


Specification for AA3(22kW- 355kW) Water Cooled

| Model | | AA3-22W | AA3-37W | AA3-45W | AA3-55W | AA3-75W | AA3-90W | AA3-110W | AA3-132W | AA3-160W | AA3-185W | AA3-250W | AA3-315W | AA3-355W | |
|------------------------|--|---|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|-----|
| Compressor | Air Flow (m ³ /min) | 0.8MPa 3.6 | 6.5 | 8.0 | 9.8 | 13.1 | 16.8 | 20.0 | 23.2 | 28.2 | 32.3 | 41.8 | 52.3 | 54 | |
| | Discharge Temperature | Ambient Temperature +15°C (While ambient temperature lower than 30°C) | | | | | | | | | | | | | |
| | Air Outlet Size (Inch) | 1 1/4" | 1 1/2" | 1 1/2" | DN40-16 | DN50-16 | DN50-16 | DN80-16 | DN80-16 | DN80-16 | DN100-16 | DN100-16 | DN125-16 | DN125-16 | |
| | Transmission Mode | Coupling Transmission | | | | | | | | | | | | | |
| | Lubricant Volume(Liter) | 19 | 22.5 | 22.5 | 60 | 65 | 70 | 80 | 85 | 90 | 95 | 160 | 160 | 180 | |
| | Capacity Control | 0-100% Stepless Control | | | | | | | | | | | | | |
| Motor | Max Allowable Ambient Temp(°C) | 45°C | | | | | | | | | | | | | |
| | Rated Output (kW) | 22 | 37 | 45 | 55 | 75 | 90 | 110 | 132 | 160 | 185 | 250 | 315 | 355 | |
| | Terminal Box | On the Top | | | | | | | | | | | | | |
| | Voltage (V)/Frequency (Hz) | 380V/440V/50Hz/60Hz | | | | | | | | | | | | | |
| Cooler | Type | TEFC | | | | | | | | | | | | | |
| | Starting | Y-A | | | | | | | | | | | | | |
| | Cooling Mode | Water Cooled | | | | | | | | | | | | | |
| | Type | Shell and Tube | | | | | | | | | | | | | |
| | Inlet Water Pressure(Mpa) | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.4 |
| Water Flow(L/m) | 50 | 60 | 60 | 84 | 84 | 116 | 266 | 266 | 340 | 340 | 700 | 850 | 850 | | |
| Safety Protection | Safety Valve, High Discharge Temperature and Pressure Protection, Over Current Protection, Phase Loss/Phase Sequence Monitoring | | | | | | | | | | | | | | |
| Maintenance Indication | Air Filter, Oil Filter, Fine Separator, Oil Change, Motor Greasing | | | | | | | | | | | | | | |
| Micro Controller | Digital Temperature/Pressure Display Control, Auto Running/Stop Control, Timer Running/Stop Control, Master/Slave Interlock Control (Optional), Scalable Central Monitor (Optional). | | | | | | | | | | | | | | |
| Net Weight (kg) | 800 | 825 | 800 | 1700 | 1900 | 2500 | 2900 | 3000 | 3600 | 3750 | 4400 | 5000 | 5900 | | |
| Outline Dimension | Length (mm) | 1500 | 1500 | 1650 | 1800 | 1960 | 2200 | 2500 | 2500 | 2950 | 2950 | 3400 | 3400 | 4200 | |
| | Width (mm) | 970 | 1100 | 1200 | 1290 | 1500 | 1450 | 1540 | 1540 | 1700 | 1700 | 1800 | 1800 | 2100 | |
| | Height (mm) | 1570 | 1570 | 1200 | 1500 | 1500 | 1670 | 1670 | 1670 | 1800 | 1800 | 1900 | 1900 | 2200 | |

- Note: All the above models can also be offered with Variable Frequency Drive (VFD)
- The technical data is based on ISO1217, suction temperature 20°C; relative humidity 60%; suction pressure 0.1MPa, Oil viscosity VG32 with testing tolerance ± 5%.
- In addition to the above-mentioned models: 0.4MPa~1.6MPa, Please contact us for other options.
- Standard power source 50Hz/60Hz; 380V/440V 3 phase. Please contact us for other power source.
- Water cooled model is available for models above 45kW.
- Hanbell reserves the right to change the design without notice.



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AA3 SERIES

HANBELL SCREW AIR COMPRESSOR

AA3 Direct Driven



Rigidity structure modularity

All covered body, line mode, straight - forward. Convenient for operation computer assistance design, body, motor, chassis for precise assemble Separated shock and decrease noise.
Rigidity of the chassis, for convenient mount.

