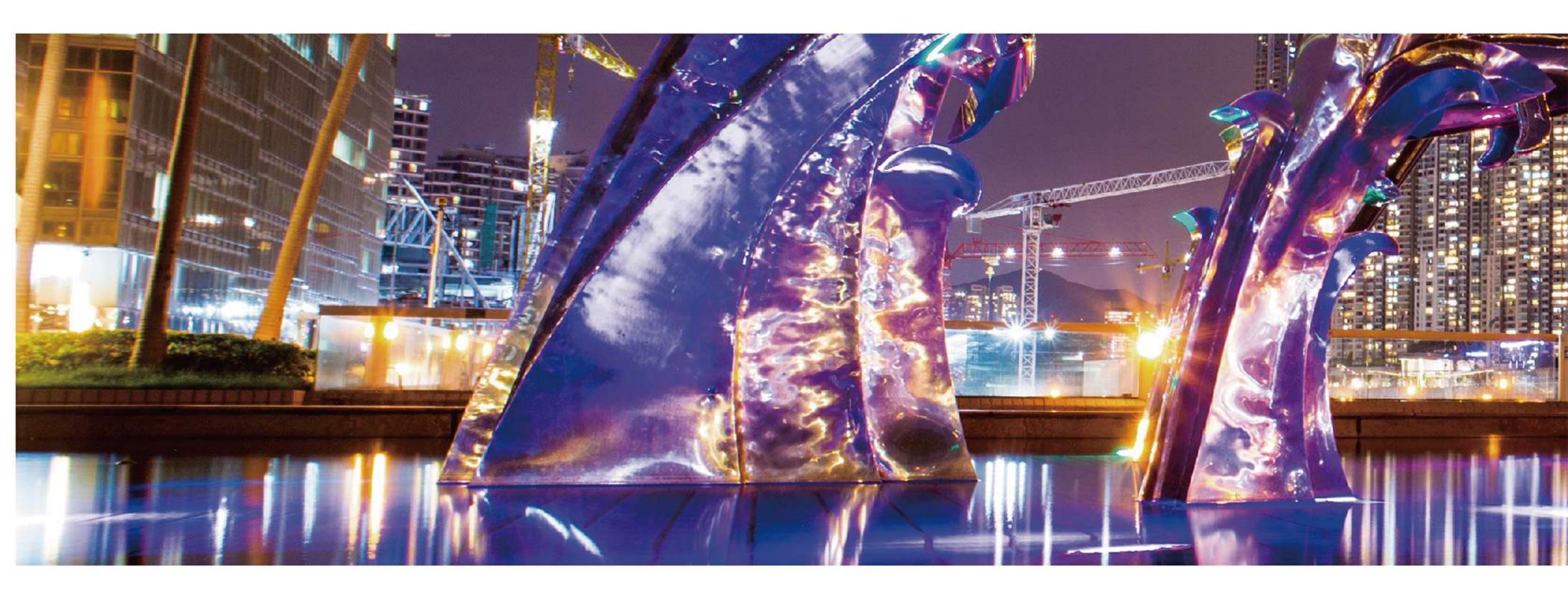


SCREW AIR COMPRESSOR



GONTENTS



| A series screwair compressor | 03/06 |
|---|-------|
| Permanent magnetic servo screw air compressor | 07/10 |
| S series Screw air compressor | 11/12 |
| Medium pressure PM VSD air compressor | 12/13 |
| Two stage PM screw air compressor | 14/15 |
| Blue stormseries PM VSD air compressor | 16/17 |
| Water lubrication two screw air compressor | 18/19 |
| Low pressure screwair compressor | 20/2 |

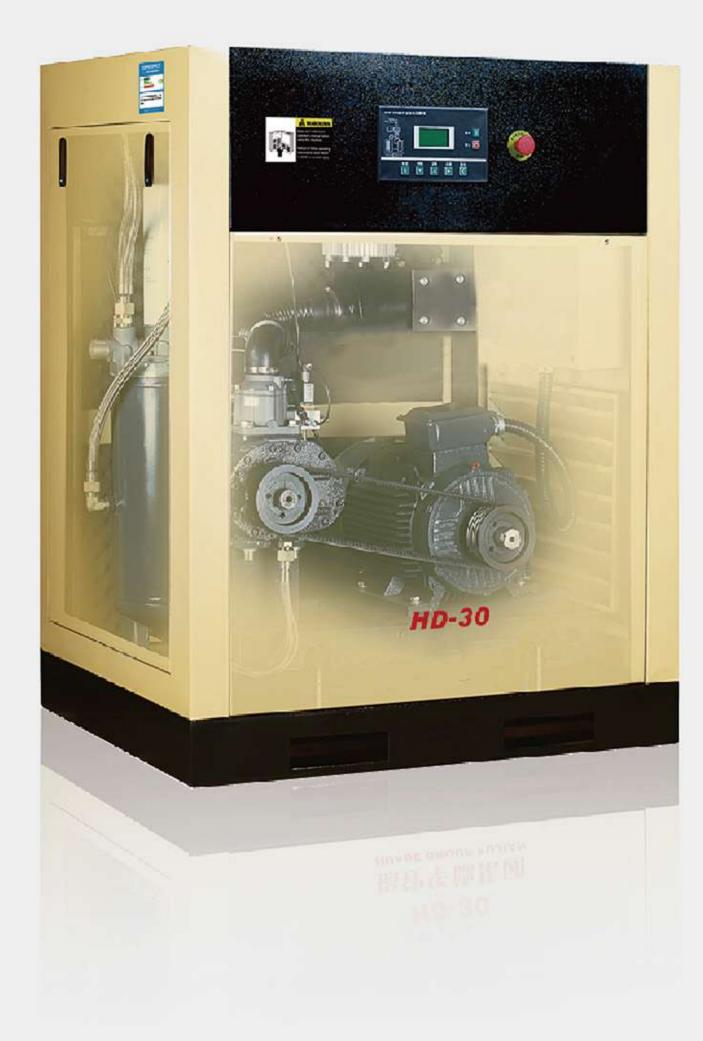




| Oil-free scroll air compressor | 22/23 |
|--|-------|
| Oil free scroll of new energy vehicles | 24/25 |
| Refrigerated air dryer | 26/27 |
| Absorption air dryer | 28/29 |
| Series precision filter | 30/31 |
| Series tank | 32/33 |
| Accessories | 34/36 |

A SERIES SCREW AIR COMPRESSOR





Direct drive system: high efficient output

Be different from belt drive system, which is due to the wear and slip of belt reduce efficiency and icrease energy consumption, Transmax direct drive system is to ensure high efficiency of energy transmission and constant flow output.

Air filter

Imported filter paper with high accuracy, increase filter area, reduce inhalation resistance, increase safety filter core, cyclone filter greatly improve the safety factor and filtration efficiency. It Can filter out molecule in the air, so that avoid air end rotor and bearing wearing, extend the service life of lubrication, filter and oil separator.

(a) Oil/Air separator

The new filter material, using the rotating type design for easy disassembly and replacement. Separation filter core can separate remaining oil in the air, improve the cleanliness of the compressed air, reducing pollution of residual oil on gas used equipment and after treatment system.

High efficient motor

High performance fully enclosed air cooling motor, extremely strong power. IP54 protection class motor, protect the internal dust, insulation class F grade. Achieve long-term continuous without failure under high temperature condition.



Technical specification of direct drive Screw air compressor

| | - TO | | | | | | | | | | | | | | | | | |
|------------|----------------------------|------------|-----------|-----------|-----------|--|--------------|--------------|------------|------------|------------|------------|------------|------------|---------------------|------------|--|--|
| | Model No. | LG-30G | LG-40G | LG-50G | LG-60G | LG-75G | LG-100G | LG-125G | LG-150G | LG-175G | LG-200G | LG-250G | LG-285G | LG-300G | LG-350G | LG-380G | | |
| | | 3.95 / 0.7 | 5.4 / 0.7 | 6.6 / 0.7 | 8.0 / 0.7 | 10.8 / 0.7 | 13.8 / 0.7 | 17.2 / 0.7 | 21.5 / 0.7 | 25.6 / 0.7 | 30.0 / 0.7 | 34.2 / 0.7 | 38.6 / 0.7 | 42.8 / 0.7 | 45.0 / 0.7 | 49.2 / 0.7 | | |
| | Air Delivery / | 3.8/0.8 | 5.2 / 0.8 | 6.4 / 0.8 | 7.8 / 0.8 | 10.2 / 0.8 | 13.2 / 0.8 | 16.5 / 0.8 | 20.5 / 0.8 | 24.0 / 0.8 | 29.0 / 0.8 | 33.0 / 0.8 | 37.0 / 0.8 | 40.0 / 0.8 | 43.1 / 0.8 | 48.0 / 0.8 | | |
| | Discharge Pressure | 3.2 / 1.0 | 4.6 / 1.0 | 6.0 / 1.0 | 6.5 / 1.0 | 6.5 / 1.0 | 11.2 / 1.0 | 15.0 / 1.0 | 19.0 / 1.0 | 22.0 / 1.0 | 26.2 / 1.0 | 30.0 / 1.0 | 34.0 / 1.0 | 36.5 / 1.0 | 39.5 / 1.0 | 43.2 / 1.0 | | |
| | (m³/min/Mpa) | 2.8 / 1.2 | 3.8 / 1.2 | 4.8 / 1.2 | 5.6 / 1.2 | 5.8 / 1.2 | 10.5 / 1.2 | 13.0 / 1.2 | 17.5 / 1.2 | 19.0 / 1.2 | 24.5 / 1.2 | 28.0 / 1.2 | 32.0 / 1.2 | 34.0 / 1.2 | 36.3 / 1.2 | 40.5 / 1.2 | | |
| (| Cooling Model | | | | | | Air | -Cooled | | | | | | | | | | |
| | Discharge Temp (*C) | | | | | <an< td=""><td>nbient tempe</td><td>erature+15 (</td><td>C~18C</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></an<> | nbient tempe | erature+15 (| C~18C | | | | | | | | | |
| ii) | Lubricant(L) | 16 | | 18 | | 54 | 7 | 2 | 90 |) | 11 | O . | 12 | 25 |) | | | |
| ĺ | Noise Level | 6 | 85 ± 3 dB | (A) | | 72 : | 3 dB(A) | | | 75 ± 3 | dB(A) | | | 82 ± 3 | 150 82 ± 3 dB(A) | | | |
| N. | Driving way | | | | | | Dire | ect drive | | | | | | | | | | |
| Inver | Power (Kw) | 22 | 30 | 37 | 45 | 55 | 75 | 90 | 110 | 132 | 160 | 185 | 200 | 220 | 250 | 280 | | |
| Maindriver | Starting Method | | 11 | 20 | 11 | (1 | Y-2 | ∆Starter | | | | | 11 | 12 | 2.00 | | | |
| Elec | tricity | | | | | | 380 | V / 50Hz | | | | | | | | | | |
| 5 | Length (mm) | 1320 | 15 | 550 | 1600 | 1800 | 2000 | 2200 | 28 | 00 | | 3200 | | | 3800 | | | |
| Dimension | Width (mm) | 800 | 10 | 000 | 1000 | 1150 | 1200 | 1350 | 19 | 00 | | 2030 | | | 2100 | | | |
| ig. | Height (mm) | 1300 | 14 | 120 | 1480 | 1650 | 1750 | 1850 | 16 | 90 | | 2100 | | | 2650 | | | |
| Netv | weight (kg) | 650 | 820 | 900 | 1080 | 1520 | 1880 | 2080 | 2850 | 3220 | 3850 | 4350 | 4500 | 4650 | 7900 | | | |
| Air C | Outlet Pipc Diameter(inch) | 17 | | 111 | | | 2" | | | DN65 | | DI | N80 | | DN100 | | | |

Technical specification of belt drive Screw air compressor

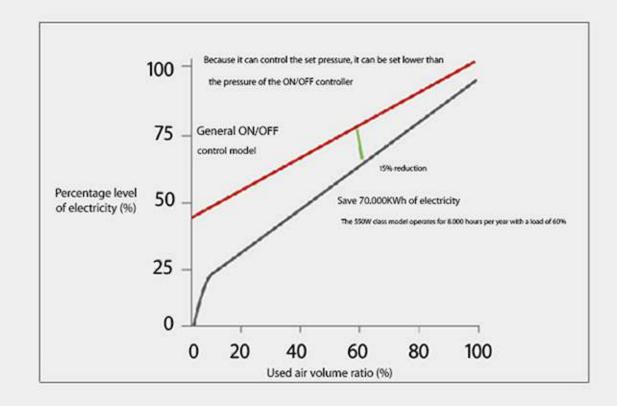
| | Model No. | LG-5 | LG-7.5 | LG-10 | LG-15 | LG-20 | LG-25 | LG-30 | LG-40 | LG-50 | LG-60 | LG-75 | LG-100 | |
|------------|---------------------------|------------|-------------|-----------|-----------|---|-------------|-----------|-----------|-----------|-----------|--------------|------------|--|
| | | 0.65 / 0.7 | 0.85 / 0.7 | 1.3 / 0.7 | 1.8 / 0.7 | 2.6 / 0.7 | 3.0 / 0.7 | 3.8 / 0.7 | 5.3 / 0.7 | 6.4 / 0.7 | 7.4 / 0.7 | 10.3 / 0.7 | 13.6 / 0.7 | |
| | Air Delivery / | 0.55 / 0.8 | 0.75 / 0.8 | 1.2/0.8 | 1.6 / 0.8 | 2.4 / 0.8 | 2.8 / 0.8 | 3.6 / D.8 | 5.0 / 0.8 | 6.2 / 0.8 | 7.2 / 0.8 | 9.6 / 0.8 | 13.0 / 0.8 | |
| | Discharge Pressure | 0.40 / 1.0 | 0.56 / 1.0 | 1.0 / 1.0 | 1.3 / 1.0 | 2.2 / 1.0 | 2.4 / 1.0 | 3.0 / 1.0 | 4.5 / 1.0 | 5.8 / 1.0 | 6.8 / 1.0 | 8.5 / 1.0 | 10.9 / 1.0 | |
| | (m³/min/Mpa) | 0.35 / 1.2 | 0.48 / 1.2 | 0.8 / 1.2 | 1.2 / 1.2 | 1.7 / 1.2 | 2.0 / 1.2 | 2.6 / 1.2 | 3.6 / 1.2 | 4.6 / 1.2 | 6.0 / 1.2 | 7.6 / 1.2 | 9.8 / 1.2 | |
| | Cooling Model | | | | | Air-C | beloc | | 1. | | | | 70. | |
| | Discharge Temp (°C) | | | | | <ambient td="" te<=""><td>mperature+1</td><td>5°C</td><td></td><td></td><td></td><td></td><td></td></ambient> | mperature+1 | 5°C | | | | | | |
| | Lubricant(L) | | 12 | | 1 | 4 | | 16 | | - | 18 | 54 | 72 | |
| | Noise Level | | 62 ± 3 dB(A |) | 65 ± 3 | dB(A) | | 68 ± 3 | dB(A) | | | 72 ± 3 dB(A | Ŋ | |
| | Driving way | ,, | | | | Ве | elt | | | | • | 72 ± 3 dB(A) | | |
| Iriver | Power (Kw) | 4 | 5.5 | 7.5 | 11 | 15 | 18.5 | 22 | 30 | 37 | 45 | 55 | 75 | |
| Maindriver | Starting Method | | Direct sta | art | | | | Y-∆Star | ter | | | | | |
| Elect | ricity | | | 1 | | 380 | V / 50Hz | | | | | | | |
| 5 | Length (mm) | 750 | 8 | 00 | 10 | 000 | 11 | 00 | 1200 | 13 | 00 | 1500 | 1750 | |
| Dimension | Width (mm) | 600 | 6 | 00 | 80 | 00 | 90 | 00 | 900 | 110 | 00 | 1300 | 1350 | |
| Din | Height (mm) | 950 | 9 | В0 | 12 | 80 | 144 | 00 | 1380 | 14 | 80 | 1680 | 1750 | |
| Net v | veight (kg) | 220 | 280 | 310 | 450 | 480 | 550 | 580 | 680 | 840 | 920 | 1450 | 1760 | |
| Air O | utlet Pipc Diameter(inch) | | 3' | | | 1 | 11 | | 1 1 " | 1: | 1" | | 2 " | |

