

Ducted Split System Air Conditioners

Technical Data ISDL-K Series



ISDL-K SERIES - DUCTED SPLIT SYSTEM AIR CONDITIONERS

GENERAL

ISDL *K - Indoor unit

OSA *RK- Outdoor unit, reverse cycle

The ISDL indoor units, together with their associated OSA outdoor units, provide a reverse cycle (heat pump) split system air conditioner designed and developed to comply with and exceed AS/NZS 3823 specified conditions (i.e. guaranteed cooling cycle performance at 43°C outdoor temperature).

APPLICATIONS

These units have been specifically developed for air conditioning of light commercial premises, e.g. offices, motels, and shops.

FEATURES

- Refrigerant R410A. Each complete system uses refrigerant R410A which is deemed to have zero ozone depletion potential.
- User Friendly. The air conditioning system is available with an optional SAT Controller. This thermostat has been designed to maintain a high level of comfort for room occupants. Emphasis has been placed on providing controls that are easy to use despite the sophisticated microprocessor system that runs it. Use of the Auto and Timer function settings allows you to "set it and forget it".
- **Efficient**. Each outdoor unit incorporates a high efficiency rotary compressor. Heat exchange coils use inner grooved (rifled) tube for better heat transfer.
- Performance. A dynamically balanced forward curved fan with a multi-speed motor enables fine tuning of the indoor unit to match the supply air requirements. The system includes a temperature sensing head pressure control which enables the system to compensate for outdoor ambient temperatures below 20°C on cooling cycle, and above 15°C on heating cycle.
- Low Profile. The indoor units have a low 260 mm height making them ideal for small ceiling spaces.
- Quiet. The outdoor units' coil design permits low fan speeds and hence low noise levels. The compressor is isolated in a built-in, insulated compartment to minimise noise. The indoor unit is also insulated for noise attenuation.
- Slimline. The compact up-right design of the outdoor units requires only a 100 mm gap on the coil side where installation is against a wall. Their slimline cabinets are particularly practical where there is restricted space, e.g. side access pathways, balconies, narrow ledges, etc. The units are free standing, but can be fitted on a wall using the optional wall mounting brackets.

- Durable. The outdoor coil fins are epoxy coated for extra protection in corrosive environments, e.g. salt laden sea air. Each outdoor unit's cabinet is constructed from high grade galvanised steel polyester powder coated (grey) for all weather protection (IP 45). External fasteners are stainless steel. Heat exchange coils comprise aluminium corrugated plate fins on mechanically expanded rifled copper tube. Each indoor unit's cabinet is constructed from high grade galvanised steel and includes a plastic drain tray for complete corrosion resistance.
- **Serviceable**. To enable a thorough cleanse, the indoor units' drain tray is removeable.
- Insulation. Closed cell foam insulation has been used in the indoor units' cabinet to ensure no particles are introduced into the air stream. The insulation is foil faced and meets fire test standards AS 1530.3 (1989) and BS 476 parts 6 & 7.
- Compatibility. The supply air spigots on the indoor unit have been designed to fit standard flexible ducting. Alternatively they can easily be removed for attaching rigid ducting.
- Self Diagnostics. The Outdoor Unit Controller (OUC) has a display of LEDs to indicate faults and running conditions. A non-specific fault indicator is included for interface to external systems via the optional relay board.

OPTIONAL EQUIPMENT

Outdoor Unit:

- Fault indicating auxillary relay board.
- 2. Vertical discharge grille.
- 3. Wall mounting brackets.
- 4. Anti-vibration mounts (rubber)
- 5. Drain connection right angle
- 6. Soft Starter for lowering starting current.

Indoor Unit:

- 1. SAT Controller.
- 2. Filter box (c/w polypropylene net filter)
- 3. Spring mounting kit.
- 4. Electric booster heat (add-on box)
 - 2 kW for ISDL 56K, 83K
 - 3 kW for ISDL 96K, 110K Complete with safety cutouts required to meet AS/NZS 3350.2.40 1997.

SAFETY FEATURES

- 1. HP and loss of refrigerant protection.
- 2. Anti-rapid cycle timer and internal overload for compressor protection.
- 3. Circuit breaker control circuits.
- Time-and-temperature controlled electronic de-ice switch prevents icing up of the outdoor coil during heating cycle.
- 5. Frost protection on cooling cycle.
- 6. Sensor fault indication.
- Compressor minimum run time to ensure oil return.

