Packaged Air Cooled Reverse Cycle Type Air Conditioner Range 11-125kWr

With Energy / Heat Recovery

The Roof Top Packaged unit range is designed to be used when high fresh air quantities are required. They have the benefit of energy reclaim, packaged with a direct expansion system into one single unit.

Energy Efficient Construction

- Cabinets are constructed of 50 mm BHP Colourbond Sandwich panel, for best practice insulation.
- Purpose built UV treated polymer joiners are used to eliminate heat loss through the body of the unit.
- The Counter flow Enthalpy heat exchanger that will be incorporated into the unit will reclaim up to 75% of the energy from the exhaust stale air, therefore saving up to 75% of the cost to heat or cool outdoor air. Counter flow Sensible heat exchanger with 80% efficiency on sensible only is available at no additional cost.
- Air Change units are designed with extremely large access doors to ensure that all parts are accessible for servicing and replacement.
- The Exhaust and Supply fans forward curved centrifugal, direct coupled, fans with tropic proof motors from their respective manufacturer. Fan speeds are adjusted via separate ABB VSD controllers. Fan housings will be rubber mounted to reduce vibration being transmitted to the body of the unit.
Features

- Rooftop Compressors are Danfoss scrolls, to ensure the highest efficiency and quality.
- The unit has an automatic lock out on power failure, low pressure control automatic reset, and high pressure control automatic reset after latching relay reset from control board.
- Phase protection is standard across all Rooftop Packaged unit to protect compressors on miss wiring events
- Defrost control is electronic and operates on a time-selected basis to energise at –3°C and off at 10°C coil temperature
- A Choice of R-22 or R-407C refrigerant circuits
- Fans incorporating three phase fan motors (20kWr and over) are direct coupled, therefore eliminating the need for pulleys and belts.
- Small Rooftop Packaged Unit (11-16kWr) incorporates direct drive fan and motors with a choice of 3 speeds for easy airflow commissioning
- Supply and exhaust air three phase fan motors are controlled with separate VSD controllers with benefits including:
  i. Ramped starting of fan motors, leading to a prolonged life of all fan and motor components and eliminate starting power / amperage spikes.
  ii. Dramatically reduced commissioning times as airflow is tuned simply by adjusting fan speed through VSD control panel or by analogue inputs for modulating fan speed.
  iii. Easy integration to a BMS system
  iv. Saves running costs by precisely controlling power needed to the motor
  v. Optional Modbus adapter for high level communication
  vi. HVAC series VSD’s are available for BacNet communication.
Options

**RA Bypass**
Used in high load or startup conditions. Allows the unit to run with as low as 50% fresh air thus reducing the fresh air load of the system. Motorized damper optional.

**Economy Cycle**
Used in comfortable ambient conditions. Fresh air bypasses the heat exchanger, optimising energy saving throughout the year.

**HVAC series VSD’s**
Available on 20kWr and above Rooftop Packaged Unit, HVAC series VSD’s for high level communication with BMS system

**Hot/Cold water coil**
Rooftop package units can incorporate hot or cold water coils to optimise capacity.

**De-superheater**
Reclaim energy from refrigerant to heat water. Suits a variety of applications.

**High Static Fan Upgrade**
Fan upgrades available for high flow or high external static pressure drops.

**Compressor Upgrade**
Upgrade your compressors to increase refrigerant output.

**Corrosion Resistant**
Corrosion resistant packaging available for harsh and corrosive environments

**Sensible Only Heat Exchanger**
80% sensible transfer efficiency for dry climates or any specialist applications.
Packaged Air Cooled Reverse Cycle Type Air Conditioner Range 11-125kw

With Energy Recovery

The Roof Top Packaged unit range is designed to be used when high fresh air quantities are required. They have the benefit of energy reclaim, packaged with a direct expansion system into one single unit.

