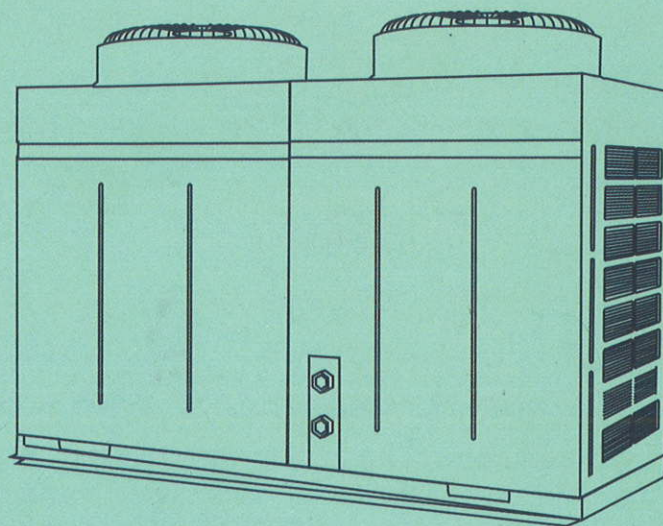




GIVE YOUR BUSINESS A HIGHER EDGE.

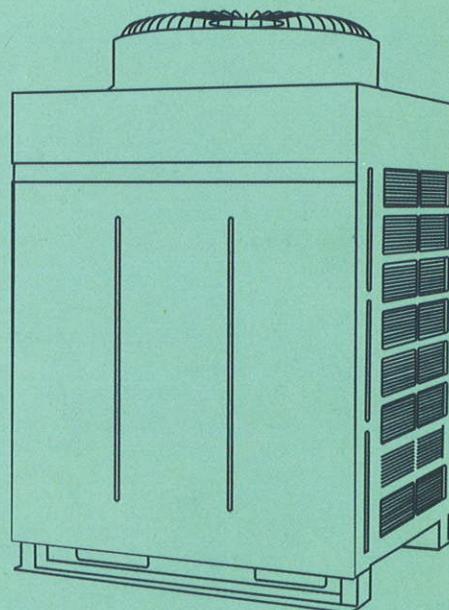
Daikin Chillers offer high energy efficiency.



Air Cooled Scroll Chiller
Heat Pump



Water Cooled Scroll Chiller
Heat Pump
Heat Recovery Chiller



Water Heater

Modular scroll product portfolio

ABOUT DAIKIN

Daikin is a leading innovator and provider of advanced, high quality airconditioning solutions for residential, commercial and industrial applications.

As World's No.1 Airconditioning Company, Daikin is committed to delivering airconditioning solutions that enhance the quality of life all around the world. A diverse multinational company, Daikin Industries Ltd. Active in airconditioning, chemicals and oil hydraulics, was established in 1924. With headquarters at Osaka, Japan, the Daikin family has more than 51,000 members, working across 60 production base units and 208 consolidated subsidiaries worldwide. As the world's sole manufacturer that develops a long line of products from refrigerants to air conditioners, Daikin advocates comfortable living on the strength of advanced technologies.

Daikin is present in USA, Europe and Russia, Middle East, Africa, Asia , Oceania and Middle - South America. We aim to serve our customers in each of these markets by providing optimal airconditioning products.



Daikin introduces in India a new range of modular scroll chillers for cooling and heating applications. These chillers ideally combine the advanced and mature chiller technology. In addition, these chillers features outstanding performance, high capacity, low sound level, easy installation, and flexible system management, helping Daikin take the lead in the global market.

AIR COOLED SCROLL CHILLERS & HEAT PUMPS: UAL



Refrigerant
R 410A

Environment Friendly

The R410A causes no harm to the ozonosphere (ODP=0)
Protects global ecosystem.

Low Sound Levels

Newly designed spiral blades makes the air flow in outdoor units smooth, significantly reducing the turbulence and lowering the air flow sound level.

