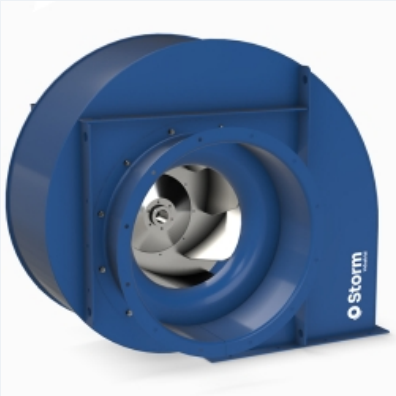
# PREXTUR




## Accessories


AB


AC


AVR


AVS


BA-400


BADS


BIDS


CPS


EIS


INT


JE 45


RA


RIS


SFC

**CENTRIFUGAL MEDIUM PRESSURE FAN FOR PAINT BOOTHS**

MANUFACTURING FEATURES:

• Medium pressure centrifugal fan with direct coupling.
• Reinforced housing made of carbon laminated steel, protected against corrosion by powder coating polyester resin RAL 5010. Finish C3.
• Casing fully latched and adjustable.
• Self-cleaning turbine and reinforced impeller with high-performance backward (reaction) blades made of carbon laminated steel dynamically balanced to minimize noise and vibrations. Black painted, RAL 9005
• Squirrel cage standardized asynchronous IEC motor with IP-55 protection and class F electrical insulation. Standard voltages 230/400V 50Hz for three-phase motors up to 4kW and 400/690V 50Hz for higher powers.
• Motor with flange (B5), airtight axle
• Double suction flange
• Maximum working temperature in continuous: transported air: 130ºC, ambient: 60ºC.

• Available positions (to be indicated in case of order): LG and RD
• The indicated codes correspond to the model in position LG

APPLICATIONS

Suitable for moving clean or dusty air. Designed to be fixed in the double suction flange, with the motor in vertical position.

- Paint booths
- Collection of dust
- Food industry dryers
- Food processing
- Incineration
- Odor control in industry
- Indoor / outdoor pollution control
- Big buildings
- Malls
- Factories / Industrial buildings
- Warehouses
- Extraction of smoke
- Boilers and ovens
- Manufacture and treatment of chemical products.
- Tunnels, underground stations.

ON DEMAND

· Fans for special voltages.
· 2 speed motor.
· C4 or C5 coating painting
· Hot dip galvanized
· Inox 304 (normal or electropolished finish)
· Inox 316 (normal or electropolished finish)
· Cooling wheel
· Anticaloric paint
· Fully welded housing (waterproof)
· Inspection door to facilitate maintenance and cleaning
· Drain plug.
· Non-sparking air passage and standard motor
· Other brands of motors.

