



# RECIPROCATING SERIES



Puma Screw / Scroll Air Compressor, Air Dryer, Pneumatic Tools.

**ISO-9001 / 13485**     **REACH**

# COMPANY INTRODUCTION

Founded in 1979, **PUMA** has been working continuously with its global partners and sponsors to produce all type of Air Compressors, Air Tools, Pressure Washer, Medical Equipment, Green Energy Products, Pressure Vessels, and related accessories / spare parts worldwide.

**PUMA** has designed and developed a range of low-vibration, low-noise, high performance and microcomputer controlled, frequency converted (VSD, variable-speed drive) Piston, Screw and Scroll type, Oil Free as well as Oil Lube air compressors application for Medical, Industrial, Professional, General, Food, and Chemical industries.

**PUMA** keep on researching and making innovation on our products, we also enforce our quality policy on a daily basis. PUMA also masters on the high quality products and efficient management as core strategy competitive ability.

**PUMA** have obtained the ISO 9001 / 13485, CE / REACH, UL / FDA, CSA certificates, Taiwan Excellence Awards, pressure vessels certified by ASME, many multi-countries' patents and trademark registration.

**PUMA** have marketed our products in 136 countries and kept the top sales in many countries. We believe that success is only achieved through innovation, pursuing excellence, and utilizing the most updated managerial to grow rapidly.

**PUMA** is also paying more attention to the Company Social Responsibility (C.S.R.). We adhere to our business philosophy to be cooperative and honest with our partners. Moreover, it is also our responsibility and mission to pursue social equality, having good business ethics, provide excellent products that are environment friendly and energy saving.

We like to create more prosperous future with our partners and achieve our goal "Where there is sunshine, there is **PUMA**".

**PUMA GLOBAL-WIDE MARKETING STRATEGIC ALLIANCE NETWORK**

- 20,000,000 air compressor in service.
- 136 countries distributing.
- 3,850 services centers.
- 50,000,000 air tools in service.

**World Brand Globalized Service**



**Where there is sunshine, there is **PUMA** !**



# BASIC SERIES DIRECT DRIVE

- Fully automatic operation with pressure switch and relief valve.
  - Pressure regulator for controlled working pressure.
  - Fitted with suction feet for maximum stability.
  - Air outlet with quick couplings for easy connection of compressed air devices.
  - Die cast aluminium pump with cast iron sleeve.
  - Thermal overload protection.
  - All Oil-less compressors are maintenance free (no oil change, no oil in the condensate) and can be transported both vertically and horizontally.
  - Built according to CE guidelines.
  - Can be made according to RoHS directives.
- Vollautomatischer Betrieb mit Druckschalter und Entlastungsventil.
  - Druckregler für die kontrollierte Arbeitsdruck.
  - Ausgestattet mit Saugfüßen für maximale Stabilität.
  - Luftaustritt mit Schnellkupplung für den einfachen Anschluss von Druckluft-Geräten.
  - Aluminium-Druckguss Pumpe mit gusseisernem Schaft.
  - Thermischer Überlastschutz.
  - Alle Ölfreie Kompressoren sind wartungsfrei (kein Ölwechsel, kein Öl im Kondensat) und können sowohl vertikal als auch horizontal transportiert werden.
  - Gebaut nach CE-Richtlinien.
  - Kann auch nach RoHS-Richtlinien hergestellt werden.



**OFA32C/45C**



**OFG90**



**OFS90**



**OFG140A**



**OFA140**



**OF230**



**NE130**



**NE210**

| MODEL          | HP / KW     | l/min/CFM | R.P.M. | NO. | Bar/Psi | MAX Bar/Psi | l  | Kg   | cm       | REMARK     |
|----------------|-------------|-----------|--------|-----|---------|-------------|----|------|----------|------------|
| <b>OFA32C</b>  | 0.25 / 0.18 | 32 / 1.1  | 2850   | 1   | 8 / 125 | 10 / 150    | 4  | 9.9  | 37x36x32 | Oil-less   |
| <b>OFA45C</b>  | 0.50 / 0.37 | 45 / 1.6  | 2850   | 1   | 8 / 125 | 10 / 150    | 4  | 9.9  | 37x36x32 | Oil-less   |
| <b>OFG90</b>   | 1.00 / 0.75 | 90 / 3.2  | 2850   | 1   | 8 / 125 | 10 / 150    | 6  | 15.0 | 49x21x44 | Oil-less   |
| <b>OFS90</b>   | 1.00 / 0.75 | 90 / 3.2  | 1450   | 1   | 8 / 125 | 10 / 150    | 8  | 19.0 | 41x35x37 | Oil-less   |
| <b>OFG140A</b> | 1.50 / 1.12 | 140 / 5.0 | 2850   | 1   | 8 / 125 | 10 / 150    | 5  | 17.0 | 40x40x37 | Oil-less   |
| <b>OFA140</b>  | 1.50 / 1.12 | 140 / 5.0 | 2850   | 1   | 8 / 125 | 10 / 150    | 23 | 24.0 | 57x34x58 | Oil-less   |
| <b>OF230</b>   | 2.00 / 1.50 | 230 / 8.2 | 2850   | 1   | 8 / 125 | 10 / 150    | 23 | 27.0 | 58x34x60 | Oil-less   |
| <b>NE130</b>   | 1.50 / 1.12 | 130 / 4.6 | 2850   | 1   | 8 / 125 | 10 / 150    | 11 | 18.0 | 54x26x52 | Lubricated |
| <b>NE210</b>   | 2.00 / 1.50 | 210 / 7.5 | 2850   | 1   | 8 / 125 | 10 / 150    | 23 | 27.0 | 58x31x61 | Lubricated |



# CONTRACTOR SERIES

- Sturdy, mobile compressor.
- Compact and handy design.
- Fully automatic operation with pressure switch and relief valve.
- Large tires and rubber feet ensure maximum stability and safe and easy transportation.
- Thermal overload protection.
- Pressure regulator for controlled working pressure.
- Air outlet with quick couplings for easy connection of compressed air devices.
- All Oil-less compressors are maintenance free (no oil change, no oil in the condensate) and can be transported both vertically and horizontally.
- Built according to CE guidelines.
- Can be made according to RoHS directive.

- Robuster, mobiler Kompressor.
- Kompaktes, handliches Design.
- Vollautomatischer Betrieb mit Druckschalter und Entlastungsventil.
- Große Reifen und Gummifüße sorgen für maximale Stabilität und sicheren und bequemen Transport.
- Thermischer Überlastschutz.
- Druckregler für kontrollierten Arbeitsdruck.
- Luftaustritt mit Schnellkupplung für den einfachen Anschluss von Druckluft-Geräten.
- Alle Ölfreie Kompressoren sind wartungsfrei (kein Ölwechsel, kein Öl im Kondensat) und können sowohl vertikal als auch horizontal transportiert werden.
- Gebaut nach CE-Richtlinien.
- Können auch nach RoHS-Richtlinie hergestellt werden.