COMPRESSOR

Each high efficiency rotary compressor is hermetically sealed, quiet running and supported on rubber mounts to minimise vibration.

REFRIGERATION PIPING

The standard unit contains allows for a line length up to 30 m. For line lengths between 30 m and 40 m, refer to **temperzone**'s *Split Systems Installation Guide (refer www.temperzone.biz/Technical Support).*

Maximum line length for OSA 83-110RK when extended is 40 m.

Max. height separations between units are: OSA 55RK:

Outdoor unit above indoor unit: 12 m Outdoor unit below indoor unit: 12 m. OSA 83-- 110RK:

Outdoor unit above indoor unit: 16 m Outdoor unit below indoor unit: 16 m.

Each OSA unit is shipped from the factory with a charge of HFC-410A (R410A) refrigerant sufficient for a 10 m line length. Liquid and suction service valves are provided. The matched indoor unit is shipped with a holding charge of nitrogen. Both units have brazed pipe connections.

WIRING

The electrical supply required (including voltage fluctuation limits) is:

OSA 55 - 110 RKS :

1 phase 200–252 V a.c. 50 Hz with neutral and earth.

OSA 110RKT:

3 phase 342–436 V a.c. 50 Hz with neutral and earth.

A control panel, located in each outdoor unit, is fully wired ready to accept the main power supply.

DISTRIBUTING CAPACITY

Two half capacity indoor units can be coupled to one single compressor outdoor unit and controlled from one room thermostat. This tandem arrangement is often quieter than a larger single unit and permits air distribution closer to where it's needed most. A slave version of each indoor unit and a Tandem Kit is available to facilitate this arrangement.

NOTE

Materials and specifications are subject to change without notice due to the manufacturer's ongoing research and development programme.

The manufacturer operates a quality management system that conforms to AS/NZS **ISO 9001**:2008.

SAT CONTROLLER (Optional)



Features Summary

- Cool / Dry / Fan modes.
- Heat / Auto modes
- Auto / High / Medium / Low fan speed selection.
- Temperature setting range from 16°C 30°C.
- LED to indicate status of the unit [Power On/Off].
- Room temperature display.
- Real time clock.
- 7 day timer two start and/or stops per day
- On demand countdown run timer, up to 9 hours.
- Auto-Restart or No Restart after power failure.
- Continuous or Intermittent selection of fan run-on in dead zone.
- Backlit screen for ease of reading; changes colour for each mode.
- · Soft touch tab keys
- Battery backup (Lithium).
- Sleep function.
- Zone Control up to four zones.
- Audible beep to acknowledge key entry or wireless remote control.
- Low voltage control cable.
- Colour: white and light grey (Keypad gold and blue).
- Optional:

Infra Red Remote controller Remote return air sensor, Extended interface lead, Zone Control board,

Zone Control transformer 220/240V to 24V ac, 65VA.

Extra Wall Control plaque.

PERFORMANCE DATA

COOLING CAPACITY (kW)

Total = Total Capacity (kW)

E.A.T. = Entering Air Temperature

Sens. = Sensible Capacity (kW)
= Nominal Capacity (kW)

Note: Capacities are **gross** and do not include allowance for fan motor heat loss. Capacities are for close coupled systems. Interconnecting pipework will reduce capacity (refer page 6).

