 255 | 292 | 325 | 1x112 | 2x112 | 10 | 12 |
| MTRL 280 | 249 | 285 | 285 | 332 | 365 | 1x125 | 2x125 | 12 | 15 |
| MTRL 310 | 273 | 309 | 320 | 366 | 400 | 1x125 | 2x125 | 12 | 15 |
| MTRL 350 | 300 | 336 | 360 | 405 | 440 | 1x125 | 2x125 | 14 | 15 |
| MTRL 400 | 332 | 368 | 405 | 448 | 485 | 2x125 | 3x125 | 14 | 15 |
| MTRL 450 | 366 | 402 | 455 | 497 | 535 | 2x125 | 3x125 | 14 | 15 |
| MTRL 500 | 405 | 441 | 505 | 551 | 585 | 2x125 | 3x125 | 17 | 18 |



| Model    | A   | B    | C    | D   | D1  | D2  | D3  | D4  | D5  |
|----------|-----|------|------|-----|-----|-----|-----|-----|-----|
| MTRL 560 | 205 | 1177 | 970  | 400 | 667 | 555 | 570 | 542 | 485 |
| MTRL 630 | 230 | 1233 | 1080 | 450 | 742 | 619 | 630 | 603 | 540 |

| Model    | D6  | D7  | E    | F   | G   | H   | H1  | H2  | I   |
|----------|-----|-----|------|-----|-----|-----|-----|-----|-----|
| MTRL 560 | 425 | 754 | 1155 | 332 | 255 | 670 | 400 | 670 | 632 |
| MTRL 630 | 476 | 843 | 1290 | 373 | 280 | 750 | 450 | 750 | 702 |

| Model    | J   | K   | L   | M  | N  | N1 | N1xØ1 | N2xØ2 | N3 |
|----------|-----|-----|-----|----|----|----|-------|-------|----|
| MTRL 560 | 477 | 488 | 543 | 30 | 23 | 33 | 12x14 | 14x14 | 30 |
| MTRL 630 | 477 | 537 | 543 | 30 | 23 | 33 | 12x14 | 14x14 | 30 |

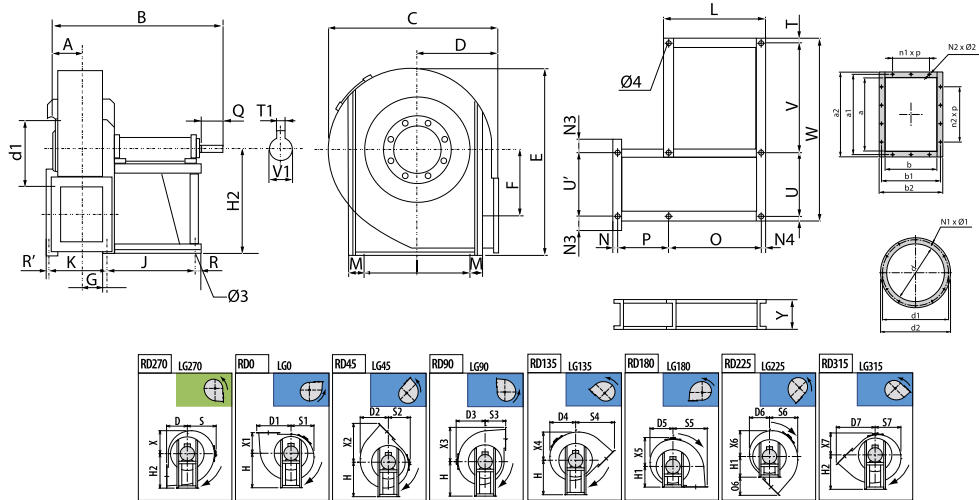
| Model    | N4 | O   | O6  | P   | Q   | R  | S   | S1  | S2  |
|----------|----|-----|-----|-----|-----|----|-----|-----|-----|
| MTRL 560 | 33 | 477 | 354 | 488 | 110 | 33 | 570 | 485 | 425 |
| MTRL 630 | 33 | 477 | 393 | 537 | 110 | 33 | 630 | 540 | 476 |

| Model    | S3  | S4  | S5  | S6  | S7  | T  | T1 | U   | V   |
|----------|-----|-----|-----|-----|-----|----|----|-----|-----|
| MTRL 560 | 400 | 754 | 667 | 555 | 542 | 14 | 14 | 632 | 678 |
| MTRL 630 | 450 | 843 | 742 | 619 | 603 | 30 | 14 | 702 | 708 |

| Model    | V1 | W    | X   | X1  | X2  | X3  | X4  | X5  | X6  |
|----------|----|------|-----|-----|-----|-----|-----|-----|-----|
| MTRL 560 | 48 | 1370 | 485 | 400 | 754 | 667 | 555 | 570 | 542 |
| MTRL 630 | 48 | 1470 | 540 | 450 | 843 | 742 | 619 | 630 | 603 |

| Model    | X7  | Y   | a   | a1  | a2  | b   | b1  | b2  | d   |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MTRL 560 | 425 | 160 | 569 | 629 | 669 | 404 | 464 | 504 | 565 |
| MTRL 630 | 476 | 160 | 638 | 698 | 738 | 453 | 513 | 553 | 635 |

| Model    | d1  | d2  | n1xp  | n2xp  | Ø3 | Ø4 |
|----------|-----|-----|-------|-------|----|----|
| MTRL 560 | 629 | 665 | 2x160 | 3x160 | 17 | 18 |
| MTRL 630 | 698 | 735 | 2x160 | 3x160 | 17 | 18 |



| Model     | A   | B    | C    | D    | D1   | D2   | D3   | D4   | D5   |
|-----------|-----|------|------|------|------|------|------|------|------|
| MTRL 710  | 257 | 1340 | 1190 | 500  | 835  | 719  | 690  | 662  | 586  |
| MTRL 800  | 287 | 1422 | 1342 | 560  | 939  | 811  | 782  | 749  | 652  |
| MTRL 900  | 322 | 1491 | 1500 | 630  | 1047 | 905  | 870  | 835  | 723  |
| MTRL 1000 | 360 | 1710 | 1686 | 710  | 1171 | 1015 | 976  | 936  | 815  |
| MTRL 1120 | 404 | 1941 | 1884 | 800  | 1319 | 1132 | 1084 | 1037 | 932  |
| MTRL 1250 | 452 | 2038 | 2114 | 900  | 1474 | 1270 | 1214 | 1163 | 1048 |
| MTRL 1400 | 507 | 2252 | 2325 | 1000 | 1635 | 1395 | 1325 | 1272 | 1136 |
| MTRL 1600 | 569 | 2590 | 2620 | 1120 | 1834 | 1572 | 1500 | 1434 | 1272 |
| MTRL 1800 | 636 | 2750 | 2760 | 1250 | 2039 | 1790 | 1710 | 1640 | 1470 |
| MTRL 2000 | 713 | 2905 | 3300 | 1400 | 2277 | 1980 | 1900 | 1811 | 1636 |

| Model     | D6   | D7   | E    | F    | G   | H    | H1   | H2   | I    |
|-----------|------|------|------|------|-----|------|------|------|------|
| MTRL 710  | 497  | 944  | 1436 | 427  | 314 | 850  | 500  | 670  | 772  |
| MTRL 800  | 562  | 1061 | 1602 | 478  | 345 | 950  | 630  | 755  | 862  |
| MTRL 900  | 633  | 1186 | 1783 | 538  | 399 | 850  | 630  | 850  | 962  |
| MTRL 1000 | 718  | 1330 | 1995 | 607  | 458 | 950  | 710  | 950  | 1056 |
| MTRL 1120 | 793  | 1498 | 2252 | 684  | 501 | 1060 | 800  | 1060 | 1178 |
| MTRL 1250 | 898  | 1679 | 2548 | 770  | 549 | 1190 | 900  | 1190 | 1310 |
| MTRL 1400 | 990  | 1863 | 2836 | 854  | 634 | 1320 | 1000 | 1320 | 1450 |
| MTRL 1600 | 1085 | 2090 | 3172 | 957  | 695 | 1500 | 1120 | 1500 | 1640 |
| MTRL 1800 | 1300 | 2326 | 3590 | 1066 | 764 | 1650 | 1250 | 1650 | 1830 |

| Model     | D6   | D7   | E    | F    | G   | H    | H1   | H2   | I    |
|-----------|------|------|------|------|-----|------|------|------|------|
| MTRL 2000 | 1455 | 2600 | 3996 | 1195 | 861 | 1850 | 1400 | 1850 | 2030 |

| Model     | J   | K    | L    | M  | N  | N1 | N1xØ1 | N2xØ2 | N3  |
|-----------|-----|------|------|----|----|----|-------|-------|-----|
| MTRL 710  | 551 | 600  | 629  | 27 | 27 | 39 | 16x14 | 16x14 | 71  |
| MTRL 800  | 551 | 662  | 629  | 32 | 47 | 39 | 16x14 | 14x14 | 91  |
| MTRL 900  | 551 | 731  | 629  | 32 | 47 | 39 | 16x14 | 18x14 | 91  |
| MTRL 1000 | 607 | 803  | 697  | 36 | 67 | 45 | 24x14 | 18x14 | 92  |
| MTRL 1120 | 760 | 926  | 850  | 45 | 55 | 45 | 24x14 | 20x18 | 111 |
| MTRL 1250 | 760 | 1023 | 850  | 45 | 55 | 45 | 24x17 | 24x18 | 110 |
| MTRL 1400 | 780 | 1152 | 890  | 55 | 85 | 55 | 32x17 | 24x18 | 120 |
| MTRL 1600 | 917 | 1305 | 1047 | 60 | 75 | 65 | 32x17 | 28x22 | 120 |
| MTRL 1800 | 917 | 1452 | 1047 | 60 | 65 | 65 | 32x18 | 32x22 | 130 |
| MTRL 2000 | 917 | 1606 | 1047 | 60 | 85 | 65 | 32x18 | 34x22 | 170 |

| Model     | N4 | O   | O6   | P    | Q   | R  | R' | S    | S1   |
|-----------|----|-----|------|------|-----|----|----|------|------|
| MTRL 710  | 39 | 551 | 444  | 600  | 110 | 39 | 27 | 690  | 586  |
| MTRL 800  | 39 | 551 | 501  | 662  | 110 | 39 | 47 | 782  | 652  |
| MTRL 900  | 39 | 551 | 556  | 731  | 110 | 39 | 47 | 870  | 723  |
| MTRL 1000 | 45 | 607 | 620  | 803  | 140 | 45 | 67 | 976  | 815  |
| MTRL 1120 | 45 | 760 | 398  | 926  | 140 | 45 | 55 | 1084 | 932  |
| MTRL 1250 | 45 | 760 | 779  | 1023 | 140 | 45 | 55 | 1214 | 1048 |
| MTRL 1400 | 55 | 780 | 863  | 1152 | 170 | 55 | 85 | 1325 | 1136 |
| MTRL 1600 | 65 | 917 | 970  | 1305 | 210 | 65 | 75 | 1500 | 1272 |
| MTRL 1800 | 65 | 917 | 1076 | 1452 | 210 | 65 | 65 | 1710 | 1470 |
| MTRL 2000 | 65 | 917 | 1200 | 1606 | 210 | 65 | 85 | 1900 | 1636 |

| Model     | S2   | S3   | S4   | S5   | S6   | S7   | T  | T1 | U    |
|-----------|------|------|------|------|------|------|----|----|------|
| MTRL 710  | 497  | 500  | 944  | 835  | 719  | 662  | 27 | 14 | 772  |
| MTRL 800  | 562  | 560  | 1061 | 939  | 811  | 749  | 32 | 16 | 862  |
| MTRL 900  | 633  | 630  | 1186 | 1047 | 905  | 835  | 32 | 16 | 962  |
| MTRL 1000 | 718  | 710  | 1330 | 1171 | 1015 | 936  | 36 | 18 | 1056 |
| MTRL 1120 | 793  | 800  | 1498 | 1319 | 1132 | 1037 | 45 | 20 | 1178 |
| MTRL 1250 | 898  | 900  | 1679 | 1474 | 1270 | 1163 | 45 | 20 | 1310 |
| MTRL 1400 | 990  | 1000 | 1863 | 1635 | 1395 | 1272 | 55 | 22 | 1450 |
| MTRL 1600 | 1085 | 1120 | 2090 | 1834 | 1572 | 1434 | 60 | 25 | 1640 |
| MTRL 1800 | 1300 | 1250 | 2326 | 2039 | 1790 | 1640 | 60 | 28 | 1830 |
| MTRL 2000 | 1455 | 1400 | 2600 | 2277 | 1980 | 1811 | 60 | 28 | 2030 |

| Model    | U'  | V   | V1 | W    | X   | X1  | X2  | X3  | X4  |
|----------|-----|-----|----|------|-----|-----|-----|-----|-----|
| MTRL 710 | 772 | 807 | 48 | 1633 | 586 | 500 | 944 | 835 | 719 |

| Model     | U'   | V    | V1  | W    | X    | X1   | X2   | X3   | X4   |
|-----------|------|------|-----|------|------|------|------|------|------|
| MTRL 800  | 862  | 842  | 55  | 1768 | 652  | 560  | 1061 | 939  | 811  |
| MTRL 900  | 962  | 987  | 55  | 2013 | 723  | 630  | 1186 | 1047 | 905  |
| MTRL 1000 | 1056 | 1036 | 65  | 2164 | 815  | 710  | 1330 | 1171 | 1015 |
| MTRL 1120 | 1178 | 1066 | 75  | 2334 | 932  | 800  | 1498 | 1319 | 1132 |
| MTRL 1250 | 1310 | 1230 | 75  | 2630 | 1048 | 900  | 1679 | 1474 | 1270 |
| MTRL 1400 | 1450 | 1240 | 80  | 2800 | 1136 | 1000 | 1863 | 1635 | 1395 |
| MTRL 1600 | 1640 | 1205 | 90  | 2965 | 1272 | 1120 | 2090 | 1834 | 1572 |
| MTRL 1800 | 1830 | 1295 | 100 | 3245 | 1470 | 1250 | 2326 | 2039 | 1790 |
| MTRL 2000 | 2030 | 1350 | 100 | 3500 | 1636 | 1400 | 2600 | 2277 | 1980 |

| Model     | X5   | X6   | X7   | Y   | a    | a1   | a2   | b    | b1   |
|-----------|------|------|------|-----|------|------|------|------|------|
| MTRL 710  | 690  | 662  | 497  | 180 | 715  | 775  | 815  | 507  | 567  |
| MTRL 800  | 782  | 749  | 562  | 180 | 801  | 871  | 921  | 569  | 639  |
| MTRL 900  | 870  | 835  | 633  | 180 | 898  | 968  | 1018 | 638  | 708  |
| MTRL 1000 | 976  | 936  | 718  | 200 | 1007 | 1077 | 1127 | 715  | 785  |
| MTRL 1120 | 1084 | 1037 | 793  | 220 | 1130 | 1210 | 1270 | 801  | 881  |
| MTRL 1250 | 1214 | 1163 | 898  | 220 | 1267 | 1347 | 1407 | 898  | 978  |
| MTRL 1400 | 1325 | 1272 | 990  | 220 | 1421 | 1501 | 1561 | 1007 | 1087 |
| MTRL 1600 | 1500 | 1434 | 1085 | 220 | 1593 | 1683 | 1753 | 1130 | 1220 |
| MTRL 1800 | 1710 | 1640 | 1300 | 250 | 1786 | 1876 | 1946 | 1267 | 1357 |
| MTRL 2000 | 1900 | 1811 | 1455 | 250 | 2003 | 2093 | 2163 | 1421 | 1511 |

