AXIAL FAN WITH EXTERNAL ROTOR MOTOR

1. YWF series axial fans are external rotor motors. These motors have characteristics of compact structure, convenient installation and high efficiency etc.

2. YWF series external rotor motors have two kinds, single phase asynchronous operation and three phases asynchronous operation. They are suitable for commercial freezer and cold storage room, ice machine, air cooling machine, water chiller, condensing unit, central air-conditioning and heater, etc.

3. YWF series 100% speed control motor with low starting current. The insulation class of motor is B or F, and the protection class is IP54. All motors have thermal protector in the winding.

4. Voltage: The voltage of the single phase motor is 120V/60Hz, 220V/50Hz. The voltage of three phases motor is 380V/50Hz, we can also supply other fan motors with connection box for clients’ choices.

5. YWF fans can be controlled speed by frequency transformer or voltage inverter, three phases fans can be adjusted double-speed by Y/Δ exchange, or variety speeds by different connection.

6. The axial fans are available with fan guard grill and without guard grill, operating with 200mm to 900mm diameter fan blades. We can offer different installation ways like cylinder (inlet ring), wall ring plate, round frame, etc.

7. We can supply the fan motors with capacitor box or electrical wire for clients’ choices. The standard length of electrical wire on the 800 and 900mm is 1.5m.

8. The service life of motors is more than 30,000 hours.

9. The useable ambient temperature is from -30 °C to 60 °C

10. Before operating the motor, make sure to put the earth wire of the motor connected with the external grounding device.

11. Most of External Rotor Motors have passed UL approval in America, RHOS, CE approval in Europe and CCC safety certificate in China.
Axial Fan With External Rotor Motor YWF200

- The diameter of the fan blade: 200 mm
- Material: Guard Grille: steel, phosphated and coated in black plastic
  - Wall ring: sheet steel, re-galvanised and coated in black plastic
  - Blades: sheet steel
  - Rotor: encased in aluminium
- Number of blades: 5
- Direction of rotation: direction of air flow “V” counter-clockwise, direction of air flow “A” clockwise seen on rotor
- Type of protection: IP54 or IP44 rating for protection against dust and water
- Approvals: UL, CE, CCC approval
- Insulation class: B or F
- Mode of operation: Continuous operation (S1)
- Bearings: Maintenance-free ball bearings
- Ambient temperature: -30 °C to 60 °C

For more information about the installation ways, please refer to the overview of axial fan with external rotor motor.

1. Performance parameters

<table>
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<th>MODEL</th>
<th>VOLTAGE</th>
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<th>SPEED</th>
<th>MAX AIR FLOW</th>
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2. Shape and the size of installation

3. Air volume and static pressure curve
Axial Fan With External Rotor Motor YWF250

- The diameter of the fan blade : 250 mm
- Material: Guard Grille : steel, phosphated and coated in black plastic
  Wall ring : sheet steel, re-galvanised and coated in black plastic
  Blades : sheet steel
  Rotor : coated in black plastic
- Number of blades : 5
- Direction of rotation : direction of air flow “S” counter-clockwise, direction of air flow “B” clockwise seen on rotor
- Type of protection : IP54 or IP44 rating for protection against dust and water
- Approvals : UL, CE, CCC approval
- Insulation class : B or F
- Mode of operation : Continuous operation (S1)
- Bearings : Maintenance- free ball bearings
- Motor protection : without TOP, TOP wired internally
- Cable exit : lateral
- Protection class : I

1. Performance parameters

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<th>CURRENT A</th>
<th>INPUT W</th>
<th>SPEED RPM</th>
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2. Shape and the size of installation

3. Air volume and static pressure curve
Axial Fan With External Rotor Motor YWF300

- The diameter of the fan blade: 300 mm
- Material: Guard Grille: steel, phosphated and coated in black plastic
  Wall ring : sheet steel, re-galvanised and coated in black plastic
  Blades : sheet steel
  Rotor : coated in black plastic
- Number of blades: 5
- Direction of rotation: direction of air flow “S” counter-clockwise, direction of air flow “B” clockwise seen on rotor
- Type of protection: IP54 or IP44 rating for protection against dust and water
- Approvals: UL, CE, CCC approval
- Insulation class: B or F
- Mode of operation: Continuous operation (S1)
- Bearings: Maintenance-free ball bearings
- Motor protection: Design with thermal protection device
- Cable exit: lateral
- Protection class: I

For more information about the installation ways, please refer to the overview of axial fan with external rotor motor.

