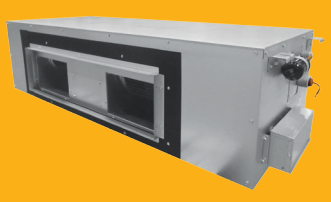
WORLD'S NO. 1
AIRCONDITIONING COMPANY FROM JAPAN

DAIKIN

Versatility is the mark of Perfection



High Static Series

Rooftop Series

Water Source Heat Pump Series

Floor Standing Series

Table of Contents

Daikin customizes packaged line-up of airconditioning products for Indian market.

Daikin believes in being close to its customers. As a result we have developed a new range of packaged products tailor-made for Indian conditions. This new line-up of products produced in Daikin India's manufacturing facility at Neemrana, Rajasthan ensures reduced lead time and greater array of features for Indian consumers. Advanced features include cooling at high-ambient temperature, Under voltage & over voltage protection as well as phase imbalance voltage & Phase reversal protection. We have also introduced aesthetically appealing new wired LCD remote controller,with glossy finish, for ease of usage of our packaged air-conditioner. The new line-up of packaged air conditioners gives you cutting-edge technology in air conditioners with industry-leading energy efficiency for lower power bills. These locally produced high-static pressure duct type are available up to 20 HP (16.7 TR).

Product Line-up

HIGH STATIC PRESSURE DUCT TYPE (Cooling only)

R-410A

CAPACITY	Btu/h	66,000	1,02,000	1,32,000	1,32,000	2,00,000
	TR	5.5	8.5	11	11	16.7
INDOOR UNIT						
		FDR65ERV16	FDR100ERV16	FDR130ERV16	FDR130ERV162	FDR200ERY16
OUTDOOR UNIT						
		RR65ERY16	RR100ERY16	RR130ERY16	RR65ERY16 (Nos. 2)	RR100ERY16 (Nos. 2)

HIGH STATIC PRESSURE DUCT TYPE (Cooling only)

R-22

CAPACITY	Btu/h	66,000	1,02,000	1,32,000	2,00,000
	TR	5.5	8.5	11	16.7
INDOOR UNIT					
		FD65DSV16	FD100DSV16	FD130DSV16	FD200DSY16
OUTDOOR UNIT					
		R65DSY16	R100DSY16	R130DSY16	R100DSY16 (Nos. 2)

Product Line-up

FLOOR STANDING TYPE (Cooling only)

R-410A

CAPACITY	Btu/h	50,000	60,000	80,000	1,00,00	1,20,000	1,60,000	1,80,000	2,00,000
	TR	4.2	5.0	6.7	8.3	10.0	13.3	15.0	16.7
DIRECT AIR BLOW TYPE	INDOOR UNIT	 FVGR05NV1	 FVGR06NV1	 FVGR08NV1	 FVGR10NV1				
	OUTDOOR UNIT	 RUR05NY1	 RUR06NY1	 RUR08NY1	 RUR10NY1				
DUCT CONNECTION TYPE	INDOOR UNIT				 FVPGR10NY1	 FVPGR13NY1	 FVPGR15NY1	 FVPGR18NY1	 FVPGR20NY1
	OUTDOOR UNIT				 RUR10NY1	 RUR13NY1	 RUR15NY1	 RUR18NY1	 RUR20NY1

AIR-COOLED ROOFTOP UNITS (Cooling only)

R-410A

CAPACITY	Btu/h	62,500	93,400	1,24,500	1,54,400	1,89,000	2,48,600
	TR	5.0	8.0	10.0	13	16.0	21.0
ROOFTOP SERIESUATQ-C		 UATQ60CGXY1	 UATQ90CGXY1	 UATQ120CGXY1	 UATQ150CGXY1	 UATQ180CGXY1	 UATQ240CGXY1

AIR-COOLED ROOFTOP UNITS (Heat Pump)

R-410A

CAPACITY	Btu/h	93,300	1,21,400	1,52,600	1,90,000	2,28,000	2,47,700
	TR	7.8	10.1	12.7	15.8	19.0	20.6
ROOFTOP SERIESUATYQ-C		 UATYQ250MCY19	 UATYQ350MCY1	 UATYQ450MCY1	 UATYQ550MCY1	 UATYQ600MCY1	 UATYQ700MCY1

HORIZONTAL WATER SOURCE HEAT PUMP

R-410A

CAPACITY	Btu/h (Cooling)	9380	17907	22682	29913	34791	42636
	Btu/h (Heating)	11153	20806	24217	30868	34961	44341
	TR (Cooling)	0.78	1.49	1.89	2.49	2.90	3.55
	TR (Heating)	0.93	1.73	2.02	2.57	2.91	3.70
UNIT							
		MWH010DRP	MWH020DRP	MWH025DRP	MWH030DRP	MWH040DRP	MWH050DRP

CAPACITY	Btu/h (Cooling)	54574	64806	83736	100620	113922	127907
	Btu/h (Heating)	56757	67398	87086	104645	118479	133023
	TR (Cooling)	4.55	5.40	6.98	8.39	9.49	10.66
	TR (Heating)	4.73	5.62	7.26	8.72	9.87	11.09
UNIT							
		MWH060DRP	MWH070DRP	MWH080DRP	MWH100DRP	MWH125DRP	MWH150DRP

Daikin, Packaged Air-conditioners are engineered to meet high static and large airflow for wider coverage requirements.

Air-Cooled (Ductable)

AIR CONDITIONERS

High static pressure duct type**

R-410A R-22

FDR65ERV16

FDR100ERV16

FDR130ERV162*

FDR200ERY16

Improved Features

New wired LCD remote controller

New LCD based wired type remote handset with alphabetic error display like HP, LP, SPPR, indoor fan current sensor etc. In-built energy saver dedicated button and glossy finish.

High performance even at high ambient temperature

Always keeping your comfort in mind, Daikin ducted air conditioners work at high ambient temperature (48°C) without tripping. Get the best out of Daikin ducted air conditioners even in hot weather conditions.

Under voltage and over voltage protection

Given the erratic electricity supply it becomes important that your air conditioners are guarded against under voltage and over voltage. Daikin ducted air conditioners offer protection against voltage fluctuation thus enhancing the operating life of your air conditioners.

Phase imbalance voltage

It is vital that your air conditioner is protected against imbalance and Daikin duct air conditioners offer this protection to ensure reliable operation of the air conditioner.

Electrical equipment especially motors and their controllers will not operate reliably on unbalanced voltages. Greater imbalances may cause overheating of components and damage the air conditioners.

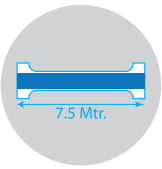
Phase Loss Protection

In case of any phase loss Daikin machine will display error on its controller.

Phase reverse protection

Phase reversal could cause serious problems therefore much care is required to protect the motor from such type of fault. Daikin duct air conditioners offer protection from phase reversal thus enhancing the life of the air conditioners.

Pre-charged refrigerant

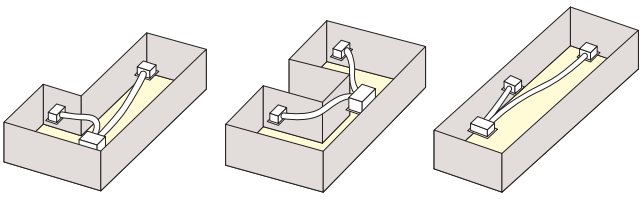


Daikin India's FDR65, FDR100, FDR130 and FDR200 models are available with pre-charged refrigerant for 7.5 meter piping length. No need for additional refrigerant charge on-site if piping length is upto 7.5 meters.