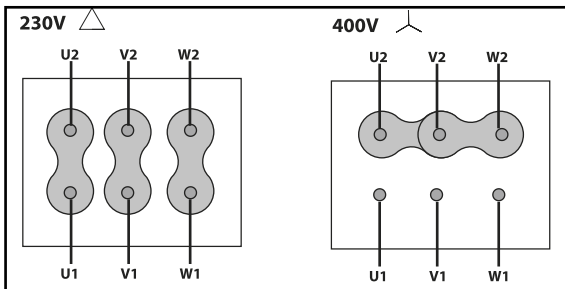
| Model     | b2   | d    | d1   | d2   | n1xp  | n2xp  | Ø3 | Ø4 |
|-----------|------|------|------|------|-------|-------|----|----|
| MTRL 710  | 607  | 715  | 775  | 815  | 2x160 | 4x160 | 19 | 20 |
| MTRL 800  | 689  | 805  | 861  | 905  | 2x200 | 3x200 | 19 | 20 |
| MTRL 900  | 758  | 905  | 958  | 1005 | 3x200 | 4x200 | 19 | 20 |
| MTRL 1000 | 835  | 1007 | 1067 | 1107 | 3x200 | 4x200 | 19 | 20 |
| MTRL 1120 | 941  | 1130 | 1200 | 1250 | 3x200 | 5x200 | 24 | 25 |
| MTRL 1250 | 1038 | 1260 | 1337 | 1380 | 4x200 | 6x200 | 24 | 25 |
| MTRL 1400 | 1147 | 1420 | 1491 | 1540 | 4x200 | 6x200 | 24 | 25 |
| MTRL 1600 | 1290 | 1610 | 1663 | 1730 | 5x200 | 7x200 | 28 | 30 |
| MTRL 1800 | 1427 | 1810 | 1856 | 1930 | 6x200 | 8x200 | 28 | 30 |
| MTRL 2000 | 1581 | 2010 | 2073 | 2130 | 6x200 | 9x200 | 28 | 30 |



