



Specifications

Model		UAYQ60CY1A	UAYQ90CY1A	UAYQ120CY1A	UAYQ150CY1A	UAYQ180CY1A	UAYQ210CY1A	UAYQ250CY1A
Rated Capacity (Cooling) ^{*1,*2}	Net kW	16.27	26.54	34.42	42.81	53.11	63.69	68.38
Rated Capacity (Heating) ^{*1,*3}	Net kW	15.24	25.68	35.78	43.1	56.1	63.95	72.3
Rated Power Input (Cooling) ^{*4}	kW	4.87	8.18	10.95	13.64	17.15	20.53	23.11
Rated Power Input (Heating) ^{*4}	kW	4.69	7.33	10.84	12.86	15.54	18.58	21.42
Rated EER (Cooling) ^{*4}	kW/kW	3.34	3.24	3.14	3.14	3.1	3.1	2.96
Rated COP (Heating) ^{*4}	kW/kW	3.25	3.5	3.3	3.35	3.61	3.44	3.38
Power Supply	V/Ph/Hz	380-415/3N~/50	380-415/3N~/50	380-415/3N~/50	380-415/3N~/50	380-415/3N~/50	380-415/3N~/50	380-415/3N~/50
Refrigerant Charge	kg	5.5	6.1	5.8 + 5.8	7.2 + 7.2	8.7 + 8.7	10.4 + 10.4	11.6 + 11.6
Refrigerant Type / Control					R-410A / EEV			
Evaporator Airflow Rate	l/s	732	1,560	2,030	2,670	3,160	3,450	3,920
External Static Pressure	Pa	59	147	147	147	206	206	206
Condensate Drain Size	mm	25.4	25.4	25.4	25.4	25.4	25.4	25.4
Condenser Airflow Rate	l/s	2,313	3,884	5,664	5,710	6,090	9,534	10,000
Sound Pressure Level ^{*5}	dBA	67	68	64	65	68	70	70
Sound Power Level	dBA	82	82	83	83	87	90	90
Compressor Quantity		1	1	2	2	2	2	2
Unit Dimension	Height mm	1,110	1,150	1,028	1,130	1,048	1,302	1,454
	Width mm	1,060	1,638	2,209	2,209	2,209	2,209	2,209
	Depth mm	1,740	2,063	2,113	2,113	2,670	2,670	2,670
Net Weight (without packaging)	kg	310	445	580	610	830	880	1020

Notes
 *1 = Net capacities include indoor fan motor heat
 *2 = Cooling capacity is based on indoor temp. 27°CDB, 19°CDB, and outdoor temp. 35°CDB.
 *3 = Heating capacity is based on indoor temp. 20°CDB, and outdoor temp. 7°CDB, 6°CWB.
 *4 = Power Input and EER follow AS/NZ3813.1.2
 *5 = Microphone position: 1m away from every side of the unit and 1m above floor level. Logarithmic mean of 3 microphone position.
 *6 = All units are equipped with Fixed Speed, hermetically sealed scroll type compressors

ENVIRONMENTAL QUALIFICATIONS

Daikin Industries limited has received ISO 14001 Environmental Certification for the Daikin production facilities listed below. ISO 14001 is an international standard specifying requirement for an environmental management system, enabling an organisation to formulate policy and objectives, taking into account legislative requirements and information about significant environmental impacts. It applies to those environmental aspects within the organisation's control and over which it can be expected to have an influence. The certification relates only to the environmental management system and does not constitute any endorsement of the products shipped from the facility by the International Organisation for Standardisation.

QUALITY CERTIFICATIONS

Daikin Industries Limited is the first air conditioning equipment manufacturer in Japan to receive the ISO9001 certification. All Daikin manufacturing facilities have been certified to ISO 9001 Quality Management System Requirements. ISO 9001 is a certificate for quality assurance concerning 'design, development, manufacturing, installation and related service' of products manufactured at that factory.