**OF140Q**



**NE350Q**



**OFS180K**



**OF270N**



**NE260HQ**



**NE350K**

| MODEL   | HP / KW    | l/min/CFM  | R.P.M. | NO. | WORK Bar/Psi | MAX Bar/Psi | l  | Kg | cm       | REMARK     |
|---------|------------|------------|--------|-----|--------------|-------------|----|----|----------|------------|
| OF140Q  | 1.5 / 1.12 | 140 / 5.0  | 2850   | 1   | 8 / 125      | 10 / 150    | 5  | 27 | 45x41x38 | Oilless    |
| OF270Q  | 2.5 / 1.90 | 270 / 9.6  | 2850   | 1   | 8 / 125      | 10 / 150    | 15 | 45 | 66x54x49 | Oilless    |
| NE270Q  | 2.5 / 1.90 | 270 / 9.6  | 2850   | 1   | 8 / 125      | 10 / 150    | 15 | 50 | 66x54x49 | Lubricated |
| NE350Q  | 3.0 / 2.20 | 350 / 12.4 | 2850   | 2   | 8 / 125      | 10 / 150    | 15 | 53 | 66x54x49 | Lubricated |
| NE260HQ | 3.5 / 2.60 | 260 / 9.2  | 2850   | 2   | 10 / 150     | 12 / 175    | 15 | 84 | 67x54x48 | Lubricated |
| NE200K  | 2.0 / 1.50 | 200 / 7.1  | 2850   | 1   | 8 / 125      | 10 / 150    | 10 | 30 | 42x45x68 | Lubricated |
| NE270K  | 2.5 / 1.90 | 270 / 9.6  | 2850   | 1   | 8 / 125      | 10 / 150    | 19 | 41 | 55x52x76 | Lubricated |
| NE350K  | 3.0 / 2.20 | 350 / 12.4 | 2850   | 2   | 8 / 125      | 10 / 150    | 19 | 45 | 51x46x77 | Lubricated |
| OFS180K | 2.0 / 1.50 | 180 / 6.4  | 1450   | 2   | 8 / 125      | 10 / 150    | 20 | 43 | 50x54x78 | Oilless    |
| OF270K  | 2.5 / 1.90 | 270 / 9.6  | 2850   | 1   | 8 / 125      | 10 / 150    | 19 | 40 | 54x51x76 | Oilless    |
| OF255K  | 2.5 / 1.90 | 255 / 9.0  | 1450   | 2   | 8 / 125      | 10 / 150    | 19 | 46 | 53x52x79 | Oilless    |
| OF270N  | 2.5 / 1.90 | 270 / 9.6  | 2850   | 1   | 8 / 125      | 10 / 150    | 30 | 24 | 64x36x69 | Oilless    |
| NE350N  | 3.0 / 2.20 | 350 / 12.4 | 2850   | 2   | 8 / 125      | 10 / 150    | 46 | 58 | 70x48x67 | Lubricated |
| NE435N  | 3.5 / 2.60 | 435 / 15.4 | 2850   | 2   | 8 / 125      | 10 / 150    | 46 | 58 | 70x48x67 | Lubricated |



# D.C. DIRECT DRIVE OIL-LESS SERIES (12V/24V)

- Oil-less design allows units to be mounted in any orientation.
  - Patented pump design for the provision of lowered noise and improved cooling.
  - Deep cooling fin design on cylinder head and cylinders for high efficiency cooling.
  - Oversized motor cooling fan prevent motor from overheating.
  - Continuous duty cycle for 1/2 to 1HP models, 50% duty cycle for 1/4HP models
  - Ideal for off-road vehicles, RV, agriculture, construction, motorsports, and applications where on-board air is needed.
- Ölfreie Design ermöglicht die Montage von Geräten in beliebiger Ausrichtung.
  - Patentierte Pumpenauslegung für die Bereitstellung von abgesenktem Rauschen und verbesserter Kühlung.
  - Tiefes Kühlrippen-Design auf Zylinderkopf und Zylinder für hocheffiziente Kühlung.
  - Überdimensionierter Motor-Lüfter verhindern Motor vor Überhitzung.
  - Ununterbrochener Arbeitszyklus für 1/2 bis 1HP Modelle, 50% Einschaltdauer für 1/4HP Modelle.
  - Ideal für Off-Road-Fahrzeuge, RV, Landwirtschaft, Bau, Motorsport und Anwendungen, wo On-Board-Luft benötigt wird.



**DC02**



**DC03A**



**DC05**



**DC07/DC1**



**PD11005**



**DC0504**



**DC0706**



**DC0715**

| MODEL   | HP / KW     | l/min/CFM | R.P.M. | NO. | Bar/Psi | Bar/Psi  | l    | Kg   | cm       | 12V / 24V A |
|---------|-------------|-----------|--------|-----|---------|----------|------|------|----------|-------------|
| DC02    | 0.25 / 0.18 | 34 / 1.2  | 3000   | 1   | 8 / 115 | 10 / 150 | -    | 2.6  | 22x10x16 | 18 / 9      |
| DC03A   | 0.40 / 0.30 | 55 / 1.8  | 2750   | 1   | 8 / 115 | 10 / 150 | -    | 5.0  | 30x12x18 | 28 / 14     |
| DC05    | 0.50 / 0.37 | 66 / 2.3  | 2100   | 1   | 8 / 115 | 10 / 150 | -    | 8.0  | 28x22x24 | 32 / 16     |
| DC07    | 0.75 / 0.56 | 94 / 3.3  | 3000   | 1   | 8 / 115 | 10 / 150 | -    | 8.0  | 28x22x24 | 45 / 23     |
| DC1     | 1.00 / 0.75 | 130 / 4.6 | 3420   | 1   | 8 / 115 | 10 / 150 | -    | 9.0  | 31x20x26 | 72 / 36     |
| PD11005 | 0.25 / 0.18 | 34 / 1.2  | 3000   | 1   | 8 / 115 | 10 / 150 | 0.5  | 5.5  | 22x20x26 | 18 / 9      |
| DC0504  | 0.50 / 0.37 | 66 / 2.3  | 2100   | 1   | 8 / 115 | 10 / 150 | 4.0  | 14.0 | 38x36x32 | 32 / 16     |
| DC0706  | 0.75 / 0.56 | 94 / 3.3  | 3000   | 1   | 8 / 115 | 10 / 150 | 6.0  | 14.0 | 46x21x41 | 45 / 23     |
| DC0715  | 0.75 / 0.56 | 94 / 3.3  | 3000   | 1   | 8 / 115 | 10 / 150 | 15.0 | 17.5 | 54x20x49 | 45 / 23     |



# SINGLE STAGE BELT DRIVE SERIES

- 100% cast iron pump for better performance and durability.
- Large tires and rubber feet ensure maximum stability and safe and easy transportation.
- Fully automatic operation with pressure switch and relief valve.
- Splash type lubrication.
- Manual reset overload protection.
- Air outlet with quick couplings for easy connection of compressed air devices.
- For professional use.
- Built according to CE guidelines.