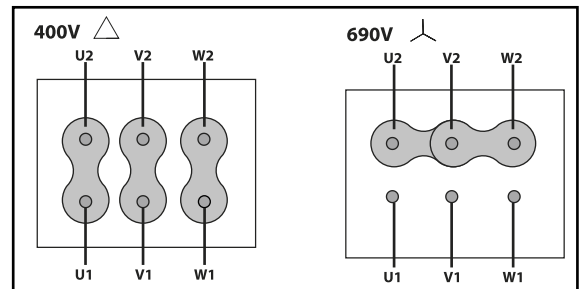
# Wiring diagram

DIAGRAM Nº 1

230/400V



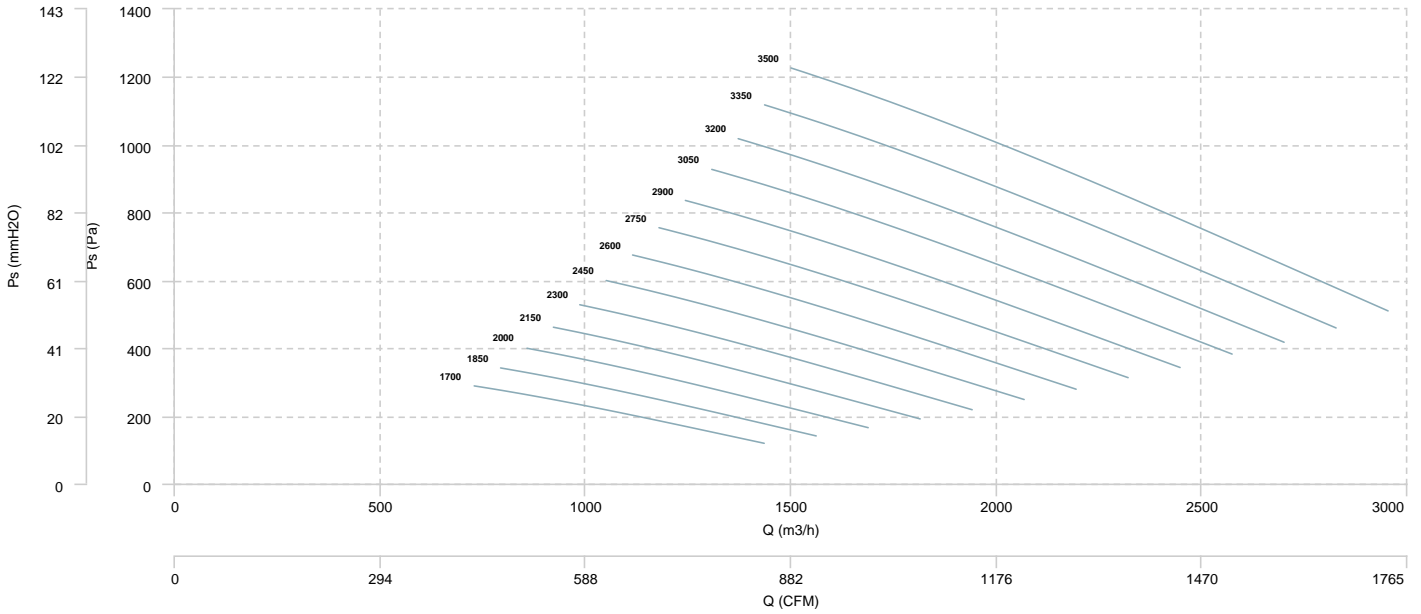
400/690V



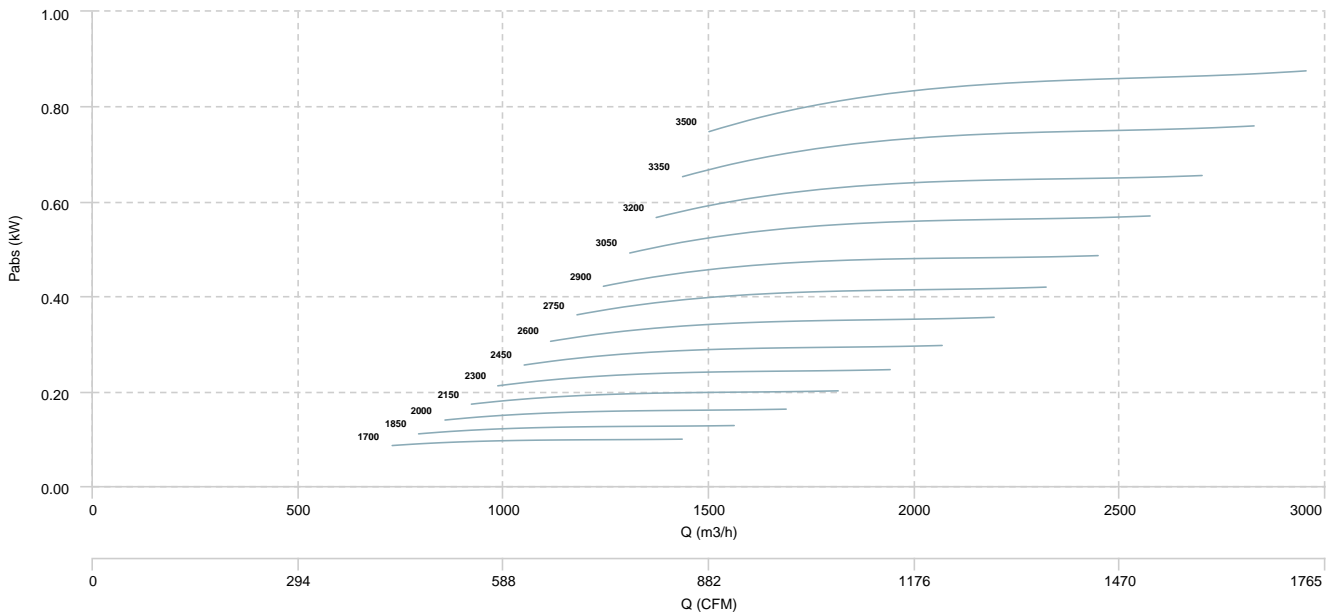
# CHARACTERISTIC CURVE

MTRL 250

## AIR FLOW - PRESSURE

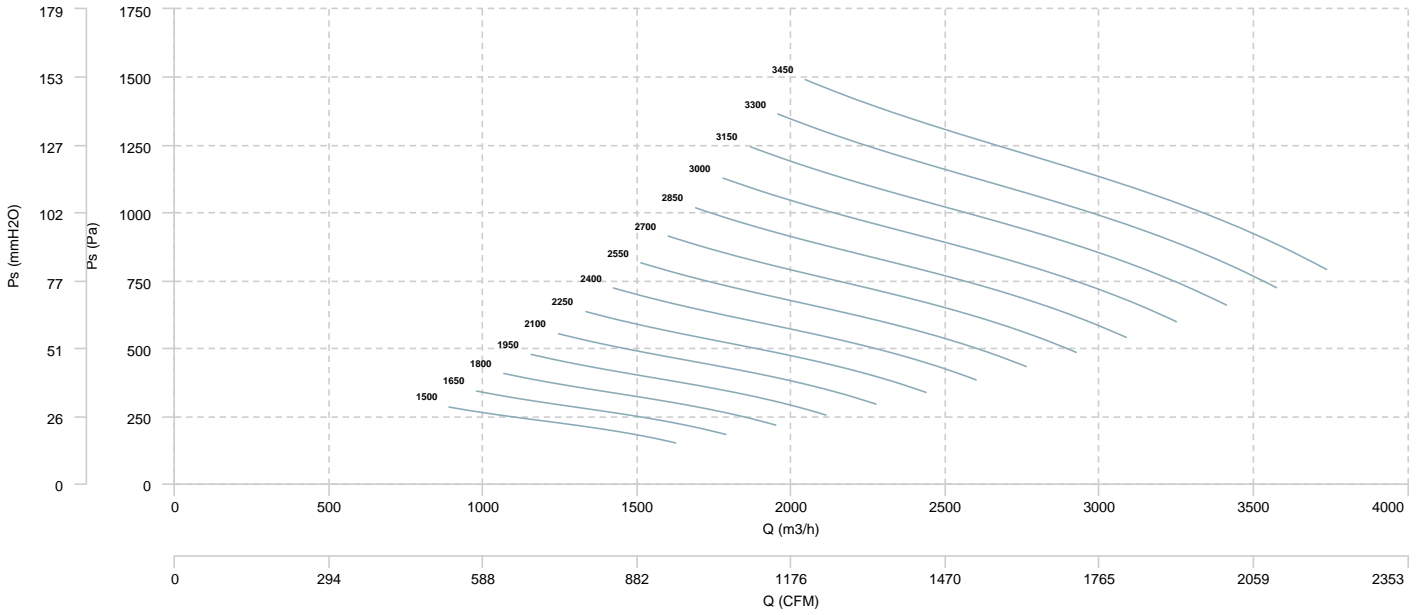


## AIR FLOW - MECHANICAL POWER

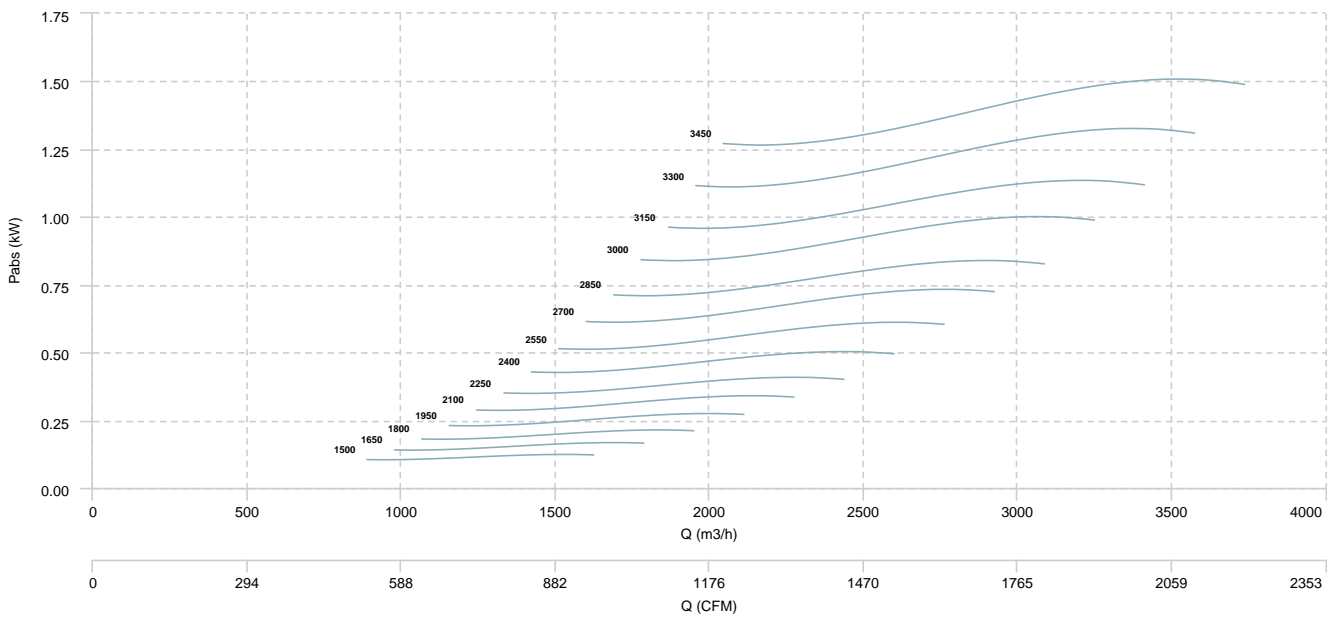


MTRL 280

## AIR FLOW - PRESSURE

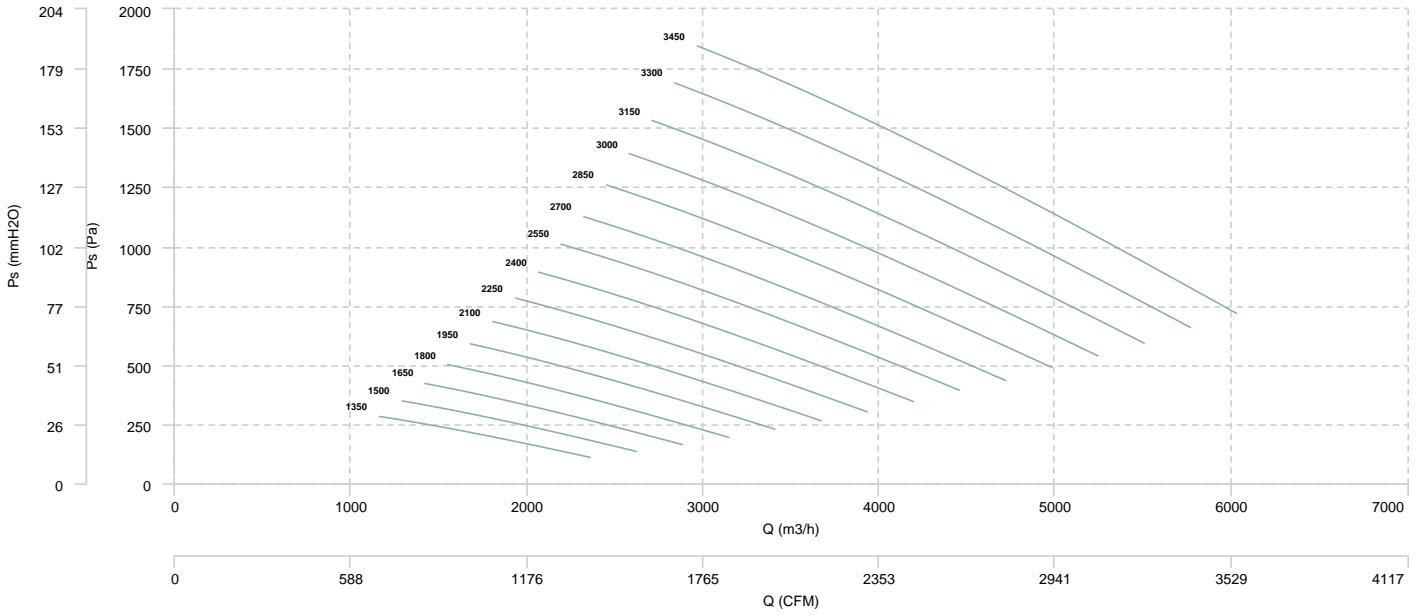


## AIR FLOW - MECHANICAL POWER

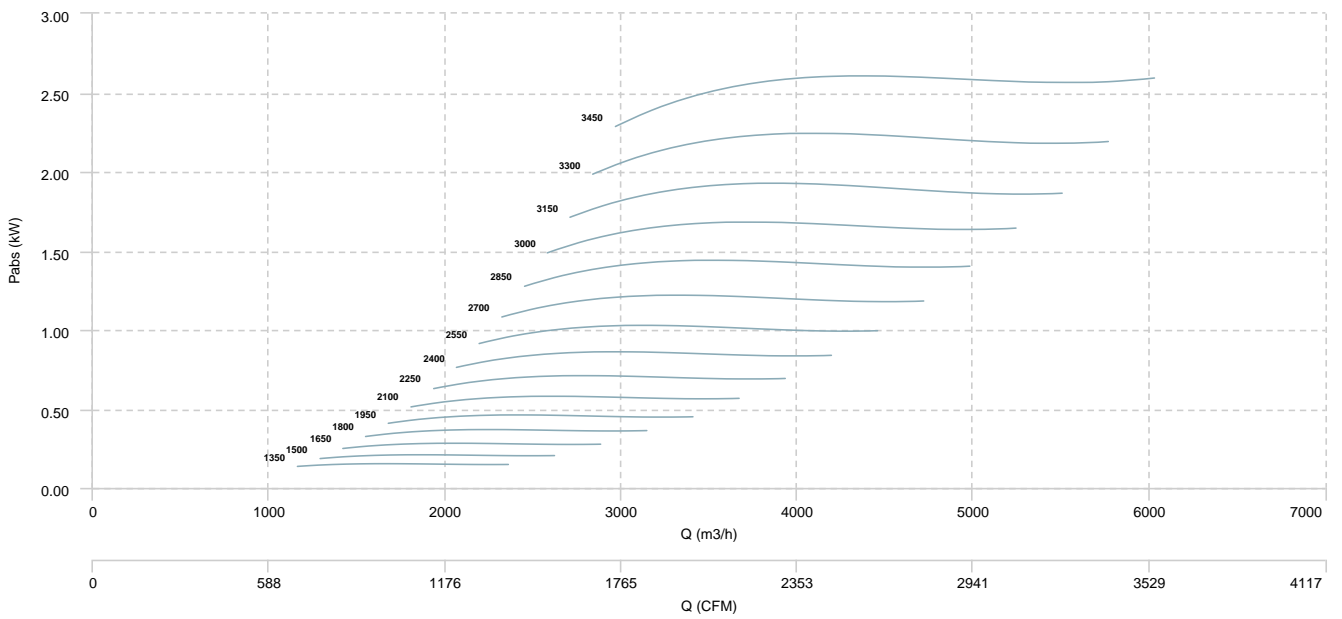


MTRL 310

## AIR FLOW - PRESSURE

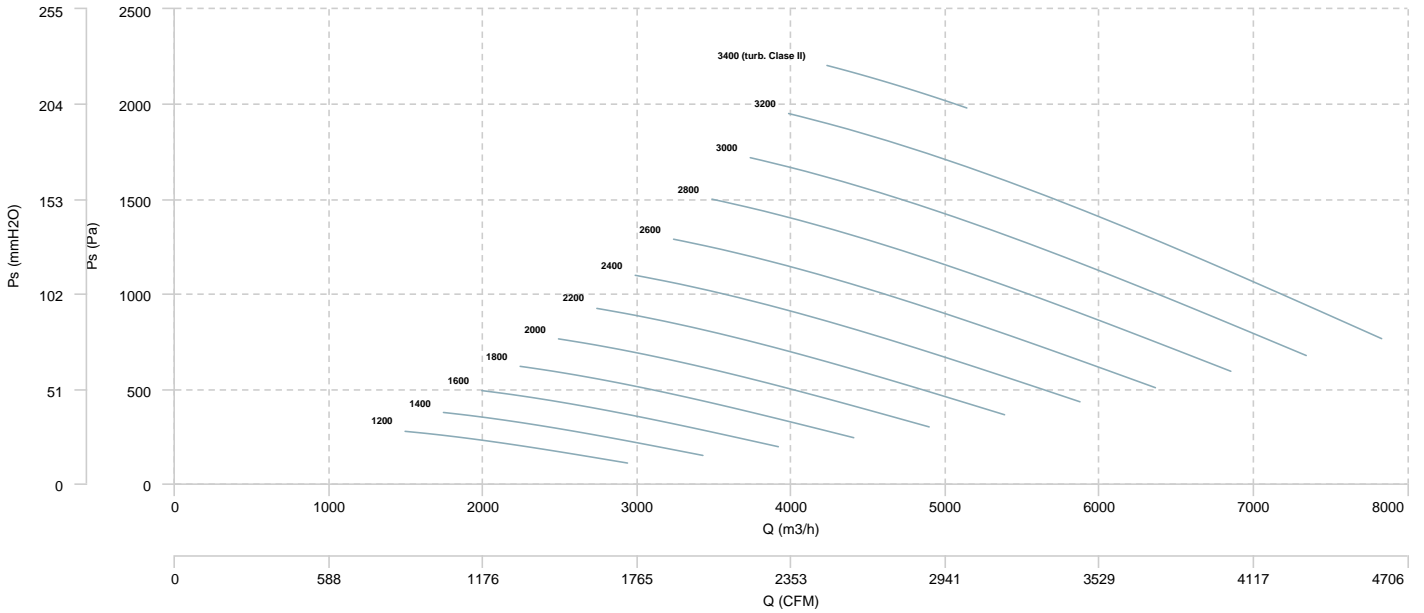


## AIR FLOW - MECHANICAL POWER

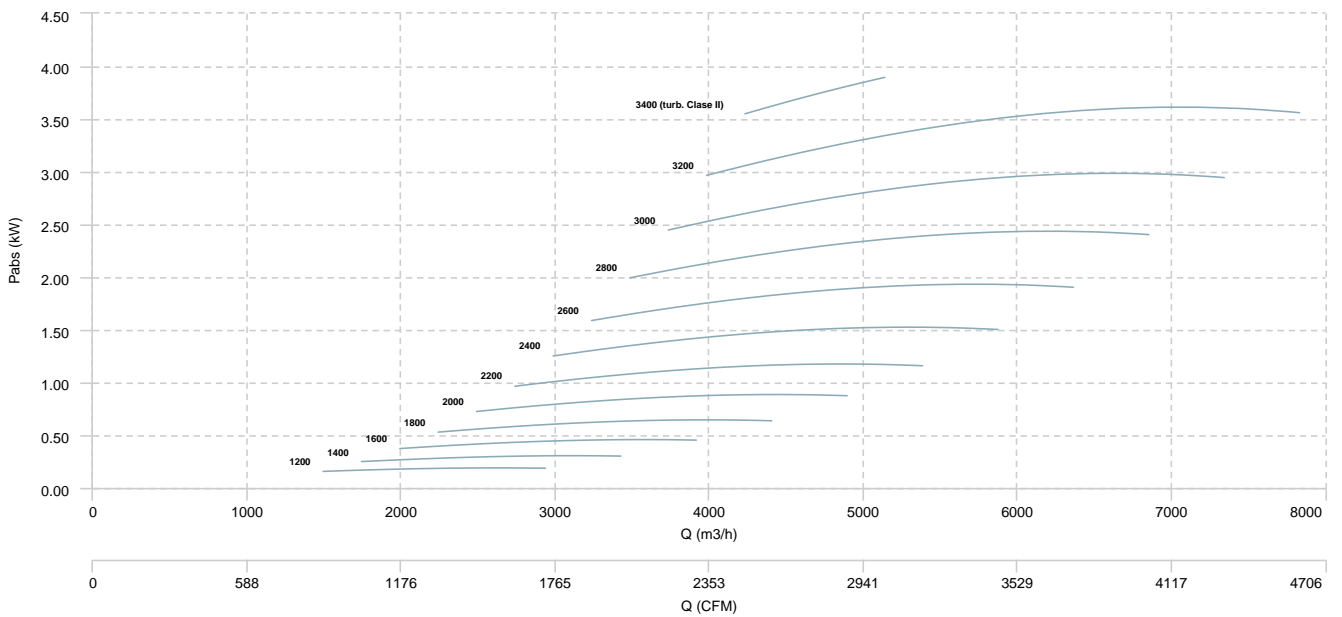


MTRL 350

## AIR FLOW - PRESSURE

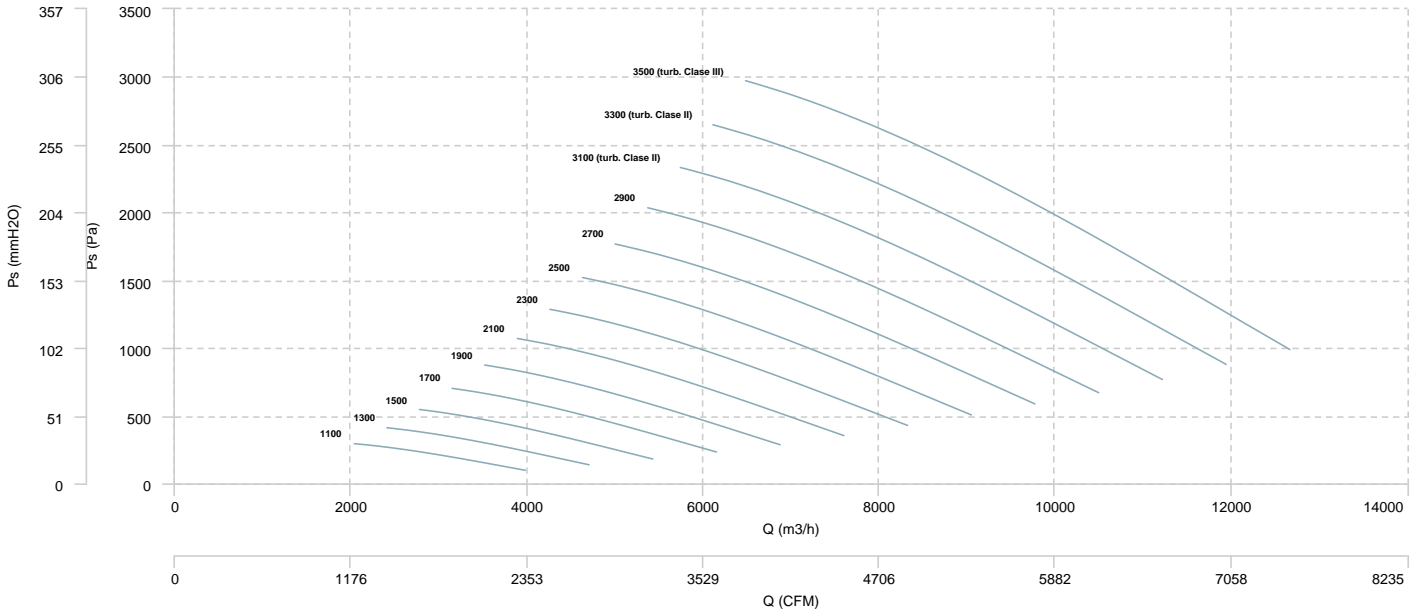


## AIR FLOW - MECHANICAL POWER

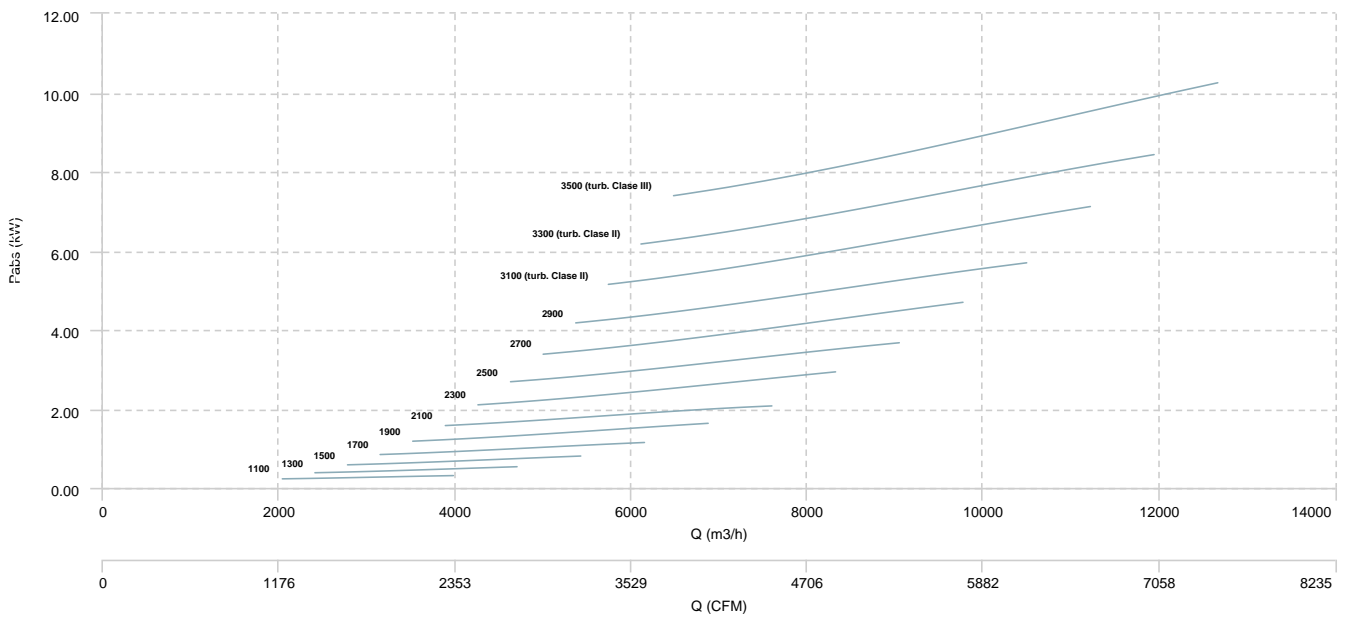


MTRL 400

## AIR FLOW - PRESSURE

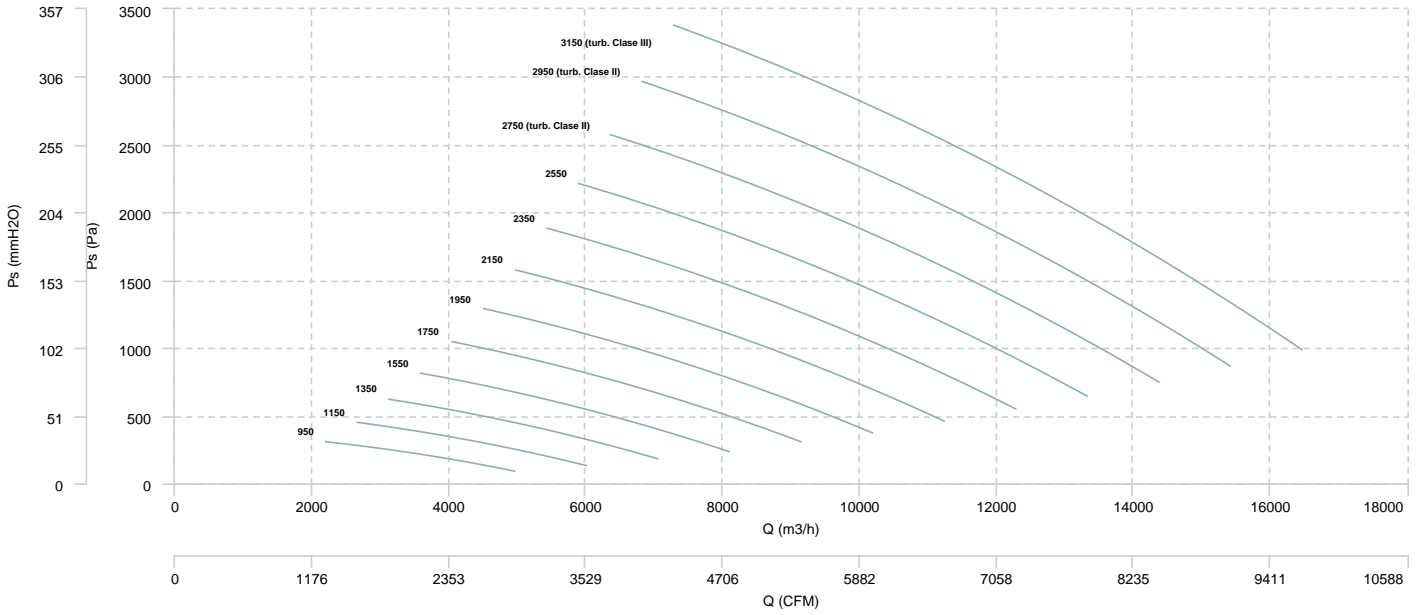


## AIR FLOW - MECHANICAL POWER

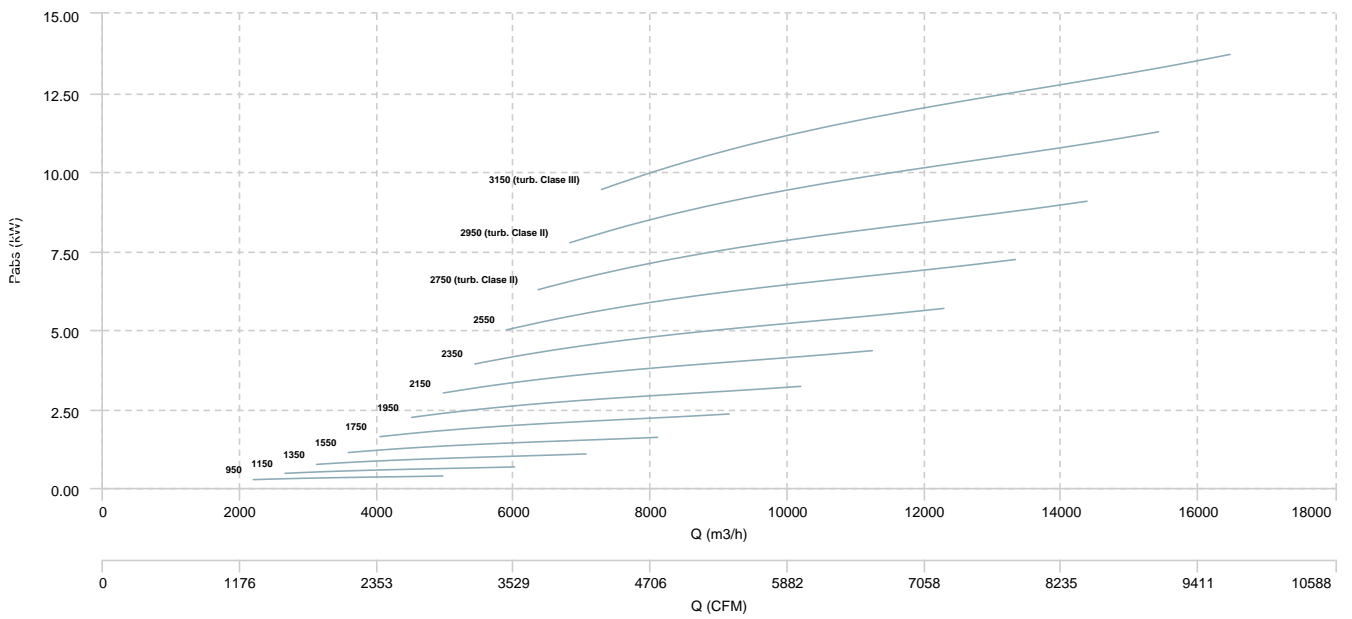