Quality ISO 9001
SAI GLOBAL



Environment ISO 14001
SAI GLOBAL

Daikin Australia Pty Limited (ISO 9001)
 QEC 23256 May 12, 2006
 Sydney, Brisbane, Adelaide, Melbourne, Newcastle, Townsville, Perth, Auckland

Daikin Australia Pty Limited (ISO 14001)
 CEM 20437 October 27, 2006
 Sydney, Brisbane, Adelaide, Melbourne, Perth

- Residential Air Conditioning Manufacturing Div (ISO 9001)**
 JQA-0486 May 2, 1994 (Shiga Plant)
- Daikin Industries (Thailand) Ltd**
 JQA-1452 September 13, 2002 (ISO 9001)
- Daikin Europe N.V (ISO 9001)**
 Lloyd 928589.1 June 2, 1993
- Industrial System and Chiller Products Manufacturing Div (ISO 9001)**
 JQA-0495 May 16, 1994 (Yodogawa Plant and Kanaoka Factory and Kishiwada Factory)
- Commercial Air Conditioning and Refrigeration Manufacturing Div (ISO 9001)**
 JMI0107 December 28, 1992 (Kanaoka Factory and Rinkai Factory at Sakai Plant)

Optional Features

3rd PARTY INTERFACE For applications that require interface with a third party controller, there are control points on the main PCB that allow 2 stages of heating/cooling, on/off and fan only operation.

BASIC BMS CONNECTION Unit's standard PCB board provides dry contact for basic BMS connection. Input signal will go to dry contact ON/OFF, COOL/HEAT, and 4 to 20mA temperature adjuster while output signal will come from ON/OFF, COOL/HEAT, ALARM and DEFROST dry contact.

R410a – Rooftop Package Unit





Daikin's range of rooftop packaged units has been developed specifically to suit commercial applications and are designed for flexible and easy installation. Along with the light cream colour, the flat top and compact design gives an aesthetic and neat appearance when installed in the line of sight. The durable powder coated sheet metal and corrosion resistant fixings make this unit ideal for the harsh Australian climate.

Standard Features

BASE BEAM The base beams are fixed and provide a rigid foundation for the entire unit. The beam has forklift slots and rigging holes for easy handling. It is also designed to allow mounting on a roof curb, the dimension of the roof curb should be followed strictly in accordance with the installation manual.

FLEXIBLE AIR SUPPLY All units utilise a belt/pulley driven supply air fan, with a variable pitch pulley to enable a wide range of supply air volumes and external static pressures to be met. Furthermore, where required, the supply air fan motors, pulleys and belts can be upgraded easily on site.

CONVERTIBLE RETURN AND SUPPLY AIR Unit can be easily converted from horizontal to vertical (downward) supply and return air duct configuration by relocating the panels and supply air fan mounting



POWDER COATED CONDENSATE DRAIN PAN The sheet metal condensate drain pan is powder coated for corrosion resistance.

RETURN AIR FILTERS A 50mm filter slot is provided as standard in instances where a field supplied filter is required.

ENERGY EFFICIENCY The UAYQ-C series has been developed to provide air conditioning solutions that are energy efficient, simple to use and reliable, ensuring our units meet the minimum MEPS requirements.



Major Components

1. CONDENSER FAN AND MOTOR

Condenser Fan and Motor Fans are of propeller type, direct driven by weatherproof electrical induction motors. Condenser fan motor has class F insulation and splash-proof enclosure. IP44

2. CONDENSER AND EVAPORATOR

The condenser and evaporator coils are manufactured from seamless inner grooved copper tubes mechanically bonded to aluminium fins to ensure optimum heat transfer. All coils are pressure tested to 4.2 MPa through the use of Nitrogen and are further leak tested with Helium gas at 1.6 MPa.

To improve their corrosion resistance, a Hydrophilic Gold Fin is provided as standard.