Comfortable

Superior air distribution for comfortable living

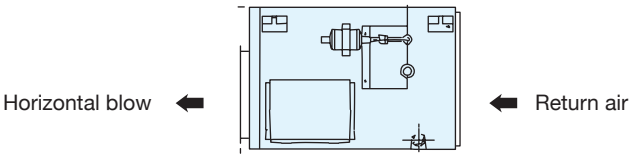
The conditioned air can be effectively distributed to every corner of the room through the ducting and this ensures a pleasant environment for comfortable living.



L-shaped room | U-shaped room | Long room

*Available in twin circuit also
** Models available in R-22 also (5.5 ~16.7 TR)

Air discharge orientation
FDR65-200 models come with standard horizontal air discharge.



Flexibility of air supply
Air flow can be adjusted by using Fan speed button on LCD Remote controller.

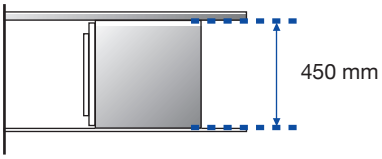
Versatility
Multiple rooms can be cooled together at the same time by using just one unit of fan coil unit.

Fresh air intake for healthy living
Fresh air can be introduced into the building through the design of fresh air intakes. This will help to improve the indoor air quality.

Compact

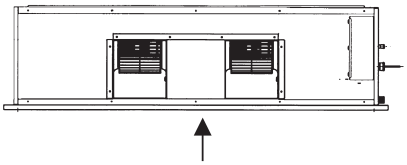
Compact design of built-in type helps blend with interior decor
Indoor models are compact in size and designed with twin coil structure. This design effectively saves space during installation.

Compact size
To fit in tight ceiling spaces, few models are available with 450 mm height only



Work & Servicing

Easy maintenance
The simple design concept has provided the ease of maintenance and servicing. Access to the internal part of the unit can be from the service panel or other side of the unit by loosening a few screws.



Remote Controller

NEW

*4P408280-1A

*Applicable models upto FDR200

Wired Controller (Standard)

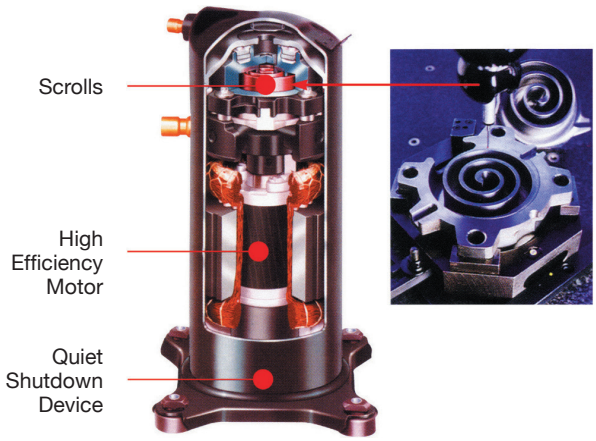
Others

Air Filter as standard
Washable Air Filter is equipped as standard.

Outdoor Unit

Scroll compressor
All outdoor units are using scroll compressor which has better energy efficiency and quiet in operation.

Anti-corrosion of heat exchanger fin
The heat exchanger fin of outdoor units are anti-corrosion treated.



Air-Cooled (Packaged)

AIR CONDITIONERS - Flexible design and great reliability.

Floor standing type

R-410A

FVGR10NV1

RUR10NY1

Direct air blow type

FVPGR10NY1

RUR10NY1

Duct connection type

Nice, cool air in the factory or in the cafeteria

Enhanced Varieties of Factory Modification and Optional Accessories

● Standard model
● Factory modification
● Contact sales for more information

		Floor Standing Type	
		Direct Air Blow	Duct Connection Type
FACTORY MODIFICATION	Auto restart	●	●
	Modify wiring for central control adapter kit (DAT107A55) installation	●	●
	Change fan motor and pulley	–	●
	Discharge grill plenum chamber	●	●
	Side discharge grill on discharge plenum chamber	●	●
	Lower drain pan	–	●
	Front suction high efficiency filter chamber	–	●
	Front suction base flange for front suction high efficiency filter chamber	–	●
	Suction grill for front suction high efficiency filter chamber	–	●
	Fresh air inlet	–	●
	Rear suction	●	●
	Drain pump	●	●
	Remote sensor (Thermistor for suction air)	●	●
	All fresh air application	●	●
	Low outdoor temp.15°C application and long pipe 70m application	●	●
OPTION	Central control adaptor kit(external terminal for ON/OFF, abnormal)[1]	DTA107A55	
	LCD remote controller[2]	BRC1C62	
	Intelligent touch controller[2]	DCS601C51	
	Central remote controller[2]	DCS302CA61	
	Unified ON/OFF controller[3]	DCS301B61	
	Schedule timer[3]	DST301BA61	
	Remote sensor (Thermistor for suction air)[3]	KRCS01-1	
	Remote controller	BRC1NU64	

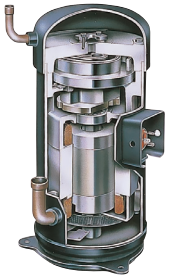
Notes: 1. Wiring modification is needed on floor stand model to connect with central control ADP kit.
2. Need to use central control adapter kit for option connection.
3. Central control adapter kit and LCD remote controller is necessary for option connection.

Quiet Operation

Equipped with scroll compressor for quiet operation

Smooth running, low vibration, low operating sound.

Outdoor unit	Sound level	
	0.92	1.76
RUR05NY1	59 dB	60 dB
RUR06NY1	59 dB	60 dB

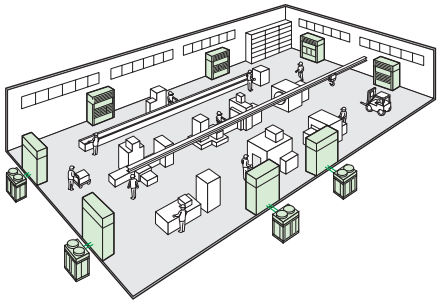


Direct Air Blow from Indoor Unit with Plenum

Comfortable factory airconditioning, using multiple indoor units installed in accordance with the space.

Installation is next to walls, so units will not affect the factory layout even if some changes are made.

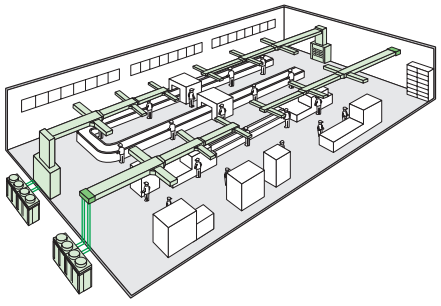
Direct air blow type



Air Blow via Connected Ducts

Comfortable airconditioning of the entire factory by connectinga blow duct at the top of the indoor unit.

Duct connection type



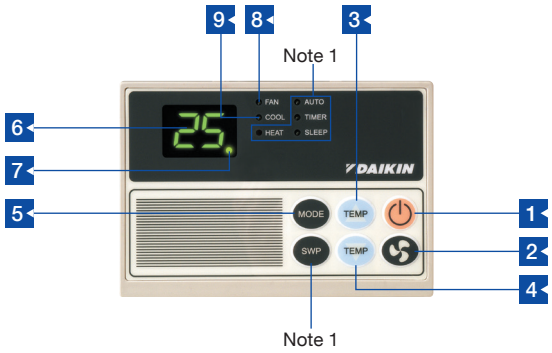
Note: Ducts to be procured locally.