MTRL 450

## AIR FLOW - PRESSURE

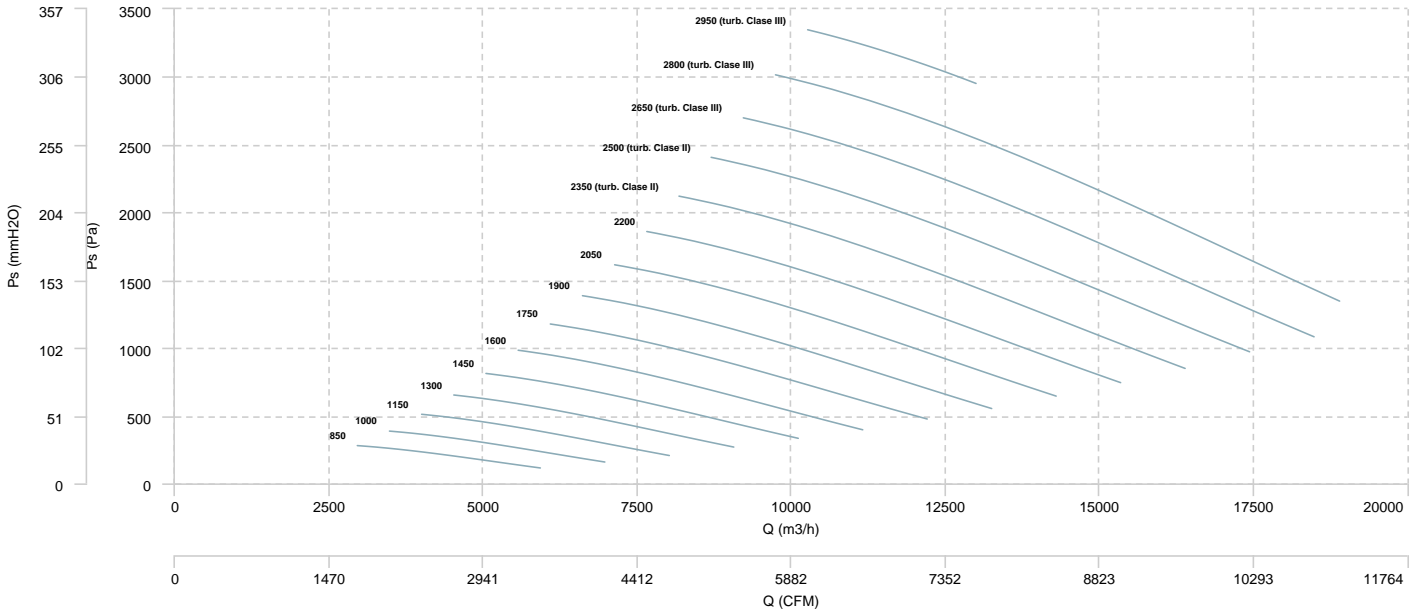


## AIR FLOW - MECHANICAL POWER

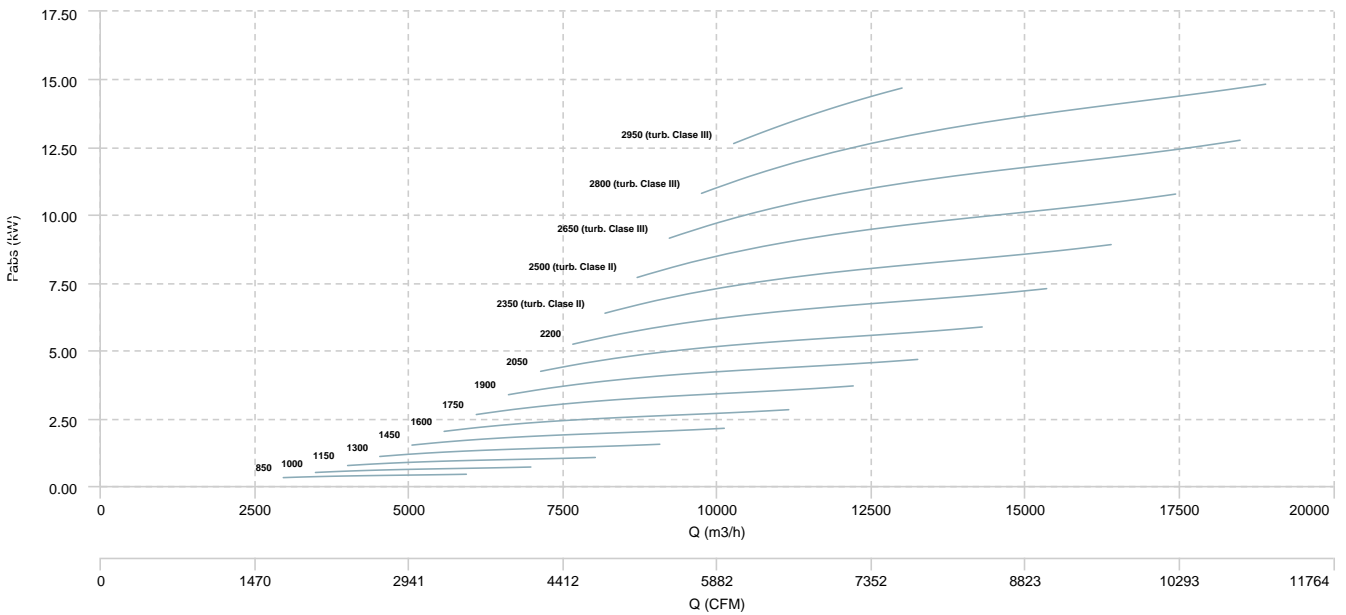


MTRL 500

## AIR FLOW - PRESSURE



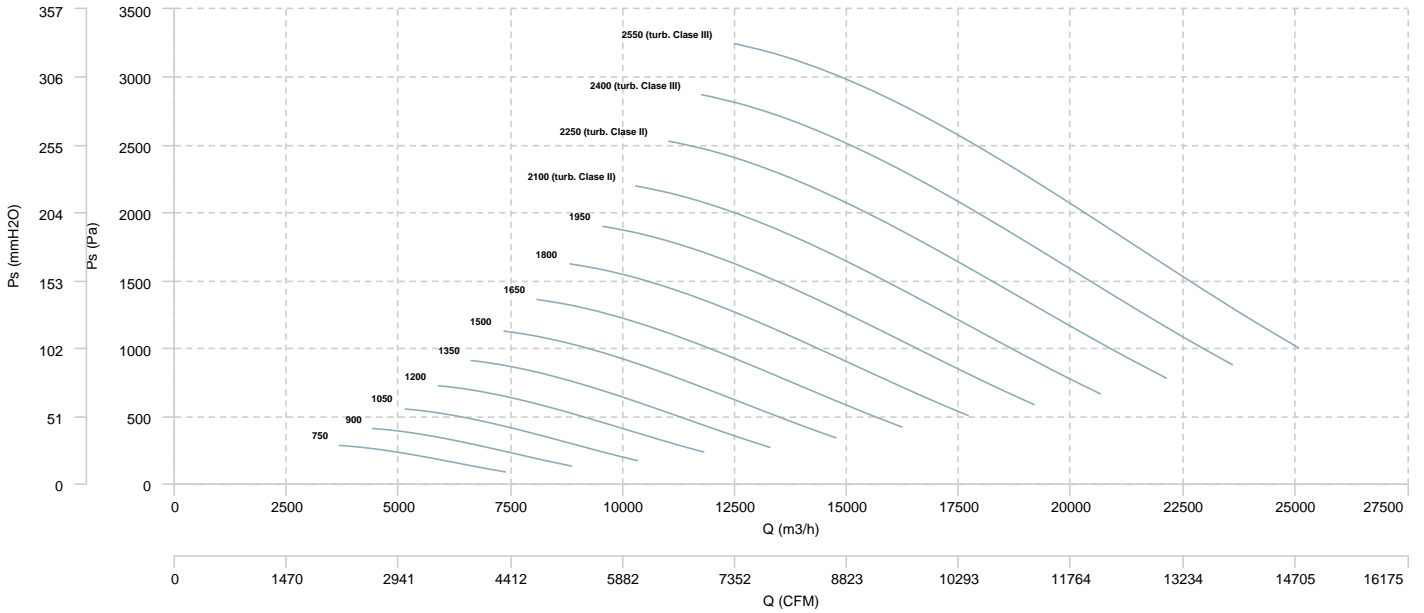
## AIR FLOW - MECHANICAL POWER



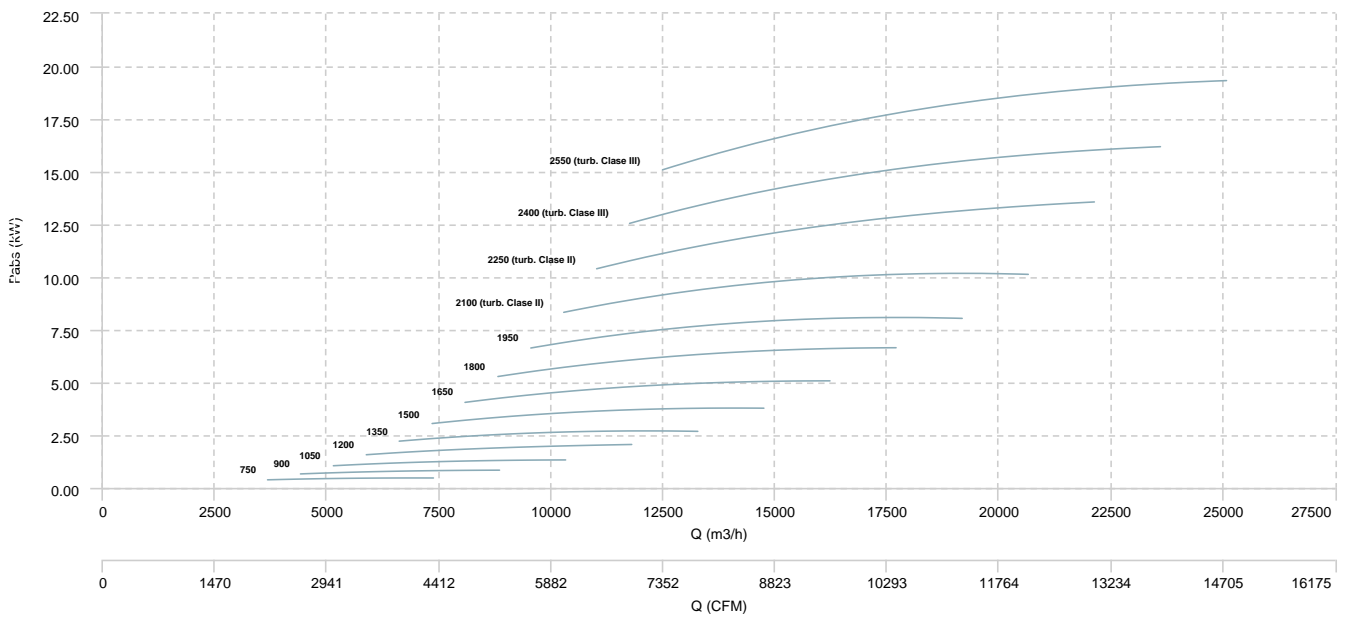


MTRL 560

## AIR FLOW - PRESSURE

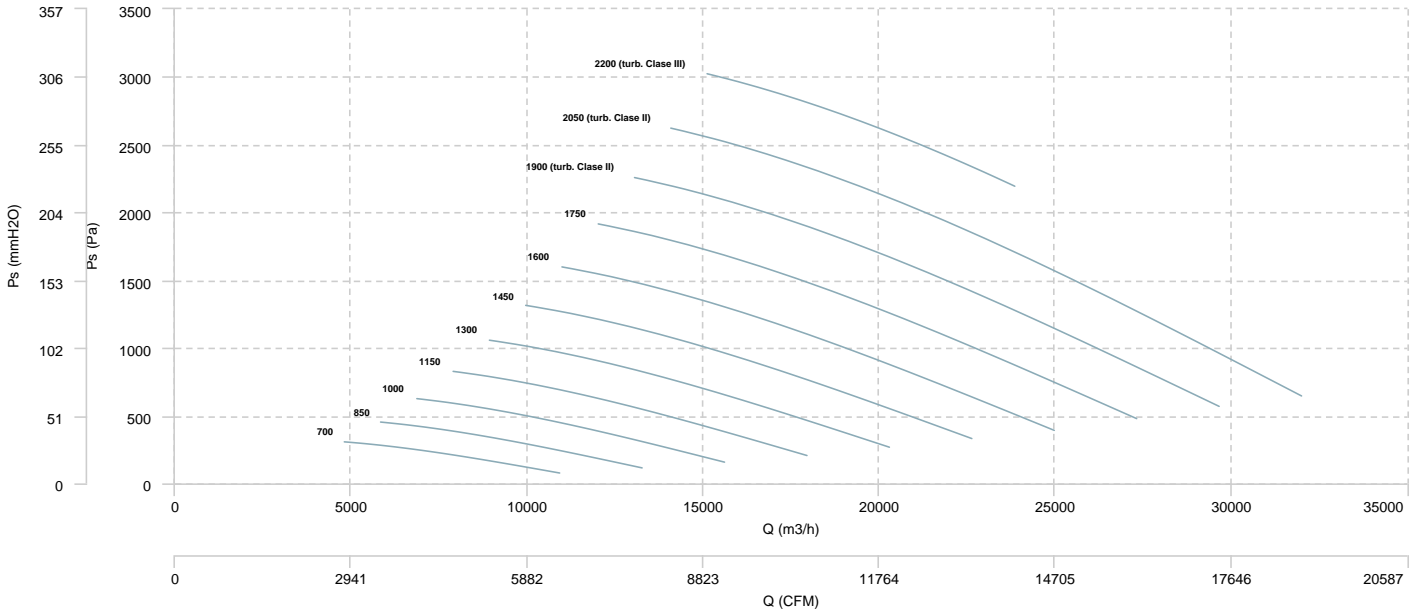


## AIR FLOW - MECHANICAL POWER

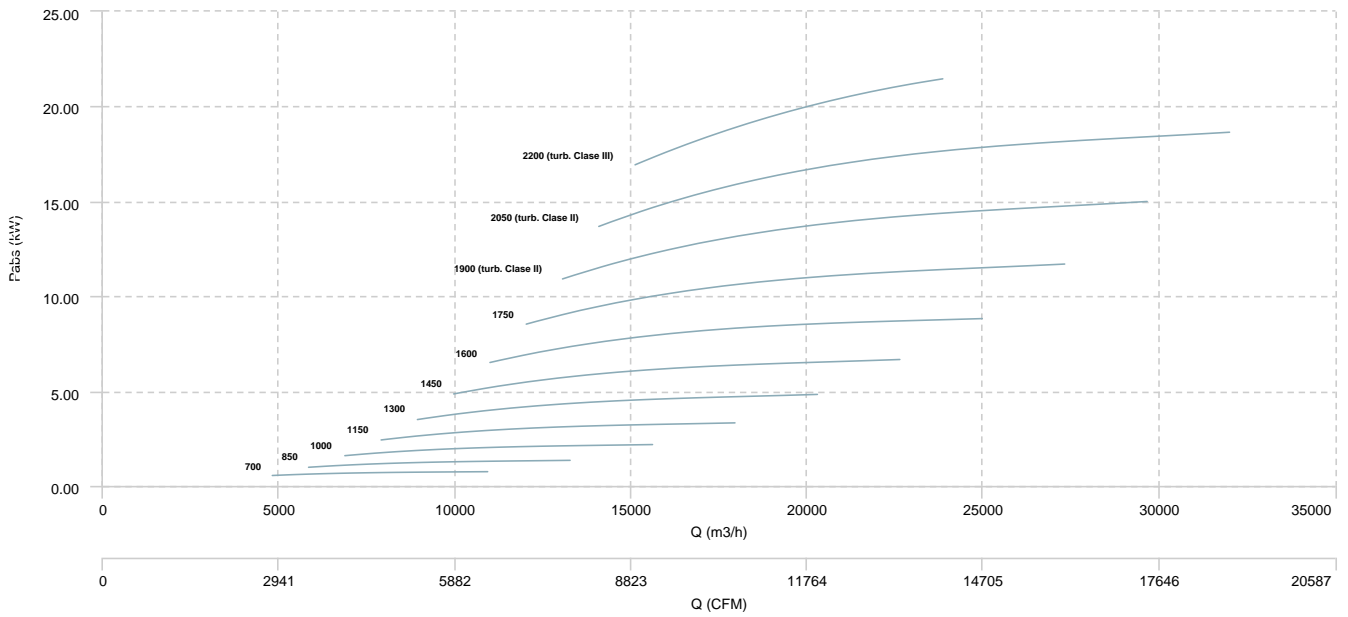


MTRL 630

## AIR FLOW - PRESSURE

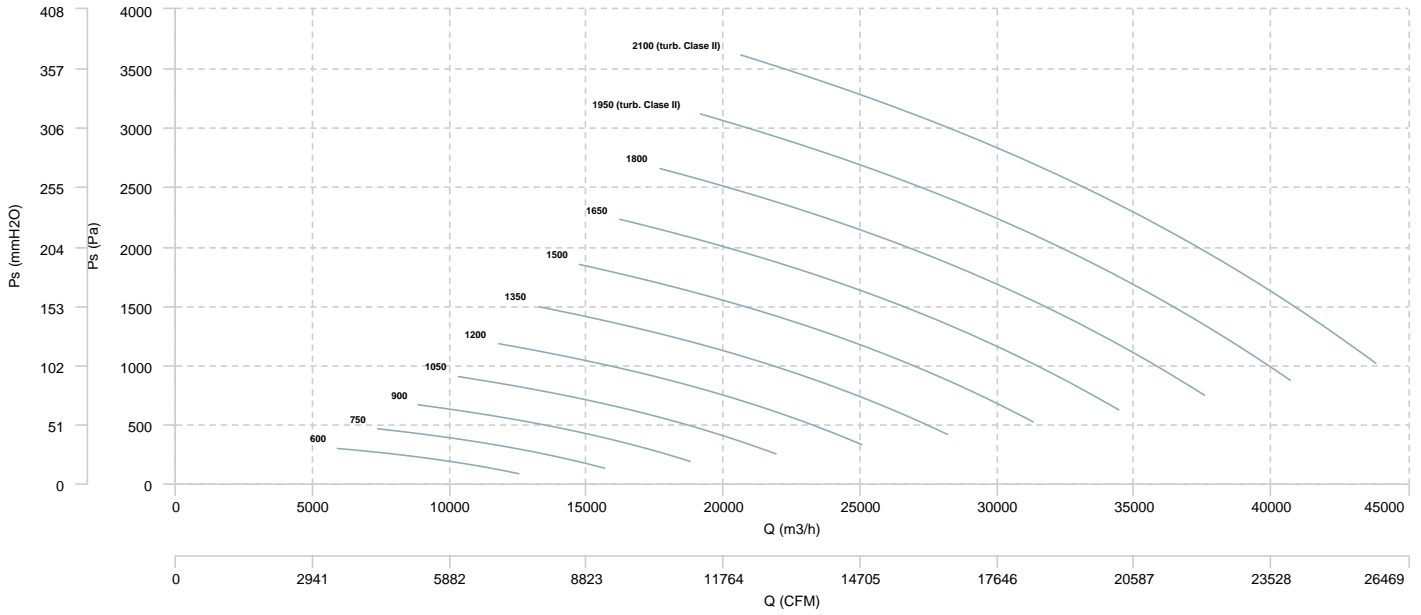


## AIR FLOW - MECHANICAL POWER

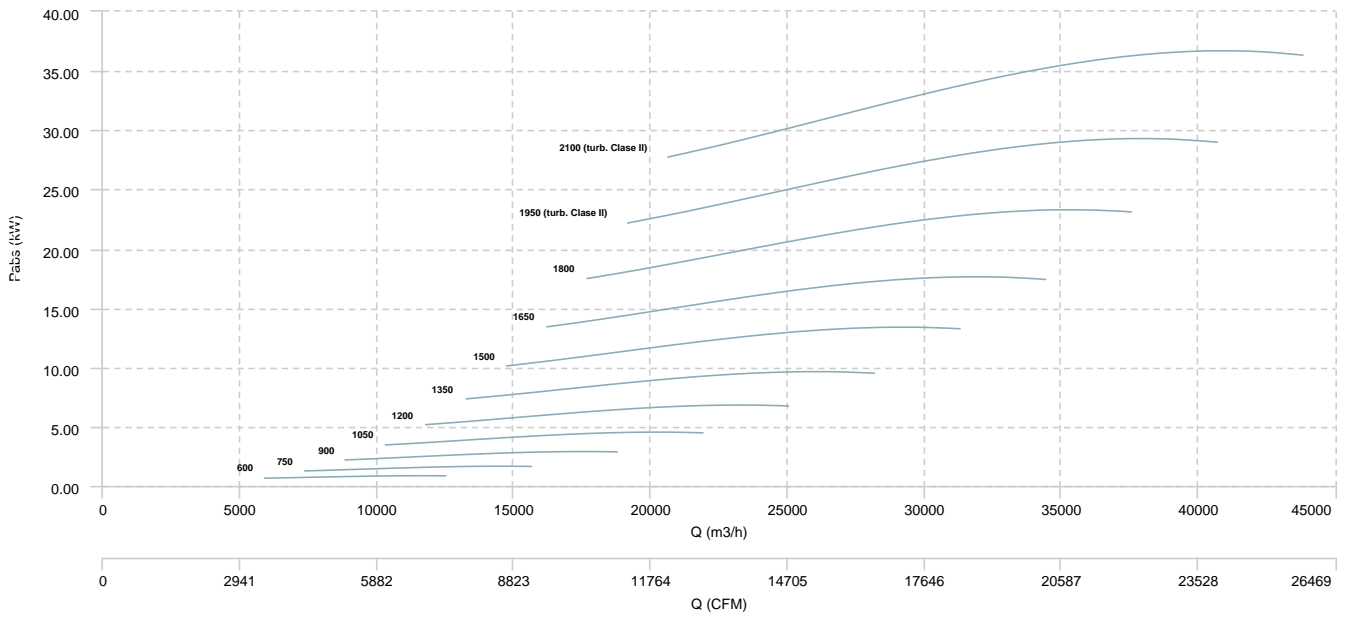


MTRL 710

## AIR FLOW - PRESSURE

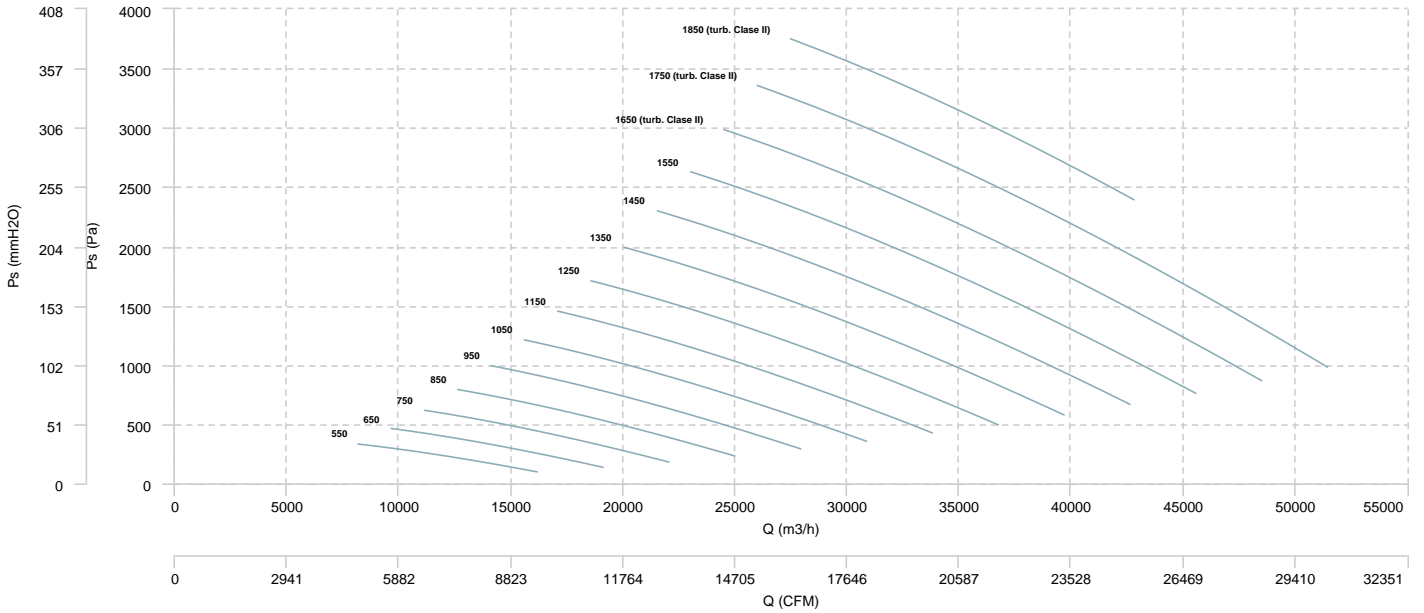


## AIR FLOW - MECHANICAL POWER

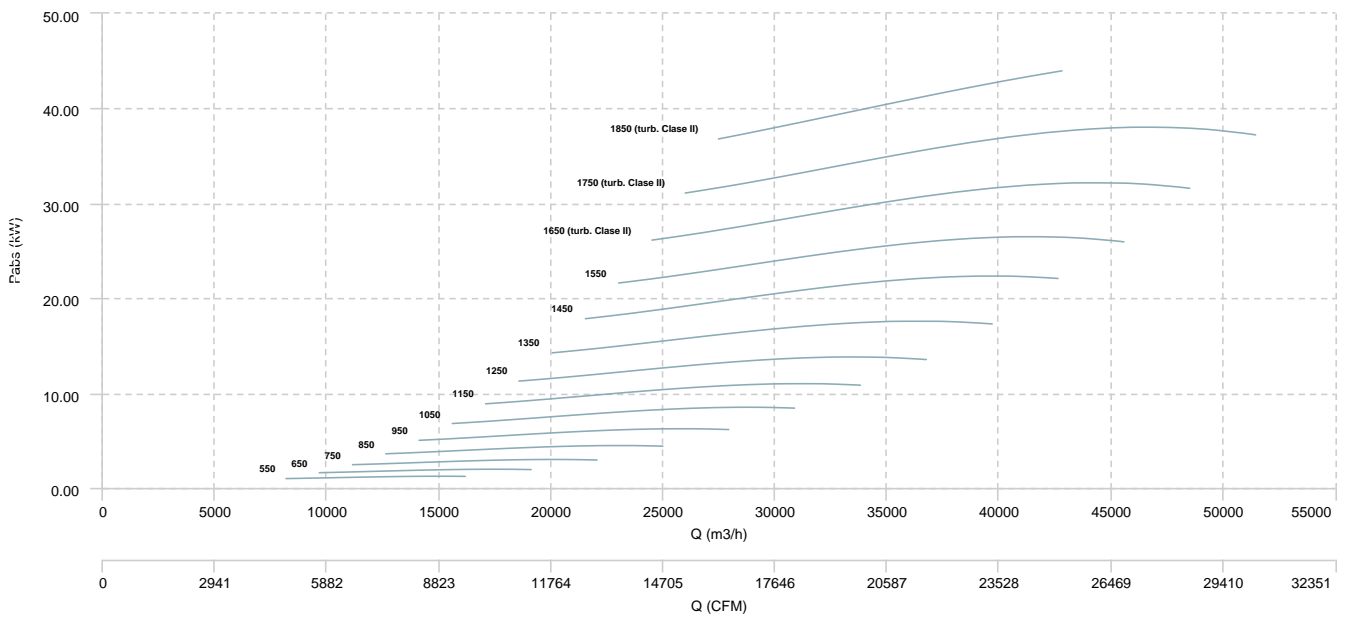


MTRL 800

## AIR FLOW - PRESSURE

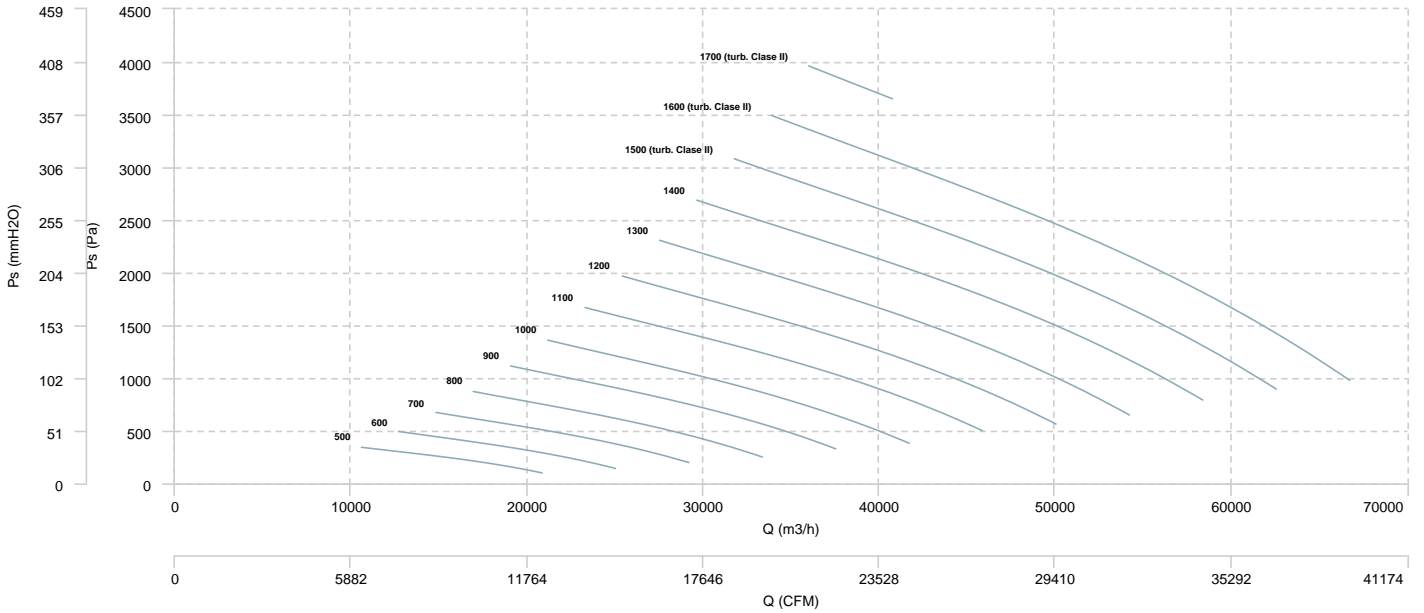


## AIR FLOW - MECHANICAL POWER

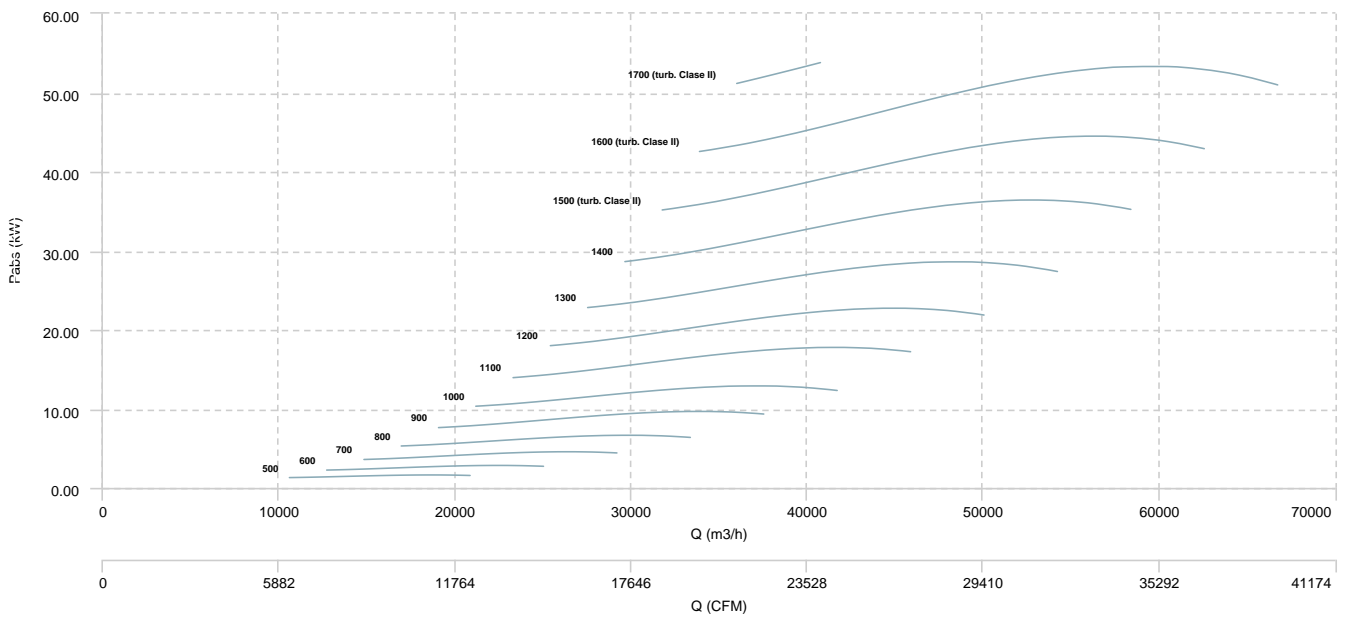


MTRL 900

## AIR FLOW - PRESSURE

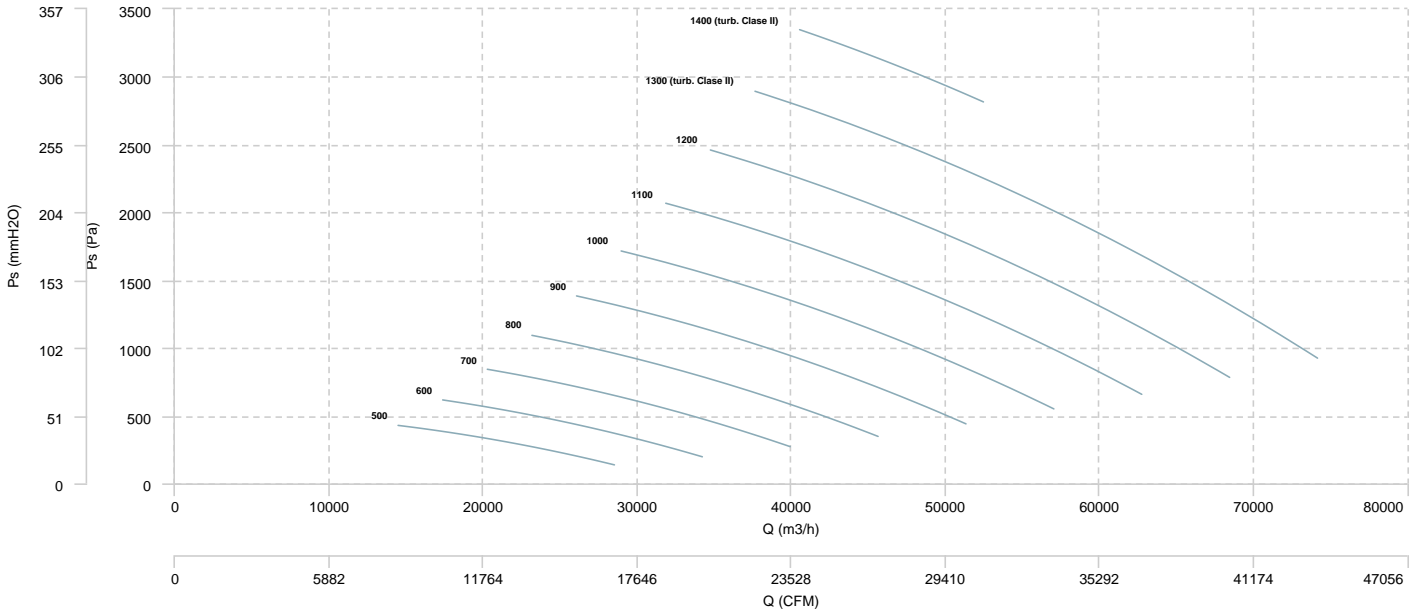