| MODELS | IND(| | INDOO E.A | | | | OUTDO | OR CO | IL ENT | ERING | AIR TEI | MPERA | TURE | °C D.B | | | | | | | | | |
|---------------------|------------------------|--------|--------------|------|-------|-------|-------|-------|--------|-------|---------|-------|-------|--------|-------|-------|-----|------|-----|-----|-----|-----|-----|
| Indoor / Outdoor | | AIR | W.B. | D.B. | 2 | 23 | 2 | 7 | 3 | 31 | 3 | 5 | 3 | 9 | 4 | 3 | | | | | | | |
| Unit Unit | SPEED | l/s | °C | °C | Total | Sens. | Total | Sens. | Total | Sens. | Total | Sens. | Total | Sens. | Total | Sens. | | | | | | | |
| | | | 15 | 21 | 5.4 | 4.3 | 5.4 | 4.3 | 5.2 | 4.2 | 5.0 | 4.1 | 4.6 | 3.8 | 4.2 | 3.5 | | | | | | | |
| ICDL FOR LOCA FE | | 000 | 17 | 23 | 5.7 | 4.2 | 5.6 | 4.2 | 5.5 | 4.1 | 5.3 | 4.0 | 4.9 | 3.8 | 4.5 | 3.5 | | | | | | | |
| 15DL 30K / USA 33 | ISDL 56K / OSA 55 HIGH | 280 | 19 | 27 | 6.0 | 4.8 | 5.9 | 4.8 | 5.8 | 4.7 | (5.4) | 4.6 | 5.2 | 4.4 | 4.8 | 4.1 | | | | | | | |
| | | | 21 | 31 | 6.3 | 5.7 | 6.2 | 5.7 | 6.1 | 5.6 | 5.8 | 5.5 | 5.5 | 5.2 | 5.1 | 4.9 | | | | | | | |
| | 111011 000 | | 15 | 21 | 8.1 | 6.4 | 8.0 | 6.4 | 7.8 | 6.3 | 7.4 | 6.1 | 6.9 | 5.7 | 6.3 | 5.3 | | | | | | | |
| ICDL 00V / OCA 00 | | 380 | 200 | 17 | 23 | 8.5 | 6.3 | 8.4 | 6.3 | 8.2 | 6.2 | 7.8 | 6.0 | 7.4 | 5.7 | 6.7 | 5.3 | | | | | | |
| ISDL 83K / OSA 83 | HIGH | | 19 | 27 | 9.0 | 7.2 | 8.9 | 7.2 | 8.6 | 7.1 | 8.3 | 6.9 | 7.8 | 6.5 | 7.2 | 6.1 | | | | | | | |
| | | | 21 | 31 | 9.4 | 8.5 | 9.3 | 8.5 | 9.1 | 8.4 | 8.7 | 8.2 | 8.2 | 7.8 | 7.6 | 7.3 | | | | | | | |
| | | | 15 | 21 | 9.3 | 7.4 | 9.2 | 7.4 | 8.9 | 7.2 | 8.5 | 7.0 | 8.0 | 6.6 | 7.3 | 6.1 | | | | | | | |
| ICDL OCK / OCA OF | | F00 | 17 | 23 | 9.8 | 7.2 | 9.7 | 7.2 | 9.4 | 7.1 | 9.0 | 6.9 | 8.5 | 6.5 | 7.8 | 6.0 | | | | | | | |
| ISDL 96K / OSA 95 | HIGH | 500 | 19 | 27 | 10.3 | 8.3 | 10.2 | 8.3 | 9.9 | 8.1 | 9.5 | 7.9 | 9.0 | 7.5 | 8.3 | 7.0 | | | | | | | |
| | | | | | | | | | | 21 | 31 | 10.8 | 9.8 | 10.7 | 9.8 | 10.4 | 9.7 | 10.0 | 9.4 | 9.5 | 9.0 | 8.7 | 8.4 |
| | | | 15 | 21 | 11.0 | 8.7 | 10.9 | 8.7 | 10.6 | 8.6 | 10.1 | 8.3 | 9.4 | 7.8 | 8.6 | 7.2 | | | | | | | |
| ICDL 110V / OCA 110 | | F00 | 17 | 23 | 11.6 | 8.5 | 11.5 | 8.5 | 11.2 | 8.4 | 10.7 | 8.1 | 10.0 | 7.7 | 9.2 | 7.1 | | | | | | | |
| ISDL 110K / OSA 110 | HIGH | GH 500 | 19 | 27 | 12.2 | 9.8 | 12.1 | 9.8 | 11.7 | 9.6 | 11.2 | 9.3 | 10.6 | 8.9 | 9.8 | 8.3 | | | | | | | |
| | | | 21 | 31 | 12.8 | 11.6 | 12.6 | 11.6 | 12.3 | 11.4 | 11.8 | 11.1 | 11.2 | 10.6 | 10.3 | 9.9 | | | | | | | |