- Pumpe aus 100% Gusseisen für bessere Leistung und Haltbarkeit.
- Große Reifen und Gummifüße sorgen für maximale Stabilität und sicheren und bequemen Transport.
- Vollautomatischer Betrieb mit Druckschalter und Entlastungsventil.
- Umlaufschmierung.
- Manuell rückstellbarer Überlastschutz.
- Luftaustritt mit Schnellkupplung für den einfachen Anschluss von Druckluft-Geräten.
- Für den professionellen Einsatz.
- Gebaut nach CE-Richtlinien.



**CE30100**



**CE75270**



**CE150500**

| MODEL    | HP / KW     | l/min/CFM    | R.P.M. | NO. | WORK<br>Bar/Psi | MAX<br>Bar/Psi | l   | Kg  | cm          | REMARK |
|----------|-------------|--------------|--------|-----|-----------------|----------------|-----|-----|-------------|--------|
| CE2050   | 2.0 / 1.5   | 250 / 8.84   | 1220   | 1   | 8 / 115         | 10 / 150       | 50  | 75  | 79x33 x 68  |        |
| CE30100  | 3.0 / 2.2   | 330 / 11.66  | 1350   | 2   | 8 / 115         | 10 / 150       | 95  | 103 | 113x40 x 84 |        |
| CE40100  | 4.0 / 3.0   | 500 / 17.67  | 1220   | 2   | 8 / 115         | 10 / 150       | 95  | 121 | 113x40 x 84 |        |
| CE50200  | 5.5 / 4.0   | 620 / 21.90  | 1020   | 3   | 8 / 115         | 10 / 150       | 200 | 175 | 136x46 x 99 |        |
| CE75270  | 7.5 / 5.5   | 910 / 32.16  | 1060   | 2   | 8 / 115         | 10 / 150       | 270 | 247 | 184x48x105  |        |
| CE100500 | 10.0 / 7.5  | 1200 / 42.41 | 980    | 2   | 8 / 115         | 10 / 150       | 475 | 270 | 185x77x128  |        |
| CE150500 | 15.0 / 11.2 | 1630 / 57.60 | 900    | 3   | 8 / 115         | 10 / 150       | 475 | 311 | 185x77x128  |        |
| CE200500 | 20.0 / 15.0 | 2170 / 76.70 | 900    | 4   | 8 / 115         | 10 / 150       | 475 | 355 | 186x77x151  |        |

• Tank capacity is optional as customers request.

# TWO STAGE BELT DRIVE SERIES

- Heavy duty two stage high efficient air compressor.
- 100% cast iron pump for better performance and durability.
- Large tires and rubber feet ensure maximum stability and safe and easy transportation.
- Fully automatic operation with pressure switch and relief valve.
- For professional and industrial use.
- Built according to CE guidelines.

- Schwerer, zweistufiger, hoch effizienter Luft-Kompressor.
- Pumpe aus 100% Gusseisen für bessere Leistung und Haltbarkeit.
- Große Reifen und Gummifüße sorgen für maximale Stabilität und sicheren und bequemen Transport.
- Vollautomatischer Betrieb mit Druckschalter und Entlastungsventil.
- Für gewerbliche und industrielle Anwendung.
- Gebaut nach CE-Richtlinien.



**CT30200**



**CT50270**



**CT150500**

| MODEL    | HP / KW     | l/min/CFM    | R.P.M. | NO. | WORK<br>Bar/Psi | MAX<br>Bar/Psi | l   | Kg  | cm         | REMARK |
|----------|-------------|--------------|--------|-----|-----------------|----------------|-----|-----|------------|--------|
| CT30200  | 3.0 / 2.2   | 260 / 9.20   | 810    | 3   | 12 / 175        | 14 / 200       | 200 | 178 | 128x60x 87 |        |
| CT40200  | 4.0 / 3.0   | 360 / 12.73  | 910    | 3   | 12 / 175        | 14 / 200       | 200 | 185 | 128x60x 87 |        |
| CT50270  | 5.5 / 4.0   | 500 / 17.67  | 830    | 2   | 12 / 175        | 14 / 200       | 270 | 253 | 180x59x103 |        |
| CT100270 | 10.0 / 7.5  | 1000 / 35.34 | 830    | 3   | 12 / 175        | 14 / 200       | 270 | 270 | 180x59x103 |        |
| CT150500 | 15.0 / 11.2 | 1500 / 53.00 | 830    | 4   | 12 / 175        | 14 / 200       | 475 | 355 | 186x77x151 |        |

● Tank capacity is optional as customers request.



# ENGINE TYPE SERIES

- PUMA Engine type series ranges from portable extremely lightweight air compressors for gardening to large compressors for professional and industrial use.
- Fully automatic operation with idling device and unloading valve.
- Air outlet with quick couplings for easy connection of compressed air devices.
- DG1003U & DG1004Q are fitted with Subaru petrol engines; Compressors above 3HP are fitted with Honda petrol engines.

- Die PUMA Motortyp-Serie reicht von extrem leichten und tragbaren Luftkompressoren für Gartenanwendungen bis zu großen Kompressoren für professionelle und industrielle Anwendungen.
- Vollautomatischer Betrieb mit Leerlaufschaltung und Ablassventil.
- Luftaustritt mit Schnellkupplung für den einfachen Anschluss von Druckluft-Geräten.
- DG1003U sind mit Subaru Benzinmotoren; Kompressoren oben 3HP sind mit Honda Benzinmotoren.



**DG1003U**



**CE5532G**



**DG5516HP**



**CE5576G**



**CE3020G**



**CE6036D**



**CT5536G**

| MODEL    | HP  | l/min/CFM  | R.P.M. | NO. | WORK Bar/Psi | MAX Bar/Psi | l  | Kg  | cm          | REMARK               |
|----------|-----|------------|--------|-----|--------------|-------------|----|-----|-------------|----------------------|
| DG1003U  | 1.1 | 140 / 5.0  | 3100   | 1   | 8 / 125      | 10 / 150    | 3  | 16  | 50x34x 46   | Oilless, gasoline    |
| DG5516HP | 5.5 | 338 / 11.9 | 1200   | 1   | 8 / 125      | 10 / 150    | 16 | 52  | 52x60x 48   | Lubricated, gasoline |
| CE3020G  | 3.0 | 300 / 10.6 | 1540   | 1   | 8 / 125      | 10 / 150    | 20 | 54  | 66x64 x100  | Lubricated, gasoline |
| CE5532G  | 5.5 | 480 / 17.0 | 1200   | 2   | 8 / 125      | 10 / 150    | 32 | 84  | 100x48 x 65 | Lubricated, gasoline |
| CE5576G  | 5.5 | 480 / 17.0 | 1200   | 2   | 8 / 125      | 10 / 150    | 76 | 93  | 93x38 x 80  | Lubricated, gasoline |
| CE9036G  | 9.0 | 720 / 25.4 | 1200   | 3   | 8 / 125      | 10 / 150    | 36 | 94  | 109x49 x 77 | Lubricated, gasoline |
| CE9076G  | 9.0 | 720 / 25.4 | 1200   | 3   | 8 / 125      | 10 / 150    | 76 | 101 | 93x38 x 80  | Lubricated, gasoline |
| CT5536G  | 5.5 | 330 / 11.6 | 1030   | 3   | 12 / 175     | 14 / 200    | 36 | 90  | 109x48 x 65 | Lubricated, gasoline |
| CT9036G  | 9.0 | 480 / 17.0 | 1200   | 3   | 12 / 175     | 14 / 200    | 36 | 96  | 109x49 x 77 | Lubricated, gasoline |
| CE6036D  | 6.0 | 480 / 17.0 | 1200   | 2   | 8 / 125      | 10 / 150    | 36 | 87  | 109x49 x 77 | Lubricated, diesel   |

● Tank capacity is optional as customers request.