## AIR FLOW - MECHANICAL POWER

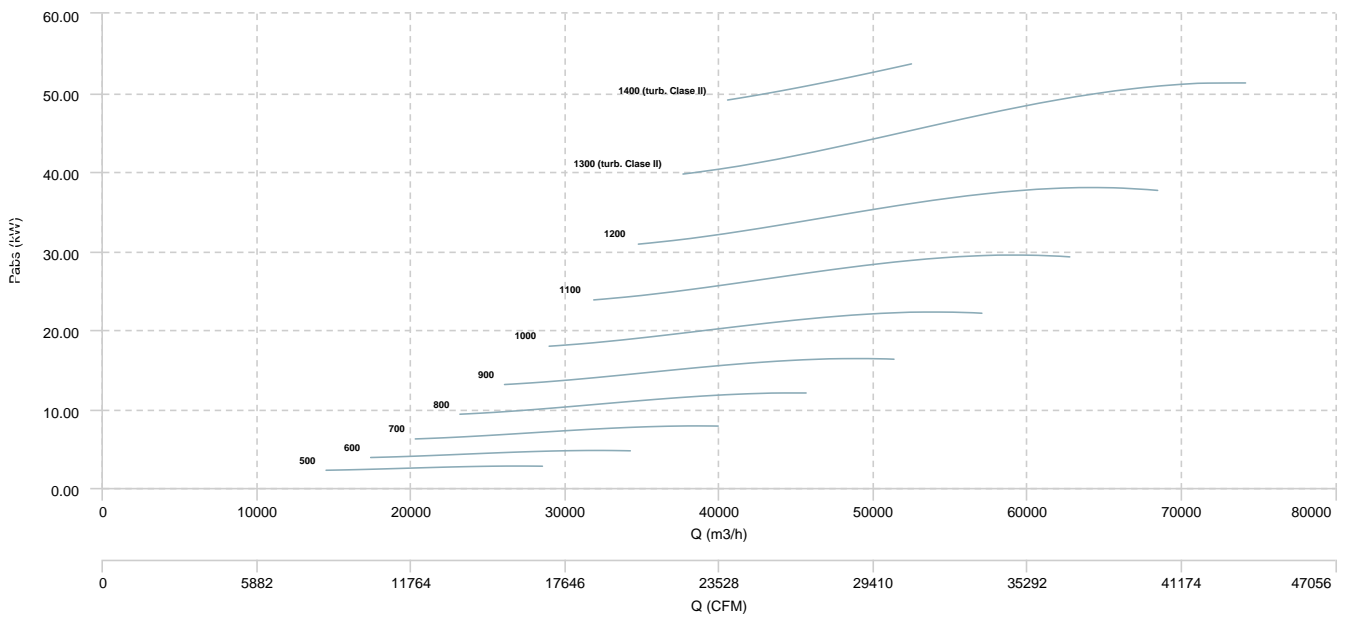


MTRL 1000

## AIR FLOW - PRESSURE

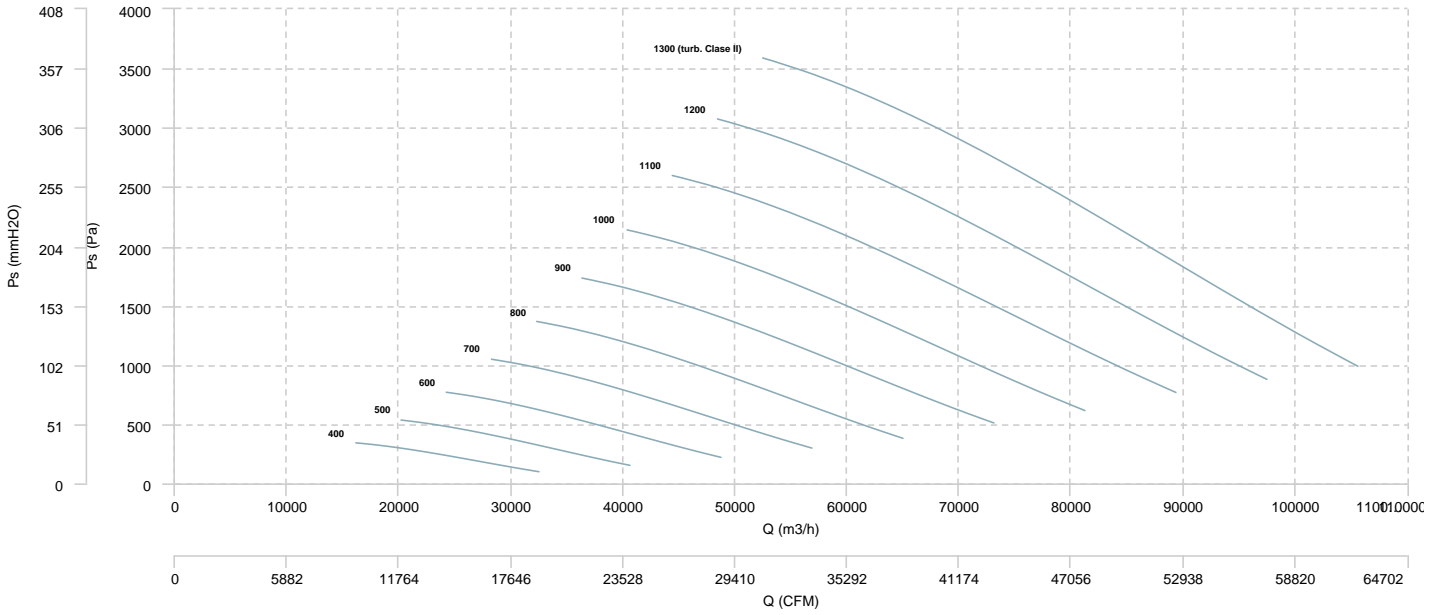


## AIR FLOW - MECHANICAL POWER

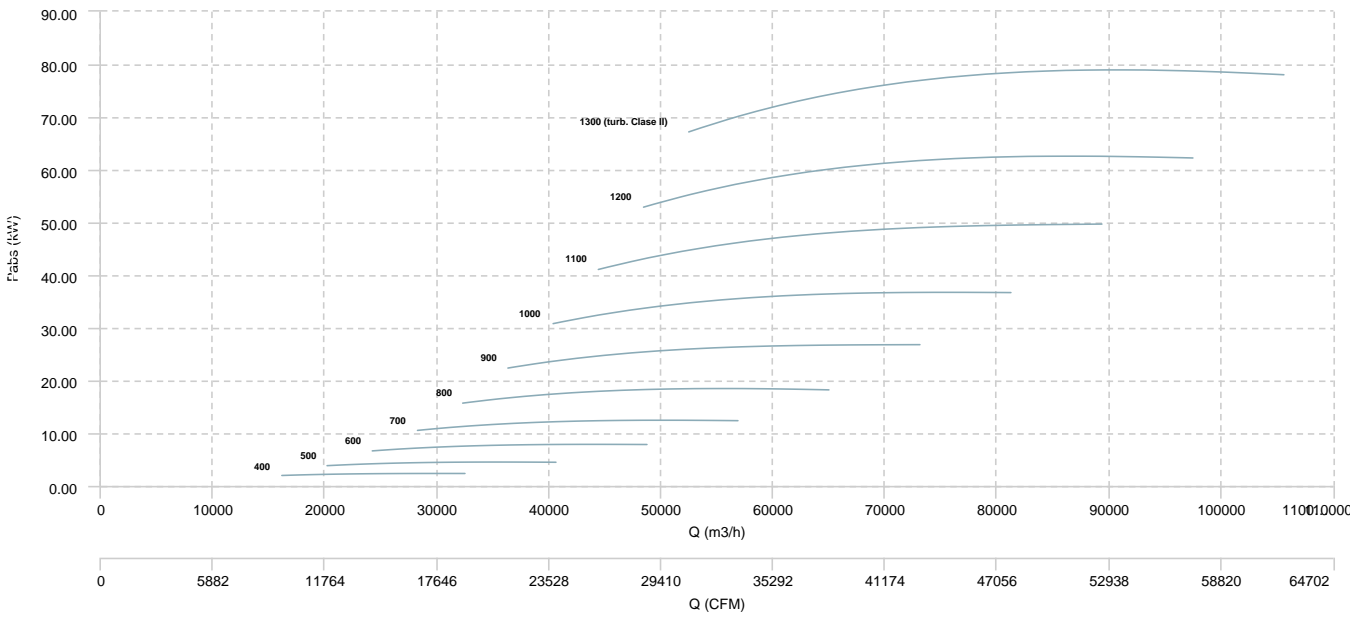


MTRL 1120

## AIR FLOW - PRESSURE

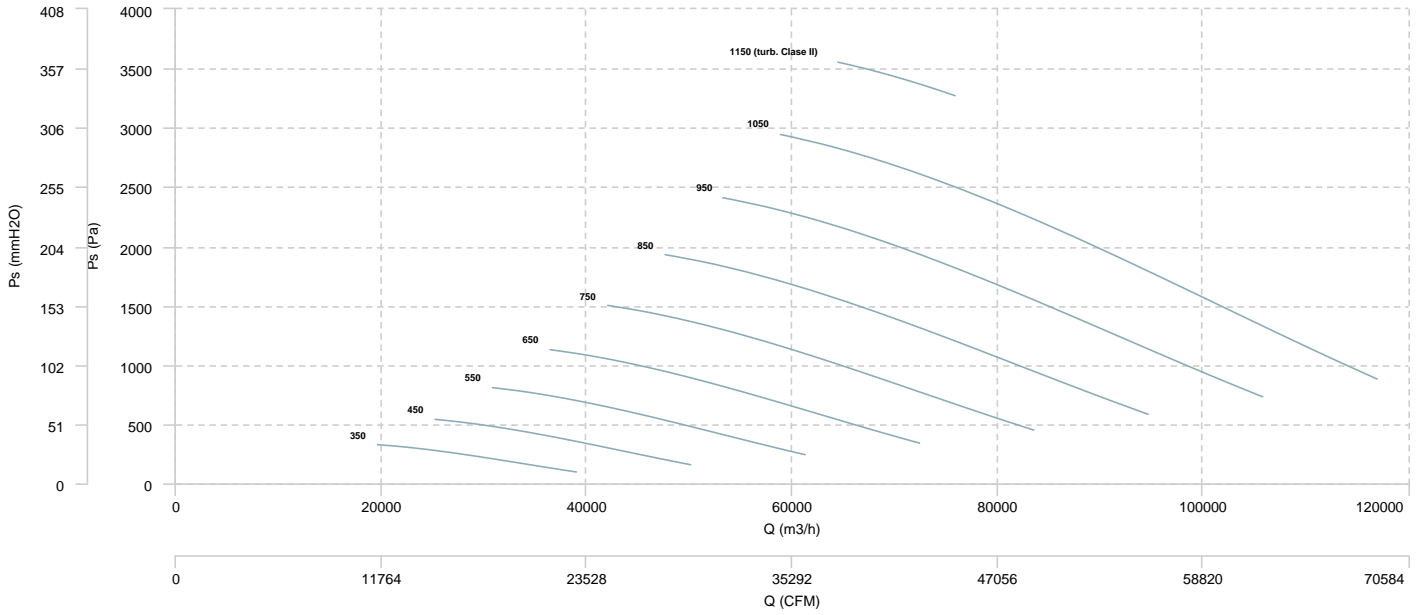


## AIR FLOW - MECHANICAL POWER

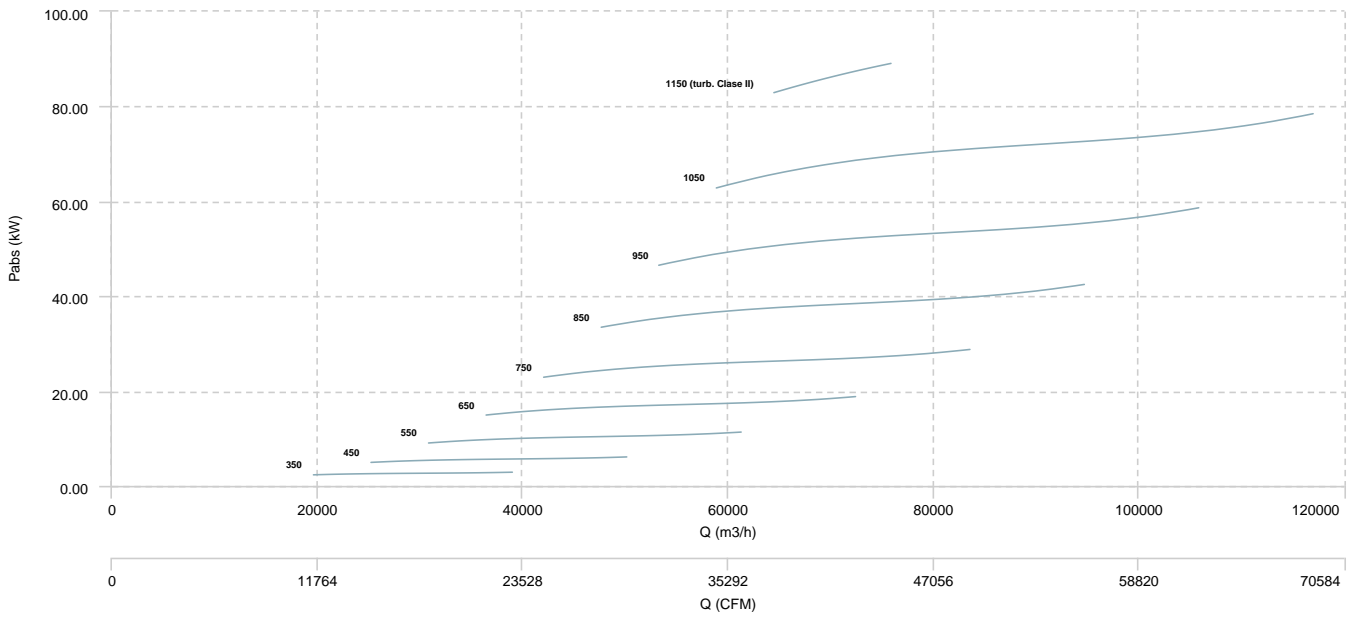


MTRL 1250

## AIR FLOW - PRESSURE



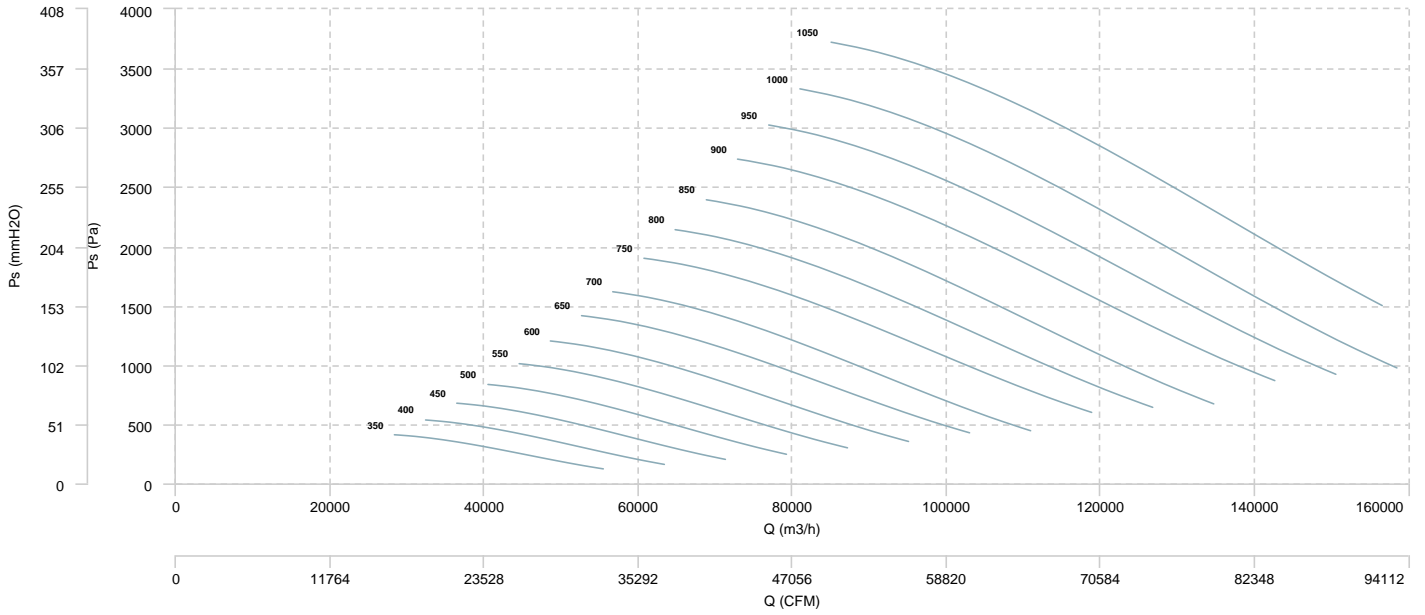
## AIR FLOW - MECHANICAL POWER



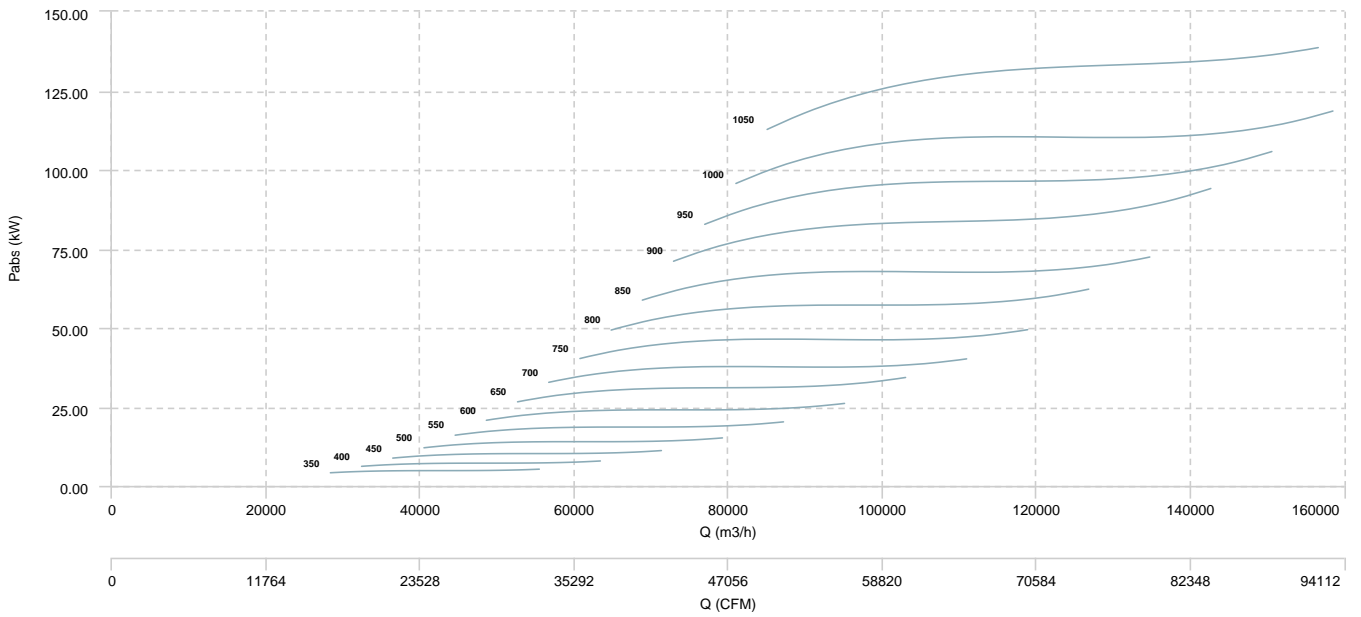


MTRL 1400

## AIR FLOW - PRESSURE

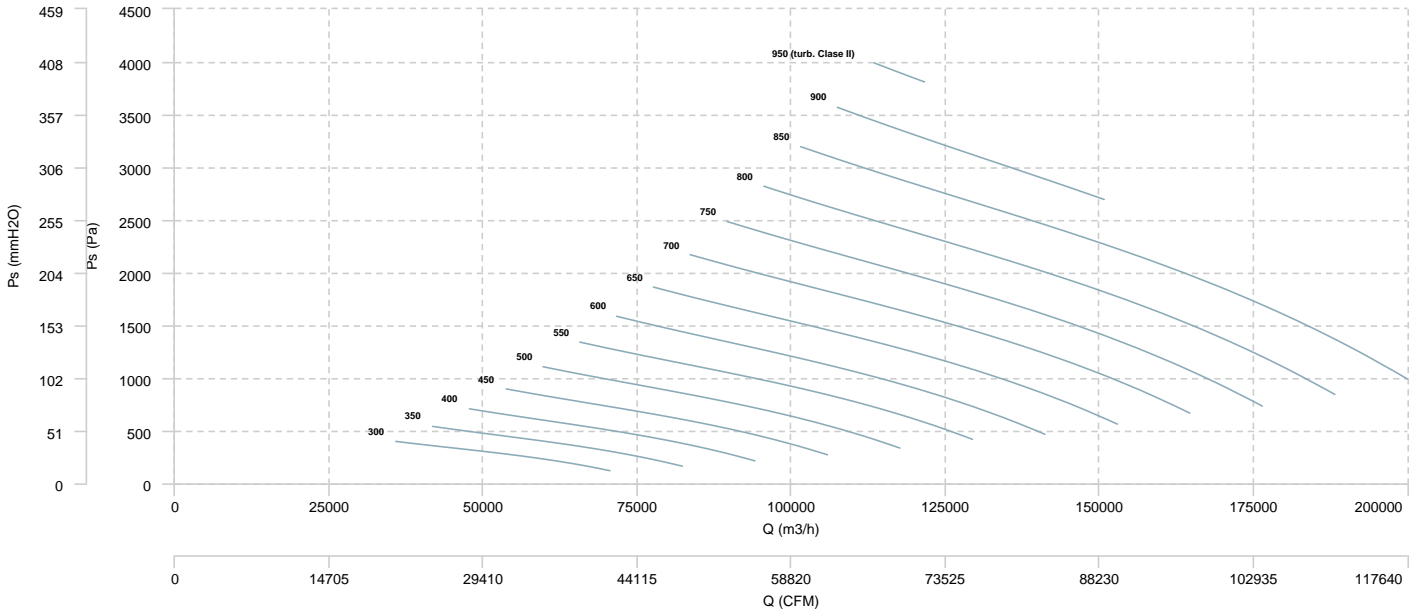


## AIR FLOW - MECHANICAL POWER

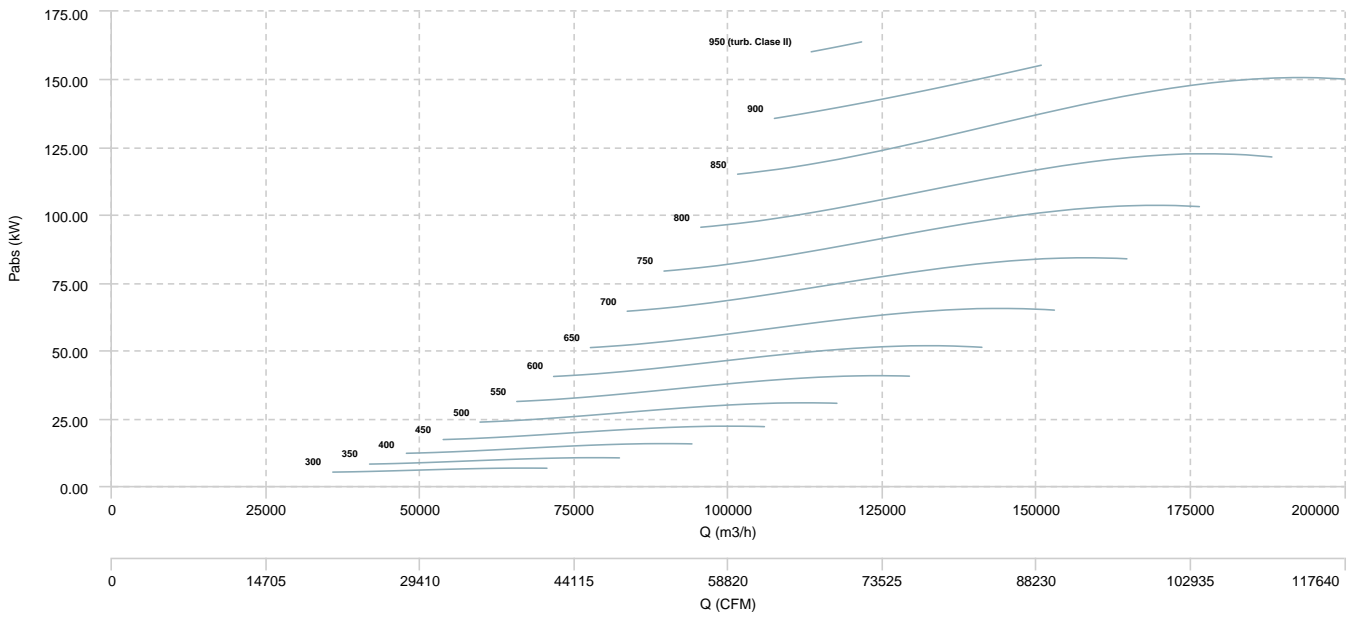


MTRL 1600

## AIR FLOW - PRESSURE

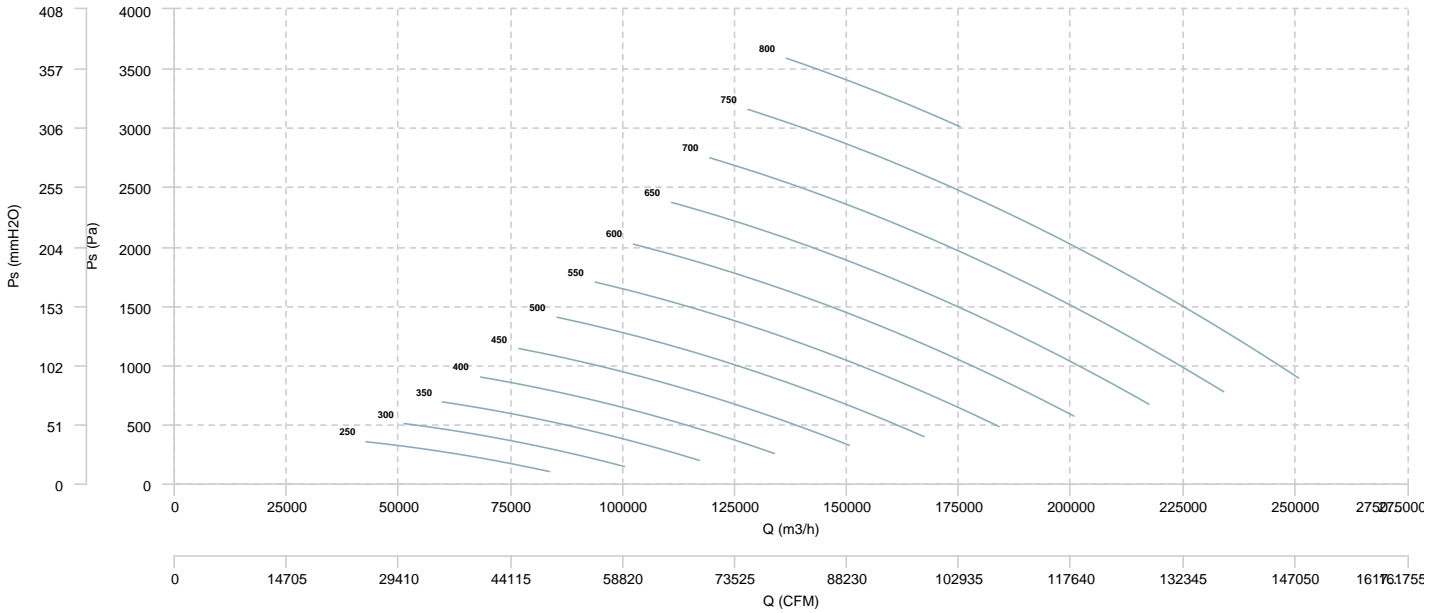


## AIR FLOW - MECHANICAL POWER

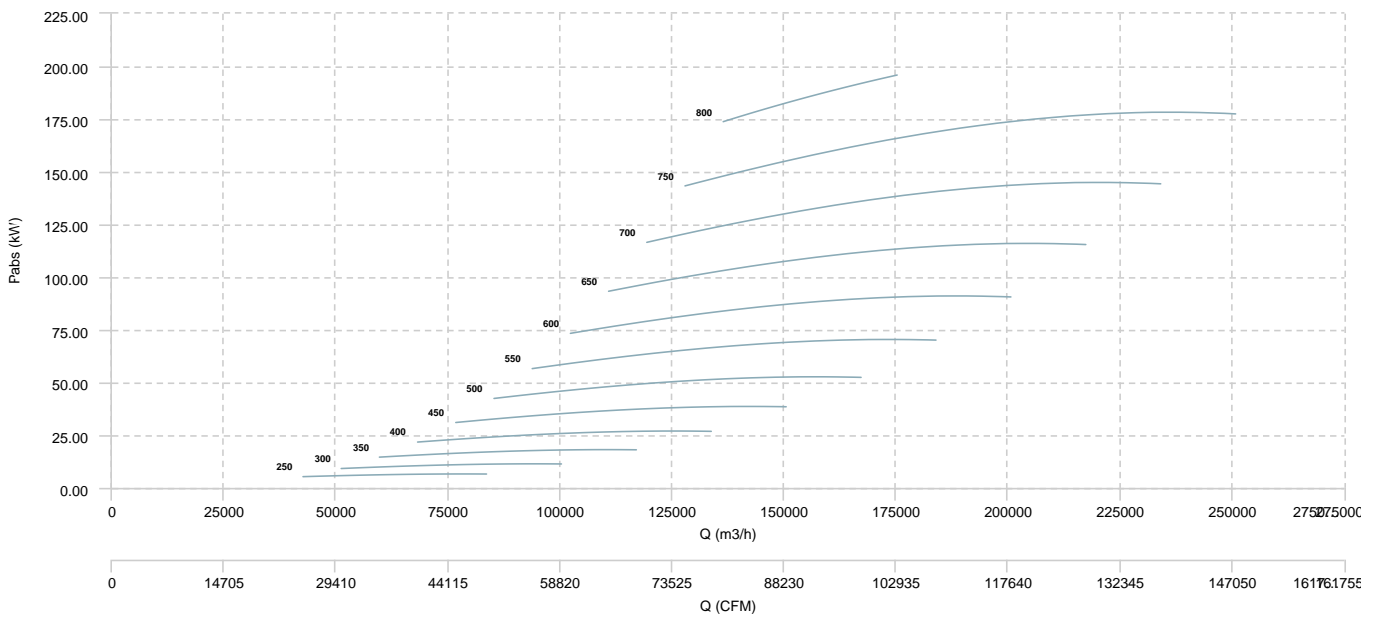


MTRL 1800

## AIR FLOW - PRESSURE

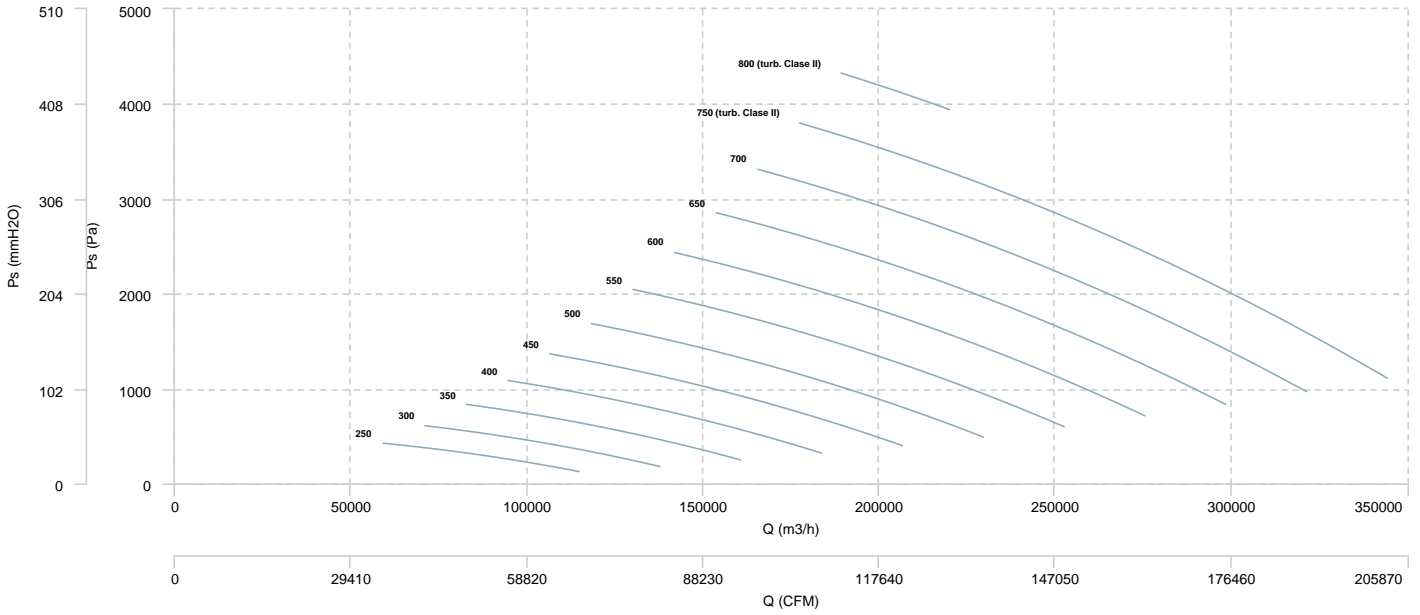