# Technical data

## Three-phase motor / 2 poles

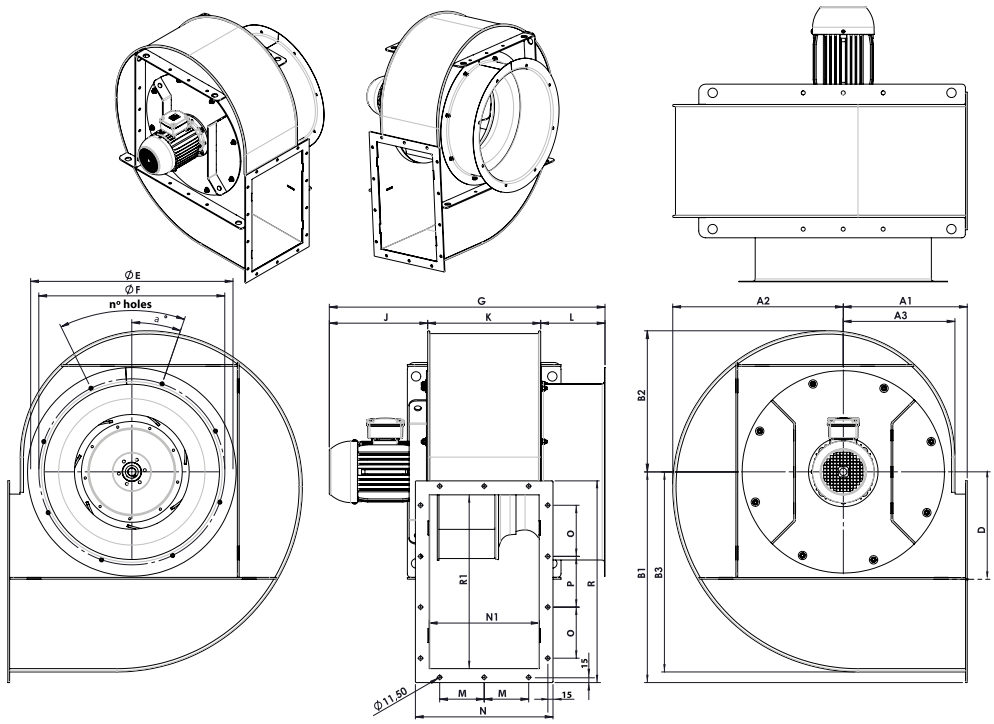
| Code | Model | R.P.M. | Rated I. A | | Rated power kW | Max. Airflow m³/h | Sound db (A)** | Weight kg | Connect. diagram |
|---|---|---|---|---|---|---|---|---|---|
| | | | 230V | 400V | | | | | |
| PX314290 | PREXTUR 314 T2 1,5kW | 2865 | 5,83 | 3,14 | 1,50 | 5.510 | 60 | 69,50 | 1 |
| PX3542100 | PREXTUR 354 T2 3kW | 2880 | 10,3 | 5,92 | 3,00 | 7.880 | 64 | 107,50 | 1 |
| PX4042132 | PREXTUR 404 T2 5,5kW | 2910 | - | 10,6 | 5,50 | 11.270 | 67 | 147 | 1 |

## Three-phase motor / 4 poles

| Code | Model | R.P.M. | Rated I. A | | Rated power kW | Max. Airflow m³/h | Sound db (A)** | Weight kg | Connect. diagram |
|---|---|---|---|---|---|---|---|---|---|
| | | | 230V | 400V | | | | | |
| PX314471 | PREXTUR 314 T4 0,37kW | 1370 | 1,86 | 1,07 | 0,37 | 2.760 | 45 | 52,20 | 1 |
| PX354471 | PREXTUR 354 T4 0,37kW | 1370 | 1,86 | 1,07 | 0,37 | 3.940 | 49 | 75,20 | 1 |
| PX404480 | PREXTUR 404 T4 0,55kW | 1440 | 2,57 | 1,49 | 0,55 | 5.640 | 52 | 88 | 1 |
| PX454490 | PREXTUR 454 T4 1,1kW | 1450 | 4,33 | 2,49 | 1,10 | 8.020 | 56 | 112 | 1 |
| PX5044100 | PREXTUR 504 T4 2,2kW | 1435 | 8,07 | 4,64 | 2,20 | 11.010 | 59 | 146 | 1 |
| PX5644100 | PREXTUR 564 T4 3kW | 1420 | 10,7 | 6,17 | 3,00 | 15.460 | 63 | 166 | 1 |
| PX6344132 | PREXTUR 634 T4 5,5kW | 1460 | - | 10,5 | 5,50 | 22.010 | 66 | 247 | 1 |
| PX7144160 | PREXTUR 714 T4 11kW | 1455 | - | 21,2 | 11,00 | 31.500 | 70 | 355 | 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 | A1 | A2 | A3 | B1 | B2 | B3 | D | E | F |
|---|---|---|---|---|---|---|---|---|---|
| PREXTUR 314 T2 1,5kW | 241.3 | 312.6 | 205.8 | 396.5 | 259.2 | 366 | 199 | 377 | 355 |
| PREXTUR 314 T4 0,37kW | 241.3 | 312.6 | 205.8 | 396.5 | 259.2 | 366 | 199 | 377 | 355 |
| PREXTUR 354 T2 3kW | 266.2 | 351.1 | 230.7 | 441.8 | 290.9 | 411.3 | 224.3 | 418 | 395 |
| PREXTUR 354 T4 0,37kW | 266.2 | 351.1 | 230.7 | 441.8 | 290.9 | 411.3 | 224.3 | 418 | 395 |
| PREXTUR 404 T2 5,5kW | 294.3 | 394.6 | 258.8 | 493 | 326.7 | 462.5 | 253 | 464 | 438 |
| PREXTUR 404 T4 0,55kW | 294.3 | 394.6 | 258.8 | 493 | 326.7 | 462.5 | 253 | 464 | 438 |
| PREXTUR 454 T4 1,1kW | 325.4 | 442.5 | 289.9 | 549.3 | 366.2 | 518.8 | 284.3 | 523 | 485 |
| PREXTUR 504 T4 2,2kW | 356.6 | 490.7 | 321.1 | 606 | 405.9 | 575.5 | 316 | 582 | 535 |
| PREXTUR 564 T4 3kW | 394 | 548.5 | 358.5 | 674 | 453.5 | 643.5 | 354 | 650 | 608 |
| PREXTUR 634 T4 5,5kW | 437.6 | 615.9 | 402.1 | 753.3 | 509 | 722.8 | 398.3 | 710 | 675 |
| PREXTUR 714 T4 11kW | 487.5 | 692.8 | 452 | 843.7 | 572.4 | 813.2 | 448.7 | 826 | 755 |