Indoor Air Flow Correction Factors @ nominal conditions

| | Indoor Air Flow (%) | | | | | | | | |
|-------------------|---------------------------|-------|-----|-------|--|--|--|--|--|
| | -20% -10% Rated +10 | | | | | | | | |
| Total Capacity | 0.95 | 0.975 | 1.0 | 1.025 | | | | | |
| Sensible Capacity | 0.89 | 0.950 | 1.0 | 1.050 | | | | | |

PERFORMANCE DATA

HEATING CAPACITY (kW)

G = Gross Heating Capacity kW, based on nominal air flow.
N = Net Heating Capacity kW allowing for average defrost.
= Nominal Capacity (kW)

Reverse Cycle Systems

| MODELS | INDOOR | | | OL | JTDOC | OR CO | IL ENT | ERING | G AIR | TEMP | ERATU | IRE (E | .A.T.) | °C D. | B. | | |
|---------------------|--------------|-----|-----|-----|-------|-------|--------|-------|-------|------|-------|--------|--------|-------|------|------|------|
| Indoor Outdoor | AIR TEMP. °C | - | 5 | | 3 | - | 1 | | 1 | ; | 3 | | 5 | 7 | , | | 9 |
| Unit / Unit | D.B. | G | N | G | N | G | N | G | N | G | N | G | N | G | N | G | N |
| | 15 | 3.2 | 2.8 | 3.5 | 3.0 | 3.7 | 3.1 | 4.0 | 3.1 | 4.2 | 3.2 | 4.5 | 3.5 | 4.8 | 3.8 | 5.1 | 5.1 |
| ISDL 56K / OSA 55 | 20 | 3.2 | 2.8 | 3.4 | 3.0 | 3.7 | 3.0 | 3.9 | 3.1 | 4.1 | 3.1 | 4.4 | 3.2 | 4.7 | 3.7 | 5.0 | 5.0 |
| | 25 | 3.0 | 2.7 | 3.3 | 2.8 | 3.5 | 2.9 | 3.8 | 3.0 | 4.0 | 3.0 | 4.3 | 3.1 | 4.6 | 3.5 | 4.8 | 4.8 |
| | 15 | 5.2 | 4.7 | 5.6 | 5.1 | 6.0 | 5.4 | 6.4 | 5.6 | 6.8 | 5.7 | 7.3 | 6.6 | 7.8 | 7.7 | 8.1 | 8.1 |
| ISDL 83K / OSA 83 | 20 | 5.0 | 4.6 | 5.5 | 5.0 | 5.9 | 5.3 | 6.3 | 5.5 | 6.7 | 5.6 | 7.1 | 6.4 | 7.6 | 7.5 | 8.0 | 8.0 |
| | 25 | 4.9 | 4.4 | 5.3 | 4.8 | 5.7 | 5.1 | 6.0 | 5.3 | 6.4 | 5.4 | 6.9 | 6.2 | 7.3 | 7.3 | 7.7 | 7.7 |
| | 15 | 5.9 | 5.3 | 6.4 | 5.7 | 6.8 | 6.1 | 7.3 | 6.4 | 7.7 | 6.5 | 8.3 | 7.4 | 8.8 | 8.7 | 9.2 | 9.2 |
| ISDL 96K / OSA 95 | 20 | 5.8 | 5.2 | 6.2 | 5.6 | 6.7 | 6.0 | 7.1 | 6.3 | 7.5 | 6.4 | 8.1 | 7.3 | 8.6 | 8.5 | 9.0 | 9.0 |
| | 25 | 5.6 | 5.0 | 6.0 | 5.4 | 6.4 | 5.8 | 6.8 | 6.0 | 7.3 | 6.1 | 7.8 | 7.0 | 8.3 | 8.2 | 8.7 | 8.7 |
| ISDL 110K / OSA 110 | 15 | 6.8 | 6.2 | 7.4 | 6.7 | 7.9 | 7.1 | 8.4 | 7.4 | 8.9 | 7.5 | 9.6 | 8.6 | 10.2 | 10.1 | 10.7 | 10.7 |
| | 20 | 6.7 | 6.0 | 7.3 | 6.5 | 7.8 | 7.0 | 8.3 | 7.3 | 8.8 | 7.4 | 9.4 | 8.4 | 10.0 | 9.9 | 10.5 | 10.8 |
| | 25 | 6.5 | 5.8 | 7.0 | 6.3 | 7.5 | 6.7 | 7.9 | 7.0 | 8.4 | 7.1 | 9.0 | 8.2 | 9.6 | 9.5 | 10.1 | 10.4 |

PIPE LENGTH CAPACITY LOSS

ON COOLING CYCLE DUE TO PRESSURE DROP

Note: Loss percentage is approximate only.

