

WORLD'S NO. 1
AIRCONDITIONING COMPANY FROM JAPAN



Versatility is the mark of **Perfection**



High Static Series



Rooftop Series



**Water Source Heat
Pump Series**



Floor Standing Series

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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 | | | | |
| DIRECT AIR BLOW TYPE | OUTDOOR UNIT |  |  |  |  | | | | |
| | | RUR05NY1 | RUR06NY1 | RUR08NY1 | RUR10NY1 | | | | |
| DUCT CONNECTION TYPE | INDOOR UNIT | | | |  |  |  |  |  |
| | | | | | FVPGR10NY1 | FVPGR13NY1 | FVPGR15NY1 | FVPGR18NY1 | FVPGR20NY1 |
| DUCT CONNECTION TYPE | 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 SERIES UATQ-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 SERIES UATYQ-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's 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*



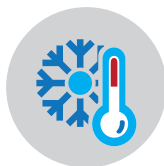
► FDR200ERY16

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

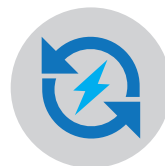
It is vital that your air conditioner is protected against imbalance and Daikin duct air conditioners offer this protection to ensure reliable operation of the air conditioner.

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.



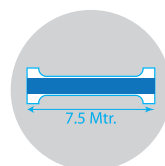
Phase Loss Protection

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.



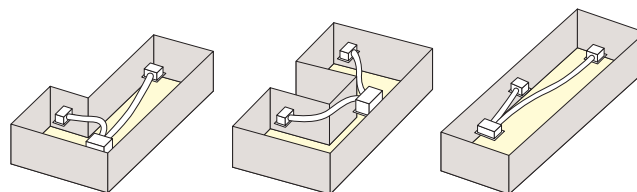
Pre-charged refrigerant

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

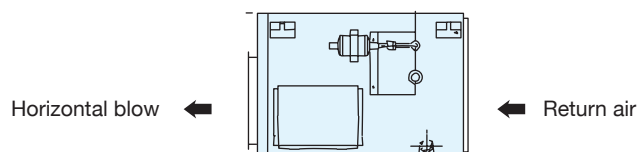
► Long room

*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

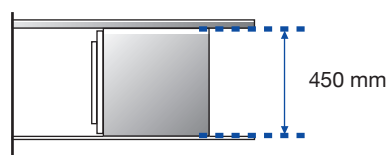
Compact design of built-in type helps blend with interior decor

Indoor models are compact in size and designed with twin coil structure. This design effectively saves space during installation.



Compact size

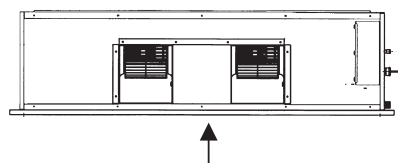
To fit in tight ceiling spaces, few models are available with 450 mm height only



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.

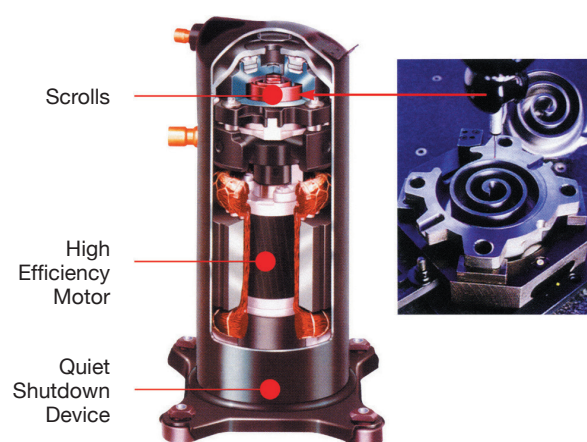
Outdoor Unit

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

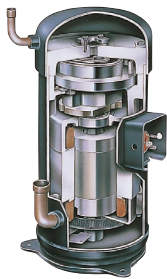
| | Floor Standing Type | |
|----------------------|--|----------------------|
| | Direct Air Blow | Duct Connection Type |
| FACTORY MODIFICATION | Auto restart | ● |
| | Modify wiring for central control adapter kit (DAT107A55) installation | ● |
| | Change fan motor and pulley | ● |
| | Discharge 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 |

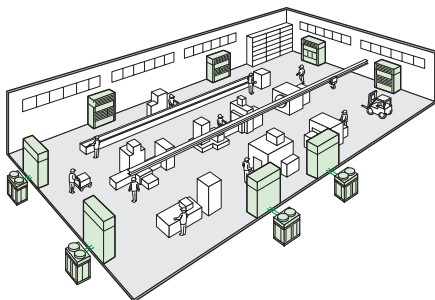


Direct Air Blow from Indoor Unit with Plenum

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.