Easy Operation

Digital remote control comes standard with indoor unit

Temperature setting is possible by button operation. The set temperature is conveniently displayed on the LED.

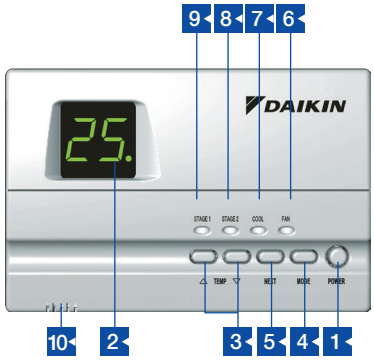
Floor standing type (Standard accessory)



1	On/Off button	6	LED display
2	Fan button	7	Compressor operation lamp
3	Temp. setting up	8	Fan operation lamp
4	Temp. setting down	9	Cool operation lamp
5	Mode button		

Note 1: It cannot be used for FVPGR10–20NY1

Duct type (Optional accessory)



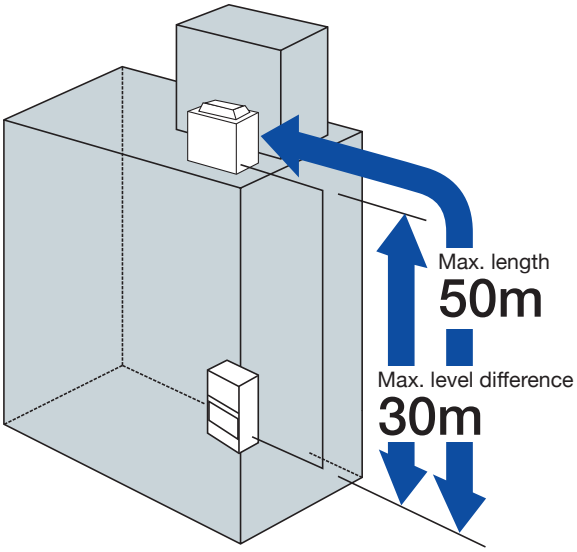
1	Power	6	Fan indicator lamp
2	Temperature scale	7	Cool indicator lamp
3	Temperature setting	8	Compressor 2 indicator lamp
4	Mode setting	9	Compressor 1 indicator lamp
5	Next setting	10	Temperature sensor

Design Flexibility

Designed for long refrigerant piping

50m maximum length and 30m maximum level difference to cover medium and large-scale building needs.

Outdoor unit roof installation possible for plenty of leeway



Refrigerant pre-charged for upto 7.5 metres

Allowable refrigerant pipe length and level difference

	Pre-charged [1]	Max. length	Max. level difference
RUR05NY1-20NY1	7.5 m	50 m (Equivalent length 70 m)	30 m

Note 1: Additional refrigerant charging is required if the refrigerant pipe is longer than the indicated length.

4-direction piping affords more freedom of layout (Applies to RUR05N/06N)

Piping can be run from the front, bottom, right or rear surface according to how the unit is installed.

In case of RUR08–20N, piping can be drawn out in two directions - front and under side.

Durability

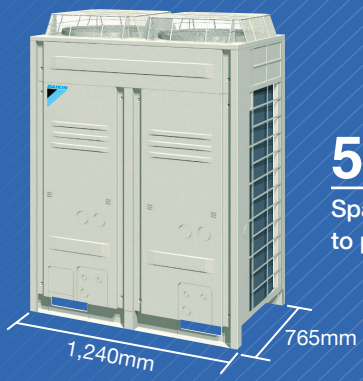
Heat exchange fins provided with anti-corrosion treatment (Applies to all outdoor units)

To achieve increased durability by improved resistance to salt corrosion and atmospheric pollution, coated PE fins (with special acryl pretreatment) are used for the heat exchanger of the outdoor unit.

Space Savings

Installation space is saved, thanks to a more compact outdoor unit. This also makes it easier to install.

Previous 20HP outdoor unit
RUG10AUY1 X 2



New RUR20NY1 (20HP)

53%

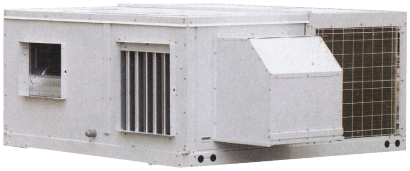
Space saved compared to previous model

Air-Cooled (Rooftop)

AIR CONDITIONERS - The Comfort with Higher Efficiency.

Rooftop

R-410A



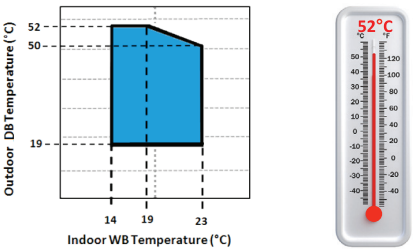
- UATQ60/90/120/150/300 180/240CGXY1 (Cooling Only)
- UATYQ250/350/450/550/ 600/700MCY1 (Heat Pump)
- With optional economiser kit*

Package Unit

Daikin's new range of rooftop packaged units has been developed specifically to suit commercial applications and are designed to be easy to install, requiring only ducting (and associated fittings), power/control wiring and drain piping. Along with the light grey colour, the flat top and compact design gives an aesthetic and neat appearance when installed in line of sight. The unit cabinet is made of powder coated sheet metal especially suitable for outdoor use. All parts of the structure are fastened with corrosion resistant screws and bolts.

High Operating Range

Designed for high ambient application. Continuous operation at an outdoor ambient temperature up to 52°C.



Flexible Air Supply utilising Variable Pitch Pulley

Utilising the Variable Pitch Pulley (VPP) driven supply fan, VPP can be adjusted on site to meet a wide range of required air flow and ESP without the need to change the pulley and belt.

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.

Scroll Compressor

Units are equipped with high efficiency and reliable scroll compressors. Each compressor is mounted on rubber vibration isolators in order to reduce the noise level and vibration transmissions.

Powder Coated Condensate Drain Pan

The sheet metal condensate drain pan is powder coated to resist corrosion.

Slots for 2 Inch Return Air Filters

A 2 inch rail is provided as standard in instances where a field supplied filter casement needs to be installed.

Higher Energy Efficiency Rating

The UATQ-C series is designed to achieve high energy savings. Its performance is claimed to be among the best in the market.

*Selected models (Refer data book)

Standard Handset

User friendly wired remote controller for UATQ-C series with following functions:

- 7 days programmable timer (on/off)
- Compressor running display
- Real time clock
- Key lock function
- Energy saving mode
- Error code display

Rooftop Panel for UATYQ - MCY1 series comprises all starting, operating and safety controls setting.

