

ACL82RCRTP

Technical Data



| | Airflow | |
|---|------------------------|---------------------------|
| | Supply Air | 3700l/s (nominal) |
| | Return Air | 3700l/s (nominal) |
| | Outside Air | 100% |
| | Condenser Make-up Air | 3000/s |
| | Exhaust Air (RA + CMA) | 6700l/s (nominal) |
| * | Refrigeration | |
| | Reverse Cycle | Yes |
| | Cooling Capacity | 82kWr (nominal) |
| | Heating Capacity | 107kWr (nominal) |
| | Compressor Type | Dual Stage DOL (standard) |
| | | BLDC Inverter (optional) |
| | - (. | |
| | Refrigerant | R-407C (Single Stage DOL) |

Air-to-Air Heat Exchanger*

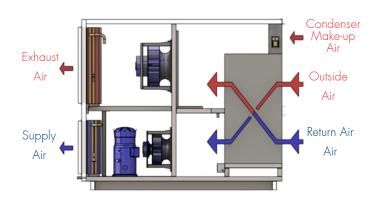
HEX Media

HEX Type Air-to-Air Counterflow Plate Enthalpy or Sensible-Only

Fans (Nominal Selection)

| | | · · · · · · · · · · · · · · · · · · · |
|--------|--------------------------|---------------------------------------|
| | Туре | EC Plug |
| | Total Fans | Зх |
| | Nominal Power | 2.5kW (each) |
| | Fan Diameter | 350mm |
| | Fan Speed (max.) | 2970RPM |
| Supply | Motor Efficiency Class | IE4 |
| Su | Ingress Protection Class | IP54 |
| | Impeller Construction | Non-metallic Composite |
| | Speed Control | Integrated Constant Volume Control |
| | | or via External Speed Signal |
| | | |

* The plate heat exchangers are designed to operate to a maximum 300Pa pressure differential (inlet condition) between primary and secondary air streams.



Contact your Air Change representative for a psychrometric unit selection

| 0 | Ĩ.,, | Fans (Nominal Se | election) |
|---|-------------|-------------------------------|---|
| | | Туре | EC Plug |
| | | Total Fans | 2x |
| | | Nominal Power | 5.0kW (each) |
| | | Fan Diameter | 560mm |
| | Air | Fan Speed (max.) | 1750RPM |
| | Exhaust Air | Motor Efficiency Class | IE4 |
| | Exh | Ingress Protection Class | IP54 |
| | | Impeller Construction | Non-metallic Composite |
| | | Speed Control | Integrated Constant Volume Control |
| | | | or via External Speed Signal |
| | 7 | Electrical & Contr | ols |
| | | Electrical Input | 415V / 3ph / 50Hz |
| | | Full Load Amps | Refer to electrical page |
| | | Controls | Low Level Interface (standard) |
| | | | ClimaSync TM Control System (optional) |
| ſ | J. | Cabinet | |
| | | Weatherproof | Yes |
| | | Panel Construction | 50 mm PIR Sandwich Panel |
| | | | (FM Approved 4880/4881 - Class 1) |
| | | Panel Finish | Colorbond "Surfmist" |
| | | Panel R-Value | 2.63 K.m ² /W |
| | | Panel Joiner Material | UV Resistant Polymer |
| | | Base Frame | Galvanised Steel with Lifting Lugs |
| | | Filter Section | Not included |
| | | | s to be mounted in RA & OA ductwork) |
| ľ | 5 | Operating Modes | |
| | _ | Energy Recovery | Default |
| | | | HEX Bypass for Free Cooling (optional) |
| | | Return Air Bypass | HEX Bypass for Recirculation (optional) |