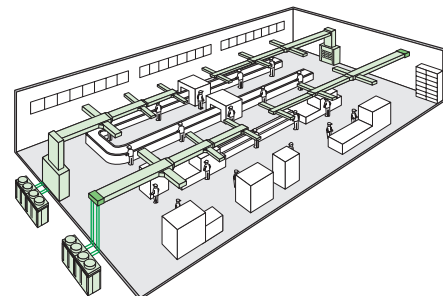
Direct air blow type



Air Blow via Connected Ducts

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

Duct connection type



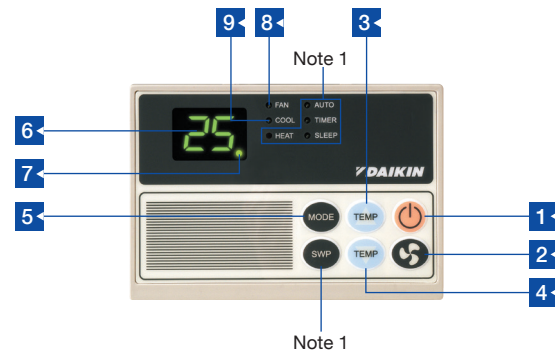
Note: Ducts to be procured locally.

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)



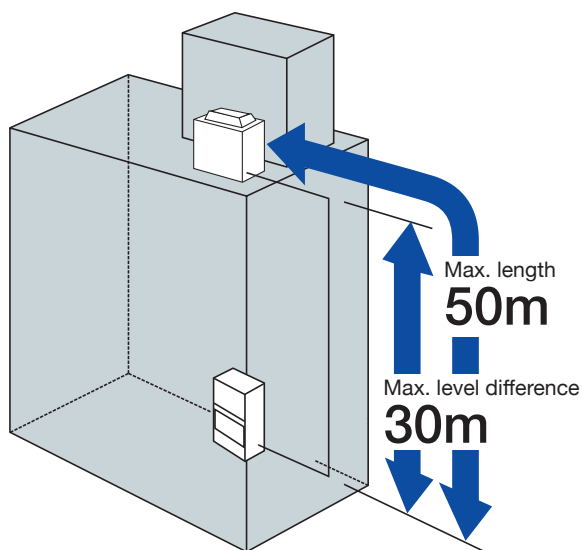
- | | |
|------------------------|--------------------------------|
| 1◀ Power | 6◀ Fan indicator lamp |
| 2◀ Temperature scale | 7◀ Cool indicator lamp |
| 3◀ Temperature setting | 8◀ Compressor 2 indicator lamp |
| 4◀ Mode setting | 9◀ Compressor 1 indicator lamp |
| 5◀ Next setting | 10◀ Temperature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