- 7 days programmable timer with 3 set of ON/ OFF, timer/day
- Dirty filter indication
- Alarm & Warning diagnostic
- Password protection for advanced setting

Component Features

1 Condenser Fan and Motor

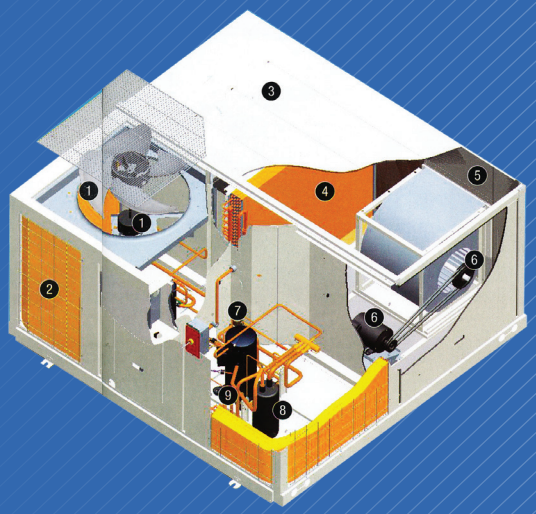
Fans are of propeller type, direct driven by weatherproof electrical induction motors. Condenser fan motor has class F insulation and splash-proof enclosure of up to IP55*.

- UATQ60/90/120/150/180/210/240/300CGXY1: IP55
- UATYQ600/700MCY1: IP55
- UATYQ250/350/450/550MCY1: IP44

2 Condenser

Condenser coils are manufactured from seamless inner grooved copper tubes mechanically bonded to Aluminium fins to ensure optimum heat transfer. All coils are tested against by Nitrogen holding at 609psig and highly precise Helium leak test at 235psig. All standard coils are up to 3 rows/14-16 FPI, 3/8" (9.52mm) O.D. tubes.

UltraGold Fin is offered as standard (1000hrs Salt Spray Tested), which has longer life span under corrosive environment.



3 Casing / Structure

The unit casing used in UATQ-C & UATYQ-MCY1 series is made of zinc coated galvanized steel sheets. It is further coated with an electrostatic powder coat and then oven-baked for a tough and lasting weather resistant finish. Zinc plated screws are used throughout to further reduce possibility of unit rusting.

4 Evaporator

Evaporator coils are manufactured from seamless inner grooved copper tubes mechanically bonded to aluminium fins to ensure optimum heat transfer. All coils are tested against by Nitrogen holding at 609psig and highly precise Helium leak test at 235psig. All standard coils are 3-4 rows/14-16 FPI, 3/8" (9.52mm) O.D. tubes.

UltraGold Fin is offered as standard (1000hrs Salt Spray Tested), which has longer life span under corrosive environment.

5 Insulation

All possible areas of condensation are insulated by PE, Polythelene. Panel insulation is 10mm thick while drain pan insulation is 5mm thick.

6 Evaporator Fan and Drive

Blower is DWDI centrifugal, forward curved type. It is mechanically and dynamically balanced and mounted on a rigid shaft in a self aligned bearing block. The motor is fitted with an adjustable V-belt drive as standard. It has class B insulation and dripping water proof, IP22.

7 Expansion Device

Electronic Expansion Valve is used to ensure accurate control of refrigerant flow.

8 Compressor

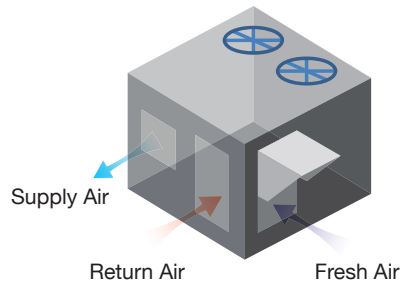
Compressor used in UATQ-C & UATYQ-MCY1 Series Packaged Units are hermetically sealed scroll type. All the compressors are provided with an internal overload protection.

9 Refrigerant Circuit

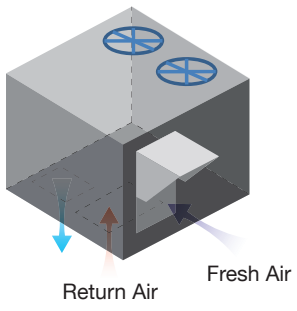
Each refrigerant circuit have independent electronic expansion devices, HP/LP switch and refrigerant line service pressure ports as standard factory HP/LP switch and refrigerant line service pressure ports as standard factory installed.

Economiser*

Economiser is available as an option to cater for horizontal or vertical air discharge/return.



Horizontal Discharge / Return



Vertical Discharge / Return

Optional Features

3rd Party Thermostat*

For application that requires uniform thermostat outlook with other electrical appliances. 3rd Party thermostat can be connected to the factory supplied module via the contact point available on the PCB board.

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 20 mA temperature adjuster while output signal will come from ON/OFF, COOL/HEAT, ALARM and DEFROST dry contact.

CO_2 Sensor*

Field specified CO_2 sensor can be easily plugged on the control board's dry contact, which is available on the economiser extension board.

Auxiliary Heater*

Auxiliary heater connection point is available on the standard PCB for field supplied heater connection.

*Combination possible only with R-410A Heat Pump rooftop unit

Horizontal Water Source Heat Pump

R410A ODP=0

MWH-D

Energy saving and environmental protection

Pioneer of Environmental Protection

Water source heat pump MWH-D series use environmental refrigerant R410A. R410A is higher volumetric capacity, w/o element of Cl, improving the efficiency, not destroying the ozone layer.

Refrigerant	ODP	Temperature slip	Volumetric capacity	Efficiency
R410A	0	0.5	141	100
R407C	0	4.4	95	98
R22	0.05	0	100	100

Notes:
- ODP is a relative value of R11
- Volumetric capacity and efficiency are relative value of R22

High Efficiency and Energy Saving

At present, McQuay measures ACOP instead of COP to identify water source heat pump efficiency. ACOP is Integrated cooling and heating Coefficient of Performance for the whole year. The highest ACOP is 4.94, for MWH060DRP, which is higher beyond national standard (GB) 4.55.

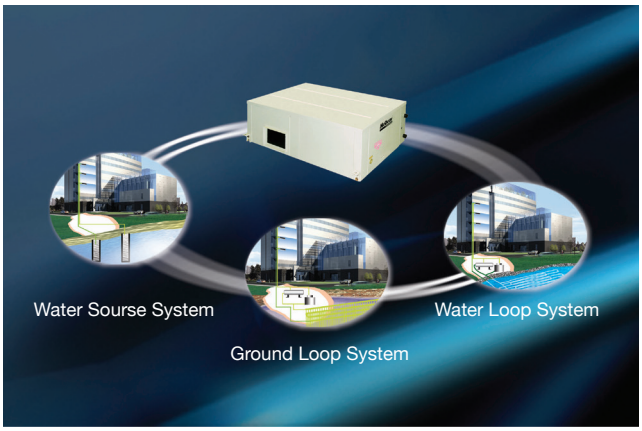
ACOP = 0.56*EER + 0.44*COP
EER = cooling capacity/cooling input power,
COP = heating capacity/heating input power.

This test room is Nationally Recognized Testing Laboratory

Reproducible Energy Sources

The MWH-D series take use of ground water, surface water, ground and other resource which include low-quality energy which is renewable energy sources.

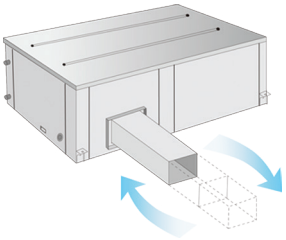
The unit can be applied to water loop system, water source system, ground water system or other water system due to wide-range working condition.