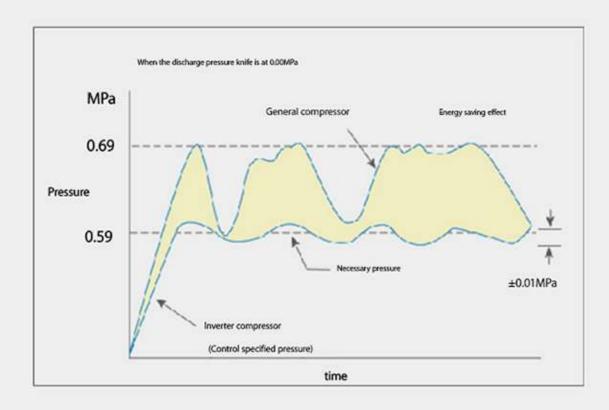
Technical specification of water cooling direct drive Screw air compressor

| / () (| il lical specii | TOCKLIC | ,,,, | T Cit C | 000 | 19 | | 0.1110 | 30.0 | T Call | | 0.000 | | |
|------------|-----------------------------------|------------|------------|------------|--------------|-------------|------------|------------|------------|------------|------------|--------------|-------------|-----------|
| Î | Model No. | LG-100GW | LG-125GW | LG-150GW | LG-175GW | LG-200GW | LG-250GW | LG-285GW | LG-300GW | LG-350GW | LG-380GW | LG-425GW | LG-480GW | LG-560G |
| | | 13.8 / 0.7 | 17.2 / 0.7 | 21.5 / 0.7 | 25.6 / 0.7 | 30.0 / 0.7 | 34.2 / 0.7 | 38.6 / 0.7 | 48.2 / 0.7 | 45.0 / 0.7 | 49.2 / 0.7 | 58.210.7 | 64.2 / 0.7 | 73.0 / 0. |
| | Air Delivery / | 13.2 / 0.8 | 16.5 / 0.8 | 20.5 / 0.8 | 24.0 / 0.8 | 29.0 / 0.8 | 33.0 / 0.8 | 37.0 / 0.8 | 40.0 / 0.8 | 43.1 / 0.8 | 48.0 / 0.8 | 55.5 / 0.8 | 61.9 / 0.8 | 67.0 / 0 |
| | ischarge Pressure (m³/min/Mpa) | 11.2 / 1.0 | 15.0 / 1.0 | 19.0 / 1.0 | 22.0 / 1.0 | 26.2 / 1.0 | 30.0 / 1.0 | 34.0 / 1.0 | 36.5 / 1.0 | 39.5 / 1.0 | 43.2 / 1.0 | 51.0 / 1.0 | 55.5 / 1.0 | 61.9/1 |
| - 11 | (п-/пп/мра) | 10.5 / 1.2 | 13.0 / 1.2 | 17.5 / 1.2 | 19.0 / 1.2 | 24.5 / 1.2 | 28.0 / 1.2 | 32.0 / 1.2 | 34.0 / 1.2 | 36.3 / 1.2 | 40.5 / 1.2 | 45.3 / 1.2 | 51.0 / 1.2 | 56.2 / 1 |
| Co | ooling Model | | | | | | Water-Cool | ed | | | | | | |
| Di | ischarge Temp ('C) | | | | | | | ≤ 40 | | | | | | |
| Lu | ubricant(L) | 7 | 72 | | 90 | 1 | 110 | 12 | 5 | | 150 | | 7 | 180 |
| No | oise Level | | 70 ± 3 dB(| A) | | 75 ± 3 dB(A |) | | 82 ± 3 | 3 dB(A) | | 7 | 84 ± 3 dB(A |) |
| Dr | riving way | | | | | | | Dried | ct drive | | | | | |
| Maindriver | Power (Kw) | 75 | 90 | 110 | 132 | 160 | 185 | 200 | 220 | 250 | 280 | 3 15 | 355 | 400 |
| Main | Starting Method | | | | | | | Y-△S | tarter | | | | | |
| Electr | ricity | | | 380V / | 50Hz | y-m | | | | | 10K | / (6KV) / 50 | Hz | |
| 5 | Length (mm) | 2000 | 2200 | 28 | 300 | | 3200 | | | 3800 | | | 4200 | |
| Dimension | Width (mm) | 1200 | 1350 | 19 | 900 | | 2100 | | | 2100 | | | 2250 | |
| ă | Height (mm) | 1750 | 1850 | 16 | 3 9 0 | | 2650 | | | 2650 | | | 2350 | |
| Net w | veight (kg) | 1880 | 2080 | 2850 | 3220 | 3850 | 4350 | 4500 | 4650 | 5600 | 7900 | 9200 | 9500 | 9800 |
| Air O | utlet Pipc Diameter(inch) | 2 | 2 " | Di | N65 | | | DN8 | 30 | 0 | | | DN100 | |

Each Transmax air compressor can run with frequency conversion







? Why would you use frequency conversion compressor?

Because of frequency conversion compressor will matching customers actual gas accurately, it can greatly reduce your electricity bills, and has many advantage, you will be able to get maximum return of investment, and later save spending every year. In the compressor the entire working life, energy consumption occupies so that cost the most. An energy saving of your compressed air compressor system have a significant impact.



Each screw air comprssor runs with frequency conversion.

- * Frequency converter integrated inside the machine, save a space.
- * No energy loss, no current peak, realize the constant pressure.
- * Vector frequency converter, motor constant torque output.
- * Low speed, no load startup, high reliability.
- * Frequency converter and PLC integration, easy to operate, humanized management.

Directly saving-energy reach to 40%

- * Uninstall losses to a minimum.
- * Compressed air without emptying into the atmosphere
- * Conversion between loading and unloading damage avoided to a great extent.
- * Frequency conversion compressor accurate pressure control allows a smaller bandwidth, and lower working pressure, reducing power consumption.



Indirectly saving-energy

Frequency conversion compressor provided by the "low pressure" energy saving effect can bring more a year:

- * Save 5% energy than other base load compressor.
- * Leakage loss exists in compressed air system, 6 bar than 7 bar damage reduced by 13%.
- * Air compressor consumes less air in low pressure runtime. In addition to direct energy saving, indirect energy saving in air compressor can bring energy saving 10%.



TECHNICAL DATA FOR BELT FREQUENCY CONVERSION SCREW AIR COMPRESSOR

| | Model | LG-7.5VF | LG-10VF | LG-15VF | LG-20VF | LG-25VF | LG-30VF | LG-40VF | LG-50VF | LG-60VF | LG-75VF | LG-100VF |
|------------|------------------------------------|-------------|-----------|-------------|-----------|---|--------------|--------------|-----------|-----------|------------|------------|
| | | 0.85 / 0.7 | 1.3 / 0.7 | 1.8 / 0.7 | 2.6 / 0.7 | 3.0 / 0.7 | 3.8 / 0.7 | 5.3 / 0.7 | 6.4 / 0.7 | 7.4 / 0.7 | 10.3 / 0.7 | 13.6 / 0.7 |
| | Air Delivery / | 0.75 / 0.8 | 1.2 / 0.8 | 1.6 / 0.8 | 2.4 / 0.8 | 2.8 / 0.8 | 3.6 / 0.8 | 5.0 / 0.8 | 6.2 / 0.8 | 7.2 / 0.8 | 9.6 / 0.8 | 13.0 / 0.8 |
| | Discharge Pressure (m3/min/Mpa) | 0.56 / 1.0 | 1.0 / 1.0 | 1.0 / 1.0 | 2.2 / 1.0 | 2.4 / 1.0 | 3.0 / 1.0 | 4.5 / 1.0 | 5.8 / 1.0 | 6.8 / 1.0 | 8.5 / 1.0 | 10.9 / 1.0 |
| | | 0.48 / 1.2 | 0.8/1.2 | 0.8/1.2 | 1.7 / 1.2 | 2.0 / 1.2 | 2.6 / 1.2 | 3.6 / 1.2 | 4.6 / 1.2 | 6.0 / 1.2 | 7.6 / 1.2 | 9.8 / 1.2 |
| | Cooling Model | | | | | | Air-Cooled | | | | | |
| | Discharge Temp (°C) | | | | | <ambie< td=""><td>nt temperat</td><td>ure+15℃</td><td></td><td></td><td></td><td></td></ambie<> | nt temperat | ure+15℃ | | | | |
| | Lubricant(L) | 1 | 2 | | 1 | 16 | | | 18 | | 54 | 72 |
| | Noise Level | 65 ± 2dB(A) | | 68 ± 2 dB(A |) | | 70 ± | 2 dB(A) | | | 72 ± 2 dB | (A) |
| | Driving way | | | | | Bel | t | | | | | |
| river | Power (Kw) | 5.5 | 7.5 | 11 | 15 | 18.5 | 22 | 30 | 37 | 45 | 55 | 75 |
| Maindriver | Starting Method | | " | | | Vari | able Frequer | ncy Starting | | | | |
| | Electricity | | | | | | 380V / 50Hz | 2 | | | | |
| _ | Length (mm) | 85 | 50 | 1 | 150 | | 1200 | | 1: | 300 | 1500 | 1750 |
| Dimension | Width (mm) | 80 | 00 | | 350 | | 1000 | | 1. | 300 | 1450 | 1500 |
| Δim | Height (mm) | 11 | 20 | 1 | 300 | | 1400 | | 14 | 480 | 1680 | 1750 |
| | Net weight (kg) | 280 | 380 | 580 | 590 | 620 | 650 | 760 | 920 | 1080 | 1650 | 1880 |
| Air C | Outlet Pipc Diameter (inch) | | 3" | | | 1" | | 11" | 1 | 1" | 2 | |

TECHNICAL DATA FOR DIRECT DRIVEN FREQUENCY CONVERSION SCREW AIR COMPRESSOR

| | | | | | | | | | 70 | | 9 | 17 | | | | |
|------------|--------------------------------------|------------|-----------------------|-----------|-----------|------------|------------|-------------|------------|------------|------------|------------|------------|--------------|------------|------------|
| | Model | LG-30GVF | LG-40GVF | LG-50GVF | LG-80GVF | LG-75GVF | LG-100GVF | LG-125GVF | LG-150GVF | LG-175GVF | LG-200GVF | LG-250GVF | LG-285GVF | LG-300GVF | LG-350GVF | LG-380GV |
| | | 3.95 / 0.7 | 5.4 / 0.7 | 6.6 / 0.7 | 8.0 / 0.7 | 10.8 / 0.7 | 13.8 / 0.7 | 17.2 / 0.7 | 21.5 / 0.7 | 25.6 / 0./ | 30.0 / 0.7 | 34.2 / 0.7 | 38.6 / 0./ | 42.8 / 0.7 | 45.0 / 0.7 | 49.2 / 0.7 |
| , | Air Delivery / Discharge Pressure | 3.8 / 0.8 | 5.2 / 0.8 | 6.4 / 0.8 | 7.8 / 0.8 | 10.2 / 0.8 | 13.2 / 0.8 | 16.5 / 0.8 | 20.5 / 0.8 | 24.0 / 0.8 | 29.0 / 0.8 | 33.0 / 0.8 | 37.0 / 0.8 | 40.0 / 0.8 | 43.1 / 0.8 | 48.0 / 0.8 |
| | (m3/min/Mpa) | 3.2 /0 | 46/1.0 | 6.0 / 1.0 | 6.5 / 1.0 | 8.8 / 1.0 | 112/10 | 15.0 / 1.0 | 19.0 / 1.0 | 22.0 / 1.0 | 26.2 / 1.0 | 30.0 / 1.0 | 34.0 / 1.0 | 36.5 / 1.0 | 39.5 / 1.0 | 43.2 / 1.0 |
| | | 2.8 / 1.2 | 3.8 / 1.2 | 4.8 / 1.2 | 5.6 / 1.2 | 7.8 / 1.2 | 10.5 / 1.2 | 13.0 / 1.2 | 17.5 / 1.2 | 19.0 / 1.2 | 24.5 / 1.2 | 28.0 / 1.2 | 32.0 / 1.2 | 34.0 / 1.2 | 36.3 / 1.2 | 40.5 / 1.2 |
| | Cooling Model | | | | | | | Ai | r-Cooled | | | | | | | |
| 1 | Discharge Temp (°C) | | | | | | 3 | Ambient t | emperatur | re+15°C | | | | | | |
| | Lubricant(L) | 16 | | 18 | | 54 | 7 | 2 | 90 | | 110 |) | 125 | 5 | 150 | |
| | Noise Level | 6 | $55 \pm 2 \text{ dB}$ | (A) | | 72 : | ± 2 dB(A) | | | 75 ± 2 | dB(A) | | | 82 ± 2 | dB(A) | |
| | Driving way | | | | | | | | Direct | | | | | | | |
| Iriver | Power (Kw) | 22 | 30 | 37 | 45 | 55 | 75 | 90 | 110 | 132 | 160 | 185 | 200 | 220 | 250 | 280 |
| Maindriver | Starting Method | | 1 | | | | | Variable Fr | equency S | tarting | | | | | | |
| | Electricity | | | | | | | 380 |)V / 50Hz | 10 | | | | | | |
| Lo Co | Length (mm) | 1320 | | 1550 | | 1800 | 2000 | 2200 | 26 | 00 | | 2700 | | | 3200 | |
| Dimension | Width (mm) | 800 | | 1000 | | 1150 | 1200 | 1350 | 14 | 50 | | 1700 | | | 1950 | |
| ä | Height (mm) | 1300 | | 1420 | | 1650 | 1750 | 1850 | 20 | 00 | | 2300 | | | 2450 | |
| | Net weight (kg) | 700 | 900 | 980 | 1180 | 1650 | 1950 | 2200 | 2980 | 3380 | 4280 | 4580 | 4880 | 320C 1950 | | 8500 |
| Air C | Outlet Pipc Diameter (inch) | 1" | | 117 | | | 2 " | | | DN65 | | DN | 185 | | DN100 | |

PERMANENT

MAGNETIC SERVO SCREW AIR COMPRESSOR





Direct drive separated structure, totally enclosed IE4 permanent magnetic motor

Use protection level IP54 permanent magnetic motor, easy maintenance. Ultimate temperature for magnetic loss is above 180°C, higher efficient than open-type protection level IP23. Protection level IP23 magnetic motor ultimate temperature for magnetic loss at 150°C. Air compressor in using strong magnets easily adsorbed dust and late iron leads to lower efficiencfy, if adsorption chemical fiber flocking, will cause a fire. Transmax IP54 permanent magnetic motor more safety, more efficient, more energy saving.

Special sensorless open-loop control technology inverter

Directly use open-loop specialized variable-frequency speed control system. via gradually increased frequency inverter to start, leave out encoder, easy maintain.