Energy Efficient Construction

- Cabinets are constructed of 50 mm BHP Colourbond Sandwich panel, for best practice insulation.
- Purpose built UV treated polymer joiners are used to eliminate heat loss through the body of the unit.
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- Air Change units are designed with extremely large access doors to ensure that all parts are accessible for servicing and replacement.
- The Exhaust and Supply fans are fully coated forward curved centrifugal, direct coupled, fans with tropic proof motors from their respective manufacturer. Fan speeds are adjusted via separate ABB VSD controllers. Fan housings will be rubber mounted to reduce vibration being transmitted to the body of the unit.

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PRODUCT RANGE: ROOFTOP PACKAGE

Features

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  2. Dramatically reduced commissioning times as airflow is tuned simply by adjusting fan speed through VSD control panel or by analogue inputs for modulating fan speed.
  3. Easy integration to a BMS system
  4. Saves running costs by precisely controlling power needed to the motor
  5. Optional Modbus adapter for high level communication
  6. HVAC series VSD’s are available for BacNet communication
Options

**RA Bypass**
Used in high load or startup conditions. Allows the unit to run with as low as 50% fresh air thus reducing the fresh air load of the system. Motorized damper optional.

**Economy Cycle**
Used in comfortable ambient conditions. Fresh air bypasses the heat exchanger, optimising energy saving throughout the year.

**HVAC series VSD's**
Available on 20kWr and above Rooftop Packaged Unit, HVAC series VSD's for high level communication with BMS system

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Fan upgrades available for high flow or high external static pressure drops.

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Corrosion resistant packaging available for harsh and corrosive environments

**Sensible Only Heat Exchanger**
80% sensible transfer efficiency for dry climates or any specialist applications
### Technical Specifications

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<th>Model No.</th>
<th>Refrigerant Capacity</th>
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<th>Overall Dimension (mm) (with Economy Cycle)</th>
<th>(Standard Unit) Weight</th>
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*Based on Sydney Cooling Conditions Including Heat Exchanger
## Refrigeration Plus Heat Exchanger Performance- Total Cooling* (kWr)

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* Based on AIRAH design ambient conditions, 24°C/50%RH% Indoor Conditions

## Refrigeration Plus Heat Exchanger Performance- Total Heating* (kWr)

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* Based on AIRAH design ambient conditions, 21°C/50% Indoor Conditions
PRODUCT RANGE: ROOFTOP PACKAGE

ACL70RCRTP

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<tr>
<td>Condenser Air</td>
<td>L/s</td>
<td>3000</td>
</tr>
<tr>
<td>Exhaust Air</td>
<td>L/s</td>
<td>6200</td>
</tr>
<tr>
<td>Compressor Qty</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Refrigerant Charge (R22 / R407C)</td>
<td>kg/Comp</td>
<td>6.9</td>
</tr>
<tr>
<td>Total Compressor Capacity</td>
<td>kWr</td>
<td>70</td>
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<table>
<thead>
<tr>
<th>OUTDOOR AIR TO SUPPLY AIR</th>
<th>Pa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Drop Heat Exchanger</td>
<td>208</td>
</tr>
<tr>
<td>Pressure Drop Evaporator Coil</td>
<td>120</td>
</tr>
<tr>
<td>External Static Pressure Up to</td>
<td>300</td>
</tr>
<tr>
<td>Total Pressure on Supply Fan</td>
<td>628</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SUPPLY FAN</th>
<th>rpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan Speed (max)</td>
<td>1400</td>
</tr>
<tr>
<td>Motor Power</td>
<td>5.5</td>
</tr>
<tr>
<td>Motor Poles</td>
<td>4</td>
</tr>
<tr>
<td>Motor Torque</td>
<td>36.4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RETURN AIR TO EXHAUST AIR</th>
<th>Pa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Drop Heat Exchanger</td>
<td>208</td>
</tr>
<tr>
<td>Pressure Drop Condenser Coil</td>
<td>120</td>
</tr>
<tr>
<td>External Static Pressure Up to</td>
<td>250</td>
</tr>
<tr>
<td>Total Pressure on Exhaust Fan</td>
<td>578</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>EXHAUST FAN</th>
<th>rpm</th>
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</thead>
<tbody>
<tr>
<td>Fan Speed (max)</td>
<td>1400</td>
</tr>
<tr>
<td>Motor Power</td>
<td>5.5</td>
</tr>
<tr>
<td>Motor Poles</td>
<td>4</td>
</tr>
<tr>
<td>Motor Torque</td>
<td>36.4</td>
</tr>
</tbody>
</table>