Flexible application

Flexibility in Static Pressure Selection

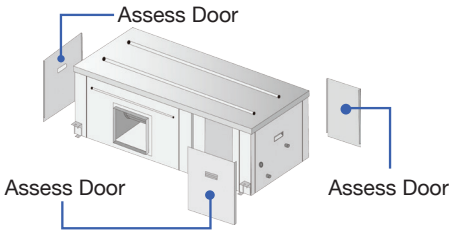
McQuay MWH-D series (1HP-7HP) take use of high-performance fan motor. For 8HP-15HP units , 4 types of ESP option is provided to meet air supply requirement.



1HP~7HP

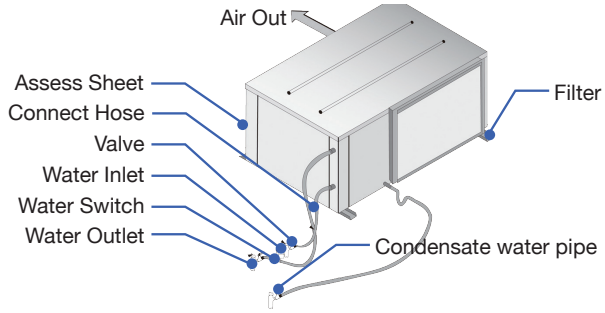
Easy Maintenance

MWH-D series are designed with assess doors and knobs in three directions, which is easier for service engineers to change parts on site.



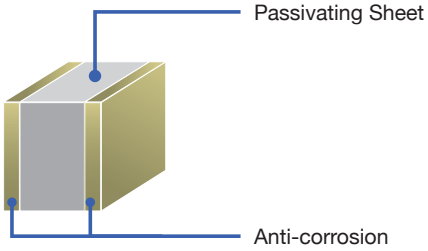
Convenient Installation

MWH-D series have charged refrigerant R410A before shipment. Customers only need to wiring, install water pipes and air ducts on job site. So installation cost is highly reduced.



With full accessories

Standard MWH-D series come along with accessories including: wired controller, 8m communication cable, moldproof air filter and waterpipe joint and rubber isolator make installtion more convenient and easier.



Safety & Reliability

Multiple Protections

MWH-D series are designed with multiple protections: the high and low pressure protection, water leakage protection and circulating water temperature protection. The wired controller is installed with sound, light and code alarm, which feedback fault information fastly to make sure formal operation.

No Refrigerant Liquid Attack

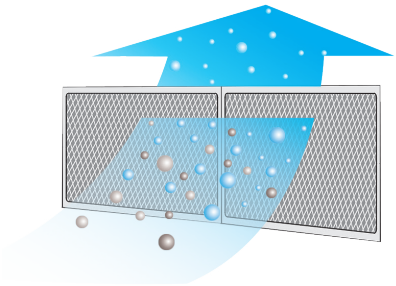
MWH-D series are designed with liquid accumulator which can store redundant refrigerant when operation condition changes so that to prevent compressor from liquid attack.

Scroll

Liquid Accumulator

Superior IAQ

MWH-D series standard filters are washable to ensure the coil clean and run efficiently, to provide clean indoor air continously.

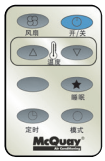


Intelligent Control System

Intelligent Control System

MWH-D series adapt various ways of control, including standard wired controller(MC322) and other options, for example: wireless remote card controller, central controller (max to 64 units), Smart Commander and supporting BMS system under Modbus.

Wired Controller (MC322+8m wiring) (Standard)



Wireless Card Type (Optional)

Centralized Controller (Optional)

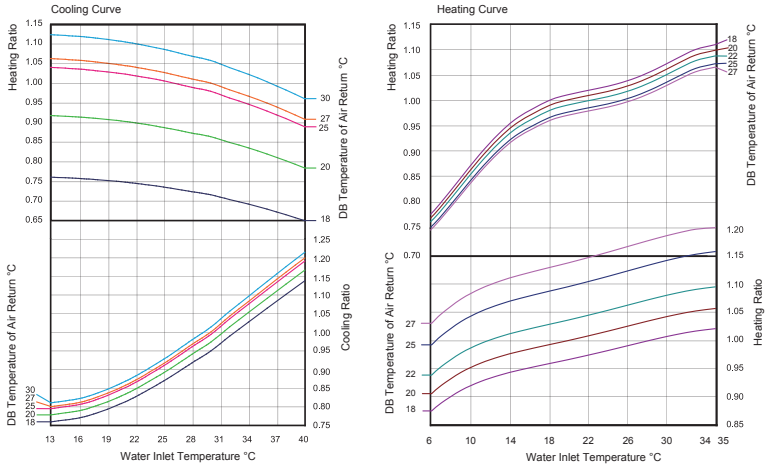
Modbus (Optional)

Smart Commander Software (Optional)

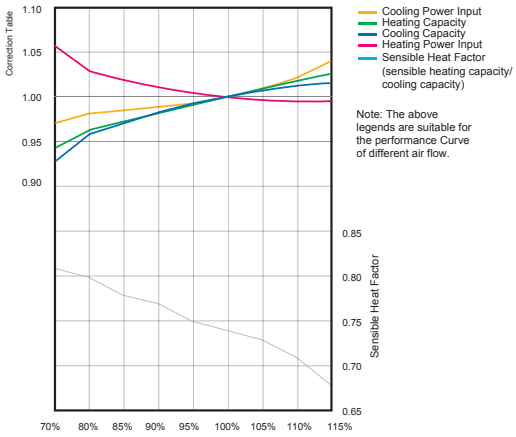
Note: For above option, please contact factory in advance

Performance Curve

Different Conditions



Different Air Flow



Note: The performance curve of different conditions is tested on norminal water flow.

Correction Table of Water Temperature Difference

Water Inlet/Outlet Temperature Difference	10	9	8	7	6	5	4
Water Flow	0.500	0.560	0.620	0.720	0.840	1.000	1.130
Cooling Capacity	0.986	0.990	0.994	0.997	0.999	1.000	1.001
Heating Capacity	0.978	0.984	0.990	0.997	1.001	1.000	0.994
Cooling Power Input	1.043	1.034	1.025	1.016	1.008	1.000	0.989
Heating Power Input	0.989	0.992	0.994	0.996	0.998	1.000	1.004

Note: specification is based on 30°C water inlet temperature, 27°C (DB) air return temperature.

Operating Range

Operating Range	Cooling	Heating
Indoor Air DB Temperature	16—35°C	10—30°C
Cooling Capacity	13—40°C	6—35°C

Note: If the units run beyond above operating limit, it may cause damage to the units.