## AIR FLOW - MECHANICAL POWER

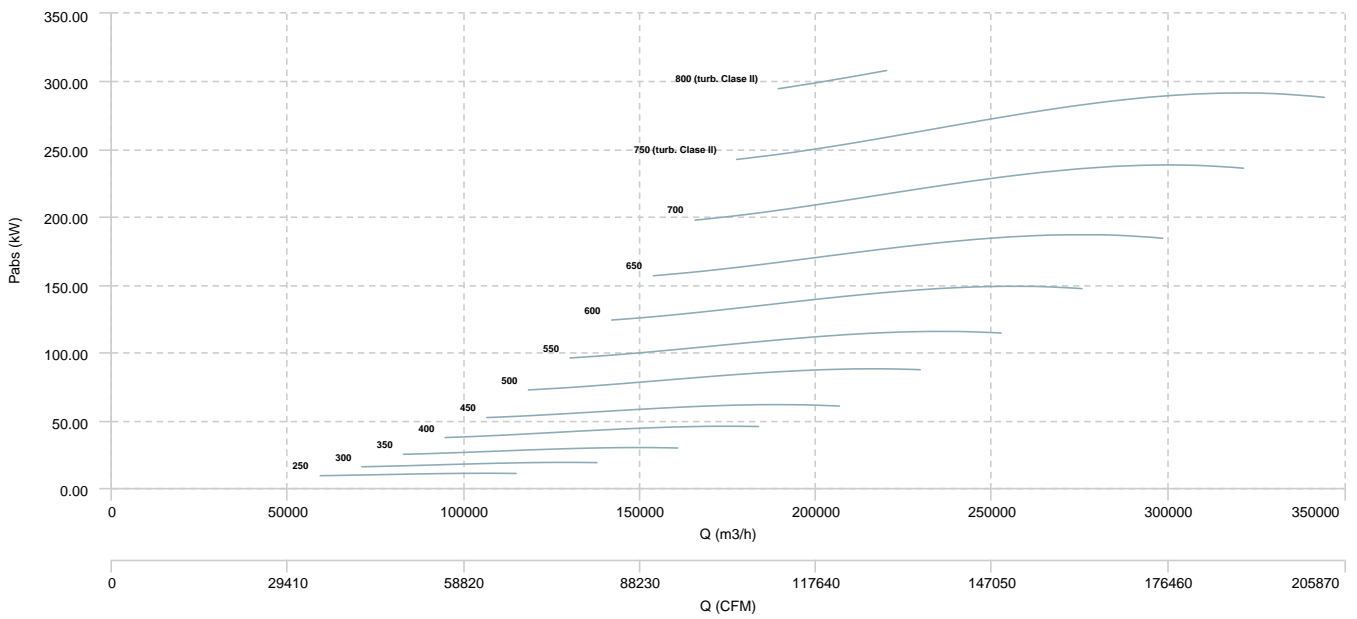


MTRL 2000

## AIR FLOW - PRESSURE



## AIR FLOW - MECHANICAL POWER



## Sound data

| Sound power Lw dB (A) |       |       |        |        |        |         |         |         |         |       |
|-----------------------|-------|-------|--------|--------|--------|---------|---------|---------|---------|-------|
| Model                 |       | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| MTRL 250 (1700 RPM)   | Inlet | 42    | 54     | 61     | 65     | 66      | 61      | 55      | 52      | 70    |
| MTRL 280 (1500 RPM)   | Inlet | 56    | 62     | 66     | 67     | 63      | 56      | 53      | 71      | -     |
| MTRL 310 (1350 RPM)   | Inlet | 42    | 54     | 61     | 65     | 66      | 61      | 54      | 51      | 70    |
| MTRL 350 (1200 RPM)   | Inlet | 44    | 56     | 62     | 66     | 67      | 63      | 56      | 53      | 71    |