| Model | G | J | K | L | M | N | N1 | O | P |
|---|---|---|---|---|---|---|---|---|---|
| PREXTUR 314 T2 1,5kW | 693 | 278 | 230 | 185 | 91 | 301 | 221 | 90 | 95 |
| PREXTUR 314 T4 0,37kW | 633.5 | 218.5 | 230 | 185 | 91 | 301 | 221 | 90 | 95 |
| PREXTUR 354 T2 3kW | 758.6 | 314.6 | 259 | 185 | 105 | 330 | 250 | 105 | 105 |
| PREXTUR 354 T4 0,37kW | 662.5 | 218.5 | 259 | 185 | 105 | 330 | 250 | 105 | 105 |
| PREXTUR 404 T2 5,5kW | 758.6 | 314.6 | 290 | 185 | 121 | 361 | 281 | 120 | 120 |
| PREXTUR 404 T4 0,55kW | 709.5 | 234.5 | 290 | 185 | 121 | 361 | 281 | 120 | 120 |
| PREXTUR 454 T4 1,1kW | 788 | 278 | 325 | 185 | 128 | 396 | 316 | 130 | 130 |

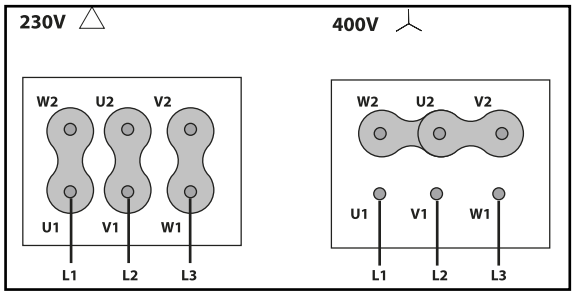
| Model | G | J | K | L | M | N | N1 | O | P |
|---|---|---|---|---|---|---|---|---|---|
| PREXTUR 504 T4 2,2kW | 860.6 | 314.6 | 361 | 185 | 146 | 432 | 352 | 147 | 146 |
| PREXTUR 564 T4 3kW | 902.6 | 314.6 | 474 | 185 | 167 | 474 | 394 | 165 | 170 |
| PREXTUR 634 T4 5,5kW | 1045.3 | 408.3 | 452 | 185 | 192 | 523 | 443 | 190 | 190 |
| PREXTUR 714 T4 11kW | 1225.15 | 531.15 | 509 | 185 | 210 | 580 | 500 | 210 | 210 |

| Model | R | R1 | aº | nºholes |
|---|---|---|---|---|
| PREXTUR 314 T2 1,5kW | 395 | 315 | 22,5º | 8x45º |
| PREXTUR 314 T4 0,37kW | 395 | 315 | 22,5º | 8x45º |
| PREXTUR 354 T2 3kW | 435 | 355 | 22,5º | 8x45º |
| PREXTUR 354 T4 0,37kW | 435 | 355 | 22,5º | 8x45º |
| PREXTUR 404 T2 5,5kW | 480 | 400 | 22,5º | 8x45º |
| PREXTUR 404 T4 0,55kW | 480 | 400 | 22,5º | 8x45º |
| PREXTUR 454 T4 1,1kW | 530 | 450 | 22,5º | 8x45º |
| PREXTUR 504 T4 2,2kW | 580 | 500 | 19º | 8x45º |
| PREXTUR 564 T4 3kW | 640 | 560 | 11,25º | 16x22,5º |
| PREXTUR 634 T4 5,5kW | 710 | 630 | 11,25º | 16x22,5º |
| PREXTUR 714 T4 11kW | 790 | 710 | 11,25º | 16x22,5º |