1. Performance parameters

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<th>SPEED RPM</th>
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2. Shape and the size of installation

3. Air volume and static pressure
Axial Fan With External Rotor Motor YWF350

- The diameter of the fan blade: 350 mm
- Material: Guard Grille: steel, phosphated and coated in black plastic
  Wall ring: sheet steel, re-galvanised and coated in black plastic
  Blades: sheet steel
  Rotor: coated in black plastic
- Number of blades: 5
- Direction of rotation: direction of air flow “S” counter-clockwise, direction of air flow “B” clockwise seen on rotor
- Type of protection: IP54 or IP44 rating for protection against dust and water
- Approvals: UL, CE, CCC approval
- Insulation class: B or F
- Mode of operation: Continuous operation (S1)
- Bearings: Maintenance- free ball bearings
- Motor protection: without TOP, TOP wired internally
- Cable exit: lateral
- Protection class: I

For more information about the installation ways, please refer to the overview of axial fan with external rotor motor.

1. Performance parameters

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2. Shape and the size of installation

3. Air volume and static pressure curve
Axial Fan With External Rotor Motor YWF400

- The diameter of the fan blade: 400 mm
- Material: Guard Grille: steel, phosphated and coated in black plastic
  Wall ring: sheet steel, re-galvanised and coated in black plastic
  Blades: sheet steel
  Rotor: coated in black plastic
- Number of blades: 5
- Direction of rotation: direction of air flow “S” counter-clockwise, direction of air flow “B” clockwise seen on rotor
- Type of protection: IP54 or IP44 rating for protection against dust and water
- Approvals: UL, CE, CCC approval
- Insulation class: B or F
- Mode of operation: Continuous operation (S1)
- Bearings: Maintenance- free ball bearings
- Motor protection: without TOP, TOP wired internally
- Cable exit: lateral
- Protection class: I

For more information about the installation ways, please refer to the overview of axial fan with external rotor motor.

1. Performance parameters

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<th>MODEL</th>
<th>VOLTAGE V</th>
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<th>INPUT W</th>
<th>SPEED RPM</th>
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2. Shape and the size of installation

3. Air volume and static pressure curve
Axial Fan With External Rotor Motor YWF450

- The diameter of the fan blade: 450 mm
- Material: Guard Grille: steel, phosphated and coated in black plastic
  Wall ring: sheet steel, re-galvanised and coated in black plastic
  Blades: sheet steel
  Rotor: coated in black plastic
- Number of blades: 5
- Direction of rotation: direction of air flow "S" counter-clockwise, direction of air flow "B" clockwise seen on rotor
- Type of protection: IP54 or IP44 rating for protection against dust and water
- Approvals: UL, CE, CCC approval
- Insulation class: B or F
- Mode of operation: Continuous operation (S1)
- Bearings: Maintenance-free ball bearings
- Motor protection: without TOP, TOP wired internally
- Cable exit: lateral
- Protection class: I

For more information about the installation ways, please refer to the overview of axial fan with external rotor motor.

1. Performance of parameter

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<th>SPEED RPM</th>
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2. Shape and the size of installation

3. Air volume and static pressure curve
Axial Fan With External Rotor Motor YWF500

- The diameter of the fan blade: 500 mm
- Material: Guard Grille: steel, phosphated and coated in black plastic
  Wall ring: sheet steel, re-galvanised and coated in black plastic
  Blades: sheet steel
  Rotor: coated in black plastic
- Number of blades: 5
- Direction of rotation: direction of air flow “S” counter-clockwise, direction of air flow “B” clockwise seen on rotor
- Type of protection: IP54 or IP44 rating for protection against dust and water
- Approvals: UL, CE, CCC approval
- Insulation class: B or F
- Mode of operation: Continuous operation (S1)
- Bearings: Maintenance- free ball bearings
- Motor protection: without TOP, TOP wired internally
- Cable exit: lateral
- Protection class: I

For more information about the installation ways, please refer to the overview of axial fan with external rotor motor.

1. Performance parameters

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<th>VOLTAGE V</th>
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<th>INPUT W</th>
<th>SPEED RPM</th>
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2. Shape and the size of installation

3. Air volume and static pressure curve
Axial Fan With External Rotor Motor YWF550

- The diameter of the fan blade: 550 mm
- Material: Guard Grille: steel, phosphated and coated in black plastic
  Wall ring: sheet steel, re-galvanised and coated in black plastic
  Blades: sheet steel
  Rotor: coated in black plastic
- Number of blades: 5
- Direction of rotation: direction of air flow “S” counter-clockwise, direction of air flow “B” clockwise seen on rotor
- Type of protection: IP54 or IP44 rating for protection against dust and water
- Approvals: UL, CE, CCC approval
- Insulation class: B or F
- Mode of operation: Continuous operation (S1)
- Bearings: Maintenance-free ball bearings
- Motor protection: without TOP, TOP wired internally
- Cable exit: lateral
- Protection class: I