Unique Night Mode brings down night noise greatly and ensures you a sound sleep.

Flexible Module Combination

1~16 modules of different capacity can be combined as a set to meet load requirements of various applications.

The modular design of the unit allows the owner to invest in phased manner. The owner can increase the investment at any time with the development.

Compact Size

Compact size modules can be lifted without large lifting tools and can be conveniently installed on the roof, balcony or any possible outdoor space.

Reliable Operation

All units have undergone strict and long-term test, ensuring reliable operation. Modular design enables one by one start, reducing impact upon the grid when starting.

High Static Pressure Fan (50Pa optional, only for UAL450 model)

The optional high static pressure fan makes it possible for outdoor unit to be connected to exhaust duct. This feature avoids short circuit of airflow, and ensures stable operation of the unit.



Basic Operating Modes
Cooling
Heating (Optional)

Model - UAL	210D5	210DR5	230D5	230DR5	230ER5	340DR5	450DR5
Type	Cooling Only	Heat Pump	Cooling Only	Heat Pump	INVERTER* Heat Pump	Heat Pump	Heat Pump
Nominal Cooling Capacity (TR)	17	17	18.5	19.1	18.8	28.3	36.8
COP (Cooling) Including Condenser Fan Power	3.19	3.01	3.39	3.38	3.38	3.38	3.33
Nominal Heating Capacity (kW)	–	64	–	66	64	100	130
Rated Running Current Cooling (A)	35.5	37.2	36.9	36.8	38	54.4	73.6
Rated Running Current Heating (A)	–	38.2	–	36.7	39.2	55.8	73.6
Power Supply V/Ph/Hz	380 – 415 V / 3N~/ 50 Hz						
Refrigerant	R410A						
Water Flow Cooling (cmh)	10.3	10.3	11.2	11.7	11.4	17.2	22.4
Water Pressure Drop (kPa)	38	38	44	46	46	42	56
Unit Dimension (L x W x H) mm	1990 x 840 x 1840					2100 x 1100 x 2300	
Net Weight	520	540	520	515	565	870	990
Operating Weight kg	530	555	530	525	575	880	1000

Notes:

1. The specifications given in the table will be subject to the modifications on product design by the manufacturer.
2. Nominal cooling capacity condition: lwt 7°C, water flow 0.172 [m³/(h•kw)], outdoor temperature 35°C.
3. Nominal heating capacity condition: lwt 45°C, water flow 0.172 [m³/(h•kw)], outdoor dry-bulb temperature 7°C, wet-bulb temperature 6°C.
4. * IPLV for 230ER5 = 4.36, Conditions for IPLV: leaving water temp. 7°C; 100% loading: Outdoor ambient temp. 35°C, 75% loading: Outdoor ambient temp. 31.5°C, 50% loading: Outdoor ambient temp. 28°C, 25% loading: Outdoor ambient temp. 24.5°C

AIR SOURCE WATER HEATER - New Generation Hot Water Supply Method

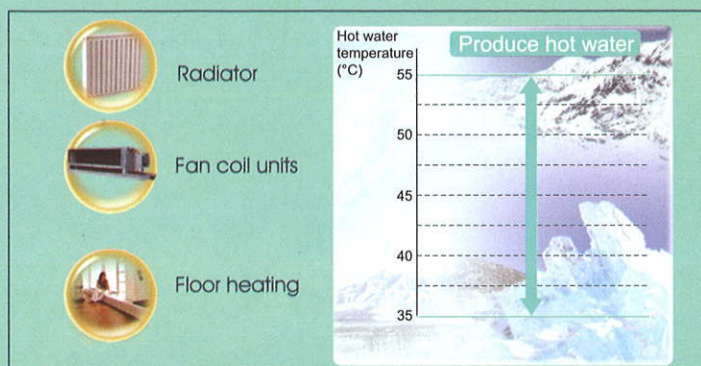
MHA air source water heater establishes the new benchmark in hot water market.