| CONDENSER AIR | |
|---------------||
| Fan Qty | 2 |
| Air Flow L/s | 3000 |
| Fan Speed rpm | 1360 |

| COIL SIZE | |
|-----------||
| Condenser Coil mm | 2110 X 914 |
| Evaporator Coil mm | 2110 X 762 |
| Face Velocity Coil Evap m/s | 1.99 |

| ELECTRICAL POWERING | |
|---------------------||
| Current (MCC) (Comp) A | 64 |
| Current (RLA) (Comp) A | 36 |
| Supply Fan FLA A | 10.8 |
| Supply Fan LRA A | 75.6 |
| Exhaust Fan FLA A | 10.8 |
| Exhaust Fan LRA A | 75.6 |
| Make Up Fan FLA A | 3 |
| Nominal Running Current A | 61.6/60.6/60.6 |
| Full Load Amps A | 89.6/88.6/88.6 |

### Rooftop Schematic:

Exhaust Air (RA+CA) → ETM → Outdoor Air (Filter Required)

Supply Air → Outdoor Air (Filter Required)

### Base Dimensions:

**Overall Dimensions**
- Height: 1965 mm (Body 1865)
- Width: 2900 mm (Body 2700)
- Depth: 2350 mm (Body 2270)

**Weight**
- 1720kg

**Spigot Size**
- Supply Air (2060 X 700)
- Return Air (2600 X 740)
- Exhaust Air (2060 X 880)
- Outdoor Air (2600 X 975)

**General**
- 70 kW Reverse Cycle Roof Top Package with Dual Stage Heating and Cooling.
- Allow 1.5m clearance from doors to ensure adequate space for proper service and maintenance

### Sound Pressure Levels dBA

<table>
<thead>
<tr>
<th>Exhaust @ 1m</th>
<th>Intake @ 4m</th>
</tr>
</thead>
<tbody>
<tr>
<td>63 Hz</td>
<td>63 Hz</td>
</tr>
<tr>
<td>61 Hz</td>
<td>44 Hz</td>
</tr>
<tr>
<td>125 Hz</td>
<td>125 Hz</td>
</tr>
<tr>
<td>61 Hz</td>
<td>50 Hz</td>
</tr>
<tr>
<td>250 Hz</td>
<td>250 Hz</td>
</tr>
<tr>
<td>64 Hz</td>
<td>52 Hz</td>
</tr>
<tr>
<td>500 Hz</td>
<td>500 Hz</td>
</tr>
<tr>
<td>74 Hz</td>
<td>66 Hz</td>
</tr>
<tr>
<td>1000 Hz</td>
<td>1000 Hz</td>
</tr>
<tr>
<td>71 Hz</td>
<td>55 Hz</td>
</tr>
<tr>
<td>2000 Hz</td>
<td>2000 Hz</td>
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<tr>
<td>72 Hz</td>
<td>53 Hz</td>
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<tr>
<td>4000 Hz</td>
<td>4000 Hz</td>
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<tr>
<td>71 Hz</td>
<td>49 Hz</td>
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<tr>
<td>8000 Hz</td>
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<td>61 Hz</td>
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<tr>
<td>OA Hz</td>
<td>IA Hz</td>
</tr>
<tr>
<td>79 Hz</td>
<td>67 Hz</td>
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</tbody>
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