| MTRL 400 (1100 RPM)   | Inlet | 46    | 58     | 64     | 68     | 69      | 64      | 58      | 55      | 73    |
| MTRL 450 (950 RPM)    | Inlet | 48    | 60     | 66     | 70     | 71      | 67      | 60      | 57      | 75    |
| MTRL 500 (850 RPM)    | Inlet | 47    | 59     | 66     | 70     | 71      | 66      | 59      | 56      | 75    |
| MTRL 560 (750 RPM)    | Inlet | 49    | 61     | 67     | 71     | 72      | 67      | 61      | 58      | 76    |
| MTRL 630 (700 RPM)    | Inlet | 49    | 61     | 68     | 72     | 73      | 68      | 61      | 58      | 77    |
| MTRL 710 (600 RPM)    | Inlet | 49    | 61     | 68     | 72     | 73      | 68      | 61      | 58      | 77    |
| MTRL 800 (550 RPM)    | Inlet | 50    | 62     | 69     | 73     | 74      | 69      | 63      | 60      | 78    |
| MTRL 900 (500 RPM)    | Inlet | 51    | 63     | 70     | 74     | 75      | 70      | 64      | 61      | 79    |
| MTRL 1000 (500 RPM)   | Inlet | 54    | 66     | 72     | 76     | 77      | 73      | 66      | 63      | 81    |
| MTRL 1120 (400 RPM)   | Inlet | 52    | 64     | 70     | 74     | 75      | 71      | 64      | 61      | 79    |
| MTRL 1250 (350 RPM)   | Inlet | 52    | 64     | 70     | 74     | 75      | 70      | 64      | 61      | 79    |
| MTRL 1400 (350 RPM)   | Inlet | 55    | 67     | 73     | 77     | 78      | 73      | 67      | 64      | 82    |
| MTRL 1600 (300 RPM)   | Inlet | 54    | 66     | 73     | 77     | 78      | 73      | 67      | 64      | 82    |
| MTRL 1800 (250 RPM)   | Inlet | 53    | 65     | 72     | 76     | 77      | 72      | 66      | 63      | 81    |
| MTRL 2000 (250 RPM)   | Inlet | 56    | 68     | 75     | 79     | 80      | 75      | 69      | 66      | 84    |

**Notes:**

\* To calculate the sound power level at different rpm from those indicated above, use the following formula:

$$Lw \text{ dB(A)}_{rpmA} = Lw \text{ dB(A)}_{rpmB} + 52.5 \cdot \log_{10} \frac{rpmA}{rpmB}$$