No allowance made for vertical piping.

| | Pipe Siz | ze (mm) | | Equivalent Line Pipe Length (m) | | | | | | | | |
|---------------------|----------|---------|--------|---------------------------------|--------|-------|------|--|--|--|--|--|
| System | Liquid | Suction | 5 | 10 | 15 | 20 | 25 | | | | | |
| ISDL 56K / OSA 55 | 6 | 13 | 4 % | 6 % | 9 % | - | - | | | | | |
| 13DL 30K / U3A 33 | 6 | 16 | 1 | 1.5 % | 2.5 % | 3.5 % | 5 % | | | | | |
| | Liquid | Suction | 5 | 10 | 15 | 20 | 30 | | | | | |
| ISDL 83K / OSA 83 | 10 | 16 | 2 % | 4 % | 6.5 % | 9 % | 13 % | | | | | |
| 15DL 63K / USA 63 | 10 | 19 | _ | _ | 3 % | 4 % | 6 % | | | | | |
| ISDL 96K / OSA 95 | 10 | 19 | 1 % | 1.5 % | 2.5 % | 3.5 % | 5 % | | | | | |
| ISDL 110K / OSA 110 | 10 | 19 | 0.75 % | 1.5 % | 2.25 % | 3 % | 5 % | | | | | |

| Suction Pipe Size OD | Additional Pipe Length to allow per Bend Long 90° Radius (2 x pipe dia.) |
|-------------------------|---|
| 16 mm | 0.30 m |
| 19 mm | 0.42 m |

PERFORMANCE DATA

AIR HANDLING

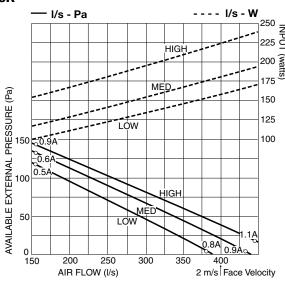
Note: Airflows are for a dry coil. Reduce airflow by 10% in high moisture removal conditions.

In a free blow application, beware of exceeding indoor fan motor's full load amp limit.

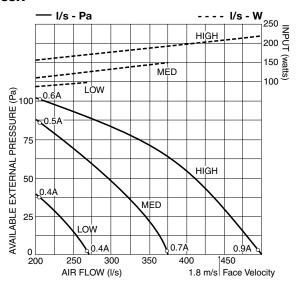
Air flows given are for ISDL units without filter installed.

If using EU-2 filter media, provide $0.08~\text{m}^2$ face area per 100~l/s of airflow to maximise efficiency.

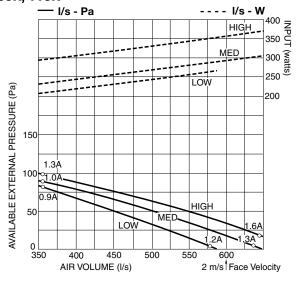
ISDL 56K



ISDL 83K



ISDL 96K, 110K



Optional Polypropylene Net Filter Media (clean):

| | | (- | |
|--------------------------|-----|-----|-----|
| Coil Face Velocity (m/s) | 1.5 | 2.0 | 2.5 |
| Pressure Loss (Pa) | 5 | 9 | 13 |

PERFORMANCE DATA

SOUND LEVELS

Test Conditions: JIS 8616. 0.6 m uninsulated flexible ducting. Sound Pressure Levels (SPL) are at 1 m from source. Sound Power Levels (SWL) are measured in decibels re 1 picowatt.

