

UAYN-AFY1A

Rooftop Package Unit



Daikin's RT Series (UAYN-AFY1A) is designed and manufactured in Australia with emphasis on reliability and easy installation for commercial applications.

Features

- › Footprint ideal for replacement market
- › Indoor EC plug fan (fixed speed control only), adjustable with up to 300Pa ESP increase over rated
- › EC motor driven outdoor propeller fans with ESP of 30Pa
- › Dual fixed speed scroll compressors (2 step, 50 & 100% capacity)
- › Hydrophilic blue fin indoor & outdoor coils
- › Foil faced 20mm PE Thermobreak insulated panels
- › Built-in 2" return air filter rails with MERV 8 filters
- › Built-in demand response (DRED) capability
- › After hours push button is included
- › Optional vibration mounting kit & remote temperature sensor (25m)
- › Built-in economy cycle function (dry bulb only)*

Sequential Defrost Operation

The dual outdoor heat exchangers allow each heat exchanger to enter defrost cycle separately**. If both heat exchangers require defrost, the 2nd heat exchanger will enter defrost cycle once the first one is completed. Improves comfort as reduced heating capacity can still be provided to the indoor environment.



37.2kW
- TO -
81.9kW
CAPACITY RANGE

1,950
- TO -
4,580L/s
AIRFLOW RANGE

7
MODELS



RT Touch Controller

- › 4.3" resistive touch screen LCD controller (480 x 272 resolution)
- › Wall mounted: 88(H) x 152(W) x 32(D) mm
- › Flush mounted: 88(H) x 152(W) x 9(D) mm
- › Check operation at a glance with built-in operation status LED
- › User operation & service configuration available on the same controller
- › Wire harness (15m) included for connection to rooftop packaged unit***

- GREEN** – Unit On, Fan Only
- RED** – Unit Error Lockout
- RED (BLINKING)** – Unit Error
- OFF** – Unit Off
- CYAN** – Unit On, Cooling
- Yellow** – Unit On, Heating

* Outdoor air & return air dampers, rain sensor, cables & connectors are not included (all field supplied)

** Only applicable when indoor fan is set to run during defrost (default setting), if fan set to off both heat exchangers will run defrost simultaneously

***Can be extended up to 50m using field supplied cable (power: 2 core AWG 12-20 & comm.: 3 core AWG 20-22)

PROPELLER FAN

- › Sharp edge fan blade curvature reduces vibration and pressure loss
- › Large diameter fan quietly delivers high air volume
- › ESP of up to 30Pa (for ducting)

EC MOTOR

- › Electronically commutated (EC) motor
- › Exceeds IE4 efficiency
- › IP44 rated (IP55 for 640 – 840 Class)
- › Fan speed is modulated according to operation mode (cool or heat) & heat exchanger temp.

EASY TO ACCESS ELECTRICAL BOX

- › Complete rooftop system is IP44 rated
- › External cables are conveniently fed from the bottom & through the rubber grommets
- › All-in-one electrical box, gain access to:
 1. Rooftop power supply terminals
 2. RT Touch Controller terminals
 3. After hours push button contacts
 4. DRED contacts (DRM1, 2, 3¹ & common)

ELECTRONIC EXPANSION VALVE (EEV)

- › Expansion valve is electronically operated for precise control of refrigerant flow into the evaporator
- › Greater efficiency due to better superheat control²
- › Enables fast & accurate response to heat load changes

DUAL FIXED SPEED SCROLL COMPRESSORS

- › 2 step control, 50 & 100% capacity
- › Compressor balance loading function, ensures the accumulated run time of each compressor is similar to extend compressor longevity

HYDROPHILIC BLUE FIN HEAT EXCHANGER (OUTDOOR)

- › Aluminium corrugated (waffle) fins with Ø7mm copper pipes
- › Dual heat exchangers each with 2 rows³ at 16 fins per inch
- › PE coated – an acrylic & hydrophilic coat for corrosion resistance

¹ DRM 1: Compressor Off, DRM 2: 50% Power Limit, DRM 3: 75% Power Limit

² Compared to Thermostatic Expansion Valve (TEV)

³ 3 rows for 530 Class

Capacity

Class	Capacity, kW (Cool/Heat)	Model Name
350	37.2/34.3	UAYN350AFY1A
400	40.8/37.6	UAYN400AFY1A
470	45.8/44.1	UAYN470AFY1A
530	53.4/54.3	UAYN530AFY1A
640	66.1/64.9	UAYN640AFY1A
750	73.1/71.8	UAYN750AFY1A
840	81.9/82.0	UAYN840AFY1A

Accessories

Type	Class						
	350	400	470	530	640	750	840
MERV 8 Replacement Filter	BAF287A350	BAF287A530			BAF287A750		BAF287A940
Vibration Mounting Kit	BKSB28A530				BKSB28A750		BKSB28A940
Remote Temperature Sensor	MKRCS01-19						



Daikin Australia Pty Limited ABN 62 000 172 967

For all Sales enquiries, email: commercial@daikin.com.au

For Customer Service or Technical Support, call: 1300 368 300

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