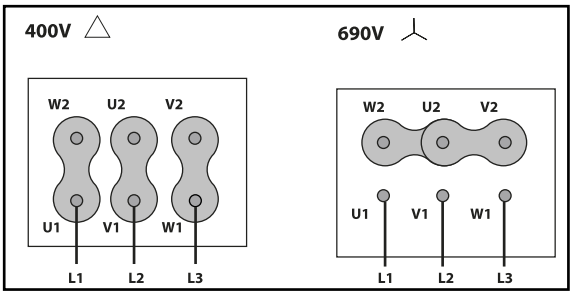
# Wiring diagram

**Wiring diagram Nº 1**

230/400V



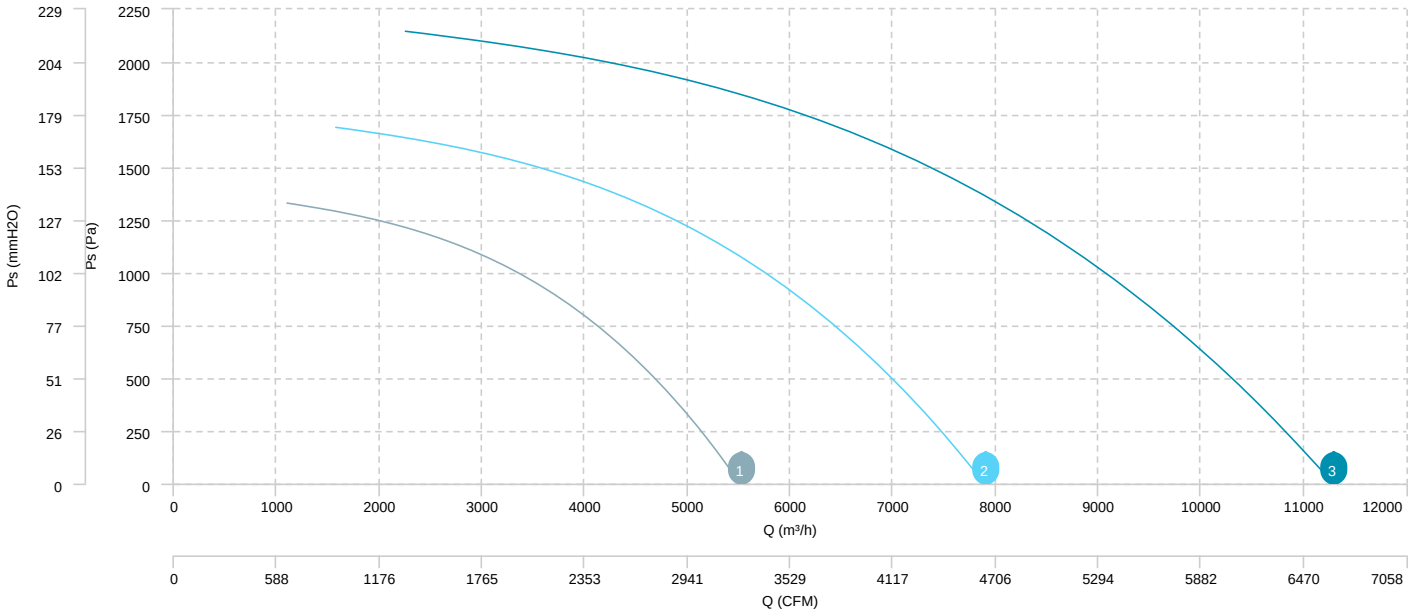

400/690V



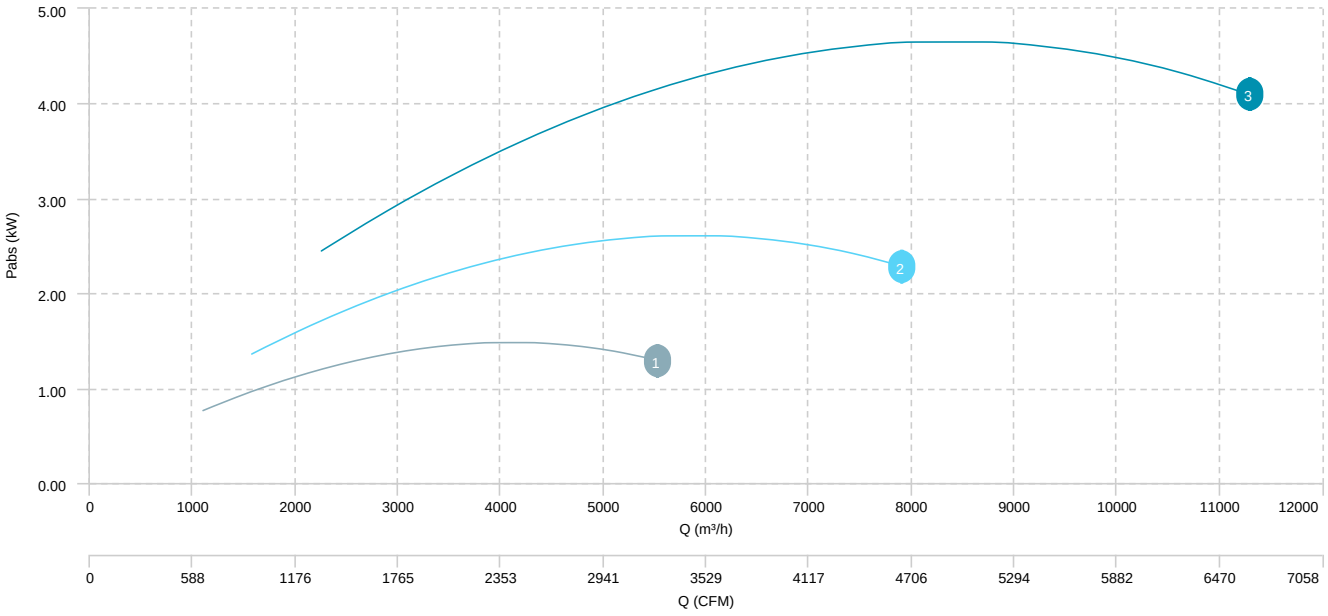
# CHARACTERISCTIC CURVE

1 PREXTUR 314 T2 1,5kW