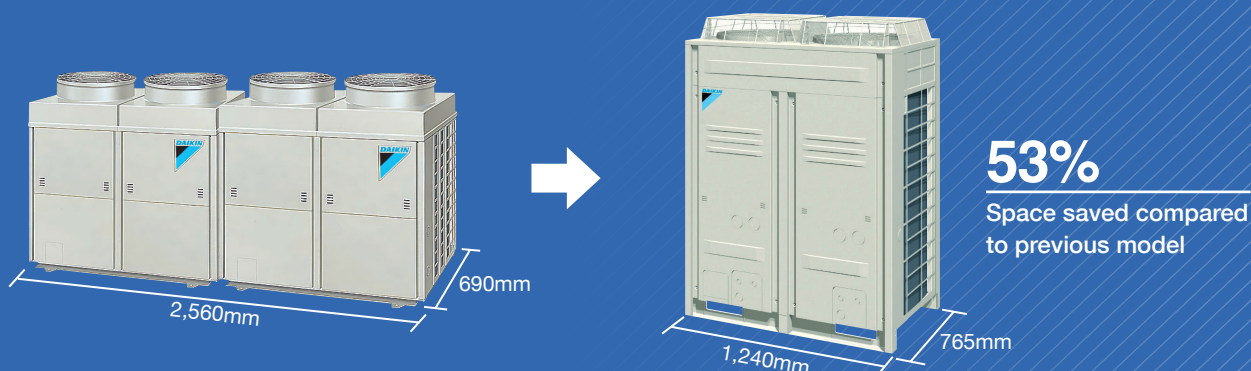
Durability

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
RUG10AU1 X 2

► New RUR20NY1 (20HP)

Air-Cooled (Rooftop)

AIR CONDITIONERS - The Comfort with Higher Efficiency.

Rooftop

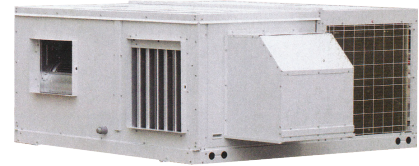
R-410A



► UATQ60/90/120/150/300
180/240CGXY1 (Cooling Only)



► UATYQ250/350/450/550/
600/700MCY1 (Heat Pump)



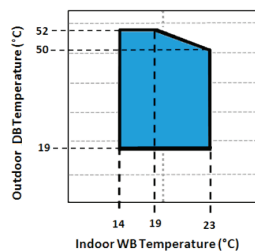
► With optional economiser kit*

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

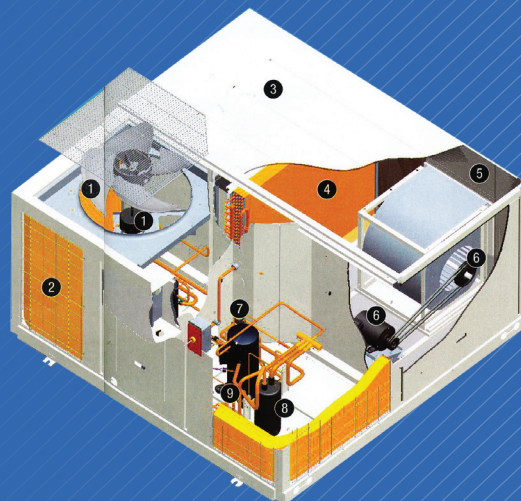
2 Condenser

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

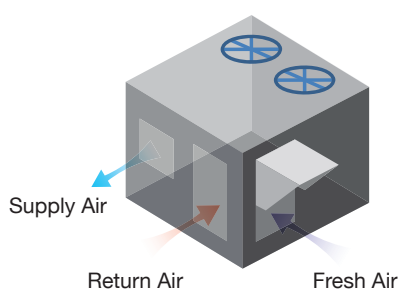
Compressor used in UATQ-C & UATYQ-MCY1 Series Packaged Units are hermetically sealed scroll type. All the compressors are provided with an internal overload protection.

9 Refrigerant Circuit

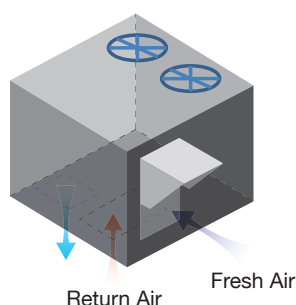
Each refrigerant circuit have independent electronic expansion devices, HP/LP switch and refrigerant line service pressure ports as standard factory HP/LP switch and refrigerant line service pressure ports as standard factory installed.

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.

CO₂ Sensor*

Field specified CO₂ 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



► 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.

$$ACOP = 0.56 \cdot EER + 0.44 \cdot COP$$

EER = cooling capacity/cooling input power,

COP = heating capacity/heating input power.

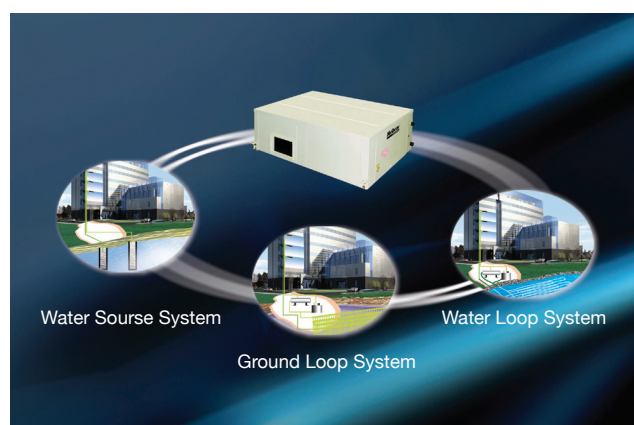


► This test room is Nationally Recognized Testing Laboratory

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.