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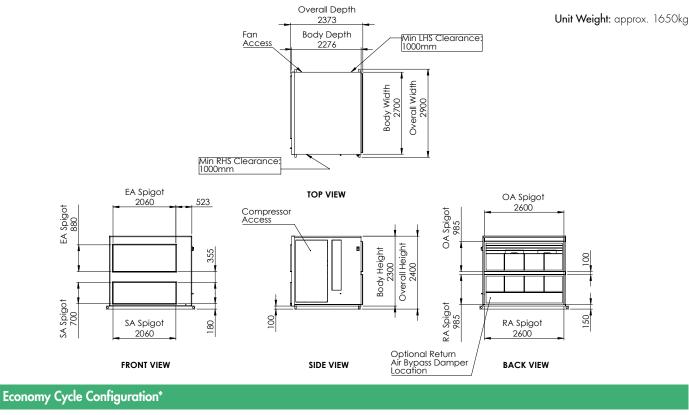
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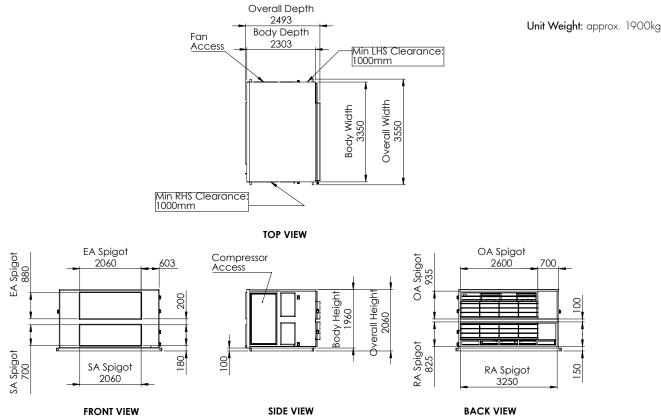
Dimensions



Ο

Standard Configuration*





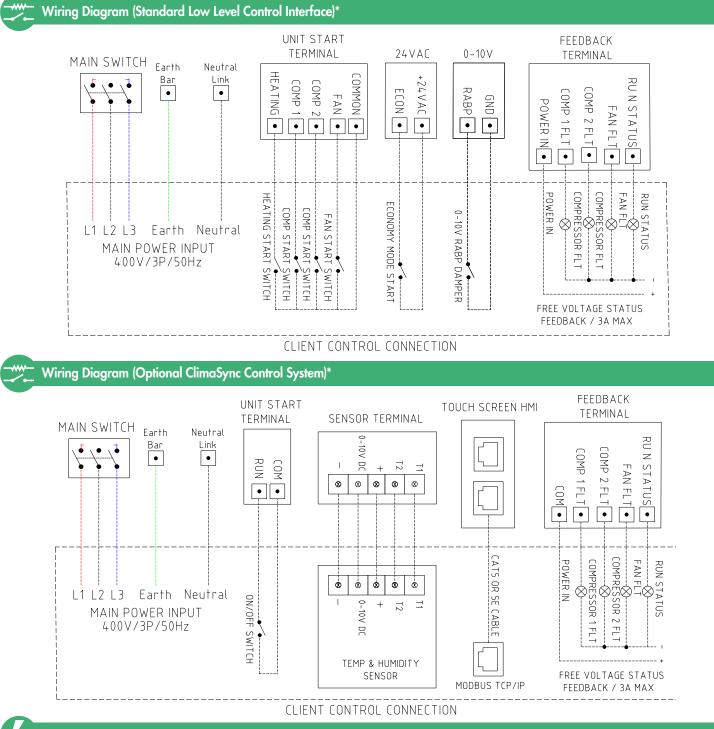
* Dimensions and weight are subject to change, depending on project requirements (incl. compressor option). Refer to project certified drawings for finalised details.

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Electrical



Electrical Input

Indicative Electrical Input details[†]

| | DOL Compressor (standard) | BLDC Inverter Compressor (optional) | | | |
|------------------------------|---------------------------|-------------------------------------|--|--|--|
| Voltage / Phases / Frequency | 415V / 3ph / 50Hz | 415V / 3ph / 50Hz | | | |
| Full Load Amps | 74A | 89A | | | |

* Connection details are subject to change, depending on project requirements. Refer to project certified electrical diagrams for finalised details.

⁺ Unit FLA is subject to change, depending on project requirements. Refer to project certified electrical diagrams for finalised details.

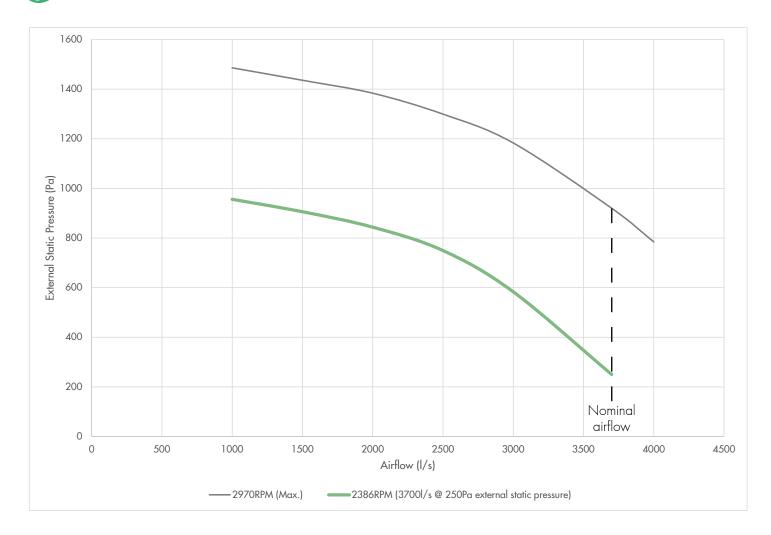
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Airflow & Noise