Specifications

HIGH STATIC DUCT TYPE (Cooling only)

R-410A

Model					5.5 TR	8.5TR	11.0 TR	11.0 TR	16.7 TR
	Indoor Unit				FDR65ERV16	FDR100ERV16	FDR130ERV16	FDR130ERV162	FDR200ERY16
	Outdoor Unit				RR65ERY16	RR100ERY16	RR130ERY16	RR65ERY16(2NO)	RR100ERY16(2NO)
Nominal Cooling Capacity				Btu/H	66000	102000	132000	132000	200000
				KW	19.3	29.9	38.7	38.7	58.6
Nominal Total Input Power (Cooling)				W	6500	9000	12400	12900	18500
Running Current				A	10	14.5	20	22	32
Power Source				V/Ph/Hz	415/3/50				
Refrigerant Type				---	R410A				
INDOOR UNIT	Control	Operation		---	Wired Control				
		High		cfm	2200	3400	4400	4400	6600
		Medium		cfm	2045	3100	3850	3850	5800
		Low		cfm	1890	2800	3330	3330	5000
		High		Pa	50	50	60	60	80
	Sound Pressure Level (H)			dBA	51	52	54	54	59
	Unit Dimension		Height X Width X Depth	mm	450 X 1170 X 700	450 x 1560 x 700	470 x 1700 x 940	470 x 1700 x 940	590 x 1885 x 1145
	Packing Dimension		Height X Width X Depth	mm	465 X 1370 X 720	585 X 1780 X 740	620 X 1930 X990	620 X 1930 X990	755 X 2130 X 1250
	Unit Weight			kg	60	88	123	128	175
	Condensate Drain Size			mm	40.5				
	Unit Dimension		Height X Width X Depth	mm	930 X 1025 X 410	930 X 1200 X 550	930 X 1650 X 620	930 X 1025 X 410	930 X 1200 X 550
	Packing Dimension		Height X Width X Depth	mm	1080 X 1170 X 470	1080 X 1350 X 620	1088 X 1846 X 720	1080 X 1170 X 470	1080 X 1350 X 620
	Unit Weight			kg	95	132	148	95	132
	Pipe Connection	Type		---	Liquid (Flared) & Gas (Brazed)				
		Size	Liquid	mm	12.7	12.7	15.9	12.7	12.7
			Gas	mm	22.2	28.6	28.6	22.2	28.6
	Refrigerant Pre-Charged (At 7.5m Pipe Length)			kg	3.7	5.1	7	3.7	5.1

Note:
- All specifications are subject to change by the manufacturer without prior notice.
- Cooling capacity is based on the conditions below:
  Cooling - 27°C DB / 19°C WB indoor and 35°C DB outdoor.
- Refrigerant (R-410) is pre-charged at factory shipment (Outdoor Unit).

Specifications

HIGH STATIC DUCT TYPE (Cooling only)

R-22

Model					5.5 TR	8.5 TR	11.0 TR	16.7 TR
	Indoor unit				FD65DSV16	FD100DSV16	FD130DSV16	FD200DSY16
	Outdoor unit				R65DSY16	R100DSY16	R130DSY16	R100DSY16 x 2
Capacity				Btu/h	66000	102000	132000	200000
				kW	19.34	29.9	38.7	58.6
Total Input Power				W	6450	9500	13000	19510
Running Current				A	11	17	22	33
Power Source				V/Ph/Hz	415 / 3 / 50			
Refrigerant Type					R22			
INDOOR UNIT	Control		Operation		LCD Wired Controller			
	Air Flow		Super High	cfm	-			
			High	cfm	2200	3400	4400	6600
			Medium	cfm	2045	3100	3850	5800
			Low	cfm	1890	2800	3330	5000
			High	Pa	50	50	60	80
	Sound Pressure Level			dBA	53	53	57	59
	Unit Dimension		Height	mm	450	450	470	590
			Width	mm	1170	1560	1700	1885
			Depth	mm	700	700	940	1145
	Packing Dimension		Height	mm	465	585	620	755
			Width	mm	1370	1780	1930	2130
			Depth	mm	720	740	990	1250
	Unit Weight			kg	60	90	128	175
	Condensate Drain Size			mm	40.5			
	Unit Dimension		Height	mm	930			
			Width	mm	1025	1200	1650	1200
			Depth	mm	410	550	620	550
	Packing Dimension		Height	mm	1080	1080	1088	1080
			Width	mm	1170	1350	1846	1350
			Depth	mm	470	620	720	620
	Unit Weight			kg	95	144	160	144
	Pipe Connection	Type			Brazed			
		Size	Liquid	mm	12.7	12.7	15.8	12.7
			Gas	mm	22.4	28.58	34.92	28.58
	Refrigerant Pre-Charged (At 7.5m Pipe Length)			kg	4.2	6	8.7	6.0 (x2)

Note:
- All specifications are subject to change by the manufacturer without prior notice.
- Cooling capacity is based on the conditions below:

  Cooling - 27°C DB / 19°C WB indoor and 35°C DB outdoor.
- Refrigerant (R-22) is pre-charged at factory shipment (Outdoor Unit).

FLOOR STANDING TYPE (Cooling only) - Direct Air Blow Type

R-410A

Model				4.2 TR	5.0 TR	6.7 TR	8.3 TR
	Indoor unit			FVGR05NV1	FVGR06NV1	FVGR08NV1	FVGR10NV1
	Outdoor unit			RUR05NY1	RUR06NY1	RUR08NY1	RUR10NY1
Power supply				380-415 V, 50 Hz, 3 Phase, 4 Wires			
Cooling capacity 1,3			kW	14.7	17.6	23.5	29.3
			Btu/h	50000	60000	80000	100000
			kcal/h	12600	15100	20200	25200
Power consumption 1			kW	5.5	6.4	8.6	11.2
Running current			A	9	10.4	14.4	18.9
Starting current			A	72.7	80.9	118.2	135
Power factor			%	88.2	88.8	85.9	85.5
INDOOR UNIT	Colour			Ivory White			
	Air flow rate (H)		m3/min	42	42	54	80
			cfm	1480	1480	1910	2830
	Fan	Drive		Direct Drive 3 Speed			
	Sound level (H/M/L) 2		dBA	59/54/50	59/54/50	60/56/51	61/57/52
	Dimensions (HxWxD)		mm	1,870x750x510	1,870x750x510	1,870x950x510	1,870x1,170x510
	Machine weight		kg	90	90	107	143
	Operation range		°CWB	14 to 25			
OUTDOOR UNIT	Colour			Ivory White			
	Compressor	Type		Hermetically sealed scroll type			
		Motor output	kW	4.5	4.5	6.7	9
	Refrigerant oil	Model		Refer to the name plate of compressor			
		Charge	L	1.4	1.8	3.3	3.3
	Refrigerant charge (R-410A)		kg	2.5 (Charged for 7.5 m)	3.5 (Charged for 7.5 m)	4.5 (Charged for 7.5 m)	6.0 (Charged for 7.5 m)
	Sound level 2	380V	dBA	59	59	60	61
		415V	dBA	60	60	61	62
	Dimensions (HxWxD)		mm	1,345x900x320		1,680x930x765	
	Machine weight		kg	92	105	203	206
	Operation range		°CDB	21 to 46			
REFRIGERANT PIPING	Indoor Unit	Liquid	mm	Ø9.5 (Brazing)	Ø9.5 (Brazing)	Ø12.7 (Brazing)	Ø12.7 (Brazing)
		Gas	mm	Ø19.1 (Brazing)	Ø19.1 (Brazing)	Ø22.2 (Brazing)	Ø28.6 (Brazing)
		Drain	mm	PS 1B Internal thread			
	Outdoor Unit	Liquid	mm	Ø9.5 (Flare)	Ø9.5 (Flare)	Ø12.7 (Flare)	Ø12.7 (Flare)
		Gas	mm	Ø19.1 (Flare)	Ø19.1 (Flare)	Ø22.2 (Brazing)	Ø28.6 (Brazing)
		Drain	mm	Ø26.0 (Hole)	Ø26.0 (Hole)	-	-
Max. interunit piping length			m	50 (equivalent length 70 m)			
Max. installation level difference			m	30			

Note:
1. Rated cooling capacities are based on the following conditions: Return air temp., 27°CDB, 19.5°CWB; outdoor temp. 35°CDB. Equiv. refrigeration piping, 5 m (horizontal).
2. Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.
3. Capacity includes indoor fan motor heat.