Oil filter

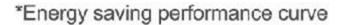
Use rotation type oil filter, totally filtering impurity inside lubricating oil, internally installed temperature control valve, adapt the temperature in different regions, ensure the quality of lubricating oil and oil pressure, easily change, don't worry about oil leakage

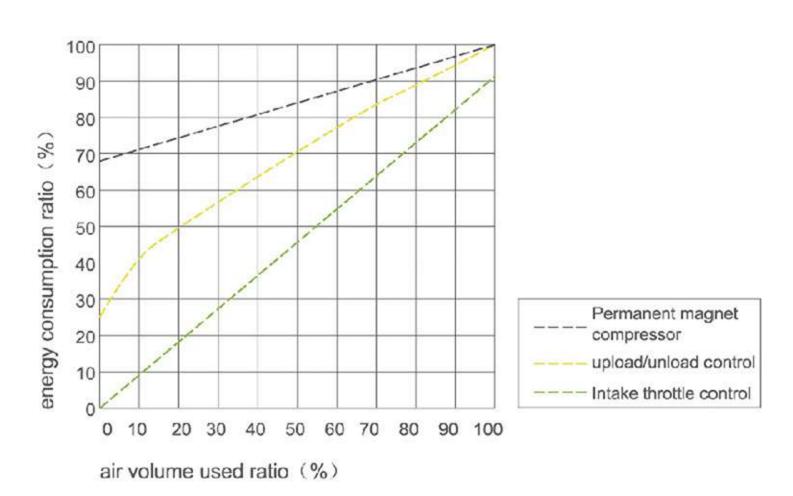
Intelligent touch screen operation

Use computer controller, Humanized operation interface, not only adjust and monitoring compressor comprehensively, but high end network IT, make remote network control become realistic.

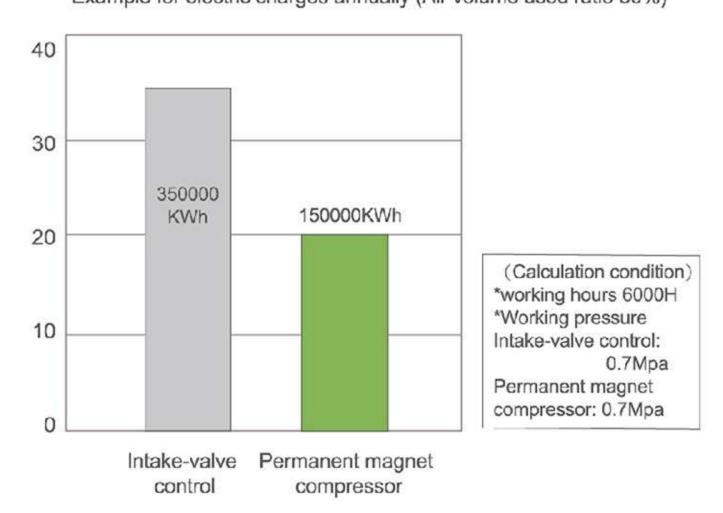


The new energy saving configuration is saving more than common screw air compressor 40%





*Example for electric charges annually (Air volume used ratio 50%)



Cost comparison

When purchasing compressor, costs in the traditional sense (purchasing cost+ maintenance costs), Only 25% of to the total cost, while energy consumption cost is 75%.

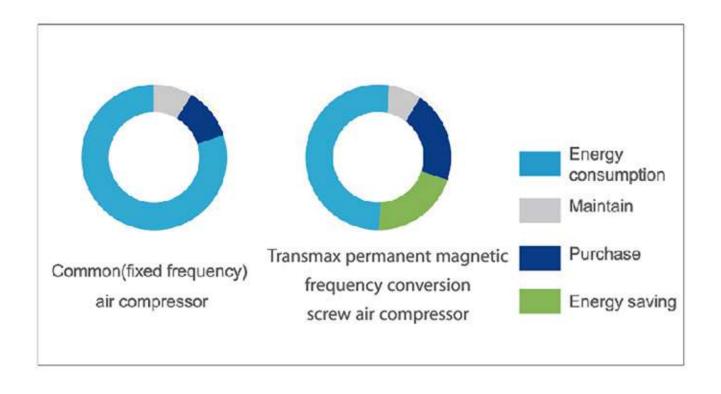
Transmax permanent magnetic frequency conversion screw air compressor save 35-45% energy more than common (fixed frequency) air compressor;

A common 75KW air compressor, running 8000 hours annually, electric charge is RMB0.78/degree, Electric charge for one year:

75KW*8000 hours*RMB0.78/ kW•h =\$73,638

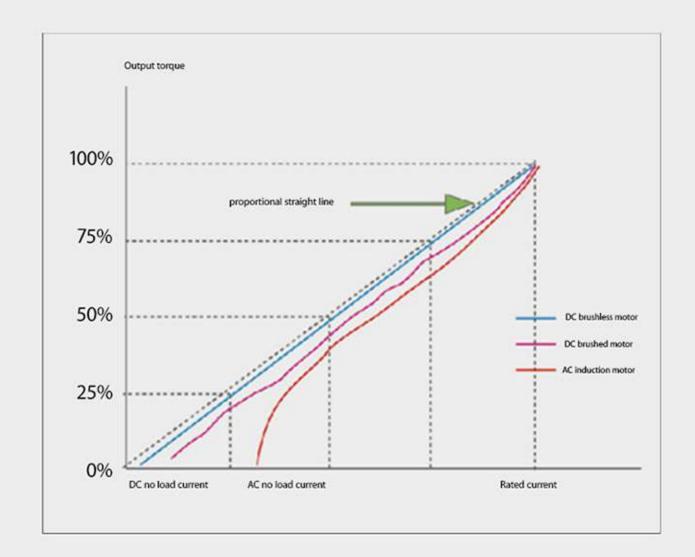
Transmax permanent magnetic frequency conversion 75KW screw air compressor save about 40% energy annually, in total: \$73,638*40%=\$29455

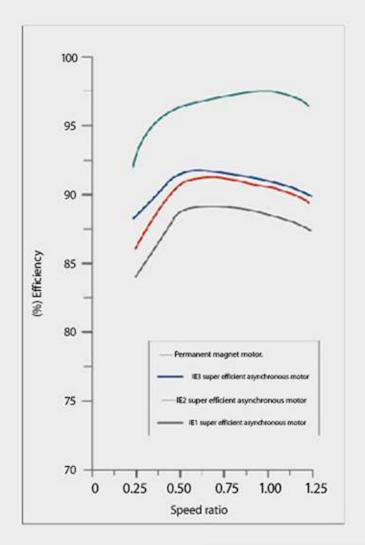
Return on invest (ROI): one year1.

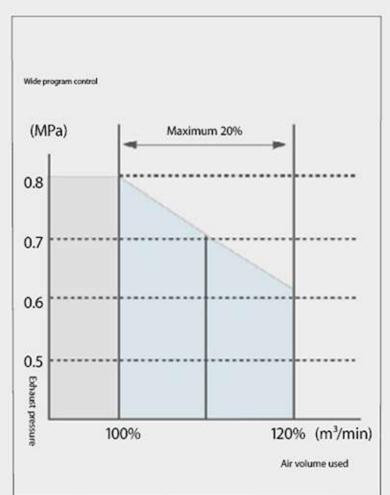


Self-developed and produced motor









Particular motor technology

Permanent magnet use high-strength NdFeB (neodymium iron boron) magnetic steel, high magnetic energy product and coercivity of NdFeB magnetic steel, make rare-earth permanent magnet motor have small size, light weight, high efficient, good character etc., a series of advantages.

■ *Slow-speed of revolution, high torque:*

Output torque and incoming current of permanent-magnet synchronous motor become linear, the most suitable for rotating equipment applications of fix torque loading requirement (screw air compressor is the typical fixed torque loading device), big startup torque, easily overcome static friction force, a lot advantages, like frequently start and stop, sudden acceleration and deceleration, quick start, current not easy overload etc.

Wider Frequency converting control range:

Permanent-magnet synchronous motor still keep high efficient under slow-speed of revolution, high torque, so the range of frequency converting control mode is wider, more stable operation, quicker response.

High efficient:

The difference of permanent-magnet synchronous motor and common asynchronous motor is rotor structure, permanent magnet pole is installed to instead of field winding to proceed excitation, no need Reactive excitation current, it will obviously improve power factor, reduce rotor loss, and no copper loss under stable operation, efficient reach more than 96%.

Smaller dimension:

Because energy consumption reduce, it will directly reduce waste heat inside motor, demand area of heat dissipation will also reduce, the dimension of motor can be reduced at least 30%, reduce weight 35%, the design is compact, reduce machine dimension.

Motor temperature protection function, ensure motor steady running:

Use PTC temperature sensor, to manage by controller, protect motor under temperature abnormal.

Width control technology, increase air delivery:

Under constant power precondition, on the basis of different exhaust pressure, adjust compressor rotate speed, to increase air delivery, the maximum increase 20%

♦ *Use high-performance lubricating oil, ensure low residual oil:*

Frequency conversion use specialized lubricating oil and inlet filter, to restrain the degradation of lubricating oil, furthermore via three stage separation, centrifugal separation, gravitational separation and filtering separation, dispose lubricating oil in the air, make exhaust residual oil control reach optimal level in the world.

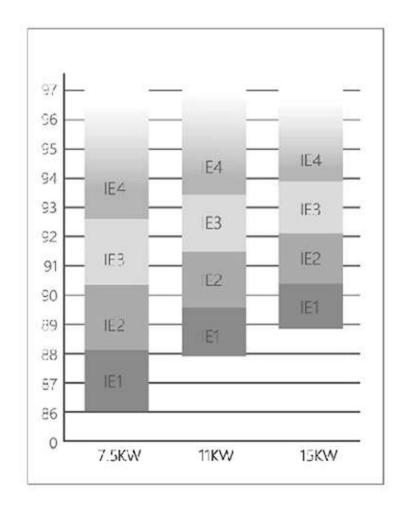




Reliable High Antijamming capacity. Energy saving. Long service life...

New drive system

According to IEC 60034-30:ed.02 compare capacity of motor efficient



Class 4 energy efficient

IE1: standard (~EFF2)
IE2: high efficient (~EFF1)

IE3: high efficient IE4: super high efficient

| motor ted | chnology | IE1 | IE2 | IE3 | IE4 |
|--------------------|--------------|-----|-----|------|------|
| asynchronous motor | single phase | OK | ОК | hard | МО |
| | three phase | OK | OK | OK | hard |
| synchronous motor | switch brush | OK | OK | OK | hard |
| permanent magn | etic motor | OK | OK | OK | OK |

Technical Parameters Of One Stage Compression Screw air compressor

| Mo | del | LGPM-10 | LGPM-15 | LGPM-20 | LGPM-30 | LGPM-40 | LGPM-50 | LGPM-60 |
|--------------------|--------------------------|---------|---------|---------|-------------------|---------|---------|---------|
| | | 1.9/0.7 | 2.7/0.7 | 3.1/0.7 | 4.3/0.7 | 6.2/0.7 | 7.4/0.7 | 8.1/0.7 |
| Discharge pressure | A to delice | 1.7/0.8 | 2.4/0.8 | 2.9/0.8 | 4.1/0.8 | 5.5/0.8 | 7.0/0.8 | 7.8/0.8 |
| 0.6~1.0(MPa) | Air delivery (m³/min) | 1.5/1.0 | 2.0/1.0 | 2.5/1.0 | 3.6/1.0 | 5.0/1.0 | 6.1/1.0 | 7.3/1.0 |
| | | 1.4/1.2 | 1.7/1.2 | 2.3/1.2 | 3.2/1.2 | 4.1/1.2 | 5.3/1.2 | 6.3/1.2 |
| Cooling | ļ. | | - 3 | | air cooling | | la i | |
| Discharge ten | perature (°C) | | | Ambi | ent temperature: | ±15°C | | |
| Lubricant (L) | | 7 | 10 | | 12 | 22 | 2 | 24 |
| Noise Level (| dB(A)) | 60±3 | | 65±3 | | 66±3 | 68 | ±3 |
| Driving way | | | | | Direct drive | | | |
| Motor | Power (kw) | 7.5 | 11 | 15 | 22 | 30 | 37 | 45 |
| Motor | Driver method | | | Freque | ency conversion s | tarting | | |
| Electric | ity (V / ph / Hz) | | | | 380V/50Hz | | | |
| | Length (mm) | 920 | 1320 | 1350 | 1320 | 1400 | 1400 | 1800 |
| Dimension | Width (mm) | 650 | 800 | 800 | 900 | 1000 | 1000 | 1250 |
| Dimension | Hight (mm) | 1050 | 1300 | 1300 | 1500 | 1580 | 1580 | 1900 |
| | Weight (kg) | 400 | 450 | 500 | 600 | 710 | 800 | 1050 |
| Air outlet Pipe Di | ameter (inch/mm) | 3/4" | 1" | 1" | 1" | 1 1/4" | 1 1/2" | 2" |

| М | odel | LGPM-75 | LGPM-100 | LGPM-125 | LGPM-150 | LGPM-175 | LGPM-200 | LGPM-250 | LGPM-285 | | | |
|-------------------------|-----------------------|----------|----------------|----------|----------------|-----------------|----------|----------|----------|--|--|--|
| | | 11.4/0.7 | 15.3/0.7 | 17.3/0.7 | 21.7/0.7 | 26.1/0.7 | 29.8/0.7 | 34.0/0.7 | 36.9/0.7 | | | |
| | | 10.5/0.8 | 14.5/0.8 | 16.5/0.8 | 20.5/0.8 | 24.3/0.8 | 29.0/0.8 | 32.3/0.8 | 35.1/0.8 | | | |
| 0.6~1.0(MPa) | Air delivery (m³/min) | 9.3/1.0 | 11.8/1.0 | 14.4/1.0 | 19.1/1.0 | 22.0/1.0 | 26.1/1.0 | 29.0/1.0 | 31.3/1.0 | | | |
| Section Constitution of | None | 8.3/1.2 | 10.5/1.2 | 11.3/1.2 | 17.0/1.2 | 19.5/1.2 | 25.0/1.2 | 26.0/1.2 | 27.5/1.2 | | | |
| Cooling | | | - | | air cooli | ng | A. | | | | | |
| Discharge te | mperature (°C) | | | | Ambient temp | erature±15°C | | | | | | |
| Lubricant (L | Lubricant (L) | | 7 | 13 | 2 | | | | | | | |
| Noise Level | (dB(A)) | | 72±3 75±3 78±3 | | | | | | | | | |
| Driving way | | | | | Direct driv | ⁄e | | | | | | |
| | Power (kw) | 55 | 75 | 90 | 110 | 132 | 160 | 185 | 200 | | | |
| Motor | Driver method | | Ÿ | Y | Frequency conv | ersion starting | | | | | | |
| Electr | icity (V / ph / Hz) | | | | 380V/50 | Hz | | | | | | |
| | Length (mm) | 1800 | 1800 | 2200 | 2560 | 2560 | 2900 | 3500 | 3500 | | | |
| | Width (mm) | 1250 | 1250 | 1300 | 1800 | 1800 | 2200 | 2100 | 2100 | | | |
| Dimension | Hight (mm) | 1900 | 1900 | 1850 | 1850 | 1850 | 1960 | 2100 | 2100 | | | |
| | Weight (kg) | 1450 | 1780 | 2000 | 2550 | 2950 | 3200 | 3990 | 4220 | | | |
| Air outlet Pipe D | iameter (inch/mm) | 2" | 2" | 2" | DN65 | DN65 | DN80 | DN80 | DN80 | | | |

S S E R I E S S C R E





High efficiency of the radiator

Radiator fan adopts axial flow fan with high air volume top inverted suction fan, which is easy to maintain.

Institutional stability

Left hexagonal small tuyere, embellishing the aesthetic appearance, better heat dissipation of the motor.

