

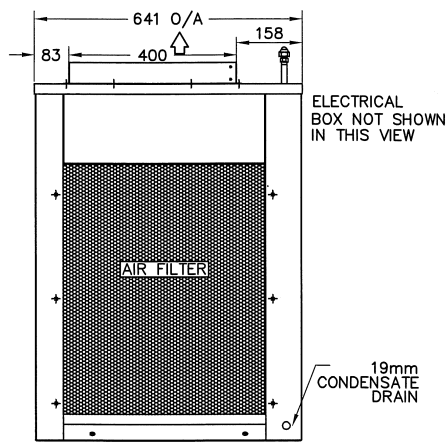
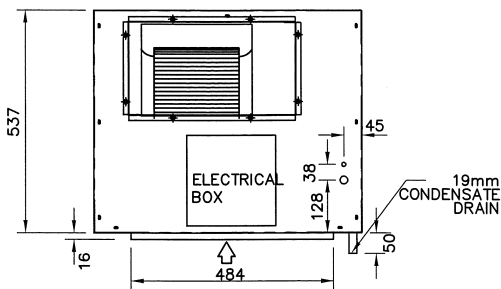
CISD 80K, 110K, 140K

Ducted Split System R410A Indoor Units

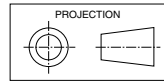
Installation & Maintenance

Fig. 1 Dimensions (mm)

Not to Scale



CISD 80K, 110K, 140K



Net Weight

CISD 80K	45 kg
CISD 110K	46 kg
CISD 140K	55 kg

GENERAL

These CISD*K indoor units are designed to be coupled with the OSA*RK outdoor units.

Units must be installed in accordance with all national and local safety codes.

Combinations

- One CISD 80K with one OSA 80RKS
- One CISD 110K with one OSA 110RKS
- One CISD 140K with one OSA 140RKS

INSTALLATION

Positioning & Mounting

CISD units are designed to be used with simple, short duct layouts. Units should be located as close to the space to be air conditioned as acoustic criteria allow.

When determining the position of the air conditioner, allow adequate space around the unit to facilitate future servicing and maintenance.

The unit has a built-in sloping drain tray, therefore mount it level.

Condensate Drain

The condensate drain should be trapped outside the unit cabinet. The trap should have a vertical height of at least 50 mm. The drain should have a slope of at least 1 in 50 and must not be piped to a level above the unit drain tray. (Refer Fig.4).

For long condensate pipe runs, fit a vent pipe near the drain trap. The top of the vent pipe must be at least 100 mm above the ISD unit's drain tray.

It is essential that the drainage system for the evaporator is checked by pouring water in the drain tray and seeing that it discharges at the end of the drain and does not overflow the drain tray.

MODEL	Dim. A
CISD 80K	470
CISD 110K	625
CISD 140K	625

NOTE

The manufacturer reserves the right to change specifications at any time without notice or obligation. Certified dimensions available on request.

INDOOR-OUTDOOR UNIT CONNECTIONS

Refer to the relevant OSA Outdoor Unit 'Installation & Maintenance' pamphlet for piping instructions. For wiring connections, refer to the Outdoor Unit wiring diagram in conjunction with the CISD wiring diagram in this pamphlet.

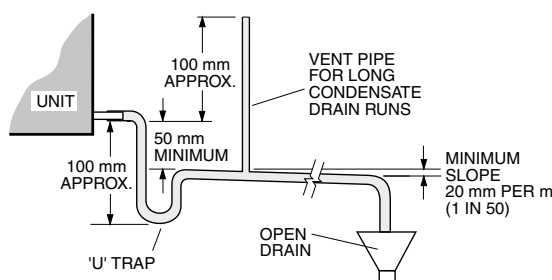
REFRIGERATION PIPING

Pipe Connection Sizes (mm OD) & Type

- CISD 80K**
- Liquid : 10 mm OD (3/8") flare
 - Suction : 16 mm OD (5/8") flare
- CISD 110K, 140K**
- Liquid : 10 mm OD (3/8") flare
 - Suction : 19 mm OD (3/4") flare

Fig. 4

Condensate Drain



The CISD is shipped from the factory with a pressurised holding charge of nitrogen. Immediately before removing any brazed pipe connection's seal, reduce the holding charge to atmospheric.

Warning: Failure to do so may cause injury.

Refer to the Outdoor Unit 'Installation & Maintenance' pamphlet for evacuation procedure and piping requirements.

ELECTRICAL WIRING

The electrical supply required (via the Outdoor Unit) is specified on the Outdoor Unit's wiring diagram.

Electrical work must be carried out by a qualified electrician in accordance with local supply authority regulations and the wiring diagram.

In a free blow or low resistance application, beware of exceeding the fan motor's full load amp limit (refer Outdoor Unit's wiring diagram).

INDOOR FAN SPEED

The fan speed can be set to LOW, MED, or HIGH - whichever best suits the application.

If the air returning to the indoor unit is regularly expected to be above 50%RH, then the coil face velocity should be limited to be 2.5 m/s or less (refer Air Handling graph in Technical Data pamphlet).

High humidity levels can occur in tropical or subtropical conditions, and/or when heavily moisture laden fresh air is introduced. Select a fan speed that avoids water carry-over problems.

COMMISSIONING

Indoor Unit

1. Check that the thermostat is correctly wired and set at the desired temperature.
2. Check that the air filter (if fitted) is clean.
3. Check that the fan runs freely without vibration.
4. Check condensate drain and safety drain tray for free drainage.

Refer to Outdoor Unit Installation Instructions in order to complete the start-up and commissioning procedure for the complete air conditioning system.

MAINTENANCE

Monthly

Check air filter (if fitted); vacuum clean as necessary.