# SILENT BELT TYPE SERIES

- High quality Industrial piston air compressor.
- Noise reduction cabinet.
- Using of air convection to obtain automatic cooling.
- All models are equipped with automatic device for easy operation.
- Oil-less and oil-lube available.
- Oil-less type is with compact after cooler.
- Built according to CE guidelines.

- Qualitativ hochwertiger Industrie-Kolben-Kompressor.
- Lärmdämmendes Gehäuse.
- Automatische Kühlung durch Luft-Konvektion.
- Alle Modelle sind zur einfachen Bedienung mit einer Automatik ausgestattet.
- Ölfreier und geölter Typ verfügbar.
- Ölfreier Typ ist mit kompakten Nachkühler.
- Gebaut nach CE-Richtlinien.



**PP2/10**

## SILENT FEATURES



| MODEL               | HP / KW      | l/min/CFM   | R.P.M. | NO. | WORK Bar/psi | MAX Bar/psi | l | kg  | cm         | REMARK |
|---------------------|--------------|-------------|--------|-----|--------------|-------------|---|-----|------------|--------|
| <b>Single Stage</b> |              |             |        |     |              |             |   |     |            |        |
| PP1                 | 1.0 / 0.75   | 160 / 5.6   | 830    | 2   | 8 / 115      | 10 / 150    | 4 | 142 | 65x61x 95  |        |
| PP2                 | 2.0 / 1.50   | 255 / 9.0   | 830    | 2   | 8 / 115      | 10 / 150    | 4 | 147 | 65x61x 95  |        |
| PP3                 | 3.0 / 2.20   | 395 / 14.0  | 650    | 2   | 8 / 115      | 10 / 150    | 4 | 210 | 80x74x111  |        |
| PP5                 | 5.0 / 3.75   | 640 / 22.6  | 700    | 3   | 8 / 115      | 10 / 150    | 4 | 250 | 80x74x111  |        |
| PP7A                | 7.5 / 5.60   | 940 / 33.2  | 750    | 2   | 8 / 115      | 10 / 150    | 5 | 340 | 94x80x126  |        |
| PP10                | 10.0 / 7.50  | 1300 / 45.9 | 690    | 3   | 8 / 115      | 10 / 150    | 5 | 390 | 94x80x126  |        |
| PP15                | 15.0 / 11.25 | 1860 / 65.7 | 680    | 3   | 8 / 115      | 10 / 150    | 5 | 750 | 120x95x160 |        |
| <b>Two Stage</b>    |              |             |        |     |              |             |   |     |            |        |
| PP3T                | 3.0 / 2.20   | 250 / 8.8   | 850    | 2   | 12 / 175     | 16 / 225    | 4 | 215 | 80x74x111  |        |
| PP5T                | 5.0 / 3.75   | 420 / 14.8  | 700    | 3   | 12 / 175     | 16 / 225    | 4 | 255 | 80x74x111  |        |
| PP10T               | 10.0 / 7.50  | 860 / 30.4  | 680    | 3   | 12 / 175     | 16 / 225    | 5 | 395 | 94x80x126  |        |

- Tank cap. & Two stage. is optional at customers request.
- PP3 and above come with auto/semi-auto and low oil switch.
- A:0.5 HP



**BFS2**



**BFS5**



**Free stand tank  
is not included**

| MODEL | HP / KW     | l/min/CFM | R.P.M. | NO. | WORK Bar/Psi | MAX Bar/Psi | Optional tank (Not included) l | Kg  | cm        | dB | REMARK  |
|-------|-------------|-----------|--------|-----|--------------|-------------|--------------------------------|-----|-----------|----|---------|
| BFS2  | 2.0 / 1.50  | 275       | 830    | 2   | 8 / 125      | 10 / 150    | 88                             | 157 | 58x62x 94 | 68 | Oilless |
| BFS5  | 5.0 / 3.75  | 700       | 810    | 2   | 8 / 125      | 10 / 150    | 110                            | 227 | 71x74x110 | 70 | Oilless |
| BFS10 | 10.0 / 7.50 | 1330      | 820    | 3   | 8 / 125      | 10 / 150    | 228                            | 350 | 90x79x128 | 72 | Oilless |

- Free stand tank is necessary for application.



# OIL LESS PUMP SERIES



**MC02/04**



**MG10**



**WD20**



**BF20/BF50**



**LG25**



**PF40**



**BF100**

|  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Model                                                                             | Volt/Ph                                                                           | HP / KW                                                                           | NO.                                                                               | ℓ/min                                                                             | R.P.M.                                                                            | Kg/cm <sup>2</sup> /psi                                                           | dBA                                                                               | Kg                                                                                 | cm                                                                                  | REMARK                                                                              |
| MC02                                                                              | 230 / 1                                                                           | 0.25 / 0.18                                                                       | 1                                                                                 | 32                                                                                | 2850                                                                              | 8 / 115                                                                           | 65                                                                                | 5.0                                                                                | 24x13x21                                                                            |                                                                                     |
| MC04                                                                              | 230 / 1                                                                           | 0.50 / 0.37                                                                       | 1                                                                                 | 45                                                                                | 2850                                                                              | 8 / 115                                                                           | 68                                                                                | 5.2                                                                                | 28x16x25                                                                            |                                                                                     |
| MG10                                                                              | 230 / 1                                                                           | 1.00 / 0.75                                                                       | 1                                                                                 | 89                                                                                | 2850                                                                              | 8 / 115                                                                           | 73                                                                                | 8.0                                                                                | 28x18x25                                                                            |                                                                                     |
| WS10                                                                              | 230 / 1                                                                           | 1.00 / 0.75                                                                       | 1                                                                                 | 90                                                                                | 1420                                                                              | 8 / 115                                                                           | 61                                                                                | 10.0                                                                               | 30x22x23                                                                            |                                                                                     |
| WD20                                                                              | 230 / 1                                                                           | 2.00 / 1.50                                                                       | 2                                                                                 | 181                                                                               | 1420                                                                              | 8 / 115                                                                           | 63                                                                                | 14.0                                                                               | 33x22x23                                                                            |                                                                                     |
| LG25                                                                              | 230 / 1                                                                           | 1.50 / 1.10                                                                       | 1                                                                                 | 136                                                                               | 1420                                                                              | 8 / 115                                                                           | 74                                                                                | 18.0                                                                               | 42x36x34                                                                            |                                                                                     |
| PF20                                                                              | 230 / 1                                                                           | 1.50 / 1.10                                                                       | 1                                                                                 | 145                                                                               | 1420                                                                              | 8 / 115                                                                           | 75                                                                                | 19.0                                                                               | 42x30x33                                                                            |                                                                                     |
| PF40                                                                              | 230 / 1                                                                           | 3.00 / 2.20                                                                       | 2                                                                                 | 248                                                                               | 1420                                                                              | 8 / 115                                                                           | 78                                                                                | 28.0                                                                               | 42x36x33                                                                            |                                                                                     |
| BF20                                                                              | 230 / 1                                                                           | 2.00 / 1.50                                                                       | 2                                                                                 | 275                                                                               | 830                                                                               | 8 / 115                                                                           | 80                                                                                | 23.0                                                                               | 43x28x43                                                                            |                                                                                     |
| BF50                                                                              | 230 / 3                                                                           | 5.00 / 3.75                                                                       | 2                                                                                 | 700                                                                               | 810                                                                               | 8 / 115                                                                           | 82                                                                                | 56.0                                                                               | 66x41x61                                                                            |                                                                                     |
| BF100                                                                             | 230 / 3                                                                           | 10.00 / 7.50                                                                      | 3                                                                                 | 1330                                                                              | 820                                                                               | 8 / 115                                                                           | 86                                                                                | 85.0                                                                               | 76x56x74                                                                            |                                                                                     |