Stability, long - lived, Efficiency brand motor

F Rateinsulation. Ip54 protecting rate, safe and stable Safe and stable Outlay nipple, convenient maintenance
Optimization stator and rotor design, stable, long - lived

Expert certified, Vertical air/oil pail design

No - oil return pipe design avoid the oil return
Inner - setting filter, for efficient disjunction air/oil
Vertical oil pail, convenient adding/change oil

High quality cooling system with European Design

Design idea from Gemany, inner setting modular for metal body with inlet path and outlet path, increase cooling efficiency
Air cooling model with warp plate. Air cooler join oil cooler, increase the heat exchange efficiency
Cooling fan designed with special angle, ensure high efficiency for heat thermolysis and decrease the noise and ensure the working at the right temp

Professional, passion

Consultation for lectotype base on the pressure/air volume. Advice base on the room /position.
Consultation for after - treatment equipment
Consultation for specification performance / lectotype



High Efficiency Design

Patented rotor profiles and heavy duty bearing extend the life cycle of compressors.



Durable Rigid Piping

Rigid seamless piping provides additional protection against air and oil leakage.



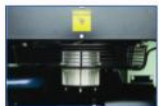
Intelligent Control System

through its intelligent Control System, Hanbell's compressors constantly monitor the operating parameters, maintenance and alarm history.



Best efficiency Directly transmission design

Directly transmission, Low noise, High efficiency rate
Good coaxial for the mainframe with motor
Equilibration Stress for bushing for long - lived



Excellent Cooling System

Uniquely designed cooling system comprised of fin shaped oil and after cooler lead to higher efficiency in heat exchange thus lowering the working temperature of intake and discharge air.



Reliable suction valve kit

Adopt the high reliable and durable international famous suction valve brand.

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|--------------------------------|--|-------------------------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| Air Flow (m ³ /min) | 0.8MPa 3.6 | 6.5 | 7.0 | 9.8 | 13.1 | 16.8 | 20.0 | 23.2 | 28.2 | 32.3 | 41.8 | 52.3 | 54.0 | |
| Compressor | Discharge Temperature Ambient Temperature +15°C (While ambient temperature lower than 30°C) | | | | | | | | | | | | | |
| | Air Outlet Size (Inch) | 1 1/4" | 1 1/2" | 1 1/2" | DN40-16 | DN50-16 | DN50-16 | DN80-16 | DN80-16 | DN80-16 | DN100-16 | DN100-16 | DN125-16 | DN125-16 |
| | Transmission Mode | Coupling Transmission | | | | | | | | | | | | |
| | Lubricant Volume(Liter) | 19 | 22.5 | 22.5 | 60 | 65 | 70 | 80 | 85 | 90 | 95 | 160 | 160 | 180 |
| | Capacity Control | 0-100% Stepless Control | | | | | | | | | | | | |
| | Max Allowable Ambient Temp(C) | 45°C | | | | | | | | | | | | |
| Motor | Rated Output (kW) | 22 | 37 | 45 | 55 | 75 | 90 | 110 | 132 | 160 | 185 | 250 | 315 | 355 |
| | Terminal Box | On the Top | | | | | | | | | | | | |
| | Voltage (V)/Frequency (Hz) | 380V/440W/50Hz/60Hz | | | | | | | | | | | | |
| | Type | TEFC | | | | | | | | | | | | |
| Cooler | Starting | Y-A | | | | | | | | | | | | |
| | Cooling Mode | Air Cooled | | | | | | | | | | | | |
| | Fan Power (kW) | 0.37 | 0.75 | 1.5 | 1.5 | 0.37x2 | 0.75x2 | 1.5x2 | 1.5x2 | 2.2x2 | 2.2x2 | 2.2x2 | 2.2x2 | 3.0x2 |
| Air Flow (m ³ /min) | 97 | 183 | 200 | 194 | 194 | 470 | 633 | 633 | 750 | 750 | 1100 | 1100 | 1800 | |
| Safety Protection | Safety Valve, High Discharge Temperature and Pressure Protection, Over Current Protection, Phase Loss/Phase Sequence Monitoring | | | | | | | | | | | | | |
| Maintenance Indication | Air Filter, Oil Filter, Fine Separator, Oil Change, Motor Greasing | | | | | | | | | | | | | |
| Micro Controller | Digital Temperature/Pressure Display Control, Auto Running/Stop Control, Timer Running/Stop Control, Master/Slave Interlock Control (Optional), Scalable Central Monitor (Optional). | | | | | | | | | | | | | |
| Net Weight (kg) | 800 | 825 | 850 | 1700 | 1900 | 2600 | 3300 | 3400 | 3800 | 3950 | 4400 | 5000 | 5900 | |
| Outline Dimension | Length (mm) | 1500 | 1500 | 1750 | 1800 | 1960 | 2550 | 2760 | 2760 | 2950 | 2950 | 3400 | 3400 | 4200 |
| | Width (mm) | 970 | 1100 | 1210 | 1290 | 1500 | 1420 | 1640 | 1640 | 2000 | 2000 | 2000 | 2000 | 2100 |
| | Height (mm) | 1570 | 1570 | 1650 | 1500 | 1500 | 1860 | 1900 | 1900 | 2000 | 2000 | 2100 | 2100 | 2200 |



Note: All the above models can also be offered with variable Frequency Drive (VFD)

- The technical data is based on ISO 1217, suction temperature 20°C; relative humidity 60%; suction pressure 0.1MPa, Oil viscosity VG32 with testing tolerance ± 5%.
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