Indoor Unit: Supply Air Outlet **Return Air Inlet + Case Breakout**

| | | - · · · / | | | | | | | | | | | | | |
|---------------|-------|--------------------|-----|----------------------|------|--------|-------|-----|-------|----------------------|--------|--------|---------|---------|-----|
| | | | | OCTAVE BAND FREQ. Hz | | | | | | OCTAVE BAND FREQ. Hz | | | | | |
| | FAN | SWL | 125 | 250 | 500 | 1 k | 2 k | 4 k | SWL | 125 | 250 | 500 | 1 k | 2 k | 4 k |
| MODEL | SPEED | dB(A) | | SOUND | POWE | R LEVE | LS dB | | dB(A) | S | OUND F | PRESSU | IRE LEV | /ELS di | 3 |
| | LOW | 57 | 55 | 57 | 57 | 50 | 47 | 40 | 59 | 57 | 59 | 60 | 53 | 47 | 40 |
| ISDL 56K | MED | 59 | 56 | 59 | 58 | 52 | 49 | 43 | 62 | 59 | 61 | 62 | 56 | 49 | 42 |
| | HIGH | 60 | 57 | 60 | 59 | 54 | 50 | 44 | 63 | 60 | 63 | 63 | 58 | 51 | 45 |
| | LOW | 54 | 54 | 54 | 52 | 49 | 44 | 38 | 58 | 56 | 59 | 59 | 52 | 45 | 40 |
| ISDL 83K | MED | 56 | 56 | 55 | 56 | 51 | 47 | 40 | 61 | 59 | 61 | 61 | 55 | 48 | 43 |
| | HIGH | 57 | 56 | 57 | 56 | 53 | 48 | 42 | 63 | 60 | 63 | 62 | 57 | 50 | 45 |
| | LOW | 57 | 55 | 55 | 56 | 51 | 48 | 40 | 57 | 55 | 55 | 56 | 51 | 48 | 40 |
| ISDL 96/110 K | MED | 58 | 57 | 57 | 57 | 53 | 50 | 42 | 58 | 57 | 57 | 57 | 53 | 50 | 42 |
| | HIGH | 59 | 58 | 58 | 58 | 55 | 51 | 44 | 59 | 58 | 59 | 58 | 55 | 51 | 44 |

Sound Pressure Levels (SPL) Within A RoomDeduct the room absorption effect below from the Sound Power Levels (SWL) above to obtain Sound Pressure Levels within a room. Note: Occupant at least 1.5 m from sound source.

| | | OCTAVE BAND FREQ. Hz | | | | | | | | | |
|------------------------|-----|----------------------|-----|----|----|----|--|--|--|--|--|
| ROOM TYPE | 125 | 250 | 500 | 1k | 2k | 4k | | | | | |
| ROOM ABSORPTION EFFECT | | | | | | | | | | | |
| SOFT | 4 | 8 | 11 | 11 | 11 | 11 | | | | | |
| MEDIUM | 3 | 7 | 8 | 9 | 9 | 9 | | | | | |
| HARD | 0 | 1 | 3 | 4 | 4 | 5 | | | | | |

Outdoor Unit

Sound Pressure Level (SPL) in decibels re 20 uPa

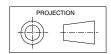
| UULUUUI I | JIIIL | | | | | | | | | Sound | Pressure | e Levei (S | SPL) in a | ecibeis re | 20 µPa. |
|------------------|-------|-------|-----|-----------------------|-----|-----|-----|-----|-------|-------|----------|------------|-----------|------------|---------|
| | | | | OCTAVE BAND FREQ. Hz | | | | | | | OCTA | VE BAN | D FREC | Q. Hz | |
| | FAN | SWL | 125 | 250 | 500 | 1 k | 2 k | 4 k | @ 3 m | 125 | 250 | 500 | 1 k | 2 k | 4 k |
| MODEL | SPEED | dB(A) | | SOUND POWER LEVELS dB | | | | | dB(A) | S | OUND F | PRESSU | JRE LEV | ELS di | 3 |
| OSA 55 | LOW | 63 | 68 | 63 | 61 | 57 | 52 | 47 | 47 | 52 | 47 | 45 | 41 | 36 | 31 |
| USA 55 | MED | 64 | 66 | 64 | 62 | 59 | 54 | 49 | 48 | 50 | 48 | 46 | 43 | 38 | 33 |
| OSA 83 | LOW | 66 | 69 | 67 | 66 | 60 | 54 | 49 | 50 | 53 | 51 | 50 | 44 | 36 | 33 |
| USA 63 | MED | 68 | 70 | 68 | 68 | 63 | 55 | 50 | 52 | 54 | 52 | 52 | 47 | 39 | 34 |
| OSA 95 | MED | 66 | 69 | 67 | 66 | 60 | 54 | 49 | 50 | 53 | 51 | 50 | 44 | 36 | 33 |
| USA 95 | HIGH | 68 | 70 | 68 | 68 | 63 | 55 | 50 | 52 | 54 | 52 | 52 | 47 | 39 | 34 |
| OSA 110 | MED | 66 | 74 | 67 | 65 | 61 | 55 | 51 | 50 | 58 | 51 | 49 | 45 | 39 | 35 |
| USA 110 | HIGH | 68 | 73 | 69 | 67 | 63 | 56 | 52 | 52 | 57 | 53 | 51 | 47 | 40 | 36 |