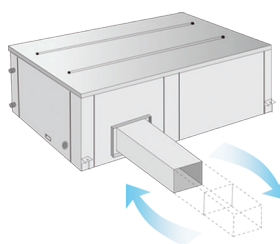
The unit can be applied to water loop system, water source system, ground water system or other water system due to wide-range working condition.



Flexible application

Flexibility in Static Pressure Selection

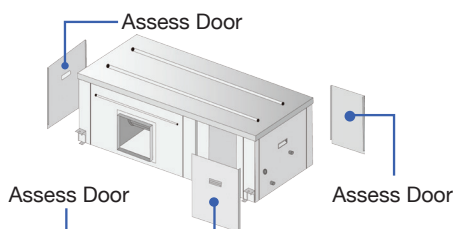
McQuay MWH-D series (1HP-7HP) take use of high-performance fan motor. For 8HP-15HP units, 4 types of ESP option is provided to meet air supply requirement.



► 1HP~7HP

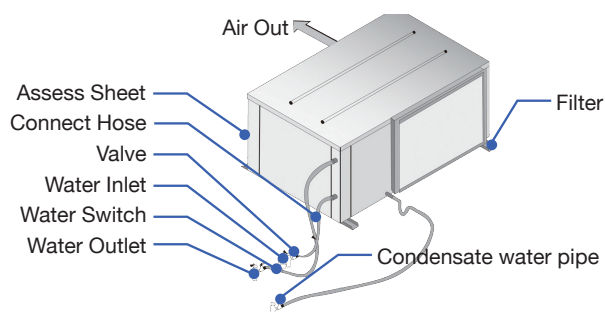
Easy Maintenance

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



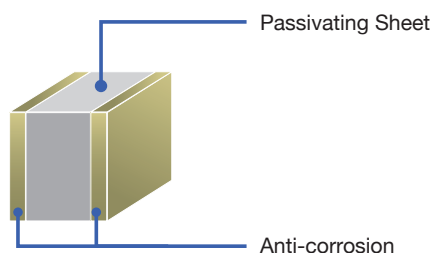
Convenient Installation

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.



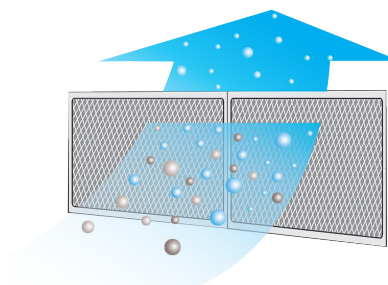
Scroll



Liquid Accumulator

Superior IAQ

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



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)

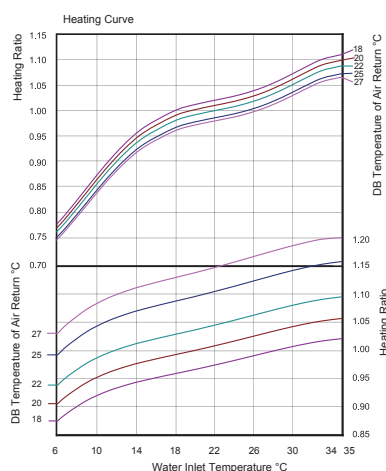
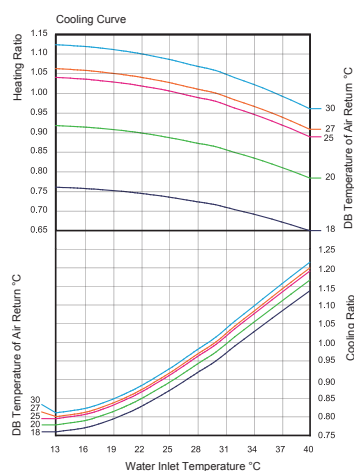