Specifications

FLOOR STANDING TYPE (Cooling only) - Duct Connection Type

R-410A

Model				8.3 TR	10 TR	13.3 TR	15.0 TR	16.7 TR
	Indoor unit			FVPGR10NY1	FVPGR13NY1	FVPGR15NY1	FVPGR18NY1	FVPGR20NY1
	Outdoor unit			RUR10NY1	RUR13NY1	RUR15NY1	RUR18NY1	RUR20NY1
Power supply				380-415 V, 50 Hz, 3 Phase, 4 Wires				
Cooling capacity 1,3			kW	29.3	35.2	46.9	52.8	58.6
			Btu/h	100000	120000	160000	180000	200000
			kcal/h	25200	30200	40300	45400	50400
Running current			A	19.2	24.3	29	34.6	40.4
Power consumption 1			kW	11.4	14.9	17.8	21.2	24.8
Starting current			A	129.5	118	130.3	143.4	146.3
Power factor			%	85.7	88.5	88.6	88.4	88.6
INDOOR UNIT	Colour			Ivory White				
	Air flow rate (H)		m3/min	80	120	120	162	162
			cfm	2830	4240	4240	5720	5720
	Fan	Drive		Belt Drive				
		Ext. Static Pressure	(mmH2O)	15				
	Sound level 2		dBA	61	62	62	63	63
	Dimensions (HxWxD)		mm	1,740x1,170x510	1,870x1,170x720	1,870x1,170x720	1,870x1,470x720	1,870x1,470x720
	Machine weight		kg	150	180	180	240	240
	Operation range		°CWB	14 to 25				
OUTDOOR UNIT	Colour			Ivory White				
	Compressor	Type		Hermetically sealed scroll type				
		Motor output	kW	9	5.0+5.0	6.7+6.7	7.5+7.5	9.0+9.0
	Refrigerant oil	Model		Refer to the name plate of compressor				
		Charge	L	3.3	5	6.5	6.5	6.5
	Refrigerant charge (R-410A)		kg	6.0 (Charged for 7.5 m)	4.5 (Charged for 7.5 m)	8.0 (Charged for 7.5 m)	8.0 (Charged for 7.5 m)	8.0 (Charged for 7.5 m)
	Sound level 2	380V	dBA	61	61	62	63	63
		415V	dBA	62	62	63	64	64
	Dimensions (HxWxD)		mm	1,680x930x765	1,680x1,240x765	1,680x1,240x765	1,680x1,240x765	1,680x1,240x765
	Machine weight		kg	206	243	319	322	329
	Operation range		°CDB	21 to 46				
REFRIGERANT PIPING	Indoor Unit	Liquid	mm	Ø12.7 (Brazing)	Ø12.7 (Brazing)	15.9 (Brazing)	15.9 (Brazing)	15.9 (Brazing)
		Gas	mm	Ø28.6 (Brazing)	Ø28.6 (Brazing)	34.9 (Brazing)	34.9 (Brazing)	34.9 (Brazing)
		Drain	mm	PS 1B Internal thread				
	Outdoor Unit	Liquid	mm	Ø12.7 (Flare)	Ø12.7 (Flare)	Ø15.9 (Flare)	Ø15.9 (Flare)	Ø15.9 (Flare)
		Gas	mm	Ø28.6 (Brazing)	Ø28.6 (Brazing)	Ø34.9 (Brazing)	Ø34.9 (Brazing)	Ø34.9 (Brazing)
		Drain	mm	-				
Max. interunit piping length			m	50 (equivalent length 70 m)				
Max. installation level difference			m	30				

Note:
1. Rated cooling capacities are based on the following conditions: Return air temp., 27°CDB, 19.5°CWB; outdoor temp. 35°CDB. Equiv. refrigeration piping, 5 m (horizontal).
2. Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.
3. Capacity includes indoor fan motor heat.

ROOFTOP SERIES (Cooling only)

R-410A

Model		5.2 TR	7.8 TR	10.4 TR	12.9 TR	15.8	18.3	20.7	26.0
		UATQ60C	UATQ90C	UATQ1 20C	UATQ150C	UATQ1 80C	UATQ240C	UATQ240C	UATQ300C
Rated Capacity	Btu	62,500	93,400	1,24,500	1,54,400	1,89,000	2,20,000	2,48,600	3,12,200
	kW	18.32	27.37	36.49	45.25	55.39	64.48	72.86	91.5
Total Power Input	kW	4.52	7.20	9.45	12.00	14.72	16.90	19.29	24.52
Total Running Current	A	8.20	13.50	17.00	24.10	27.20	33.90	38.70	46.00
COP	W/W	4.05	3.80	3.86	3.77	3.76	3.82	3.78	3.73
Power Source	V/Ph/Hz	380-415V/3/50	380-415V/3/50	380-415V/3/50	380-415V/3/50	380-415V/3/50	380-415V/3/50	380-415V/3/50	380-415V/3/50
Control Operation		Wired Control	Wired Control	Wired Control	Wired Control	Wired Control	Wired Control	Wired Control	Wired Control
Air Flow	cfm	2000	2800	4400	5000	7000	7600	8000	9000
External Static Pressure (Factory Setting)*	Pa	50-500(100)	50-500(100)	50-500(100)	50-500(150)	50-500(150)	50-500(200)	50-500(200)	50-500(250)
Fan Drive		Belt Driven	Belt Driven	Belt Driven	Belt Driven	Belt Driven	Belt Driven	Belt Driven	Belt Driven
Air Quality(Filter)	Type	Saranet	Saranet	Saranet	Saranet	Saranet	Saranet	Saranet	Saranet
	Qty	1	1	2	2	2	2	2	2
Unit Dimension (HxWxD)	mm	1150 x 1280 x 1520	1350 x 1280 x 1520	1390 x 1965 x 1630	1390 x 1965 x 1630	1690 x 1965 x 1905	1650 x 2410 x 2030	1650 x 2410 x 2030	1950 x 2410 x 2030
Packing Dimension (HxWxD)	mm	1270 x 1320 x 1710	1410 x 1320 x 1710	1440 x 2020 x 1840	1440 x 2020 x 1840	1730 x 2120 x 2020	1740 x 2570 x 2290	1740 x 2570 x 2290	2040 x 2570 x 2290
Unit Weight	Kg	350	380	590	650	840	930	940	1090
Gross Weight	Kg	370	400	620	680	870	970	980	1130
Compressor	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	Qty	1	1	2	2	2	2	2	2
Refrigerant (PreCharged)	Kg	9.5	11.5	5.2 + 5.2	8.5 + 8.5	8.5 + 8.5	12.0 + 12.0	10.8 + 10.8	14.0 + 14.0
Operating Range	CDB	up to 52 C	up to 52 C	up to 52 C	up to 52 C	up to 52 C	up to 52 C	up to 52 C	up to 52 C

Note:
1. Gross Cooling Capacity Based on 27°C DB / 19°C WB Indoor and 35°C DB outdoor
2. All Units are being tested and Comply to ISO 5151 (Non-Ducted Unit) or ISO 13253 (Ducted Unit)
3. All specifications are Subjected to Change by the manufacturer without prior notice

ROOFTOP SERIES (Heat Pump)

