



Best Smart  
Solution

## Screw Air Compressor ZLS-Hi+ 07~350HP



ZLS-Hi+ 07~175HP

ZLS-Hi+ 200~350HP

## Permanent Magnet VSD Screw Air Compressor

Energy saving up to 50%

### IE4 Low RPM permanent magnet motor



Lowest to 1500 RPM makes higher torque, lower vibration and outstanding efficiency.

### Selected Low RPM Rotor with the best matching ratio

Optimized air end matching ratio based on long time research and type testing, makes the air delivery 10% higher than same power machines of others.

Own patents 3<sup>rd</sup> generation asymmetric rotor profile and optimized high efficiency design makes higher air delivery.

### High Quality Professional driving Inverter

Building block design and built-in MODBUS, RS485, RS232 serial communication design satisfied extension, maintenance and customers' multi requirements.

### Original Creation of Liquid Cooling System

Better and more reliable cooling effect controls the temperature of permanent magnet motor within 70~80 °C. No demagnetization, low motor current and easy maintenance.

### Intelligent Control and Touch Panel

Data display / alarm / warning / protection / setting / automatic control / remote control

### Low Noise Design

All new design gear or coaxial driving, low speed running in an enclosed cabinet structure, high polymer acoustical materials make the compressor noise decreased to average 20%.



## Technical Data Sheet

| Model                                                     | Mpa                       | ZLS07Hi+                                                            | ZLS10Hi+ | ZLS15Hi+ | ZLS20Hi+ | ZLS30Hi+ | ZLS40Hi+ | ZLS50Hi+ | ZLS60Hi+ |
|-----------------------------------------------------------|---------------------------|---------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Max air displacement/<br>discharge pressure<br><br>m³/min | 0.6                       | 1.47                                                                | 1.85     | 2.8      | 3.49     | 4.7      | 6.5      | 7.8      | 9.45     |
|                                                           | 0.7                       | 1.4                                                                 | 1.73     | 2.6      | 3.3      | 4.4      | 6.0      | 7.3      | 8.8      |
|                                                           | 0.8                       | 1.32                                                                | 1.6      | 2.4      | 3        | 4.2      | 5.6      | 6.8      | 8.19     |
|                                                           | 1.0                       | /                                                                   | 1.3      | 1.9      | 2.6      | 3.6      | 5.1      | 5.9      | 7.2      |
| Working Mode of Cooler                                    | Air cooling/water cooling |                                                                     |          |          |          |          |          |          |          |
| Discharge Temperature                                     | °C                        | Air cooling < environmental temperature + 8°C, water cooling < 40°C |          |          |          |          |          |          |          |
| Volume of lubricating oil                                 | L                         | 10                                                                  | 10       | 12       | 12       | 12       | 25       | 25       | 28       |
| Noise                                                     | dB(A)                     | 61 ± 2                                                              | 61 ± 2   | 61 ± 2   | 62 ± 2   | 64 ± 2   | 64 ± 2   | 64 ± 2   | 65 ± 2   |
| Motor                                                     | Power                     | kW/HP                                                               | 5.5/7    | 7.5/10   | 11/15    | 15/20    | 22/30    | 30/40    | 45/60    |
|                                                           | Start mode                | VSD Start                                                           |          |          |          |          |          |          |          |
|                                                           | Voltage                   | 220V/380V/415V 50Hz/60Hz                                            |          |          |          |          |          |          |          |
| Dimension                                                 | Length                    | mm                                                                  | 950      | 950      | 1050     | 1050     | 1250     | 1400     | 1550     |
|                                                           | Width                     | mm                                                                  | 700      | 750      | 800      | 800      | 900      | 950      | 1000     |
|                                                           | Height                    | mm                                                                  | 1000     | 1100     | 1150     | 1150     | 1250     | 1350     | 1480     |
| Weight                                                    | Kg                        | 288                                                                 | 348      | 368      | 458      | 575      | 640      | 828      | 1120     |
| Caliber of Air-vent                                       | inch                      | 3/4"                                                                | 1"       | 1-1/4"   | 1-1/4"   | 1-1/4"   | 1-1/4"   | 1-1/2"   | 1-1/2"   |
| Caliber of cooling nozzle                                 | inch                      | /                                                                   | /        | 3/4"     | 3/4"     | 3/4"     | 3/4"     | 3/4"     | 1"       |
| Discharge of cooling water                                | L/min                     | /                                                                   | /        | 60       | 60       | 80       | 80       | 80       | 200      |

| Model                                                     | Mpa                       | ZLS75Hi+                                                            | ZLS100Hi+ | ZLS125Hi+ | ZLS150Hi+ | ZLS175Hi+ | ZLS200Hi+ | ZLS275Hi+ | ZLS350Hi+ |
|-----------------------------------------------------------|---------------------------|---------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Max air displacement/<br>discharge pressure<br><br>m³/min | 0.6                       | 12.7                                                                | 16.8      | 20.37     | 25.6      | 28.0      | 34.8      | 41.8      | 48.6      |
|                                                           | 0.7                       | 11.9                                                                | 15.6      | 19.0      | 23.8      | 26.8      | 32.4      | 38.9      | 45.2      |
|                                                           | 0.8                       | 11.0                                                                | 14.49     | 17.6      | 22.1      | 24.9      | 30.1      | 36.17     | 42.03     |
|                                                           | 1.0                       | 8.9                                                                 | 12.6      | 14.1      | 20.6      | 23.2      | 26.8      | 32.4      | 38.4      |
| Working Mode of Cooler                                    | Air cooling/water cooling |                                                                     |           |           |           |           |           |           |           |
| Discharge Temperature                                     | °C                        | Air cooling < environmental temperature + 8°C, water cooling < 40°C |           |           |           |           |           |           |           |
| Volume of lubricating oil                                 | L                         | 48                                                                  | 60        | 60        | 70        | 94        | 94        | 150       | 185       |
| Noise                                                     | dB(A)                     | 65 ± 2                                                              | 66 ± 2    | 66 ± 2    | 67 ± 2    | 67 ± 2    | 70 ± 2    | 80 ± 2    | 82 ± 2    |
| Motor                                                     | Power                     | kW/HP                                                               | 55/75     | 75/100    | 90/125    | 110/150   | 132/175   | 160/200   | 200/275   |
|                                                           | Start mode                | VSD Start                                                           |           |           |           |           |           |           |           |
|                                                           | Voltage                   | 220V/380V/415V 50Hz/60Hz                                            |           |           |           |           |           |           |           |
| Dimension                                                 | Length                    | mm                                                                  | 1800      | 1850      | 1950      | 2490      | 3000      | 3200      | 3400      |
|                                                           | Width                     | mm                                                                  | 1110      | 1300      | 1350      | 1750      | 2000      | 2050      | 2200      |
|                                                           | Height                    | mm                                                                  | 1480      | 1600      | 1630      | 1950      | 2050      | 2050      | 2190      |
| Weight                                                    | Kg                        | 1300                                                                | 1650      | 2400      | 3300      | 3800      | 5600      | 6500      | 7900      |
| Caliber of Air-vent                                       | inch                      | 2"                                                                  | 2"        | 2"        | DN65      | DN80      | DN80      | DN100     | DN100     |
| Caliber of cooling nozzle                                 | inch                      | 1"                                                                  | 1-1/2"    | 1-1/2"    | 1-1/3"    | 1-1/4"    | 1-1/2"    | 2         | 2         |
| Discharge of cooling water                                | L/min                     | 200                                                                 | 200       | 200       | 200       | 300       | 300       | 400       | 400       |

Specification Subject To Change Without Notice In Advance.



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