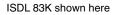
DIMENSIONS (mm) Not to Scale

ISDL Indoor Unit

to be removed.

| MODEL | Α | В | С | D | Spigots |
|---------------|------|------|------|------|---------------|
| ISDL 56K | 1040 | 927 | 962 | 1020 | 250 dia. (x6) |
| ISDL 83K | 1235 | 1122 | 1157 | 1215 | 250 dia. (x6) |
| ISDL 96/110 K | 1430 | 1317 | 1352 | 1410 | 250 dia. (x8) |





programme.

Ε

885

1040

1035

F

330

395

400

G

331

349

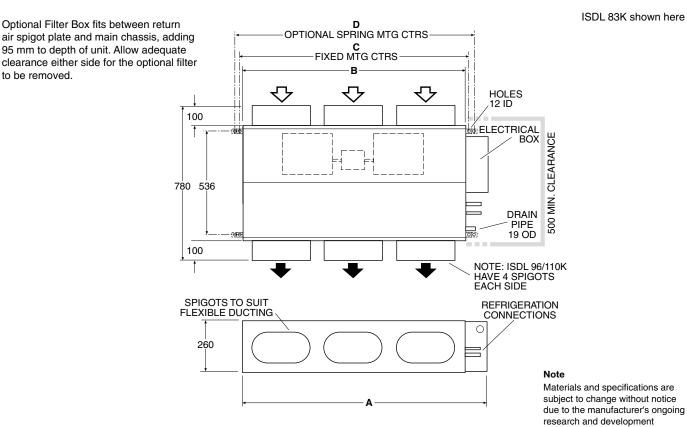
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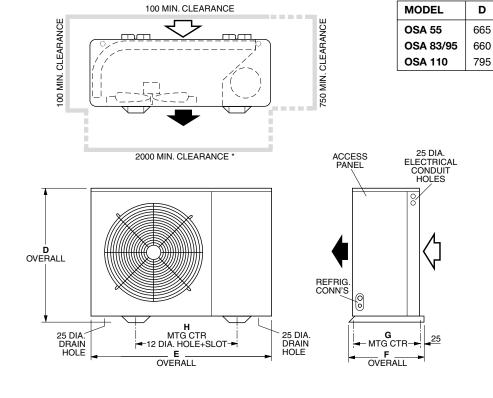
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686