## PROFESSIONAL / INDUSTRIAL PUMP

### Two Stage Belt Drive Oil Lube



**TH50**



**TH100**



**TH300**

|                     |          |
|---------------------|----------|
| H.P. / KW           | 5 / 3.75 |
| Displ. (ℓ/min) 50Hz | 625      |
| R.P.M.              | 610      |
| No. of Cyl.         | 2        |
| Max. P. (bar/psi)   | 16 / 230 |
| Work. P. (bar/psi)  | 12 / 175 |
| Weight (kg)         | 66       |
| Dimension (cm)      | 46x50x60 |

|                     |          |
|---------------------|----------|
| H.P. / KW           | 10 / 7.5 |
| Displ. (ℓ/min) 50Hz | 980      |
| R.P.M.              | 630      |
| No. of Cyl.         | 2        |
| Max. P. (bar/psi)   | 16 / 230 |
| Work. P. (bar/psi)  | 12 / 175 |
| Weight (kg)         | 91       |
| Dimension (cm)      | 70x52x57 |

|                     |           |
|---------------------|-----------|
| H.P. / KW           | 30 / 22.5 |
| Displ. (ℓ/min) 50Hz | 3000      |
| R.P.M.              | 680       |
| No. of Cyl.         | 4         |
| Max. PSI.           | 16 / 230  |
| Weight (kg)         | 12 / 175  |
| Dimension (cm)      | 210       |
|                     | 112x68x80 |



## Single Stage Belt Drive Oil Lube



**CE20**

|                    |          |
|--------------------|----------|
| H.P. / KW          | 2 / 1.5  |
| Displ. (ℓ/min)     | 250      |
| R.P.M.             | 1220     |
| No. of Cyl.        | 1        |
| Max. P. (bar/psi)  | 8 / 125  |
| Work. P. (bar/psi) | 10 / 150 |
| Weight (kg)        | 15       |
| Dimension (cm)     | 30x26x40 |



**CE75**

|                    |           |
|--------------------|-----------|
| H.P. / KW          | 7.5 / 5.6 |
| Displ. (ℓ/min)     | 910       |
| R.P.M.             | 1060      |
| No. of Cyl.        | 2         |
| Max. P. (bar/psi)  | 8 / 125   |
| Work. P. (bar/psi) | 10 / 150  |
| Weight (kg)        | 56        |
| Dimension (cm)     | 65x40x60  |



**CE30**

|                    |          |
|--------------------|----------|
| H.P. / KW          | 3 / 2.2  |
| Displ. (ℓ/min)     | 330      |
| R.P.M.             | 1350     |
| No. of Cyl.        | 2        |
| Max. P. (bar/psi)  | 8 / 125  |
| Work. P. (bar/psi) | 10 / 150 |
| Weight (kg)        | 23       |
| Dimension (cm)     | 41x35x35 |



**CE100**

|                    |          |
|--------------------|----------|
| H.P. / KW          | 10 / 7.5 |
| Displ. (ℓ/min)     | 1200     |
| R.P.M.             | 980      |
| No. of Cyl.        | 2        |
| Max. P. (bar/psi)  | 8 / 125  |
| Work. P. (bar/psi) | 10 / 150 |
| Weight (kg)        | 59       |
| Dimension (cm)     | 65x40x60 |



**CE40**

|                    |          |
|--------------------|----------|
| H.P. / KW          | 4 / 3.0  |
| Displ. (ℓ/min)     | 500      |
| R.P.M.             | 1220     |
| No. of Cyl.        | 2        |
| Max. P. (bar/psi)  | 8 / 125  |
| Work. P. (bar/psi) | 10 / 150 |
| Weight (kg)        | 24       |
| Dimension (cm)     | 41x35x35 |



**CE150**

|                    |           |
|--------------------|-----------|
| H.P. / KW          | 15 / 11.2 |
| Displ. (ℓ/min)     | 1630      |
| R.P.M.             | 900       |
| No. of Cyl.        | 3         |
| Max. P. (bar/psi)  | 8 / 125   |
| Work. P. (bar/psi) | 10 / 150  |
| Weight (kg)        | 91        |
| Dimension (cm)     | 80x52x70  |



**CE50**

|                    |          |
|--------------------|----------|
| H.P. / KW          | 5 / 3.75 |
| Displ. (ℓ/min)     | 620      |
| R.P.M.             | 1020     |
| No. of Cyl.        | 3        |
| Max. P. (bar/psi)  | 8 / 125  |
| Work. P. (bar/psi) | 10 / 150 |
| Weight (kg)        | 31       |
| Dimension (cm)     | 53x36x46 |



**CE200**

|                    |          |
|--------------------|----------|
| H.P. / KW          | 20 / 15  |
| Displ. (ℓ/min)     | 2170     |
| R.P.M.             | 900      |
| No. of Cyl.        | 4        |
| Max. P. (bar/psi)  | 8 / 125  |
| Work. P. (bar/psi) | 10 / 150 |
| Weight (kg)        | 130      |
| Dimension (cm)     | 80x52x70 |

## Two Stage Belt Drive Oil Lube



**CT30**

|                   |          |
|-------------------|----------|
| H.P. / KW         | 3 / 2.2  |
| Displ. (ℓ/min)    | 260      |
| R.P.M.            | 810      |
| No. of Cyl.       | 3        |
| Max. P. (bar/psi) | 14 / 200 |
| Weight (kg)       | 31       |
| Dimension (cm)    | 53x38x46 |



**CT50**

|                   |          |
|-------------------|----------|
| H.P. / KW         | 5 / 3.75 |
| Displ. (ℓ/min)    | 500      |
| R.P.M.            | 830      |
| No. of Cyl.       | 2        |
| Max. P. (bar/psi) | 14 / 200 |
| Weight (kg)       | 56       |
| Dimension (cm)    | 65x40x60 |



**CT40**

|                   |          |
|-------------------|----------|
| H.P. / KW         | 4 / 3.0  |
| Displ. (ℓ/min)    | 360      |
| R.P.M.            | 910      |
| No. of Cyl.       | 3        |
| Max. P. (bar/psi) | 14 / 200 |
| Weight (kg)       | 33       |
| Dimension (cm)    | 53x38x46 |



**CT100**

|                   |          |
|-------------------|----------|
| H.P. / KW         | 10 / 7.5 |
| Displ. (ℓ/min)    | 1000     |
| R.P.M.            | 830      |
| No. of Cyl.       | 3        |
| Max. P. (bar/psi) | 14 / 200 |
| Weight (kg)       | 95       |
| Dimension (cm)    | 80x52x70 |



# AIR TANK SERIES & FILTER

- Portable with handle for easy transport.
- Sub tank is suitable for modified automobiles, roadside assistance service and compressor system upgrade.
- Bead Seater is used for seating all tires up of heavy duty vehicles including ATV, Tractor, Cars, Truck, and More.