2 PREXTUR 354 T2 3kW
3 PREXTUR 404 T2 5,5kW

## AIR FLOW - PRESSURE

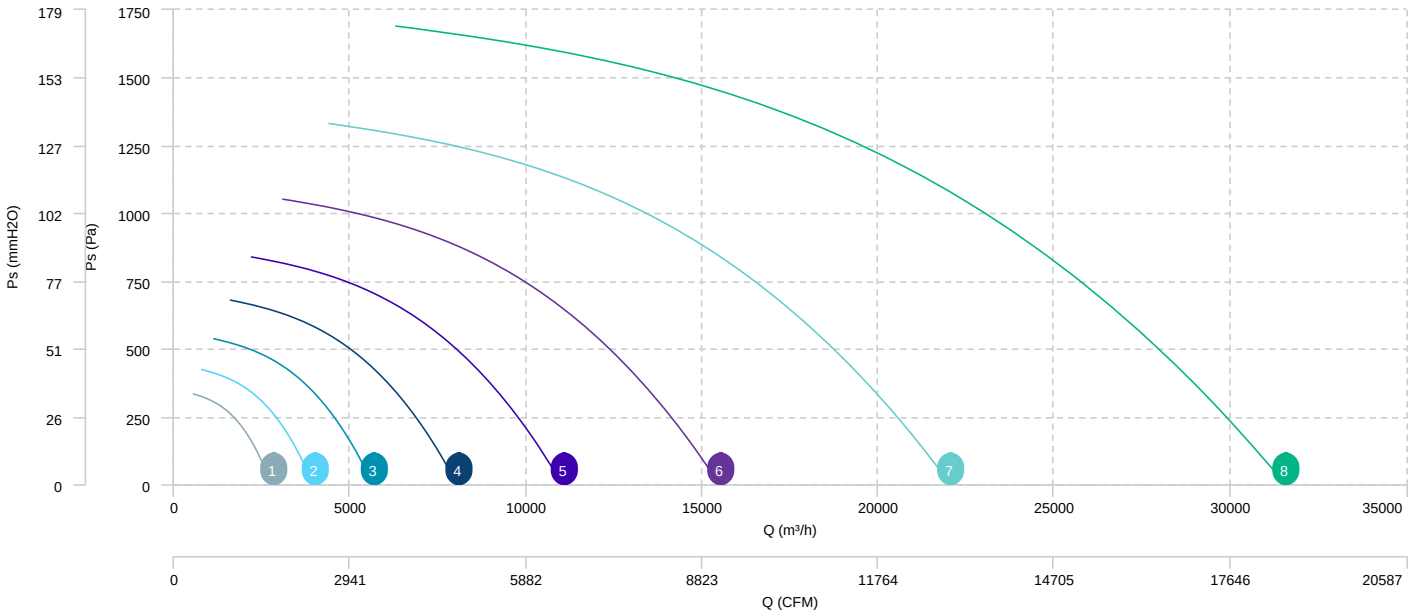



## AIR FLOW - ABSORBED POWER

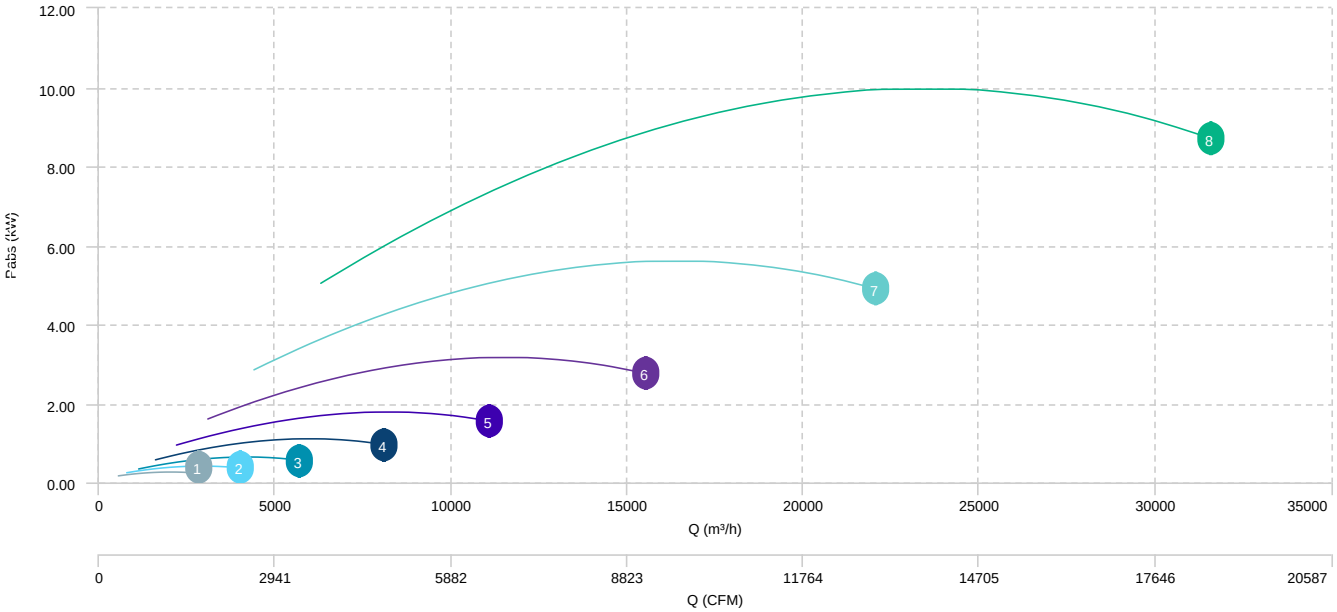


| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | PREXTUR 314 T4 0,37kW | 2 | PREXTUR 354 T4 0,37kW | 3 | PREXTUR 404 T4 0,55kW | 4 | PREXTUR 454 T4 1,1kW |
| 5 | PREXTUR 504 T4 2,2kW | 6 | PREXTUR 564 T4 3kW | 7 | PREXTUR 634 T4 5,5kW | 8 | PREXTUR 714 T4 11kW |