3. CASING/STRUCTURE

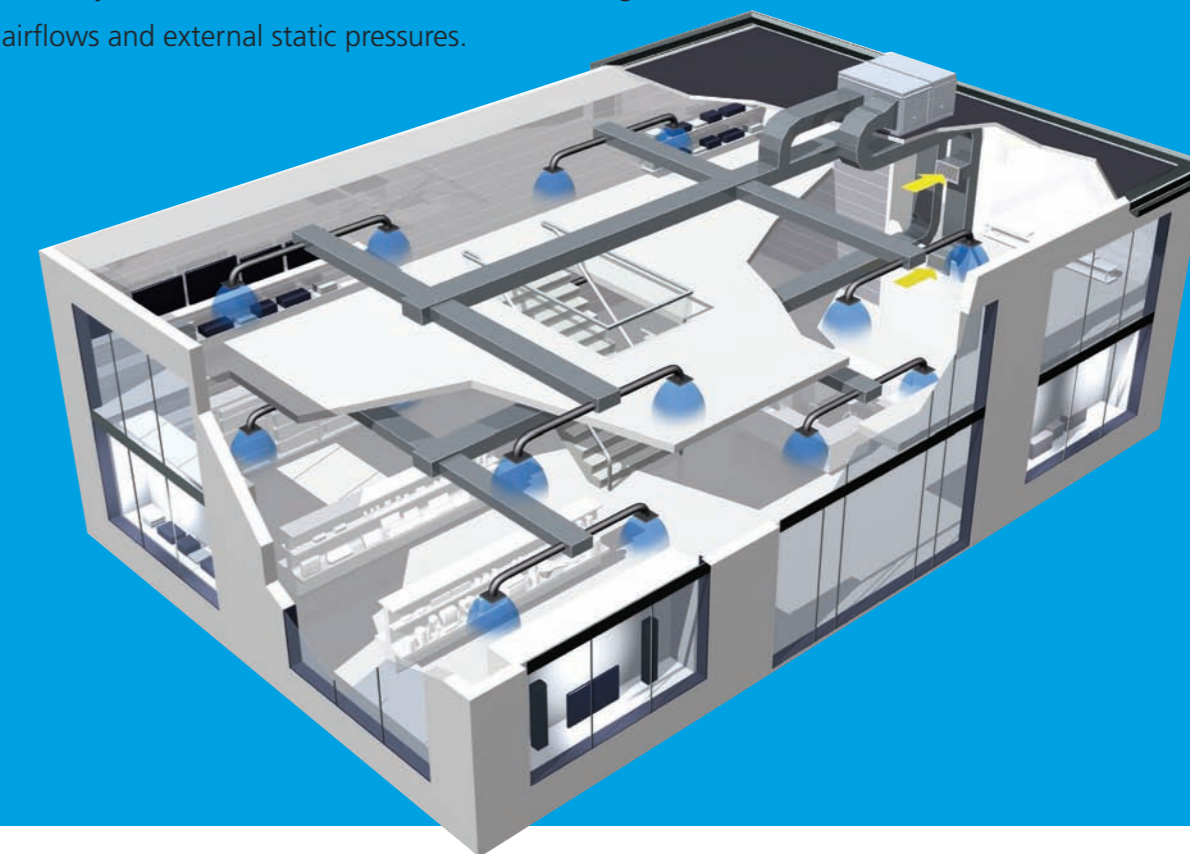
The UAYQ-C series casing is made of zinc coated galvanized steel sheets. It is further treated with an electrostatic powder coat then oven baked to provide a weather resistant finish to suit the harsh Australian climate. The screws are also zinc plated to improve product durability.

4. INSULATION

To prevent the likelihood of condensation occurring, the unit is equipped with 10mm Polyethylene panel insulation throughout.

5. EVAPORATOR FAN AND DRIVE

A belt driven, double width double inlet (DWDI) centrifugal forward curved fan is used as the evaporator fan. This configuration with the factory fitted Variable Pitch Pulley (VPP) allows the unit to meet a wide range of airflows and external static pressures.



6. EXPANSION DEVICE

For precise control of refrigerant flow, the UAYQ-C series is equipped with an Electronic Expansion Valve (EEV).

7. COMPRESSOR

Compressor used in UAYQ-C series Packaged Units are hermetically sealed scroll type. All the compressors are provided with an internal overload protection.

EXTENSIVE CONTROLS CAPABILITY This unit is equipped with more than 27 functional and control capabilities.

Key features include:

- Variable head pressure control for low ambient cooling
- Electronic expansion valves for precise refrigerant control
- Self diagnostic and error warning codes
- Standard 7days programmable timer and LCD thermostat
- Sequential compressor and load balancing operation
- Simple BMS and third party interface
- Ability to connect remote sensor with 25m cable
- Simple auxiliary booster with 3 adjustable differential settings
- Auto-changeover (heat/cool) functionality can be configured on the controller