- Tragbar mit Griff für einfachen Transport.
- der Untertank eignet sich für modifizierte Automobile, Pannenhilfe und Kompressor system aktualisierung.
- Reifen Bead Sitzer wird verwendet, um alle Reifen von Schwerlastfahrzeugen einschließlich ATV, Traktor, Autos, LKW und mehr.

## SUB TANK



**AST-20**



**AST-36S**

## BEAD SEATER



**BS-20**



**BST-38AL**

## AIR TANK



**30~1000L**

| MODEL  | CAPACITY |     | HP     |
|--------|----------|-----|--------|
|        | Liter    | Gal |        |
| V-88   | 88       | 25  | 1~3    |
| V-110  | 110      | 30  | 5      |
| V-155  | 115      | 40  | 7.5    |
| V-228  | 228      | 60  | 5~10   |
| V-304  | 304      | 80  | 10~20  |
| V-360  | 360      | 95  | 10~20  |
| V-456  | 456      | 120 | 20~30  |
| V-660  | 660      | 175 | 30~40  |
| V-1000 | 1000     | 265 | 50~75  |
| V-1260 | 1260     | 330 | 75~100 |
| V-1500 | 1500     | 395 | 100    |
| V-2000 | 2000     | 525 | 150    |

\* Standard working pressure:10bar

## HIGH EFFICIENCY FILTER

Dust Elimination / Deodorant / De-Hydro



**TLP70 TLP33 TLP9**

- **GRADE Q**  
5 micron  
Fiberglass
- **GRADE P**  
1 micron  
0.5 mg/m<sup>3</sup>  
Borosilicate fiber
- **GRADE H**  
0.01 micron  
0.01 mg/m<sup>3</sup>  
Borosilicate fiber
- **GRADE C**  
0.003 mg/m<sup>3</sup>  
Activated Carbon
- **GRADE X**  
0.001 mg/m<sup>3</sup>  
Activated Carbon



■ **AA205002**  
1/4" F.R.L unit  
■ **AA205003**  
3/8" F.R.L unit



■ **AA215002**  
1/2" F.R.L unit  
■ **AA215003**  
3/8" F.R.L unit



■ **AA225102**  
1/4" High pressure F.R.L unit  
■ **AA225103**  
3/8" High pressure F.R.L unit  
■ **AA225104**  
1/2" High pressure F.R.L unit



■ **AA2251FR02**  
1/4" High pressure Regulator/Filter  
■ **AA2251FR03**  
3/8" High pressure Regulator/Filter  
■ **AA2251FR04**  
1/2" High pressure Regulator/Filter



■ **AA235102**  
1/4" High pressure F.R.L unit  
■ **AA235103**  
3/8" High pressure F.R.L unit  
■ **AA235104**  
1/2" High pressure F.R.L unit



■ **AA2351R02**  
1/4" High pressure Regulator  
■ **AA2351R03**  
3/8" High pressure Regulator  
■ **AA2351R04**  
1/2" High pressure Regulator



■ **AA2150R02**  
1/4" Regulator  
■ **AA2150R03**  
3/8" Regulator



■ **AA2040A**  
1/2" F.R.L unit  
■ **AA2060A**  
3/4" F.R.L unit



■ **AA2080A**  
1" F.R.L unit



| Model No.         | Port Size | Range Of Pressure (kg/cm <sup>2</sup> ) | Standard Filter Element (μm) | Max. Flow Rate (l/min) | Temp. Range | Standard Drain  | Lubricator oil | Weight kg | Packing Pcs/Ctn/G.W/Cuft (kg) | Lubricator Bowl Capacity (cc) |
|-------------------|-----------|-----------------------------------------|------------------------------|------------------------|-------------|-----------------|----------------|-----------|-------------------------------|-------------------------------|
| <b>AA205002</b>   | 1/4"      | 0.5~8.5                                 | 5                            | 1900                   | -5~60°C     | Semi-auto drain | ISO VG-32      | 0.72      | 40/Ctn/34 kg/3.68'            | 55                            |
| <b>AA205003</b>   | 3/8"      | 0.5~8.5                                 | 5                            | 2100                   | -5~60°C     | Semi-auto drain | ISO VG-32      | 0.72      | 40/Ctn/34 kg/3.68'            | 55                            |
| <b>AA215002</b>   | 1/4"      | 0.5~8.5                                 | 5                            | 1900                   | -5~60°C     | Semi-auto drain | ISO VG-32      | 1.00      | 30/Ctn/33.5 kg/3.68'          | 55                            |
| <b>AA215003</b>   | 3/8"      | 0.5~8.5                                 | 5                            | 2100                   | -5~60°C     | Semi-auto drain | ISO VG-32      | 1.00      | 30/Ctn/33.5 kg/3.68'          | 55                            |
| <b>AA2251FR02</b> | 1/4"      | 1.0~15.0                                | 40                           | 2500                   | -5~60°C     | Semi-auto drain | ISO VG-32      | 1.52      | 20/Ctn/35 kg/3.68'            | 200                           |
| <b>AA2251FR03</b> | 3/8"      | 1.0~15.0                                | 40                           | 2700                   | -5~60°C     | Semi-auto drain | ISO VG-32      | 1.52      | 20/Ctn/35 kg/3.68'            | 200                           |
| <b>AA2251FR04</b> | 1/2"      | 1.0~15.0                                | 40                           | 3200                   | -5~60°C     | Semi-auto drain | ISO VG-32      | 1.52      | 20/Ctn/35 kg/3.68'            | 200                           |
| <b>AA2351R02</b>  | 1/4"      | 1.0~15.0                                | 40                           | 2500                   | -5~60°C     | Semi-auto drain | ISO VG-32      | 1.82      | 12/Ctn/28 kg/3.68'            | 200                           |
| <b>AA2351R03</b>  | 3/8"      | 1.0~15.0                                | 40                           | 2700                   | -5~60°C     | Semi-auto drain | ISO VG-32      | 1.82      | 12/Ctn/28 kg/3.68'            | 200                           |
| <b>AA2351R04</b>  | 1/2"      | 1.0~15.0                                | 40                           | 3200                   | -5~60°C     | Semi-auto drain | ISO VG-32      | 1.82      | 12/Ctn/28 kg/3.68'            | 200                           |
| <b>AA2040A</b>    | 1/2"      | 0.5~8.5                                 | 30                           | 4000                   | -5~60°C     | Semi-auto drain | ISO VG-32      | 2.00      | 4/Ctn/11.5 kg/0.8'            | 130                           |
| <b>AA2060A</b>    | 3/4"      | 0.5~8.5                                 | 30                           | 4500                   | -5~60°C     | Semi-auto drain | ISO VG-32      | 2.00      | 4/Ctn/11.5 kg/0.8'            | 130                           |
| <b>AA2080A</b>    | 1"        | 0.5~8.5                                 | 30                           | 5000                   | -5~60°C     | Semi-auto drain | ISO VG-32      | 4.00      | 4/Ctn/18.5 kg/2.4'            | 130                           |