## AIR FLOW - PRESSURE




## AIR FLOW - ABSORBED POWER



# Sound data

## Sound / 2 poles

| Sound power Lw dB (A) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| PREXTUR 314 T2 1,5kW | Inlet | 82 | 80 | 77 | 75 | 73 | 70 | 67 | 64 | 86 |
| PREXTUR 354 T2 3kW | Inlet | 86 | 84 | 81 | 79 | 77 | 74 | 71 | 68 | 90 |
| PREXTUR 404 T2 5,5kW | Inlet | 89 | 87 | 84 | 82 | 80 | 77 | 74 | 71 | 93 |

## Sound / 4 poles

| Sound power Lw dB (A) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | Total |
| PREXTUR 314 T4 0,37kW | Inlet | 67 | 65 | 62 | 60 | 58 | 55 | 52 | 49 | 71 |
| PREXTUR 354 T4 0,37kW | Inlet | 71 | 69 | 66 | 64 | 62 | 59 | 56 | 53 | 75 |
| PREXTUR 404 T4 0,55kW | Inlet | 74 | 72 | 69 | 67 | 65 | 62 | 59 | 56 | 78 |
| PREXTUR 454 T4 1,1kW | Inlet | 78 | 76 | 73 | 71 | 69 | 66 | 63 | 60 | 82 |
| PREXTUR 504 T4 2,2kW | Inlet | 81 | 79 | 76 | 74 | 72 | 69 | 66 | 63 | 85 |
| PREXTUR 564 T4 3kW | Inlet | 85 | 83 | 80 | 78 | 76 | 73 | 70 | 67 | 89 |
| PREXTUR 634 T4 5,5kW | Inlet | 88 | 86 | 83 | 81 | 79 | 76 | 73 | 70 | 92 |
| PREXTUR 714 T4 11kW | Inlet | 92 | 90 | 87 | 85 | 83 | 80 | 77 | 74 | 96 |

## erp data

| ERP | |
|---|---|
| Fan type | Centrifugal fan backward blades with casing |
| Instalation cathegory | A |
| Efficency cathegory | Static |
| The fan has to be installed with FSC | No |

## ERP / 2 poles

| | | Maximum efficiency point data | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Model | Motor power (kW) | Max. efficiency (%) | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| PREXTUR 314 T2 1,5kW | 1,50 | 66,74 | 75,70 | 3.134,41 | 1.054,33 | 1,40 | 2865 | 1,01 |
| PREXTUR 354 T2 3kW | 3 | 68,77 | 75,14 | 4.503,45 | 1.335,56 | 2,48 | 2880 | 1,01 |
| PREXTUR 404 T2 5,5kW | 5,50 | 69,92 | 73,63 | 6.457,17 | 1.692,84 | 4,43 | 2910 | 1,02 |

## ERP / 4 poles

| | | Maximum efficiency point data | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Model | Motor power (kW) | Max. efficiency (%) | Efficiency grade (N) (N) | Air Flow (m³/h) | Ps (Pa) | Pabs (kW) | speed (rpm) | Specific ratio |
| PREXTUR 314 T4 0,37kW | 0,37 | 46,28 | 63,01 | 1.626,62 | 256,37 | 0,26 | 1370 | 1,00 |
| PREXTUR 354 T4 0,37kW | 0,37 | 53,74 | 68,43 | 2.307,44 | 327,92 | 0,40 | 1370 | 1,00 |
| PREXTUR 404 T4 0,55kW | 0,55 | 63,31 | 76,06 | 3.226,20 | 423,43 | 0,61 | 1440 | 1,00 |
| PREXTUR 454 T4 1,1kW | 1,10 | 66,54 | 76,83 | 4.575,48 | 537,40 | 1,05 | 1450 | 1,01 |
| PREXTUR 504 T4 2,2kW | 2,20 | 69,84 | 77,95 | 6.285,91 | 662,75 | 1,69 | 1435 | 1,01 |
| PREXTUR 564 T4 3kW | 3 | 69,38 | 74,88 | 8.788,12 | 834,20 | 2,99 | 1420 | 1,01 |
| PREXTUR 634 T4 5,5kW | 5,50 | 70,50 | 73,39 | 12.539,25 | 1.054,24 | 5,31 | 1460 | 1,01 |
| PREXTUR 714 T4 11kW | 11 | 72,10 | 72,37 | 17.930,39 | 1.339,91 | 9,43 | 1455 | 1,01 |