Large air out

Unique design makes the air discharge smoothly and improves the working efficiency of the air compressor.

Full inlet

Simple and efficient Heat Dissipation
Design with Double Air Nozzles at the
bottom and Fans at the top.



SPECIALIZE INSIDE, SIMPLE IN SHAPE

- ★ Small and delicate body shape achieves minimal floor space.
- * Shock pad imported from Switzerland is highly effective in damping, flexibility, oil and temperature resistance.
- ★ Strict selection of thick-walled seamless steel pipe connection between air end and radiator.
- ★ Direct split structure, no belt aging, more durable.
- ★ Independent research and development of IP54 protective motor, safer, more efficient and more energy-saving.
- ★ Using stable MAM890 controller, easy to operate.





| | | | | | | Fixed fre | equency | | | | | |
|---------------------------------------|-------------------|------------------|---------------------------------|--------|------|----------------------------------|----------------------------------|---------|-------|-------|-------|-------|
| Mod | lel | S-10 | S-15 | S-20 | S-30 | S-50 | S-60 | S-75 | S-100 | S-125 | S-150 | S-175 |
| Discharge I | | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Air Delivery | (m³/min) | 1.08 | 1.6 | 2.3 | 3.3 | 6.2 | 7.1 | 9.2 | 12.6 | 15.7 | 19.8 | 22.8 |
| Power | (Kw) | 7.5 | 11 | 15 | 22 | 37 | 45 | 55 | 75 | 90 | 110 | 132 |
| Lubricati | ng oil(L) | 3 | 5 | 5 | 5 | 12 | 12 | 31 | 31 | 45 | 60 | 60 |
| Coolin | g | | 81 | - | - | | Air | | | | | |
| Driving | way | | | | | | Direct | | | | | |
| Driving way Discharge Temperature(°C | | | | | | ≤Ambien | t temperat | ure±15℃ | | | | |
| Noise Level | (dB(A)) | 62±2 | 65±2 | 65±2 | 67±2 | 70±2 | 72±2 | 75±2 | 75±2 | 75±2 | 75±2 | 75±2 |
| | L(mm) | 880 | 1100 | 1100 | 1200 | 1350 | 1350 | 1860 | 1860 | 1860 | 2400 | 2400 |
| Dimension | W(mm) | 660 | 730 | 730 | 900 | 1000 | 1000 | 1200 | 1200 | 1205 | 1470 | 1470 |
| | H(mm) | 1000 | 1050 | 1050 | 1220 | 1330 | 1330 | 1600 | 1600 | 1700 | 1900 | 1900 |
| Weigh | Weight (Kg) | | 270 | 290 | 450 | 550 | 650 | 780 | 830 | 940 | 1050 | 1200 |
| Air outle Diameter (i | t Pipe nch/mm) | $G\frac{3}{4}$ " | G ³ / ₄ " | G 3/4" | G 1" | G1 ¹ / ₄ " | G1 ¹ / ₄ " | G2" | G2" | DN65 | DN65 | DN65 |

| | | | | | | PM varia | able frequ | uency | | | | |
|--------------------------|-------------------|--------|-------|-------|-------|----------------------------------|----------------------------------|---------|--------|--------|--------|--------|
| Mod | lel | SV-10 | SV-15 | SV-20 | SV-30 | SV-50 | SV-60 | SV-75 | SV-100 | SV-125 | SV-150 | SV-175 |
| Discharge F (Mpa | | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Air Delivery | (m³/min) | 1.1 | 1.75 | 2.35 | 3.4 | 6.3 | 7.15 | 9.3 | 12.7 | 15.9 | 20 | 23 |
| Power (| (Kw) | 7.5 | 11 | 15 | 22 | 37 | 45 | 55 | 75 | 90 | 110 | 132 |
| Lubricati | ng oil(L) | 3 | 5 | 5 | 5 | 12 | 12 | 31 | 31 | 45 | 60 | 60 |
| Coolin | g | | | | | | Air | | | | | |
| Driving | way | | | | | | Direct | | | | | |
| Discharge Ten | nperature(°C) | | | | | ≤Ambien | t temperat | ure±15℃ | | | | |
| Noise Lev | el (dB(A)) | 62±2 | 65±2 | 65±2 | 67±2 | 70±2 | 72±2 | 75±2 | 75±2 | 75±2 | 75±2 | 75±2 |
| | L(mm) | 880 | 1100 | 1100 | 1200 | 1350 | 1350 | 1860 | 1860 | 1860 | 2400 | 2400 |
| Dimension | W(mm) | 660 | 730 | 730 | 900 | 1000 | 1000 | 1200 | 1200 | 1205 | 1470 | 1470 |
| | H(mm) | 1000 | 1050 | 1050 | 1220 | 1330 | 1330 | 1600 | 1600 | 1700 | 1900 | 1900 |
| Weigh | nt (Kg) | 160 | 250 | 270 | 420 | 500 | 600 | 750 | 810 | 910 | 1020 | 1150 |
| Air outle Diameter (i | t Pipe nch/mm) | G 3/4" | G3" | G 3 " | G 1" | G1 ¹ / ₄ " | G1 ¹ / ₄ " | G2" | G2" | DN65 | DN65 | DN65 |

MEDIUM PRESSURE

PM VSD air compressor for laser cutting equipment





(I) Heat well, long life

Unique design and reasonable layout of the formation of efficient cooling system and high heat dissipation efficiency.

It uses a special permanent magnet motor, no waste unloading and starting current

It avoids possible power loss and has a longer working life.

Easy maintenance, low malfunction

High reliability, stable use.

Simple operation, convenient management.

Easy maintenance, simple overhaul, promote protection efficiency.

High-efficiency and energy-saving, clean air

Medium pressure PM VSD air compressor can save 35% electricity for the user under the condition of ensuring the original working efficiency, part of the laser cutting process can use the compressor to cut, saving an average of 60 percent of gas costs laser cutting technology. Custom-make oil, purer air.

Less-vibration and Lowness-noise

Using large rotor to reduce the unit speed, which is lower than the normal screw machine speed, and the full load speed is at 2000RPM, making the unit more quiet.





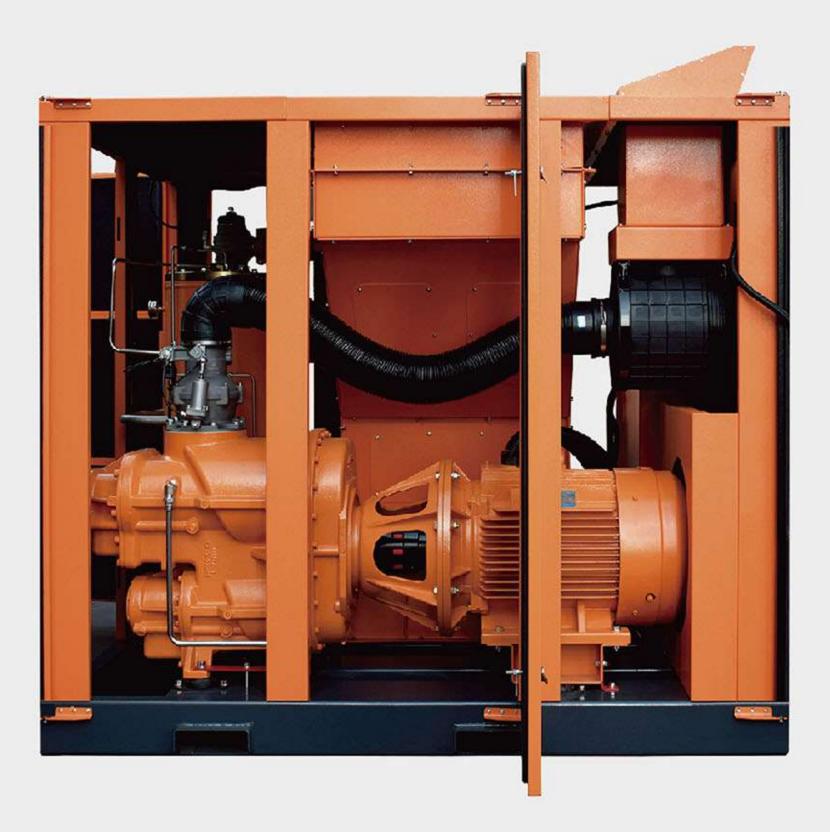
Technical parameters of middle pressure permanent magnetic frequency conversion air compressor

| N | M odel | LGPM-10 | LGPM-15 | LGPM-20 | LGPM-25 | LGPM-30 | LGPM-40 | LGPM-50 | | | |
|-----------------|--------------------|-------------------------------|--------------------------|---------|-------------|---------|---------|---------|--|--|--|
| Discharge | pressure (MPa) | | 1.6 | | | | | | | | |
| Air delive | ry (m³/min) | 0.5 | 1.08 | 1.5 | 1.8 | 2.2 | 3.1 | 3.6 | | | |
| Cod | oling | | air cooling | | | | | | | | |
| Discharg | e temperature (°C) | | Ambient temperature±15°C | | | | | | | | |
| Lubrican | t (L) | 4 | 6 | | 8 16 | | | 18 | | | |
| Noise Le | vel (dB(A)) | 60±3 | 65±3 68±3 | | | | | | | | |
| Driving v | vay | | | | Belt/Direct | | | | | | |
| Motor _ | Power (kw) | 7.5 | 11 | 15 | 18.5 | 22 | 30 | 37 | | | |
| Wiotoi | Drive method | Frequency conversion starting | | | | | | | | | |
| Electricit | y (V / ph / Hz) | | | | 380V/50Hz | | | | | | |
| | Lentgh (mm) | 850 | 1060 | 1060 | 1200 | 1200 | 1400 | 1400 | | | |
| | Width (mm) | 800 | 750 | 750 | 900 | 900 | 1000 | 1000 | | | |
| Dimension | Hight (mm) | 1123 | 950 | 950 | 1250 | 1250 | 1580 | 1580 | | | |
| W | eight (kg) | 400 | 190 | 190 | 350 | 350 | 800 | 830 | | | |
| Air outlet Pipe | Diameter (inch/mm) | 3/4" | 3/4" | 3/4" | 1" | 1" | 1 1/2" | 1-1/2" | | | |

| | Model | LGPM-15TD | LGPM-20TD | LGPM-30TD | | | | |
|------------------------|----------------------|---|--------------------------|----------------|--|--|--|--|
| Discharg | e pressure (MPa) | | 1.6 | | | | | |
| Air deli | very (m³/min) | 1.0 | 2.2 | | | | | |
| C | ooling | | air cooling | | | | | |
| Discha | rge temperature (°C) | | Ambient temperature±15°C | | | | | |
| Lubrica | ant (L) | | 6 | | | | | |
| Noise Level (dB(A)) | | | 65±3 | | | | | |
| Driving | g way | Belt/Direct | | | | | | |
| Motor | Power (kw) | 11 | 15 | 22 | | | | |
| Miotor | Drive method | Frequency conversion starting(or fixed frequency) | | | | | | |
| Electric | city (V / ph / Hz) | | 380V/50Hz | | | | | |
| | Model | HD-20AC | HD-20AC | HD-30AC | | | | |
| Cold drying machine | Air delivery(m³/min) | 1.5 | 1.5 | 3.0 | | | | |
| | Dimension(mm) | 450*300*600 | 450*300*600 | 750*360*550 | | | | |
| Dir | mension(mm) | 1860*750*1550 | 1860*750*1550 | 1850*1320*1860 | | | | |
| W | eight (kg) | 400 | 400 | 950 | | | | |
| Air outlet Pipe | Diameter (inch/mm) | 3/4" | 3/4" | 3/4" | | | | |

STAGE PM SCREW AIR COMPRESSOR





Double stage compression structure, more energy saving

compression and high efficiency screw machine is a low pressure ratio, a greater degree of lower volume leakage, to improve energy efficiency!

The core is the two - level compression of the injection screw air compressor in the same power than the single - stage compression of the injection screw air compressor and more 12%-23% air volume.

Decided to the unit running more stable Lower than ordinary screw speed, and the use of multiple

damping springs, so that the unit has a higher stability.

Low speed noise

Using large rotor to reduce the unit speed, full load speed in the 2000RPM is a more quiet guarantee.

Optimization of air duct structure

The new air duct structure design, so that the whole air duct pressure difference, the structure is more beautiful.

Optimization of air duct structure

The motor and the permanent magnet direct host adopts a split type structure, with IP54 protection grade of the motor, low temperature rise, high efficiency.

Eliminate inefficient conversion process from full load to unload, Avoid unload power consumption.

Microcomputer synchronous control system, according to the exhaust temperature, control the fan speed, the suppression of current waste.

Cooling fan frequency conversion control, energy saving about 5%. Provide free choice of pressure from 4bar to 13bar, which can minimize reduce energy consumption.

Under low rotating speed, permanent magent motor work status is higher 20% above efficiency than common motor. Frequency conversion range from 25%~100%, The greater fluctuation for air consumption whole system, energy saving effect is more obvious.

Productfeatures

Two-stage compression reduces the compression ratio per level, reducing internal leakage and increase the volumetric efficiency, reduces the bearing load, improve the working life of the host. Two stage compression instead of single stage compression, nearly a 15% increase in displacement, can realize a 15% more energy saving effect.



Developing capacity Core Technology

The rotor type line using the latest design patent, after more than twenty working procedure of finish machining, to ensure the precision of the rotor type line, reliability and validity.

In one case, the first order of the compressor rotor and the two stage of the compressor rotor are combined in one case, and the direct drive of the helical gear is respectively. So that each level of the rotor can get the best line speed, compression transmission efficiency is higher.

Each stage compression compression ratio by the accurate design reduces the bearing and gear load.

Per level compression ratio is small, less leakage, high volume efficiency.