582



OSA Outdoor Unit



SPECIFICATIONS

| SYSTEM | Indoor Unit : Outdoor Unit : | ISDL 56K OSA 55RKS | ISDL 83K OSA 83RKS | ISDL 96K OSA 95RKS | ISDL 110K OSA 110RKS | ISDL 110K OSA 110RKT | | | |
|----------------------------------|---------------------------------|----------------------------|-----------------------|-----------------------|-------------------------|-------------------------|--|--|--|
| Cooling Capacity *1 | kW | 5.4 | 8.3 | 9.5 | 11.2 | 11.2 | | | |
| Heating Capacity *2 | kW | 4.7 | 7.6 | 8.6 | 10.0 | 10.0 | | | |
| E.E.R. (cooling) | | 2.91 | 2.90 | 2.91 | 2.98 | 2.98 | | | |
| Air Flow *3 | l/s | 280 | 380 | 500 | 500 | 500 | | | |
| Sound Levels (SWL) *4 | Indoor Unit | 57 | 54 | 56 | 56 | 56 | | | |
| Oddrid Ecvois (OVVE) | Outdoor Unit | 63 | 66 | 66 | 66 | 66 | | | |
| Power Source *5 | | 1 | phase 230 | V a.c. 50 H | z | 3 ph. 415 V | | | |
| Indoor Fan Motor Rating (4 pole) | W | 150 | 150 | 75 + 150 | 75 + 150 | 75 + 150 | | | |
| Indoor Fan Full Load Amps | Α | 1.4 | 1.4 | 0.7 + 1.4 | 0.7 + 1.4 | 0.7 + 1.4 | | | |
| Running Amps (Total System) | Α | 11.5 | 13.4 | 13.4 | 16.3 | 6.7 / 5.7 / 5.7 | | | |
| Recommended External Fuse | А | 20 | 25 | 25 | 25 | 25 | | | |
| Refrigerant | | HFC - 410A (R410A) | | | | | | | |
| Maximum Vertical Separation | m | 12 | 16 | 16 | 16 | 16 | | | |
| Maximum Standard Line Length | m | 30 | 30 | 30 | 30 | 30 | | | |
| Maximum Extended Line Length | m | _ | 40 | 40 | 40 | 40 | | | |
| Pipe Sizes (Suction/Liquid) | mm OD | 16 / 6 | 16 / 10 | 19 / 10 | 19 / 10 | 19 / 10 | | | |
| Finish ——— | Indoor Unit | | zinc | galvanised | steel | | | | |
| - FILIISII | Outdoor Unit | grey polyester powder coat | | | | | | | |
| Weight (net/shipping) kg — | Indoor Unit | 30 / 37 | 33 / 43 | 42 / 53 | 42 / 53 | 42 / 53 | | | |
| weight (heushipping) kg | Outdoor Unit | 73 / 78 | 85 / 92 | 85 / 92 | 88 / 96 | 88 / 96 | | | |

Notes:

*1 Nominal Cooling Capacity (gross) at AS/NZS 3823 conditions: Indoor Entering Air Temperature 27°C D.B., 19°C W.B.; Outdoor Entering Air Temperature 35°C D.B. Subtract indoor fan power to calculate Net Capacity.

*2 Heating Capacity at AS/NZS 3823 conditions: Indoor Entering Air Temperature 21°C D.B.; Outdoor Entering Air Temperature 7°C D.B., 6°C W.B.

Note

Materials and specifications are subject to change without notice due to the manufacturer's ongoing research and development programme.



Available from

temperzone limited

Head Office, Auckland: 38 Tidal Rd, Mangere, N.Z.
Private Bag 93303, Otahuhu, NEW ZEALAND.
Email sales@temperzone.co.nz Website: www.temperzone.biz

Ph. (02) 8822-5700

temperzone australia pty ltd

Head Office, Sydney: 7A Bessemer St PO Box 6448, Delivery Centre, Blacktown, NSW 2148, AUSTRALIA. Email sales@temperzone.com.au SYDNEY

AUCKLAND Ph. 0-9-279 5250 Fax 0-9-275 5637 WELLINGTON Ph. 0-4-569 3262 Fax 0-4-566 6249

Ph. 0-3-379 3216 Fax 0-3-379 5956

Fax (02) 8822-5711 ADELAIDE Ph. (08) 8376-1505 CHRISTCHURCH

Fax (08) 8376-1449 SINGAPORE Ph. SNG 6733 4292 Fax SNG 6235 7180 **MELBOURNE** Ph. (03) 9551-7422 Fax (03) 9551-8550 BRISBANE

Ph. (07) 3399-2544 Fax (07) 3399-2577 NEWCASTLE Ph. (02) 4962-1155 Fax (02) 4961-5101



PERTH

Ph. (08) 9314-3844 Fax (08) 9314-3855 TOWNSVILLE

Ph. (07) 4773-9566

Fax (07) 4773-9166 HOBART Ph. (03) 6272-0066 Fax (03) 6272-0506

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^{*3} Supply air flow at Nominal Cooling Capacity conditions stated above.

^{*4} Sound Power Levels (SWL) are measured at nominal cooling capacity conditions stated above.

^{*5} Voltage fluctuation limits: Single phase systems 200-252 V; Three phase systems 342-436 V.