▶ Smart Commander Software (Optional)

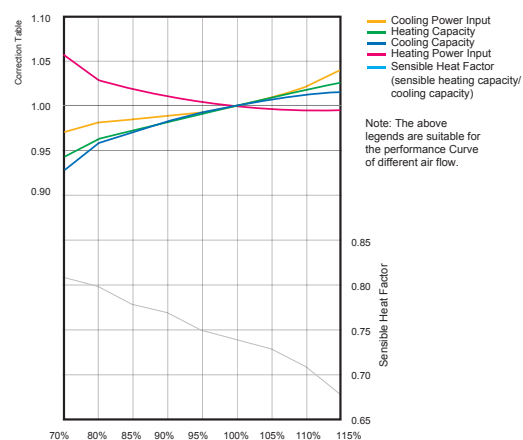
Note: For above option, please contact factory in advance

Performance Curve

Different Conditions



Different Air Flow



Note: The performance curve of different conditions is tested on normal 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

| | | | 5.5 TR | | 8.5TR | | 11.0 TR | | 11.0 TR | | 16.7 TR | | | |
|-------------------------------------|---|-----------|------------------------|----------|--------------------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--|
| Model | | | 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 | |
|------------------------------------|-----------------------------|--|--------------|--|---------------------------------------|--|-------------------------|--|
| | | | | | FVGR05NV1 | | FVGR06NV1 | |
| | | | Outdoor unit | | RUR05NY1 | | RUR06NY1 | |
| Power supply | | | | | 380-415 V, 50 Hz, 3 Phase, 4 Wires | | | |
| Cooling capacity 1,3 | | | kW | | 14.7 | | 17.6 | |
| | | | Btu/h | | 50000 | | 60000 | |
| | | | kcal/h | | 12600 | | 15100 | |
| Power consumption 1 | | | kW | | 5.5 | | 6.4 | |
| Running current | | | A | | 9 | | 10.4 | |
| Starting current | | | A | | 72.7 | | 80.9 | |
| Power factor | | | % | | 88.2 | | 88.8 | |
| INDOOR UNIT | Colour | | | | Ivory White | | | |
| | Air flow rate (H) | | m3/min | | 42 | | 42 | |
| | | | cfm | | 1480 | | 1480 | |
| | Fan | | Drive | | Direct Drive 3 Speed | | | |
| | Sound level (H/M/L) 2 | | dBA | | 59/54/50 | | 59/54/50 | |
| | Dimensions (HxWxD) | | mm | | 1,870x750x510 | | 1,870x750x510 | |
| | Machine weight | | kg | | 90 | | 90 | |
| | Operation range | | °CWB | | 14 to 25 | | | |
| OUTDOOR UNIT | Colour | | | | Ivory White | | | |
| | Compressor | | Type | | Hermetically sealed scroll type | | | |
| | | | Motor output | | kW | | 4.5 | |
| | Refrigerant oil | | Model | | Refer to the name plate of compressor | | | |
| | | | Charge | | L | | 1.4 | |
| | Refrigerant charge (R-410A) | | kg | | 2.5 (Charged for 7.5 m) | | 3.5 (Charged for 7.5 m) | |
| | Sound level 2 | | 380V | | dBA | | 59 | |
| | | | 415V | | dBA | | 60 | |
| | Dimensions (HxWxD) | | mm | | 1,345x900x320 | | | |
| REFRIGERANT PIPING | Machine weight | | kg | | 92 | | 105 | |
| | Operation range | | °CDB | | 21 to 46 | | | |
| | Indoor Unit | | Liquid | | mm | | Ø9.5 (Brazing) | |
| | | | Gas | | mm | | Ø19.1 (Brazing) | |
| | | | Drain | | mm | | PS 1B Internal thread | |
| | Outdoor Unit | | Liquid | | mm | | Ø9.5 (Flare) | |
| | | | Gas | | mm | | Ø19.1 (Flare) | |
| Drain | | | mm | | 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

| | | | 8.3 TR | | 10 TR | 13.3 TR | 15.0 TR | 16.7 TR | |
|------------------------------------|-----------------------------|--|----------------------|------------------------------------|---------------------------------------|----------------------------|----------------------------|----------------------------|-----------------|
| Model | | | 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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