Borne by two head under the same power load, the bearing force is small, live longer.



| | Model | LGGPM-30 | LGGPM-50 | LGGPM-60 | LGGPM-75 | LGGPM-100 | LGGPM-125 | LGGPM-150 | | | |
|---------------------|-----------------|--------------|------------------------------|----------|----------|-----------|-----------|-----------|--|--|--|
| | | 4.2/0.7 | 7.2/0.7 | 9.8/0.7 | 12.8/0.7 | 17.5/0.7 | 20.8/0.7 | 24.5/0.7 | | | |
| Discharge pressure | Air delivery | 4.1/0.8 | 7.1/0.8 | 9.7/0.8 | 12.5/0.8 | 16.5/0.8 | 19.8/0.8 | 23.5/0.8 | | | |
| 0.6~1.2(MPa) | (m³/min) | 3.5/1.0 | 6.3/1.0 | 7.8/1.0 | 9.6/1.0 | 12.5/1.0 | 16.9/1.0 | 19.7/1.0 | | | |
| | 080 - 120 | 3.2/1.2 | 5.4/1.2 | 6.5/1.2 | 8.6/1.2 | 11.2/1.2 | 14.3/1.2 | 17.6/1.2 | | | |
| Cooling | | | air cooling or water cooling | | | | | | | | |
| Discharge ter | mperature (°C) | (°C) | | | | ≤40 | | | | | |
| Lubricant (L) | Lubricant (L) | | 23 | 40 | | 54 | 60 | | | | |
| Noise Level(| (dB(A)) | | 72±2 | 2±2 78 | | | 82 | ±2 | | | |
| Driving way | | direct drive | | | | | | | | | |
| Power (kw) | | 22 | 37 | 45 | 55 | 75 | 90 | 110 | | | |
| Electricity (V | / ph / Hz) | | 380V/50Hz | | | | | | | | |
| | Length (mm) | 1600 | 1700 | 1810 | 1810 | 1980 | 2360 | 2280 | | | |
| | Width (mm) | 900 | 1100 | 1430 | 1430 | 1480 | 1580 | 1930 | | | |
| Dimension | Hight (mm) | 1500 | 1600 | 2080 | 2080 | 2130 | 2250 | 2095 | | | |
| Jine Bion | Weight (kg) | 730 | 1080 | 1810 | 1810 | 2100 | 2570 | 2820 | | | |
| Air outlet Pipe Dia | meter (inch/mm) | 1 1/2" | 1 1/2" | 2" | 2" | DN65 | DN65 | DN65 | | | |

| | Model | LGGPM-175 | LGGPM-200 | LGGPM-250 | LGGPM-285 | LGGPM-300 | LGGPM-350 | LGGPM-380 | LGGPM-42 | | |
|---------------------|------------------------|------------------------------|-----------|-----------|--------------|-----------|-----------|-----------|----------|--|--|
| | | 30/0.7 | 34.5/0.7 | 41/0.7 | 44.6/0.7 | 48.6/0.7 | 55/0.7 | 62/0.7 | 65/0.7 | | |
| Discharge pressure | Air delivery | 28/0.8 | 33.6/0.8 | 38.4/0.8 | 43/0.8 | 47/0.8 | 54/0.8 | 60/0.8 | 62/0.8 | | |
| 0.6~1.0(MPa) | (m³/min) | 23.5/1.0 | 30/1.0 | 32.5/1.0 | 38.5/1.0 | 41.9/1.0 | 46/1.0 | 51/1.0 | 55/1.0 | | |
| | | 19.8/1.2 | 23.8/1.2 | 28.6/1.2 | 32.8/1.2 | 38/1.2 | 40/1.2 | 45/1.2 | 47/1.2 | | |
| Cooling | | air cooling or water cooling | | | | | | | | | |
| Discharge ter | mperature (°C) | ≤40 | | | | | | | | | |
| Lubricant (L) | oricant (L) 90 150 180 | | | | 22 | 221 | | | | | |
| Noise Level(| dB(A)) | | 82±2 | 82±2 | | | 84±2 | | | | |
| Driving way | | | | | direct drive | ve | | | | | |
| Power (kw) | | 132 | 160 | 185 | 200 | 220 | 250 | 280 | 315 | | |
| Electricity (V | / ph / Hz) | | | | 380V/50Hz | | | | | | |
| | Length (mm) | 2430 | 2500 | 3500 | 4110 | 4110 | 4110 | 4350 | 4350 | | |
| | Width (mm) | 1980 | 2126 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | | |
| Dimension | Hight (mm) | 2095 | 2130 | 2100 | 2650 | 2650 | 2650 | 2200 | 2200 | | |
| Dimension | Weight (kg) | 3050 | 3600 | 3990 | 5500 | 6500 | 6800 | 7200 | 7800 | | |
| Air outlet Pipe Dia | ameter (inch/mm) | DN80 | DN80 | DN100 | DN100 | DN100 | DN100 | DN125 | DN125 | | |

BLUE STORM

series PM VSD air Compressor





Small Model

New appearance, innovation of industrial screw; Small area cover; 50% energy saving; Super quietly (as low as 60dB(A)); 7.5-75KW all series.



Compact Structures

Small area cover.

The coaxial of rotor and motor.

Isolation of drive and hot-cold cooling system.



High Efficiency

Ultimate energy saving
Free air displacement 0-100% free switch with
gas demandHigh efficiency motor efficiency of
96%, to the international IE4 efficiency level.



High Reliability

The system more simple design, with 30 years of experience and technology of our Transmax, the perfect intergration of the latest technology low maintenance cost, less parts and longer working hours.



Super Quietly

Special air hose design reduces windage and reduces noise by 20%.

More efficient cooling fan, special fan shaped line, air volume increased by 15%.





Technical Parameters Of blue storm PM frequency conversion air compressor

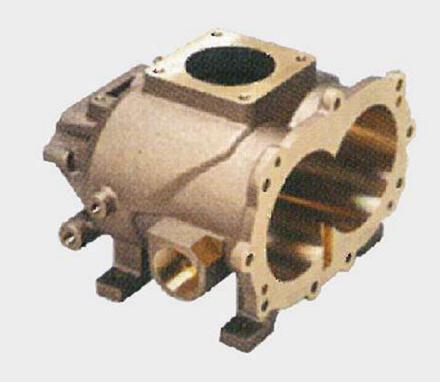
| Mod | lel | M-10 | M-15 | M-20 | M-30 | M-50 | | | | |
|-----------------------------------|--|--------------|---------|-------------------------|---------|---------|--|--|--|--|
| | | 1.2/0.7 | 1.8/0.7 | 2.4/0.7 | 3.6/0.7 | 6.2/0.7 | | | | |
| Discharge pressu | AND A DESCRIPTION OF THE PROPERTY OF THE PROPE | 1.1/0.8 | 1.7/0.8 | 2.2/0.8 | 3.4/0.8 | 6.1/0.8 | | | | |
| 0.7~1.0(MPa) | (m³/min) | 0.8/1.0 | 1.5/1.0 | 1.7/1.0 | 2.9/1.0 | 5.1/1.0 | | | | |
| Cooling | | air cooling | | | | | | | | |
| Discharge | temperature (°C) | | < Env | ironmental temperatur | re+15°C | | | | | |
| Lubricant (L) | | 5 | 7 | 7 | 10 | 16 | | | | |
| Noise Leve | el (dB(A)) | 60±3 | 62±3 | 62 ±3 | 63±3 | 65±3 | | | | |
| Driving wa | у | direct drive | | | | | | | | |
| 10000000 | Power (kw) | 7.5 | 11 | 15 | 22 | 37 | | | | |
| motor | Straing Method | | V | ariable frequency start | ing | | | | | |
| Electricity (\ | / / ph / Hz) | | | 380V/50Hz | | | | | | |
| | Length (mm) | 650 | 742 | 742 | 800 | 900 | | | | |
| Dimension | Width (mm) | 610 | 682 | 682 | 780 | 878 | | | | |
| Dimension | Hight (mm) | 1255 | 1420 | 1420 | 1590 | 1740 | | | | |
| Weigh | t (kg) | 180 | 245 | 245 | 340 | 480 | | | | |
| ir outlet Pipe Diameter (inch/mm) | | 3/4" | 3/4" | 3/4" | 1" | 1-1/4" | | | | |

WATER

LUBRICATION TWIN SCREW AIR COMPRESSOR



Ceramic and resin composite rotor



Bronze casing

Original import air end



Air driven by innovation

After years of development, we are proud to introduce the most innovative and valuable screw compressor "GP Series" with water as rotor lubricant, and put forward many advantages of our products.



High efficiency

- 1. Prevent air leakage
- 2. More air is discharged than dry-type
- 3. Reduce energy consumption



Oil-free

- 1. Oil-free compressor
- 2. Non-pollution



Reliable structure

- 1. Anti-rust ceramic composite resin rotor and bronze shell
- 2. Maintain water quality with a self-circulating water system

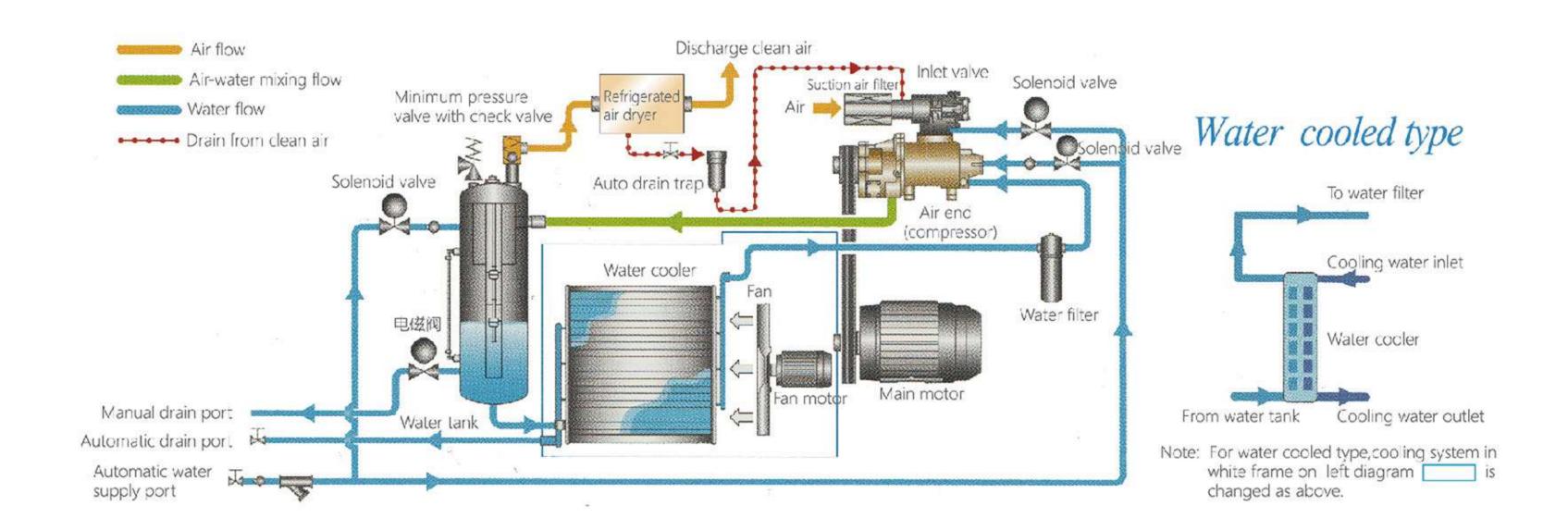


Easy to maintain

The two-stage rotor is relatively simple compared with the complex dry type



Diagram of air cooling



Technical Parameters Of water lubrication frequency conversion twin screw air compressor

| Mod | lel | GP15BESA-DV | GP22BESA-DV | GP37BESA-DV | GP37BES-DV | GP55BES-DV | GP75BES-DV |
|-----------------|---------------|-------------|-------------|-------------|------------|-------------------|------------|
| Air de (m³/m | | 0.7-2.3 | 1.0-3.5 | 1.8-6.1 | 1.8-6.1 | 2.8-9.2 | 3.8-12.7 |
| Discha (MPa) | arge pressure | 0.49-0.88 | 0.49-0.88 | 0.49-0.88 | 0.49-0.88 | 0.49 -0.88 | 0.49-0.88 |
| Coolir | ng | Air | Air | Air | Water | Water | Water |
| Power | (kw) | 15 | 22 | 37 | 37 | 55 | 75 |
| | Length (mm) | 1735 | 1735 | 2010 | 2010 | 2110 | 2110 |
| 5 | Width (mm) | 1030 | 1030 | 1186 | 1186 | 1310 | 1310 |
| Dimension | Hight (mm) | 1450 | 1450 | 1450 | 1450 | 1740 | 1740 |
| 7 | Weight (kg) | 850 | 910 | 1280 | 1165 | 1650 | 1980 |

Technical Parameters Of water lubrication twin screw air compressor

| Mo | odel | GP15BESA-DV | GP22BESA-DV | GP37BESA-DV | GP37BES-DV | GP55BES-DV | GP75BES-DV |
|--------------------------|---------------------|-------------|-------------|-------------|------------|------------|------------|
| Air delivery (m³/min) | | 2.3/1.8 | 3.5/2.7 | 6.1/4.9 | 6.1/4.9 | 9.2/7.0 | 12.7/10.3 |
| | ge pressure MPa) | 0.69-0.88 | 0.69-0.88 | 069-0.88 | 0.69-0.88 | 0.69-0.88 | 0.69-0.88 |
| Со | oling | Air | Air | Air | Water | Water | Water |
| Powe | r (kw) | 15 | 22 | 37 | 37 | 55 | 75 |
| | Length (mm) | 1735 | 1735 | 2010 | 2010 | 2110 | 2110 |
| | Width (mm) | 1030 | 1030 | 1186 | 1186 | 1310 | 1310 |
| Dimension | Hight (mm) | 1450 | 1450 | 1450 | 1450 | 1740 | 1740 |
| | Weight (kg) | 845 | 900 | 1260 | 1145 | 1590 | 1860 |

LOW PRESSURE SCREW AIR COMPRESSOR







High reliability original air end

The new generation of screw rotor with excellent performance, reliable operation, automatically adjust the internal compression ratio. In the exhaust pressure range of 0.2~0.5 Mpa, the optimal ratio of power (energy efficiency) is maintained. To ensure that the lowest operating cost for a long time no fault operation.



High efficiency motor

Optimization of motor shell design, All the designs are in line with international standards, Innovative rotor design, so the motor power loss is reduced by 40%, and the wide range of voltage adaptation make compressor is more energy saving, also air pressure is more constant.



Oil filter

Using Rotary filter, can filter out the impurities in the lubricant completely, have temperature control valve inside, Adapt to the regional temperature, to ensure the quality of lubricating oil and oil pressure, easy to replace, without the worry of oil.



Intelligence touch screen operating system

Using computer platform controller, to adjust and monitor the operation parameters of the twelve statements quality of air compressor, When the preset value, the controller automatically sends out a warning or stop, while showing the cause of the failure, and writes the history fault records, so that the remote network control becomes a reality.



Best parts, excellent performance

Scientific design

If your device only needs under 0.3MPA compressed air, air end discharge air of our series is the low pressure air you need.

Energy saving highlights

Using high volumetric efficiency screw air end ,avoid the process of compression and expansion energy loss, low pressure screw compressor will save the energy for more than 30%, energy-saving effect is remarkable, you save the energy that it will let you recover the investment in less than a year.

Stable and reliable

The system runs in low pressure ,Parts with small force and heat low load .Compressor run more stable, reliable, longer life .

Technical Parameters Of low pressure Screw air compressor

| Мо | del | LGL-30-3 | LGL-50-3 | LGL-60-3 | LGL-75-3 | LGL-100-3 | LGL-125- | | |
|-----------------------------|-------------------|----------|----------|----------|----------|-----------|----------|--|--|
| Discharge pressure (MPa) | | 0.3 | | | | | | | |
| | rdeliver (min) | 6.0 | 10.7 | 13.2 | 16 | 23.5 | 28 | | |
| Power | Power (kw) | | 37 | 45 | 55 | 75 | 90 | | |
| Exhaust | Interface | 2" | DN65 | DN65 | DN80 | DN80 | DN100 | | |
| Noise Leve | el (dB(A)) | 68±3 | 70±3 | 70±3 | 72±3 | 72±3 | 74±3 | | |
| | Length (mm) | 1600 | 1800 | 1800 | 2100 | 2900 | 2900 | | |
| | Width (mm) | 1000 | 1310 | 1310 | 1600 | 2000 | 2000 | | |
| Dimension | Hight (mm) | 1350 | 1880 | 1880 | 2150 | 2100 | 2100 | | |
| | Weight (kg) | 860 | 1180 | 1400 | 1980 | 2650 | 3460 | | |

| Мо | Model | | LGL-175-3 | LGL-50-5 | LGL-60-5 | LGL-75-5 |
|-----------|--------------------|-------|-----------|----------|----------|----------|
| | e pressure IPa) | | 0.3 | | 0.5 | |
| | rdeliver /min) | 33.5 | 45 | 9.85 | 11.5 | 15 |
| Power | (kw) | 110 | 132 | 37 | 45 | 55 |
| Exhaust | Interface | DN125 | DN160 | DN65 | DN65 | DN65 |
| Noise Lev | el (dB(A)) | 74±3 | 78±3 | 70±3 | 70±3 | 72±3 |
| | Length (mm) | 2900 | 4000 | 1600 | 1800 | 1800 |
| | Width (mm) | 2000 | 2150 | 1050 | 1310 | 1310 |
| Dimension | Hight (mm) | 2100 | 2400 | 900 | 1880 | 1880 |
| | Weight (kg) | 3850 | 4200 | 940 | 1280 | 1560 |

| Model | | LGL-100-5 | LGL-125-5 | LGL-150-5 | LGL-175-5 | LGL-200-5 | LGL-250- | | | |
|-----------------------------|----------------------|-----------|-----------|-----------|-----------|-----------|----------|--|--|--|
| Discharge pressure (MPa) | | | 0.5 | | | | | | | |
| | airdeliver ³/min) | 18.5 | 23 | 27.5 | 37.5 | 40.5 | 49 | | | |
| Power (kw) | | 75 | 90 | 110 | 132 | 160 | 185 | | | |
| Exhaust | Interface | DN80 | DN80 | DN80 | DN125 | DN125 | DN150 | | | |
| Noise Le | vel (dB(A)) | 72±3 | 75±3 | 75±3 | 78±3 | 78±3 | 80±3 | | | |
| | Length (mm) | 2050 | 3200 | 3200 | 3500 | 4000 | 4400 | | | |
| | Width (mm) | 1550 | 2000 | 2000 | 1850 | 2050 | 2250 | | | |
| Dimension | Hight (mm) | 2050 | 2250 | 2250 | 2200 | 2350 | 2400 | | | |
| Difficition | Weight (kg) | 2080 | 2850 | 3360 | 4150 | 5720 | 6400 | | | |

OIL-FREE SCROLL AIR COMPRESSOR







Quiet

Scroll type unique silent, micro vibration to provide a comfortable working space, even at night without worry about the impact of the environment.