(Standard unit contains semi-auto-drain function when operating pressure below 0.5kg/cm<sup>2</sup>.)



| ITEM                                                                                                             | PARTS NO.                                 | SIZE                                     | COMPATIBLE                                |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------|-------------------------------------------|
| <b>Pressure Switch</b><br>      | <b>2E21023</b>                            | 8kg/cm <sup>2</sup> 4 Ports ON/OFF       | Direct Type                               |
|                                                                                                                  | <b>2E21024</b>                            | 8kg/cm <sup>2</sup> ON/OFF 1/4"PT Female | Direct / Silent Type                      |
|                                                                                                                  | <b>2E21008X</b>                           | 12kg/cm <sup>2</sup> 1/4"PT Male         | Belt-Drive Two Stage                      |
| <b>Pressure Gauge</b><br>       | <b>2D1220D14KS</b>                        | 2"×14kg Back Mount                       | Direct Type                               |
|                                                                                                                  | <b>2D1225V10K</b>                         | 2.5"×10kg Bottom Mount                   | Belt-Drive Type                           |
|                                                                                                                  | <b>2D1225B10K</b>                         | 2.5"×10kg Back Mount W/Flange            | Silent Type                               |
|                                                                                                                  | <b>2D1225B14K</b>                         | 2.5"×14kg Back Mount W/Flange            | Silent Type For H. Pressure               |
| <b>Safety Valve</b><br>         | <b>2406021T</b>                           | 1/4"PT×11kg                              | Direct / Belt-Drive Type Under 4HP        |
|                                                                                                                  | <b>2406002</b>                            | 3/8"PT×11kg                              | Belt-Drive Type 5HP                       |
|                                                                                                                  | <b>2406003</b>                            | 3/4"PT×11kg                              | Belt-Drive Type Over 7.5HP                |
| <b>Unloading Valve</b><br>      | <b>2407001</b>                            | 1/2"PT×8kg                               | Belt-Drive Type (Semi-Auto)               |
|                                                                                                                  | <b>2407002</b>                            | 1/2"PT×12kg                              | Belt-Drive Type (H. Pressure / Semi-Auto) |
| <b>Relief Valve</b><br>         | <b>2413001</b>                            | 1/4"PT With Hose cock                    | Common Ball Valve                         |
|                                                                                                                  | <b>2413007</b>                            | 1/2"PT Female/Male                       |                                           |
|                                                                                                                  | <b>2413008</b>                            | 3/4"PT Female/Male                       |                                           |
| <b>Oil Gauge</b><br>            | <b>2303003A</b>                           | 1/2PS                                    | Direct Type                               |
|                                                                                                                  | <b>2303004A</b>                           | 3/4PS                                    | Belt-Drive Type 2HP~15HP                  |
|                                                                                                                  | <b>2303023B</b>                           | 1 PS                                     | Belt-Drive Type Over 20HP                 |
| <b>Check Valve</b><br>        | <b>2414025</b>                            | 1/2"PT Vertical                          | Direct / Belt-Drive Type Under 3HP        |
|                                                                                                                  | <b>2414031</b>                            | 3/4"PT Vertical                          | Belt-Drive Type 4HP & 10HP                |
|                                                                                                                  | <b>2414032</b>                            | 1"PT Vertical                            | Belt-Drive Type 15HP                      |
|                                                                                                                  | <b>2414020</b>                            | 1.5"PT Vertical                          | Belt-Drive Type 20HP                      |
| <b>Air Filter Cover</b><br>   | <b>2140039</b>                            | 1/2"PT Metal                             | Direct Type Under                         |
|                                                                                                                  | <b>2140040</b>                            | 3/4"PT Metal                             | Belt-Drive Type 4HP                       |
|                                                                                                                  | <b>2140041</b>                            | 1"PT Metal                               | Belt-Drive Type 5HP~20HP                  |
| <b>Air Filter</b><br>         | <b>2142027</b>                            | φ65×48L                                  | 1/2"PT & 3/4"PT                           |
|                                                                                                                  | <b>2142009</b>                            | φ109×54.5L                               | 1"PT                                      |
| <b>Drain Valve</b><br>        | <b>2405011</b>                            | 1/4"PT                                   | Direct & Belt-Drive Type Under 3HP        |
|                                                                                                                  | <b>2413007</b>                            | 1/2"PT With Handle                       | Belt-Drive Type Over 5HP                  |
| <b>Tank Wheel</b><br>         | <b>2402002</b>                            | 4.5"×φ1/2" Rubber                        | Belt-Drive Type 2HP & 3HP                 |
|                                                                                                                  | <b>2402003</b>                            | 7"×φ3/4" Rubber                          | Belt-Drive Type 5HP & 7.5HP               |
|                                                                                                                  | <b>2402004</b>                            | 8"×φ7/8" Metal                           | Belt-Drive Type 10 & 15HP                 |
|                                                                                                                  | <b>2402009</b>                            | 10"×φ7/8" Metal                          | Belt-Drive Type 20HP                      |
| <b>Vibration Isolator</b><br> | <b>2439006</b>                            | M10                                      | Silent Type 1HP~5HP                       |
|                                                                                                                  | <b>2439007</b>                            | M12                                      | Silent Type 7.5HP & 10HP                  |
| <b>Magnetic Switch</b><br>    | Order by HP / Voltage / Frequency / Phase |                                          |                                           |
| <b>V-Belt</b><br>             | Order by Models                           |                                          |                                           |

● **PUMA** products are durable, easy to maintain, also breakdowns drawings and price lists for spare parts of all models are provided for repair use.