Six Monthly

1. Check condensate drain and safety drain tray for free drainage.
2. Check heat exchanger coil; vacuum or brush clean as necessary.
3. Check the tightness of the fan.
4. Check that fan motor is free running.
5. Check tightness of electrical connections.
6. Check air supply at diffuser outlets.

WARNING

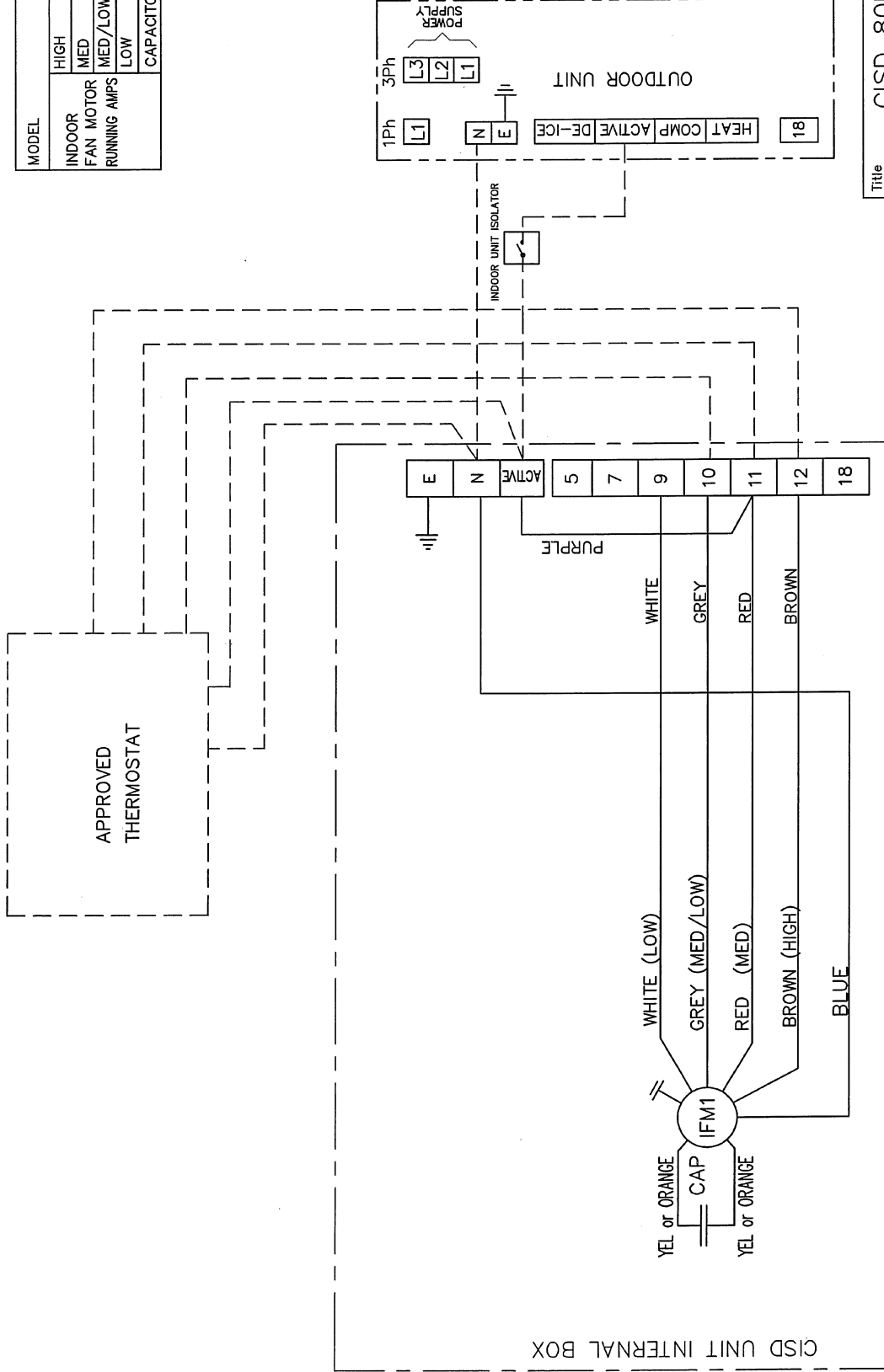
This unit is designed for use ONLY with the refrigerant HFC-410A (R410A). The use of other refrigerants is NOT authorised or approved by the manufacturer and may cause operational problems such as poor performance and efficiency, loss of capacity, degradation of materials and refrigerant leaks.

The use of flammable or explosive materials as a refrigerant creates the additional risks of fire and explosion which may result in property damage, personal injury or death.

NOTE

The manufacturer reserves the right to change specifications at any time without notice or obligation. Certified dimensions available on request.

MODEL	CISD 80K	CISD 110K	CISD 140K
INDOOR FAN MOTOR	HIGH	1.8	1.8
INDOOR FAN MOTOR	MED	1.59	1.59
INDOOR FAN MOTOR	MED/LOW	1.4	1.4
INDOOR FAN MOTOR	LOW	1.1	1.1
CAPACITOR	8 MFD	8 MFD	10 MFD



Title CISD 80K, 110K, 140K
WIRING SCHEMATIC

temperzone

Drawn AGC	Date 03/01/08	Drawing No.	Revision
Scale	Aprvd	ACC-55036-400	1

NOTE: CHECK WIRING BEFORE SWITCHING ON, INCORRECT CONNECTION WILL DAMAGE MOTORS.

CLIENT WIRING Interconnections between units by client. Double insulated multi-core cable.

ISSUE	MODIFICATION	ECN	DATE	APRVD
1	Title was CCE300 Special Type A,B,C		5/3/08	AC