Convenient

Equipped with high performance computer circuit board, the monitor screen will display the operation status and various fault warning.

It also can be based on customer requirements to offer poweroutage automatic recovery.



Clean

No need for oil lubrication, of course, is clean air. Due to the standard equipment of anti rust air receiver, drainage is also clean. So you can always keep the environment clean.



Compact

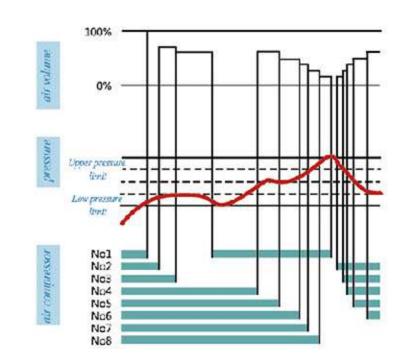
The compressor shape a new look of smart design, the pursuit of the ultimate miniaturization created a simple box, greatly reduced the installation area.



Through multilevel control, the best operation and energy saving are realized.

The multiple compressors built in 1 sets of case. According to the use of air volume by multilevel free control the best units' running, thereby avoiding the unnecessary operation, to achieve the energy saving.

superior operation for Multilevel control energy-saving (multi stage)



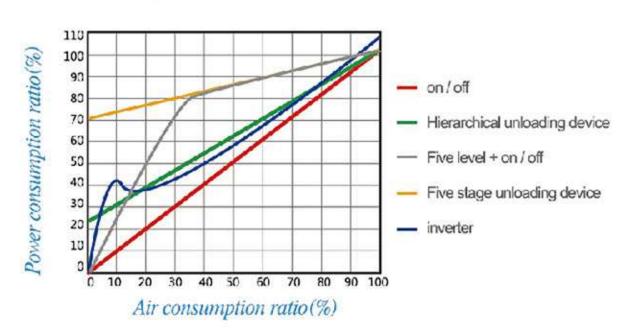
Substantial inhibition of electricity consumption, energy saving effect is excellent

When the amount of air consumption changes, the compressor will be controlled by different ways to produce a large error. < Think Air> can restrain the energy consumption to the minimum, thus improve the energy saving effect.

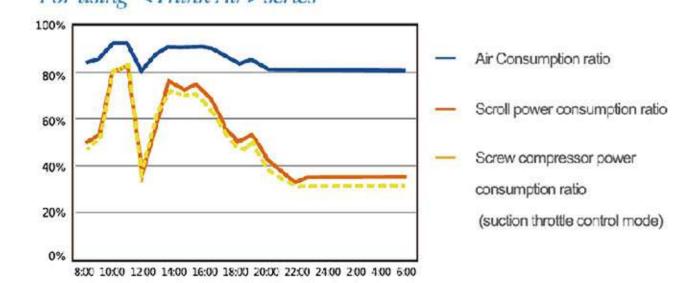
Multi level control with the energy saving surpass the frequency conversion control

Using the least energy consumption of the on / off control. According to the usage of air volume and the actual situation, to achieve the best operation.

Power consumption ratio is different according to the control mode



Compare with the ratio of energy consumption For using <Think Air>series

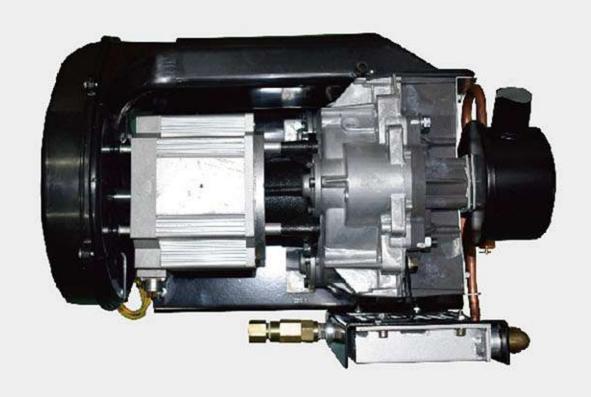


Technical parameters of oil - free scroll air compressor

| N | 1odel | SCR-5 | SCR-10 | SCR-15 | SCR-20 | SCR-30 | SCR-40 |
|-----------------------------|--------------------------------|----------|----------|----------|----------|----------|----------|
| | delivery ³/min) | 0.42 | 0.84 | 1.26 | 1.68 | 2.52 | 3.36 |
| Discharge pressure (MPa) | | 0.65-0.8 | 0.65-0.8 | 0.65-0.8 | 0.65-0.8 | 0.65-0.8 | 0.65-0.8 |
| Noise L | evel (dB(A)) | 62±2 | 62±2 | 63±2 | 63±2 | 63±2 | 65±2 |
| Pow | ver (kw) | 4 | 7.5 | 11 | 15 | 30 | 30 |
| Quant | ity of air end | 1 | 2 | 3 | 4 | 4 | 8 |
| | Length (mm) | 750 | 1100 | 1150 | 1200 | 1620 | 1620 |
| | Width (mm) | 628 | 800 | 830 | 870 | 1200 | 1300 |
| Dimension | Hight (mm) | 850 | 980 | 1380 | 1810 | 1735 | 2120 |
| | Weight (kg) | 160 | 350 | 450 | 620 | 800 | 1230 |
| 1M | Pa specification | | | | | | |
| | delivery ³ /min) | 0.355 | 0.71 | 1.065 | 1.42 | 2.31 | 2.84 |
| Discharg | ge pressure (MPa) | 0.8~1.0 | 0.8~1.0 | 0.8~1.0 | 0.8~1.0 | 0.8~1.0 | 0.8~1.0 |
| Noise L | evel (dB(A)) | 62±2 | 62±2 | 63±2 | 63±2 | 63±2 | 65±2 |
| | Length (mm) | 750 | 1100 | 1150 | 1200 | 1620 | 1620 |
| | Width (mm) | 628 | 800 | 830 | 870 | 1200 | 1300 |
| Dimension | Hight (mm) | 850 | 980 | 1380 | 1810 | 1730 | 2120 |
| | Weight (kg) | 160 | 350 | 450 | 620 | 800 | 1230 |

OIL FREE SCROLL OF NEW ENERGY VEHICLES







O

Product presentation

The braking, suspension and other auxiliary systems of new energy vehicles al require compressed air to power them. Therefore, air compressor is an important part of new energy vehicle. Under the condition of fully meeting the requirements of air volume, the Transmax vehicle complete oil-free scroll machine can achieve a stable, reliable and maintenance-free solution for the on-board compressed air system, and lead the development of new energy automotive on-board compressor in the future with perfect quality.

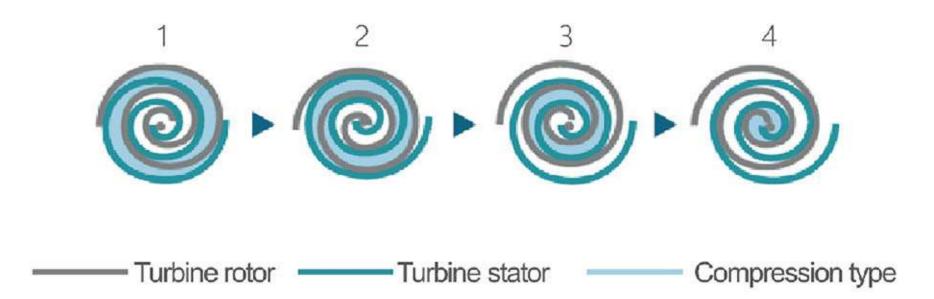
Pro

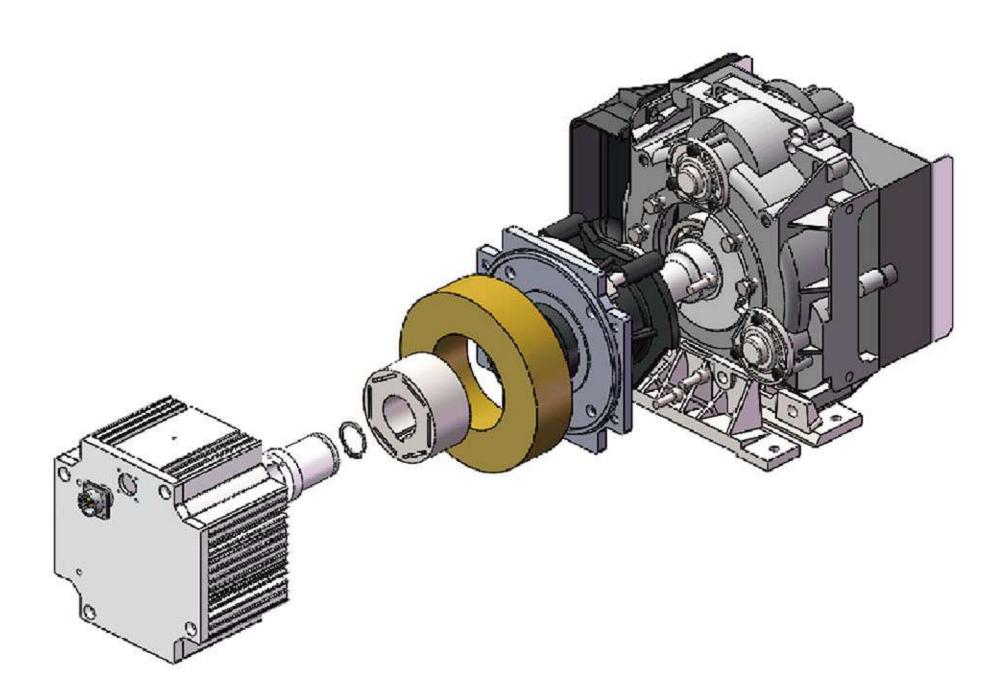
Product Features

- 1. High efficiency reliability: adopt imported head, high efficiency permanent magnet motor, independen heat dissipation ssytem, guarantee long interval repair and maintenance and few maintenance requirements.
- 2. High safety: less moving parts, simple structure, high safety
- 3. Long life: reliable operation of more than 8000 ~ 1000h, unique construction, long maintenance period, long service life
- 4. Comply with harsh environmental requirements: no vulnerability risk, no centralized treatment of condensate, comply with IP67 standards.
- Quiet and comfortable: no contact, vibration and noise.
- 6. Energy saving and environmental protection: no oil and water, no oil and carbon pollution, no need to replace lubricationg oil and the disposal of filters, etc.



The rotor scroll according to the diagram 1-2-3-4 sequential rotation, the air is sucked the space between to stator vortex and vortex rotor, crescent (into the form of point symmetry) of the compression chamber volume becomes small, air compressed from the mouth of the center part of the exhaust discharge.





Technical parameters of oil free scroll air compressor of new energy vehicles

| Model | HDW-2.2 | HDW-3.7 |
|-----------------------------|---------|---------|
| Air delivery (m³/min) | 0.21 | 0.34 |
| Discharge pressure (MPa) | 0.8~1.0 | 0.8~1.0 |
| Weight (kg) | 35 | 40 |

REFRIGERATED AIR DRYER





Composition of refrigent air dryer system

Drying chamber or manifold.

Vacuum system: used to overcome obstacles and accelerate air flow.

Heat source: to provide energy.

Low temperature condenser: used to maximize the vapor pressure difference and capture vapor freezes, avoid water vapor pollution vacuum pump.

Product characteristics

In strict accordance with iso9001, gb150, iso7183 refrigerant air dryer standard, qs, pressure vessel inspection specifications for design and manufacture of production and testing, to ensure product safety and reliable operation;

Adopting new and enclosed refrigeration compressor, super cooling, stable running, low noise, reliable performance, energy saving, long service life;

Condenser, choose high quality materials, heat transfer coefficient is high, small size, compact structure;

Components, control components are the use of international good quality brands, excellent performance, improve service life;

Equipment structure reasonable design, convenient in maintenance, box-type appearance, beautiful and easy;

Increase the size of the evaporator heat transfer area, better heat transfer effect, guarantee the stability of the machine dew point;

Special design of cold and hot delivery, perfect use of the cold source of the outlet and the entrance of the hot air heat transfer. Avoid pipeline condensation, and achieve the effect of energy saving;

High efficiency of air - water separation devices with good drainage system design, not block, with a filter net can be cleaned regularly, condensed water discharge closed to steady;

Cooling system with automatic pressure switch to automatically control the fan power supply, to achieve maximum power saving effect;

Unique design of refrigeration system, the temperature is low and not frozen, good coolant filtration system, no ice plug phenomenon; completely remove the compressed air moisture;

Low running cost, low consume less, to avoid the cost of consumables.



? Why would you choose refrigent type air dryer?

The traditional drying can damage cells, cause material shrinkage, in the process of freezing drying the structure of the samples will not be destroyed, because the solid ingredients are controlled by the support in the seat of the ice. When ice sublimation, it will leave pore in dry surplus materials. So keep the activity of the biological and chemical structure of the product and its integrity. In the lab, freeze and there are many different USES, it in many biological chemical and pharmaceutical applications is indispensable. It is used to obtain can be preserved for a long period of biological materials, such as microbial cultures, blood, enzyme, the drugs, in addition to the long-term preservation of stability, also retained its inherent biological activity and structure. Therefore, freeze-drying was used to prepare for structure research (such as electron microscopy studies) tissue samples, freeze drying and is applied to chemical analysis, it can get dry state samples, or concentrated samples in order to increase the sensitivity analysis. Freeze-dried make sample composition stability, also do not need to change the chemical composition, is the ideal means for analysis.