R-410A

Model				7.8 TR	10.1 TR	12.7 TR	15.8 TR	19.0 TR	20.6 TR
				UATYQ250MCY19	UATYQ350MCY1	UATYQ450MCY1	UATYQ550MCY1	UATYQ600MCY1	UATYQ700MCY1
Nominal Cooling Capacity (Gross)			Btu/h	93300	121400	152600	190000	228000	247700
			W	27340	35580	44720	55690	66820	72600
Nominal Heating Capacity (Nett)			Btu/h	85000	118700	142600	184000	210500	237500
			W	24910	34790	41790	53930	61690	69610
Power Source			V/Ph/Hz	380 -415 /3 /50		380 -415/3 /50		380 -415/3 /50	
Refrigerant Type / Control				R410A / EXV		R410A / EXV		R410A / EXV	
EER (Gross)			W/W	3.36	3.3	3.43	3.33	3.4	3.36
COP (Net)			W/W	3.4	3.21	3.25	3.47	3.32	3.25
EVAPORATOR	Sound Power Level @ 100 ESP		dBA	68	72	75	82	84	87
	Sound Power Level @ Std ESP		dBA	73	76	80	84	84	90
	Control		Air Discharge	Ducted					
			Operation	Wired					
	Air Flow		l/s/cfm	1560 / 3300	2030 / 4300	2670 / 5650	3160/ 6700	34457300	39178300
	External Static Pressure		Pa/in.wg.	147 / 0.6	147 / 0.6	147 / 0.6	206 / 0.8	196 / 0.8	206 / 0.8
	Condensate Drain Size		mm/in	25.4 / 1	25.4 / 1.0	25.4 / 1	25.4 / 1.0	25.4 / 1.0	25.4 / 1.0
CONDENSER	Air Flow		l/s/cfm	3884 / 8230	5664 / 12000	5710 / 12100	6090 / 12900	9534 / 20200	10006 / 21200
	Sound Power Level		dBA	82	83	83	87	90	90
	Unit Dimension	Height	mm/in	1150 / 45.3	1028 / 40.5	1130 / 44.5	1048 / 41.3	1302 / 51.3	1454 / 57.3
		Width	mm/in	1638 / 64.5	2209 / 87.0	2209 / 87.0	2209 / 87.0	2209 / 87.0	2209 / 87.0
		Depth	mm/in	2063 / 81.2	2113 / 83.2	2113 / 83.2	2670 / 105.1	2670 / 105.1	2670 / 105.1
	Packing Dimension	Height	mm/in	1370 / 54	1200 / 47.3	1290 / 50.8	1270 / 50.0	1520 / 59.9	1670 / 65.8
		Width	mm/in	1730 / 68.2	2280 / 89.8	2280 / 89.8	2280 / 89.8	2280 / 89.8	2280 / 89.8
		Depth	mm/in	2300 / 90.6	2350 / 92.6	2350 / 92.6	2900 / 114.2	2900 / 114.2	2900 / 114.2
	Unit Weight (Net)		kg/lb	445 / 981	580 / 1278	610 / 1344	780 / 1720	830 / 1830	970 / 2139
	Refrigerant Pre-charged			6.1 / 13.4	(2 X 5.8) / (2 X 12.8)	(2 X 7.2) / (2 X 15.9)	(2 X 8.7) / (2 X 19.2)	(2 X 10.4) / (2 X 22.9)	(2 X 11.6) / (2 X 25.6)

Note: All units are being tested and comply to ISO 5151 (Non-Ducted Unit) or ISO 13253 (Ducted Unit). Cooling indoor: 27°C dB / 19°C WB, outdoor: 35°C dB / 24°C WB; Heating-indoor: 20°C dB, outdoor: 8°C dB / 6°C WB

* Also available in R-407 C

Specifications

HORIZONTAL WATER SOURCE HEAT PUMP

R-410A

Model			0.78 TR	1.49 TR	1.89 TR	2.48 TR	2.90 TR	3.55 TR
			MWH010DRP	MWH020DRP	MWH025DRP	MWH030DRP	MWH040DRP	MWH050DRP
Nominal Cooling Capacity		W	2750	5250	6650	8770	10200	12500
Nominal Heating Capacity		W	3270	6100	7100	9050	10250	13000
Air Flow Rate		m³/h	580	1050	1250	1700	1900	w2300
Power Supply			220V~/50Hz					
ESP		Pa	20	30	30	30	50	50
Dimension (Length×Width×Height)		mm	895×520×375	1265×655×435	1265×705×435	1390×745×435	1450×795×460	1450×795×510
Condenser	Type		Tube in Tube Heat Exchanger					
	Water Flow Rate	m³/h	0.61	1.12	1.42	1.94	2.14	2.67
	Water Pressure Drop	kPa	13	34	60	40	40	60
	Water Pipe Connection		R3/4	R3/4	R3/4	R3/4	R3/4	R3/4
Compressor			Rotary					
Rated Power	Cooling	W	700	1220	1520	2230	2250	2850
	Heating	W	740	1280	1540	2050	2300	2780
Rated Current	Cooling	A	3.38	5.93	7.46	11.03	10.57	13.76
	Heating	A	3.45	5.95	7.54	10.17	10.77	13.43
Condensate Drain Pipe		mm	Φ20					
Refrigerant	Type		R410A					
	Charge	kg	0.74	1.35	1.46	0.95×2	1.3×2	1.55×2
Sound Pressure Level		dB(A)	34	40	45	48	44	47
Weight		kg	56	101	103	125	155	161

R-410A

Model			4.55 TR	5.40 TR	6.98 TR	8.39 TR	9.48 TR	10.66 TR
			MWH060DRP	MWH070DRP	MWH080DRP	MWH100DRP	MWH125DRP	MWH150DRP
Nominal Cooling Capacity		W	16000	19000	25000	29500	33500	37500
Nominal Heating Capacity		W	16200	21500	25000	31500	35500	45000
Air Flow Rate		m³/h	2800	3400	5000	6000	7000	8000
Power Supply			380V/3N/50Hz					
ESP		Pa	80	80	80(50/100/150)	100(80/150/200)	100(80/150/200)	150(100/200/250)
Dimension (Length×Width×Height)		mm	1580×850×520	1670×855×520	1756×1000×660	1970×1150×708	1970×1150×708	2226×1200×736
Condenser	Type		Tube in Tube Heat Exchanger					
	Water Flow Rate	m³/h	3.3	4.22	5.23	6.12	7.11	7.78
	Water Pressure Drop	kPa	60	61	73	45	55	65
	Water Pipe Connection		R3/4	R1	R1-1/4	R1-1/4	R1-1/4	Rc1-1/4
Compressor			Scroll					
Rated Power	Cooling	W	3300	4900	5600	6300	8500	9450
	Heating	W	3200	4800	5400	6400	8100	10300
Rated Current	Cooling	A	5.91	8.63	11.45	13.68	15.89	17.78
	Heating	A	5.83	8.41	11.11	13.87	14.46	18.89
Condensate Drain Pipe		mm	Φ20		Φ34			
Refrigerant	Type		R410A					
	Charge	kg	3.5	2.8	3.5	3.2×2	3.0×2	3.7×2
Sound Pressure Level		dB(A)	49	54	55	59	59	60
Weight		kg	198	208	245	365	375	450

Notes:
- Specifications will be subjected to change by manufacturer without prior notice.
- Cooling capacity is based on 27°C (DB), 19°C (WB) air inlet temperature and 30°C water inlet temperature, 35°C water outlet temperature.
- Heating capacity is based on 20°C (DB), 15°C (WB) air inlet temperature and 20°C water inlet temperature.

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DAIPL-2016/17-PA-1A