1. Performance parameters

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2. Shape and the size of installation

3. Air volume and static pressure volume
Axial Fan With External Rotor Motor YWF600

- The diameter of the fan blade: 600 mm
- Material: Guard Grille: steel, phosphated and coated in black plastic
  Wall ring: sheet steel, re-galvanised and coated in black plastic
  Blades: sheet steel
  Rotor: coated in black plastic
- Number of blades: 5
- Direction of rotation: direction of air flow “S” counter-clockwise, direction of air flow “B” clockwise seen on rotor
- Type of protection: IP54 or IP44 rating for protection against dust and water
- Approvals: UL, CE, CCC approval
- Insulation class: B or F
- Mode of operation: Continuous operation (S1)
- Bearings: Maintenance-free ball bearings
- Motor protection: Design with thermal protection device
- Cable exit: lateral
- Protection class: I

For more information about the installation ways and other models, please refer to the overview of axial fan with external rotor motor.

1. Performance parameter

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</table>

2. Shape and the size of installation

3. Air volume and static pressure curve
Axial Fan With External Rotor Motor YWF630

- The diameter of the fan blade: 630 mm
- Material: Guard Grille: steel, phosphated and coated in black plastic
  Wall ring: sheet steel, re-galvanised and coated in black plastic
  Blades: sheet steel
  Rotor: coated in black plastic
- Number of blades: 5
- Direction of rotation: direction of air flow “S” counter-clockwise, direction of air flow “B” clockwise seen on rotor
- Type of protection: IP54 or IP44 rating for protection against dust and water
- Approvals: UL, CE, CCC approval
- Insulation class: B or F
- Mode of operation: Continuous operation (S1)
- Bearings: Maintenance- free ball bearings
- Motor protection: without TOP, TOP wired internally
- Cable exit: lateral
- Protection class: I

1. Performance parameters

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLTAGE V</th>
<th>FREQUENCY Hz</th>
<th>CURRENT A</th>
<th>INPUT W</th>
<th>SPEED RPM</th>
<th>MAX AIR FLOW m³/h</th>
<th>CAPACITOR μF</th>
<th>NOISE dB(A)</th>
<th>CURVE</th>
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2. Shape and the size of installation

3. Air volume and static pressure curve
Axial Fan With External Rotor Motor YWF710

- The diameter of the fan blade: 710 mm
- Material: Guard Grille: steel, phosphated and coated in black plastic
  Wall ring: sheet steel, re-galvanised and coated in black plastic
  Blades: sheet steel
  Rotor: coated in black plastic
- Number of blades: 7
- Direction of rotation: direction of air flow “S” counter-clockwise, direction of air flow “B” clockwise seen on rotor
- Type of protection: IP54 or IP44 rating for protection against dust and water
- Approvals: UL, CE, CCC approval
- Insulation class: B or F
- Mode of operation: Continuous operation (S1)
- Bearings: Maintenance- free ball bearings
- Motor protection: without TOP, TOP wired internally
- Cable exit: lateral
- Protection class: I

For more information about the installation ways, please refer to the overview of axial fan with external rotor motor.

1. Performance parameter

<table>
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<tr>
<th>MODEL</th>
<th>VOLTAGE V</th>
<th>FREQUENCY Hz</th>
<th>CURRENT A</th>
<th>INPUT W</th>
<th>SPEED RPM</th>
<th>MAX AIR FLOW m³/h</th>
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</table>

2. Shape and the size of installation

3. Air volume and static pressure curve
Axial Fan With External Rotor Motor YWF800

- The diameter of the fan blade: 800 mm
- Material: Guard Grille: steel, phosphated and coated in black plastic
  Wall ring: sheet steel, re-galvanised and coated in black plastic
  Blades: sheet steel
  Rotor: coated in black plastic
- Number of blades: 5
- Direction of rotation: direction of air flow “S” counter-clockwise, direction of air flow “B” clockwise seen on rotor
- Type of protection: IP54 or IP44 rating for protection against dust and water
- Approvals: UL, CE, CCC approval
- Insulation class: B or F
- Mode of operation: Continuous operation (S1)
- Bearings: Maintenance- free ball bearings
- Motor protection: without TOP, TOP wired internally
- Cable exit: lateral
- Protection class: I

For more information about the installation ways, please refer to the overview of axial fan with external rotor motor.

1. Performance Parameters:

<table>
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<th>MODEL</th>
<th>VOLTAGE V</th>
<th>FREQUENCY Hz</th>
<th>CURRENT A</th>
<th>INPUT W</th>
<th>SPEED RPM</th>
<th>MAX AIR FLOW m³/h</th>
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2. Shape and the size of installation

3. Air Volume and Static Pressure Curve