## Flow Conversion Chart

| LPM<br>l/min | CMH<br>m³/hr | CFM<br>ft³/min | GPM(U.K.)<br>Gal/min | GPM(U.S.A.)<br>Gal/min |
|--------------|--------------|----------------|----------------------|------------------------|
| 1            | 0.06         | 0.03532        | 0.220                | 0.2642                 |
| 16.667       | 1            | 0.5887         | 3.667                | 4.404                  |
| 28.3153      | 1.699        | 1              | 6.229                | 7.481                  |
| 4.5455       | 0.2727       | 0.1605         | 1                    | 1.2011                 |
| 3.785        | 0.2271       | 0.1337         | 0.8325               | 1                      |

## Conversion Factors

|                         |                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------|
| <b>1. TORQUE</b>        | 1 ft-lb = 1.356 nm = 0.138 kg-m<br>1 nm = 0.738ft-lb = 0.102 kg-m                   |
| <b>2. LENGTH</b>        | 1 m = 39.371 in = 3.281 ft<br>1 ft = 12 in = 0.305 m<br>1 in = 25.4mm               |
| <b>3. WEIGHT</b>        | 1 lb = 0.454 kg = 16 oz<br>1 kg = 2.205 lb = 35.274 oz<br>1 oz = 28.35 g = 0.063 lb |
| <b>4. POWER</b>         | 1 kw = 1.341 hp<br>1 hp = 0.746 kw<br>1 CV = 1 PS = 0.735 kw                        |
| <b>5. CONCENTRATION</b> | 1 mg/m³ = 0.001 mg/L = 0.001 ppm<br>1 ppm = 1000 mg/m³ = 1 mg/L                     |

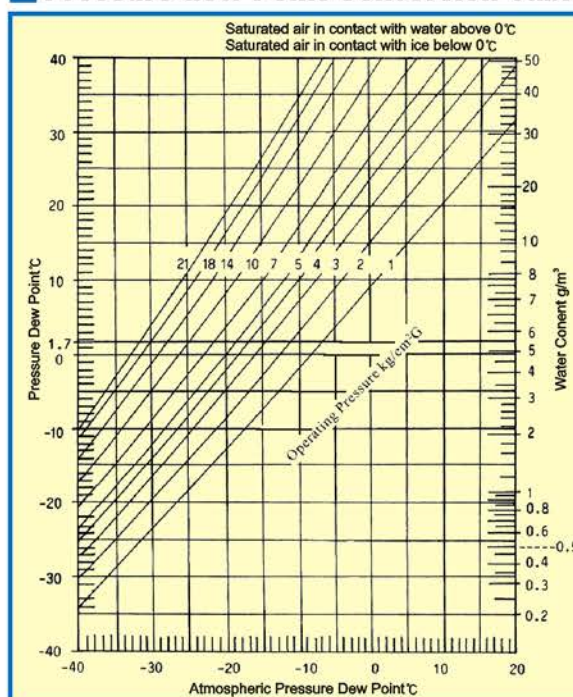
## Vacuum Conversion Chart

| mbar                  | Pa<br>(N/m²) | Torr<br>(mmHg)        | mmAq<br>(H₂O) | atm                   |
|-----------------------|--------------|-----------------------|---------------|-----------------------|
| 1                     | 100          | 0.75                  | 10.2          | $9.87 \times 10^{-4}$ |
| 0.01                  | 1            | $7.5 \times 10^{-3}$  | 0.102         | $9.87 \times 10^{-6}$ |
| 1.33                  | 133          | 1                     | 13.6          | $1.32 \times 10^{-3}$ |
| $9.81 \times 10^{-2}$ | 9.81         | $7.36 \times 10^{-2}$ | 1             | $9.68 \times 10^{-5}$ |
| 1013                  | 101325       | 760                   | 10332         | 1                     |

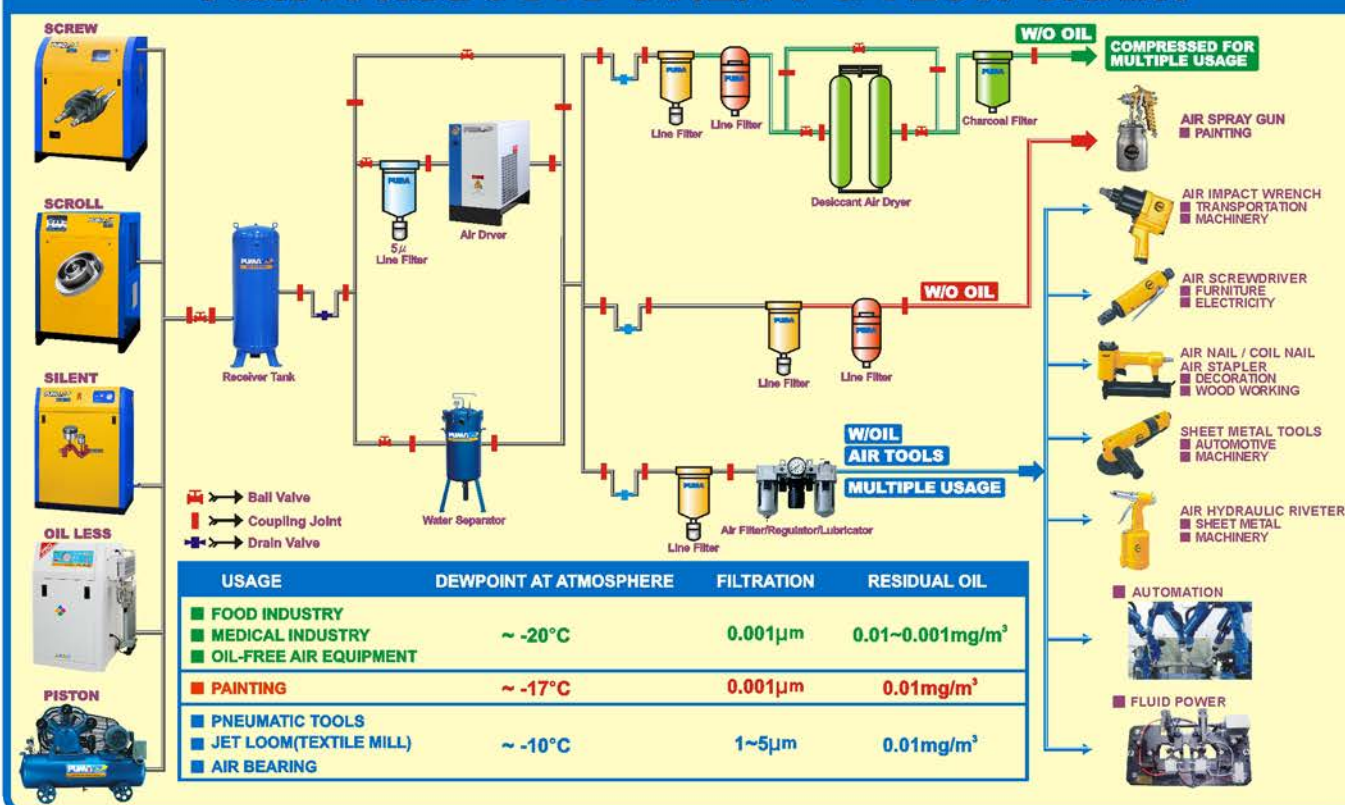
## Pressure Conversion Chart

| Bar   | kPa  | kg/cm² | MPa   | Psi     |
|-------|------|--------|-------|---------|
| 1     | 100  | 1.02   | 0.1   | 14.5    |
| 0.981 | 98.1 | 1      | 0.098 | 14.22   |
| 10    | 1000 | 10.197 | 1     | 145.036 |

## Pressure-dew Point Conversion Table



## PUMA PRODUCTS UTILITY & FLOW CHART







**PUMA** products , reliable quality

## **PUMA INDUSTRIAL CO., LTD.**

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