REFRIGERATED AIR DRYER PARAMETER

| Model | HD-7.5AC | HD-10A | C HD-15 | 5AC | HD- | 20AC | H | 0-30AC | H | ID-50AC | HD-75AC | | |
|--|---|-------------------|------------------|----------|------------|------------|---------------|--------------|--------|-----------------|-------------------|--|--|
| Capacity(m³/min) | 1.2 | 1.95 | 2.2 | | 2. | 6 | 7 1 | 3.8 | | 6.5 | 9.5 | | |
| Utilization cinditions | A.The max Temp | at the inlet:80°C | B.The max ambi | net Tem | p:45°C C.V | Working p | ressure: | 10bar(Pressu | ire mo | ore than 10bar | can be specilized | | |
| Refrigerant | | 11' | R2 | 2/R407 | C/R134A | 4 | _ | :1- | | 731 | | | |
| Refrigerant compressor | 1/2HP | 1/2HP | 3/4HF | 3/4HP | | 3/4HP | | 1HP | 1 | -1/2HP | 2HP | | |
| Power | | AC 1 220V 50Hz | | | | | | | | | | | |
| Dia.of air iniet/outiet | 1" | 1" | 1" | | 1-1/2" | | 1- | 1/2" | P | 1-1/2" | 2-1/2" | | |
| Length(cm) | 70 | 70 | 70 | | 7 | 70 | | 100 | | 100 | 125 | | |
| Width(cm) | 42 | 42 | 42 | | 4 | 2 | | 50 | | 50 | 57 | | |
| Heigth(cm) | 71 | 71 | 71 | | 7 | 6 | | 85 | | 90 | 101 | | |
| Net weight(kg) | 40 | 45 | 50 | | 6 | 0 | | 100 | | 120 | 180 | | |
| Model | HD-100AC | HD-150 | AC HD-20 | DOAC | HD- | 300AC | HD | -400AC | Н | D-500AC | HD-600AC | | |
| Capacity(m³/min) | 13 19.5 26 39 49 65 | | | | | | | | | | 76 | | |
| Utilization cinditions | A.The max Temp at the inlet:80°C B.The max ambinet Temp:45°C C.Working pressure:10bar(Pressure more than 10bar can be specilized) | | | | | | | | | | | | |
| Dew Point Temp | 2-5°C (its atoms dew point is equal to-20°C | | | | | | | | | | | | |
| Refrigerant | R22/R407C/R134A | | | | | | | | | | | | |
| Refrigerant compressor | ЗНР | 4HP | 5HP | 5HP | | 7-1/2HP | | 8НР | | 10HP | 12-1/2HP | | |
| Power | AC 1 220V 50Hz | | | | | | | | | | | | |
| Dia.of air iniet/outiet | 2-1/2" | 3" | 3" | | 4' | | | 4" | | 5" | 5" | | |
| Length(cm) | 125 | 140 | 140 |) | 18 | 30 | | 180 | | 200 | 200 | | |
| Width(cm) | 57 | 63 | 63 | | 70 | | | 70 | 70 | | 80 | | |
| Heigth(cm) | 111 | 119 | 124 | | 14 | 10 | 140 | | 140 | | 150 | | |
| Net weight(kg) | 200 | 300 | 320 | | 400 | | 460 | | 600 | | 630 | | |
| Model | HD-300WC | HD-400WC | HD-500WC | HD-6 | 500WC | HD-70 | 0WC HD-1000 | | wc | HD-1500W0 | HD-2000W0 | | |
| Capacity(m³/min) | 35 | 45 | 55 | (| 65 | 75 | | 100 | | 150 | 200 | | |
| Utilization cinditions | A.The max Temp | at the inlet:80°C | B.The max ambir | net Temp | p:45°C C.W | Vorking pr | essure:1 | Obar(Pressur | re mo | re than 10bar o | an be specilized) | | |
| Dew Point Temp | | 2 | 2-5°C (its atoms | dew p | oint is ed | qual to-20 | 0°C | | | | | | |
| Refrigerant | | | R2 | 2/R407 | C/R134A | | | | | | | | |
| Refrigerant compressor | 7-1/2HP | 8HP | 10HP | 12-1 | /2HP | 15HP | • | 20HP | | 30HP | 40HP | | |
| Power | | | AC | 3 380\ | √ 50Hz | | | | | | · | | |
| Dia.of air iniet/outiet | 4" | 5" | 5" | | 6" | 6" | | 8" | | 8" | 10" | | |
| Dia.of Cooling Water pipe | 1-1/2" | 1-1/2" | 1-1/2" | 1-1 | /2" | 2" | | 2" | | 2-1/2" | 2-1/2" | | |
| The quantity of The cooing Water (L/min) | 96 | 175 | 175 | 2 | 250 | 250 |) | 375 | | 525 | 750 | | |
| The Water-cooling tower(T/n) | 10 | 15 | 20 | | 20 | 25 | | 30 | | 50 | 60 | | |
| Length(cm) | 155 | 180 | 190 | 2 | 200 | 200 |) | 220 | | 230 | 240 | | |
| Width(cm) | 96 | 110 | 120 | 1 | 125 | 125 | | 130 | | 160 | 270 | | |
| Heigth(cm) | 130 | 140 | 140 | 1 | 155 | 160 |) | 180 | | 200 | 130 | | |
| Net weight(kg) | 486 | 568 | 660 | 8 | 350 | 990 |) | 1160 | | 1450 | 1900 | | |

ABSORPTION AIR DRYER



Working conditions and technical specifications

| LAT. | ≤ 45°C | | | | | | |
|--------------------|---------------------------------|--|--|--|--|--|--|
| Working Pressure | 0.6~0.95MPa | | | | | | |
| Air Consumption | ≤7% | | | | | | |
| Inlet Oil Content | ≤0.1ppm | | | | | | |
| Pressure Dew Point | -20~-40°C | | | | | | |
| Adsorbent | Alumina, molecular sieving | | | | | | |
| Control Mode | Microcomputer Automatic Control | | | | | | |

Note: special standards can be customized

Check valve

Stainless steel check valve, stainless steel material, defend the corrosion



Controller

Intelligent control, autonomous develop and research, high precision



Muffler filter

The main material is made using attract good frequency performance, high temperature ultra-fine sound-absorbing glass wool as the main body, and the muffler filter by the special treatment of the US and other material combinations

Product characteristics

standards, ISO7183 adsorption standards, QS, pressure tank testing to design, manufacture, produce and test, ensure product safety and reliable operation.

reasonable structure of the tower and control procedures can ensure that compressed air and desiccant impact location and contact time. Adsorbent use national standard elevation purity alumina, molecular sieves, vacuum filling way, not to pink, long service life.

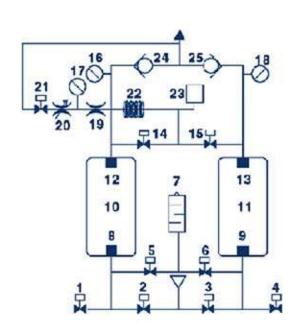
Using adsorption tank with pressure vessel certificate, safety performance is guaranteed.

Heater with high strength properties, high pressure resistance, resistant motor, good heating and insulation.

Adopt intelligent controller, show operation data on time, high precision, good system stability, easy to operate and learn.

High-performance pneumatic control valve, fast action response,long service life, good stability, With standard low consumption solenoid valve, high precision, action is fast.

Muffler filter, multi-fiber material, muffler material, equipped with unique design mechanical silencer, low noise.



- 1.4 air outlet valve 2.3 air inlet valve
- 5.6 reducing valve
- 7.filter
- 8. 9.Inlet diffuser 10.11 adsorption tank
- 12.13 outlet diffuser
- 14.15 regeneration valve
- 16.18 A,B tower pressure gauge
- 17 regeneration pressure gayge
- 19. restriction orifice
- 20.regeneration adjust valve
- 21. Reduced pressure shutoff valve 22.heater
- 23. Temperature sensor 24.25 air outlet check valve

slight heat regeneration adsorption air dryer system flow chart



TECHNICAL DATA FOR HEATLESS REGENERATION ADSORPTION AIR DRYER

| ТҮРЕ | | QH-015 | QH-020 | QH-026 | QH-038 | QH-069 | QH-085 | QH-110 | QH-140 | QH-180 |
|--------------------|-----------------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| Flowrate (Nm³/min) | | 1.5 | 2.0 | 2.6 | 3.8 | 6.9 | 8.5 | 11.0 | 14.0 | 18.0 |
| Adsorbe | ent Weight (Kg) | 28 | 40 | 55 | 90 | 155 | 200 | 250 | 305 | 345 |
| Inlet/outlet (Pt) | | G-3/4" | G1" | G1-1/4" | G1-1/4" | G1-1/2" | G1-1/2" | G2" | DN65 | DN65 |
| | Length | 670 | 670 | 860 | 860 | 860 | 860 | 1000 | 1330 | 1350 |
| Domensions | Width | 620 | 620 | 660 | 660 | 720 | 720 | 870 | 800 | 850 |
| (Mm) | Height | 1600 | 1600 | 1320 | 1450 | 1820 | 1820 | 1950 | 2200 | 2200 |
| Weight (Kg) | | 185 | 209 | 270 | 317 | 398 | 448 | 482 | 587 | 745 |

TECHNICAL DATA FOR HEATLESS REGENERATION ADSORPTION AIR DRYER

| TYPE | | QH-220 | QH-280 | QH-320 | QH-380 | QH-460 | QH-550 | QH-670 | QH-750 | QH-850 |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Flowrate (Nm³/min) | | 22.0 | 28.0 | 32.0 | 38.0 | 46.0 | 55.0 | 67.0 | 75.0 | 85.0 |
| Adsorbent Weight (Kg) | | 385 | 530 | 645 | 725 | 910 | 1080 | 1200 | 1320 | 1500 |
| Inlet/outlet (Pt) | | DN65 | DN80 | DN80 | DN100 | DN100 | DN125 | DN150 | DN150 | DN150 |
| | Length | 1370 | 1450 | 1650 | 1650 | 1650 | 2100 | 2150 | 2180 | 2320 |
| Domensions | Width | 950 | 1000 | 1560 | 1560 | 1610 | 1800 | 1850 | 2030 | 2150 |
| (Mm) | Height | 2150 | 2250 | 2250 | 2360 | 2580 | 2900 | 2950 | 2980 | 3200 |
| Weight (Kg) | | 895 | 1155 | 1207 | 1449 | 1652 | 1816 | 2325 | 2750 | 3125 |

TECHNICAL DATA FOR SLIGHT HEAT REGENERATION ADSORPTION AIR DRYER

| TYPE | | QH-026 | QH-038 | QH-069 | QH-085 | QH-110 | QH-140 | QH-180 | QH-220 | QH-280 | QH-320 | QH-380 | QH-460 |
|--------------|-------------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Flowrate (Nr | n³/min) | 2.6 | 3.8 | 6.9 | 8.5 | 11.0 | 14.0 | 18.0 | 22.0 | 28.0 | 32.0 | 38.0 | 46.0 |
| Adsorbent We | eight (Kg) | | 90 | 155 | 200 | 250 | 305 | 345 | 385 | 530 | 645 | 725 | 910 |
| Air Consun | nption | 0.18 | 0.266 | 0.476 | 0.595 | 0.77 | 0.98 | 1.19 | 1.54 | 1.96 | 2.38 | 2.94 | 4.06 |
| Heaing Pow | er (Kw) | 1.2 | 1.5 | 2 | 3 | 3.5 | 4 | 4.2 | 5 | 7 | 7.5 8 | | 10 |
| Inlet/outle | et (Pt) | G1-1/4" | G1-1/4" | G1-1/2" | G1-1/2 | ' G-2" | DN65 | DN65 | DN65 | DN80 | DN80 | DN100 | DN100 |
| | Length | 860 | 860 | 860 | 860 | 1000 | 1330 | 1350 | 1370 | 1450 | 1650 | 1650 | 1650 |
| Domensions | Width | 660 | 660 | 720 | 720 | 870 | 800 | 850 | 950 | 1000 | 1560 | 1560 | 1610 |
| (Mm) | Height | 1320 | 1450 | 1820 | 1820 | 1950 | 2200 | 2200 | 2150 | 2250 | 2250 | 2360 | 2580 |
| W | Weight (Kg) | | 322 | 429 | 489 | 572 | 715 | 845 | 924 | 1165 | 1235 | 1495 | 175 |

| TYP | E | QH-550 | QH-670 | QH-750 | QH-850 | QH-950 | QH-1100 | QH-1300 | QH-1500 | QH-1700 | QH-2300 | QH-2900 | QH-3700 |
|--------------|--------------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| Flowrate (Nr | Flowrate (Nm³/min) | | 67.0 | 75.0 | 85.0 | 95.0 | 110.0 | 130.0 | 150.0 | 170.0 | 230.0 | 290.0 | 370.0 |
| Adsorbent We | eight (Kg) | 1080 | 1200 | 1320 | 1500 | 1700 | 2200 | 2500 | 2800 | 3100 | 4200 | 5200 | 6800 |
| Air Consun | nption | 4.90 | 4.55 | 5.25 | 5.95 | 6.65 | 7.70 | 9.10 | 10.5 | 11.9 | 16.1 | 20.3 | 25.9 |
| Heaing Pow | Heaing Power (Kw) | | 15 | 20 | 22 | 28 | 33 | 39 | 45 | 50 | 70 | 85 | 110 |
| Inlet/outle | et (Pt) | DN125 | DN150 | DN150 | DN150 | DN150 | DN150 | DN150 | DN200 | DN200 | DN250 | DN250 | DN300 |
| | Length | 2100 | 2150 | 2180 | 2320 | 2400 | 2500 | 2600 | 2800 | 3000 | 3300 | 3500 | 3700 |
| Domensions | Width | 1800 | 1850 | 2030 | 2150 | 2200 | 2250 | 2280 | 2300 | 2350 | 2500 | 2800 | 3000 |
| (Mm) | Height | 2900 | 2950 | 2980 | 3200 | 3200 | 3300 | 3400 | 3400 | 3500 | 3500 | 3600 | 3700 |
| w | Weight (Kg) | | 2472 | 2912 | 3180 | 3350 | 3800 | 4100 | 4500 | 4800 | 6000 | 7100 | 8800 |

SERIES PRECISION FILTER

Product Features

- * European imported filter core, World-renowned brands, Professional-quality reliable
- * Precision filter use heavy-duty pressure casting aluminum shell:2.0MPA Inflation pressure leak can assure to operate safely
- * Internal use best flow mechanics to design, pressure drop losses small, saving energy
- * Special filter material:large flow and long operating life





Drain valve

By using the electronic drain valve to match the solenoid valve with the analog circuit solid state electronic timer, the condensed water of compressed air system can be discharged automatically and the discharge interval can be adjusted according to different needs.

Product Features

Easy installation, automatic maintenance-free.

The interval and discharge time can be adjusted and the test button is available.

Protection grade IP65, insulation grade H.

Equipped with filter ball valve, and drainage valve split into L-type structure. Shape dimension 106*47*91mm.