💀 Supply Air Fan Curve*



* Fan curve makes allowance for internal pressure drop of unit. This pressure drop is subject to change, depending on project requirements. Supply air fan selection options are available.

Supply Air Fan Acoustics (Sound Power)[†]

| 3700l/s @ 250Pa External Static Pressure | | | | | | | | | |
|--|-----|----|-----|-----|-----|------|------|------|------|
| Inlet | | | | | | | | | |
| Frequency (Hz) | sum | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| A-weighted (dB) | 82 | 48 | 56 | 76 | 77 | 74 | 75 | 72 | 72 |
| Non A-weighted (dB) | 87 | 74 | 72 | 84 | 80 | 74 | 74 | 71 | 74 |
| Outlet | | | | | | | | | |
| Frequency (Hz) | sum | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| A-weighted (dB) | 88 | 49 | 58 | 76 | 78 | 84 | 82 | 78 | 75 |
| Non A-weighted (dB) | 90 | 74 | 74 | 84 | 81 | 84 | 81 | 77 | 76 |

* Noise data considers supply air fans only, without attenuation by the cabinet. Filter drop to be factored into the 250Pa external static pressure allowance.

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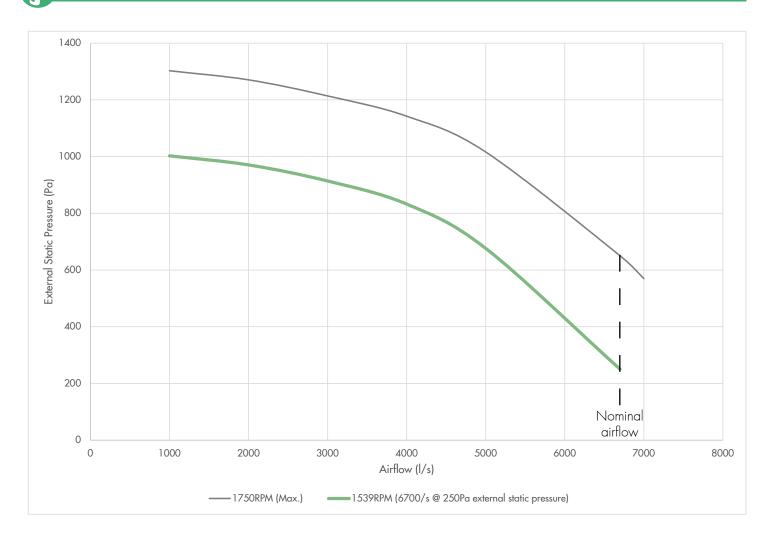
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Airflow & Noise

郊 Exhaust Air Fan Curve (incl. Condenser Make-up Air)*



* Fan curve makes allowance for internal pressure drop of unit. This pressure drop is subject to change, depending on project requirements. Exhaust air fan selection options are available.

Exhaust Air Fan Acoustics (Sound Power)[†]

| 6700l/s @ 250Pa External Static Pressure | | | | | | | | | |
|--|-----|----|-----|-----|-----|------|------|------|------|
| Inlet | | | | | | | | | |
| Frequency (Hz) | sum | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| A-weighted (dB) | 85 | 51 | 70 | 77 | 79 | 77 | 76 | 76 | 73 |
| Non A-weighted (dB) | 90 | 76 | 84 | 86 | 83 | 77 | 74 | 75 | 74 |
| Outlet | | | | | | | | | |
| Frequency (Hz) | sum | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| A-weighted (dB) | 90 | 53 | 73 | 81 | 85 | 85 | 80 | 79 | 76 |
| Non A-weighted (dB) | 95 | 79 | 87 | 91 | 88 | 85 | 79 | 79 | 77 |

* Noise data considers exhaust air fans only, without attenuation by the cabinet. Filter drop to be factored into the 250Pa external static pressure allowance.

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