540g weight (including filter ball valves)







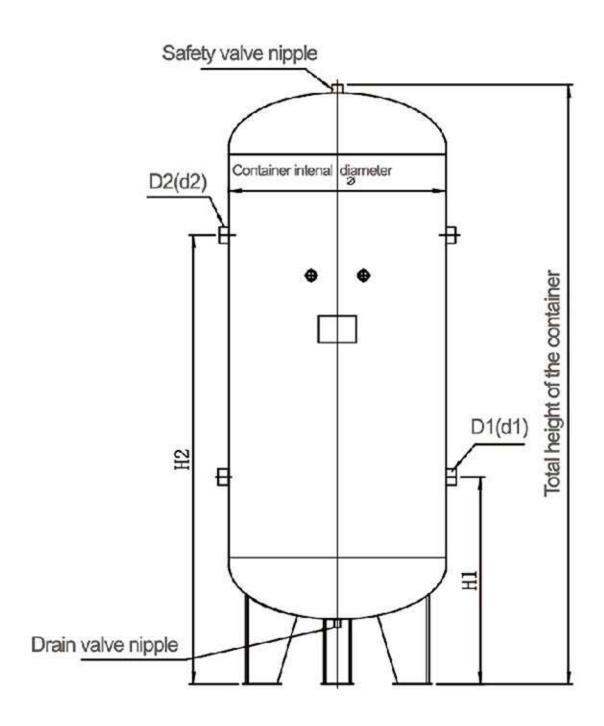
TECHNICAL DATA FOR PRECISION FILTER

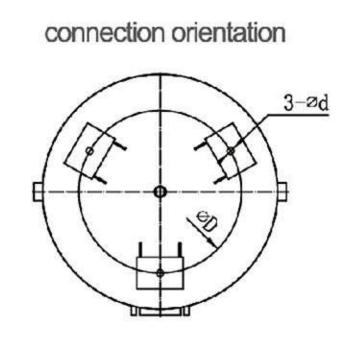
| | | Dimensions | m³/mi | in CFM | m³/min CFM | P/S/M/X | Weight (kg) | Workingprssure | |
|-------|--------|------------|--------|----------|------------|-----------------|-------------|----------------|-------|
| Model | A (mm) | B (mm) | C (mm) | 11171111 | III CEIVI | III/IIIIII CFIM | F/3/W/X | Weight (kg) | (bar) |
| HD004 | 267.0 | 243.0 | 89.0 | 0.4 | 14.1 | 1" | 1X004 | 1.1 | 16 |
| HD007 | 267.0 | 243.0 | 89.0 | 0.7 | 24.7 | 1" | 1X007 | 1.1 | 16 |
| HD015 | 267.0 | 243.0 | 89.0 | 1.5 | 53.0 | 1" | 1X015 | 1.1 | 16 |
| HD024 | 513.5 | 480.0 | 109.0 | 2.4 | 84.7 | 1/2" | 1X024 | 2.2 | 16 |
| HD035 | 513.5 | 480.0 | 109.0 | 3.5 | 123.6 | 1 1/2" | 1X035 | 2.2 | 16 |
| HD060 | 513.5 | 480.0 | 109.0 | 6.0 | 211.9 | 1 1/2" | 1X060 | 2.7 | 16 |
| HD090 | 550.0 | 509.5 | 150.0 | 9.0 | 317.8 | 2" | 1X090 | 4.25 | 16 |
| HD120 | 928.0 | 887.5 | 150.0 | 12.0 | 423.7 | 2" | 1X020 | 6.0 | 16 |
| HD150 | 928.0 | 887.5 | 150.0 | 15.0 | 529.7 | 2" | 1X150 | 6.0 | 16 |
| HD240 | 1225.5 | 1133.0 | 275.0 | 24.0 | 847.5 | PN16D65 | 1X240 | 28.5 | 12 |
| HD360 | 1512.0 | 1100.0 | 473.0 | 36.0 | 1271.2 | PN16D125 | 3X120 | 167 | 12 |
| HD450 | 1706.0 | 1265.0 | 473.0 | 45.0 | 1589.0 | PN16D150 | 3X150 | 140 | 12 |
| HD600 | 1812.0 | 1315.0 | 520.0 | 60.0 | 2118.8 | PN16D200 | 4X150 | 148 | 10 |

SERIES TANK









TECHNICAL DATA FOR TANK

| | | | | | Air inlet | | | Air outlet | ti | Sup | port | | Drain valve nipple |
|---------------------------------------|-------------|----------------------------------|------------------------------|----------------|------------------|-------------------|----------------|------------------|-------------------|-----------------|-----------------|---------------------|--------------------|
| Specification Volume/Working pressure | Design Temp | Total height of the container | Container intena diameter | Height (H1) | Diameter (D1) | Interface (d1) | Height (H2) | Diameter (D2) | Interface (d2) | Aperture (d) | Distance (D) | Safety valve nipple | |
| 0.3 / 0.8 | 150 | 1664 | 600 | 655 | 40 | Rp11/2 | 1255 | 40 | Rp11/2 | 20 | 420 | Rp 3/4 | R3/4 |
| 0.3 / 1.0 | 150 | 1666 | 600 | 656 | 40 | Rp11/2 | 1256 | 40 | Rp11/2 | 20 | 420 | Rp 3/4 | R3/4 |
| 0.3 / 1.3 | 150 | 1668 | 600 | 657 | 40 | Rp11/2 | 1257 | 40 | Rp11/2 | 20 | 420 | Rp 3/4 | R3/4 |
| 0.3 / 1.6 | 150 | 1670 | 600 | 658 | 40 | Rp11/2 | 1258 | 40 | Rp11/2 | 20 | 420 | Rp 3/4 | R3/4 |
| 0.5 / 0.8 | 150 | 2064 | 600 | 655 | 40 | Rp11/2 | 1655 | 40 | Rp11/2 | 20 | 420 | Rp 3/4 | R3/4 |
| 0.5 / 1.0 | 150 | 2066 | 600 | 656 | 40 | Rp11/2 | 1656 | 40 | Rp11/2 | 20 | 420 | Rp 3/4 | R3/4 |
| 0.5 / 1.3 | 150 | 2068 | 600 | 657 | 40 | Rp11/2 | 1657 | 40 | Rp11/2 | 20 | 420 | Rp 3/4 | R3/4 |
| 0.5 / 1.6 | 150 | 2070 | 600 | 658 | 40 | Rp11/2 | 1658 | 40 | Rp11/2 | 20 | 420 | Rp 3/4 | R3/4 |
| 0.6 / 0.8 | 150 | 1980 | 700 | 675 | 40 | Rp11/2 | 1545 | 40 | Rp11/2 | 24 | 490 | Rp 3/4 | R3/4 |
| 0.6 / 1.0 | 150 | 1982 | 700 | 676 | 40 | Rp11/2 | 1546 | 40 | Rp11/2 | 24 | 490 | Rp 3/4 | R3/4 |
| 0.6 / 1.3 | 150 | 1985 | 700 | 678 | 40 | Rp11/2 | 1578 | 40 | Rp11/2 | 24 | 490 | Rp 3/4 | R3/4 |
| 0.6 / 1.6 | 150 | 1987 | 700 | 679 | 40 | Rp11/2 | 1549 | 40 | Rp11/2 | 24 | 490 | Rp 3/4 | R3/4 |
| 1.0 / 0.8 | 150 | 2138 | 850 | 724 | 40 | Rp11/2 | 1654 | 40 | Rp11/2 | 24 | 595 | Rp 1 | R3/4 |
| 1.0 / 1.0 | 150 | 2408 | 800 | 697 | 40 | Rp11/2 | 1937 | 40 | Rp11/2 | 24 | 560 | Rp 1 | R3/4 |
| 1.0 / 1.3 | 150 | 2411 | 800 | 699 | 40 | Rp11/2 | 1939 | 40 | Rp11/2 | 24 | 560 | Rp 1 | R3/4 |
| 1.0 / 1.6 | 150 | 2413 | 800 | 670 | 40 | Rp11/2 | 1940 | 40 | Rp11/2 | 24 | 560 | Rp 1 | R3/4 |
| 1.5 / 0.8 | 150 | 2761 | 900 | 765 | 80 | Flange DN80 | 2265 | 80 | Flange DN80 | 24 | 630 | Rp 1 | R3/4 |
| 1.5 / 1.0 | 150 | 2765 | 900 | 768 | 80 | Flange DN80 | 2268 | 80 | Flange DN80 | 24 | 630 | Rp 1 | R3/4 |
| 1.5 / 1.3 | 150 | 2768 | 900 | 769 | 80 | Flange DN80 | 2269 | 80 | Flange DN80 | 24 | 630 | Rp 1 | R3/4 |
| 1.5 / 1.6 | 150 | 2770 | 900 | 770 | 80 | Flange DN80 | 2270 | 80 | Flange DN80 | 24 | 630 | Rp 1 | R3/4 |
| 2.0 / 0.8 | 150 | 2885 | 1000 | 784 | 80 | Flange DN80 | 2364 | 80 | Flange DN80 | 24 | 700 | Rp 1 | R3/4 |
| 2.0 / 1.0 | 150 | 2888 | 1000 | 786 | 80 | Flange DN80 | 2366 | 80 | Flange DN80 | 24 | 700 | Rp 1 | R3/4 |
| 2.0 / 1.3 | 150 | 2891 | 1000 | 787 | 80 | Flange DN80 | 2367 | 80 | Flange DN80 | 24 | 700 | Rp 1 | R3/4 |
| 2.0 / 1.6 | 150 | 3039 | 1000 | 761 | 80 | Flange DN80 | 2370 | 80 | Flange DN80 | 24 | 700 | Rp 1 | R3/4 |
| 3.0 / 0.8 | 150 | 3020 | 1200 | 848 | 100 | Flange DN80 | 2398 | 100 | Flange DN80 | 24 | 840 | Rp 1 | 1/4 R1 |
| 3.0 / 1.0 | 150 | 3024 | 1200 | 850 | 100 | Flange DN80 | 2400 | 100 | Flange DN80 | 24 | 840 | Rp 1 | 1/4 R1 |
| 3.0 / 1.3 | 150 | 3020 | 1200 | 848 | 100 | Flange DN80 | 2398 | 100 | Flange DN80 | 24 | 840 | Rp 1 | 1/4 R1 |
| 3.0 / 1.6 | 150 | 3024 | 1200 | 850 | 100 | Flange DN80 | 2400 | 100 | Flange DN80 | 24 | 840 | Rp 1 | 1/4 R1 |
| 4.0 / 0.8 | 150 | 3120 | 1400 | 917 | 125 | Flange DN80 | 2395 | 125 | Flange DN80 | 24 | 1050 | Rp 1 | 1/2 R1 |
| 4.0 / 1.0 | 150 | 3074 | 1400 | 934 | 125 | Flange DN80 | 2334 | 125 | Flange DN80 | 24 | 1050 | Rp 1 | 1/2 R1 |

ACCESSORIES









Variable-frequency drive

The compressed air system is the most effective method of saving energy is equal to the amount of gas production, the traditional air compressor by loading, unloading, starting, stopping, Intake throttling and other air volume adjustment to control the intake, these methods have low precision, valves and electrical components of electric appliances frequent deficiency. Frequency conversion compressor is achieved by changing the speed of the motor to achieve the gas control, so that the gas production volume with the change of gas consumption, not only to adjust the accuracy, but also greatly reduce the valve and electrical components of the operating frequency, both energy saving and reliable is the remarkable characteristic of frequency conversion compressor. Variable frequency compressor can be set up by setting the frequency pressure to get the best working pressure, the pressure is generally lower than the maximum working pressure of the compressor (unloading pressure) compressor will be more relaxed, the relationship between the leakage of pipe network will be reduced.

Energy efficient motor

Power is extremely strong, bring lower energy consumption, higher reliability, protection level is IP54, the protection of the internal dust, insulation class F. In order to ensure that the screw compressor to achieve reliable and durable, and to ensure that the industry's leading technology, our motor is in accordance with the requirements of the high level of motor manufacturers , such as : the motor is equipped with heavy SKF import bearings , we are still at the ends of the motor bearing housing is located in the lubrication grease filling port is particularly convenient for motor maintenance level is IP54, insulation class F grade, B grade heating . Due to the high level of protection , it is more effective to prevent water and dust from entering the motor windings, extending the service life of the motor. At present, compared with the same industry , the majority of manufacturers are using the IP23 protection level , and our company all the use of IP54 above the level of protection as the standard configuration of the product.

High efficient cooling system

Efficient cooling system to form a unique design and reasonable layout, high thermal efficiency, to ensure that both the high temperature, high humidity environment, can work continuously 24 hours a day.

The cooling system of the screw compressor is composed of oil cooler and compressed air cooler.

The cooling system of the screw air compressor is welded by the oil cooler and the compressed air. Using aluminium plate fin fin structure, unique structure, an increase of two times the heat exchange area, promote the spoiler, improve the heat transfer coefficient, the volume is small, (the volume is only general tube 1/3), light weight, high heat exchange efficiency.

Water cooled screw type air compressor will be installed directly in the cooler temperature control valve, simplify the circuit, reduce oil leakage problems caused by chance, at the same time, cooling system using 4 cooling fan work together, make full use of every inch of the cooler cooling area.



High efficiency screw machine

MAXTOP host: the use of third generation of asymmetric teeth, the main rotor five teeth, six vice rotor teeth, the gap between the teeth small, so that the loss of small, compared with the general efficiency of the screw compressor to improve the efficiency of nearly 25%, saving about 20%, the rotor with asymmetric type, with ball bearings and roller bearing and low speed operation, so wear less, maintenance costs less,long life. Screw machine is the heart of screw air compressor, its performance directly affects the operating cost and service life of the machine, advanced screw tooth shape, so that the machine's impact, vibration maximum reduction, and effectively extend the life of the moving parts, the best screw line speed and very high compression efficiency. MAXTOP patent host uses advanced type line. Its characteristic is: the Yin and Yang rotor diameter is equal, compared with the 5/6 or 4/5, the female rotor has a higher rigidity, therefore is not easy to deformation, the internal leakage loss is small; has the best screw thread speed;

The main engine type line is the grinding process, and the screw is more accurate. The maximum reduction of the force of the screw, the effective extension of the life of the moving parts.

The noise of the screw type air compressor is 65 dB, which indicates that the processing precision of the compressor is high, the operation is small, the impact is small, and the main engine is designed and processed with advanced international level.

MAXTOP host has high efficiency, the best screw line speed than similar products on the market more than 5% energy saving.

Intelligent control system

All function in your fingertips

Microcomputer intelligent monitoring system, automatic operation, Chinese display, touch key, operating personnel without special training.

Friendly menu interface, operating parameters, the fault alarm down protection, can achieve PLC remote control, RS485 communication port to achieve multi unit interlocking control.

Save time and money and self diagnosis

Intelligent controller for continuous monitoring of the 12 important operating parameters of the compressor, when the deviation from the preset value, the controller automatically issued a warning or stop, while showing the cause of the failure, and write to the history of the fault records.

Automatic protection device for advanced microcom puter programming

Adopt advanced microcomputer programming automatic protection device control system, can realize the oil filter blockage, blockage of fine oil separator, air filter clogging warning, system too high exhaust temperature warning, main motor phase sequence error automatic protection. The control system has self diagnosis and protection function, and it is clear that all operation conditions are indicated, can be implemented without the 24 hours of work, is the most advanced modern screw compressor configuration.



















Oil gas separator

Screw air compressor produces a lot of heat in the compressed air , usually we need to spray into the main engine lubricating oil, which mainly plays the role of heat dissipation, noise reduction, lubrication and sealing . Because of the discharged through the exhaust port for the mixture of oil and gas, need to go through the oil and gas separator system, on the one hand , saving operating costs (fuel consumption) , but also to ensure that the exhaust gas is clean.

The oil and gas separator adopts the rotary type design for easy removal and replacement, the separator core can separate the air, and the residual oil content is about 1-2ppm, which can improve the cleanliness of compressed air, and reduce the pollution of the residual oil to the compressed air and the gas equipment.

Minimum pressure valve

The world famous products, to ensure that the required pressure oil circulating compression system, prevent backflow of gas.

Oil filter

Using the rotary filter, completely remove impurities in the lubricant, the internal configuration of the temperature control valve, to meet the regional temperature, to ensure the quality of the lubricating oil and oil pressure, easy to replace and without oil leakage.

Intake valve

Using the world famous products, according to the requirements of the amount of system 0-100%, automatic adjustment of gas consumption, reduce operating costs, a new professional design of the integrated intake control valve, the machine's light load start, load operation, reducing the operation of automatic control, to ensure the operation of the main engine is absolutely safe and economical.

High efficiency, long life of the transmission structure

Whether it is a belt drive, or a flexible coupling, the design life of 25000 hours, to ensure that use 8000 hours or more than 2 years.