- Environmental friendly R410 refrigerant
- Wide range
- High efficiency design COP up to 4.59
- Intelligent control
- Modular design (1–16 units) for
phased investment
- 30/40/80 kW option at 20 Deg C DBT
ambient & 55 Deg C Hot Water Out Temperature
- Unique "Spray Liquid" Compressor Design
- Weekly Schedule Management



Expand application of hot water units

MHA series ultra-low temperature heat pump hot water units, break the traditional bound of domestic hot water, it can also be used for fan coil units, radiator, floor heating and other hot water demands, according to different customer requirements.



Key Benefits:

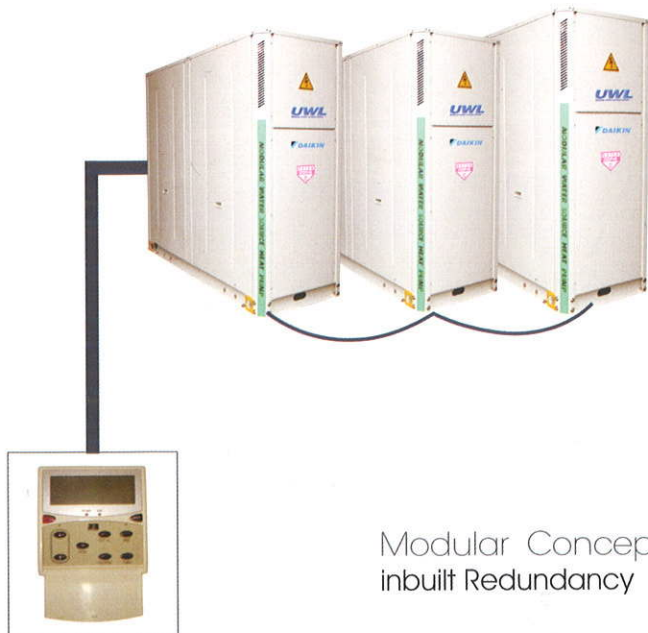
Safety	Separation of water and electricity, no electric shock danger, no harmful gas emissions, safe to use.
Comfortable	Central hot water system for buildings, bungalow, villas. Multiple water ports available for multiple users. Big water flow scouring force, for more comfortable bath.
Energy Saving	Operation cost is 1/5 of the electric water heater.
Environmental Protection	Low noise, no waste heat, waste water or waste gas emissions, reduces heat island effect.
Flexibility	Small investment; can be used with existing thermal storage tanks, gas and oil-fired boilers in combination.
Whole Year Operation	Running throughout the year; unaffected by changes of weather.

Model - MHA	075B5	100B5	200B5
Nominal Heating Capacity (kW)	30	40	80
Nominal Hot Water Production Rate (LPH)	645	860	1720
Nominal Power Input (kW)	6.83	8.71	18.22
Water flow Cooling (cmh)	5.16	6.88	13.76
Water Pressure Drop (kPa)	35	58	72
Power Supply V/Ph/Hz	380 - 415 V / 3N~/ 50 Hz		
Operating Range	Environment Temperature -20 to 43 Deg C / Water Tank Water Temperature 25 to 55 Deg C		
Compressor/ Throttle type/ Refrigerant	Hermetic Scroll/ Electronic Expansion Valve/ R410A		
Unit Dimension (L x W X H) mm	990 x 880 x 1515		1990 x 880 x 1780
Net Weight	220	250	500
Operating Weight kg	225	255	510

Note:

- The nominal heating capacity above is measured at, standard conditions of outdoor environment DB/WB temperature 20°C/15°C, initial water tank temperature 15°C, and final water temperature 55°C.

WATER COOLED SCROLL CHILLER:



OPERATING MODES

cooling mode

heating mode

heat recovery mode

Modular Concept - (Up to 16 modules in a set) for Design flexibility and inbuilt Redundancy

High COP - for Energy Efficient operation

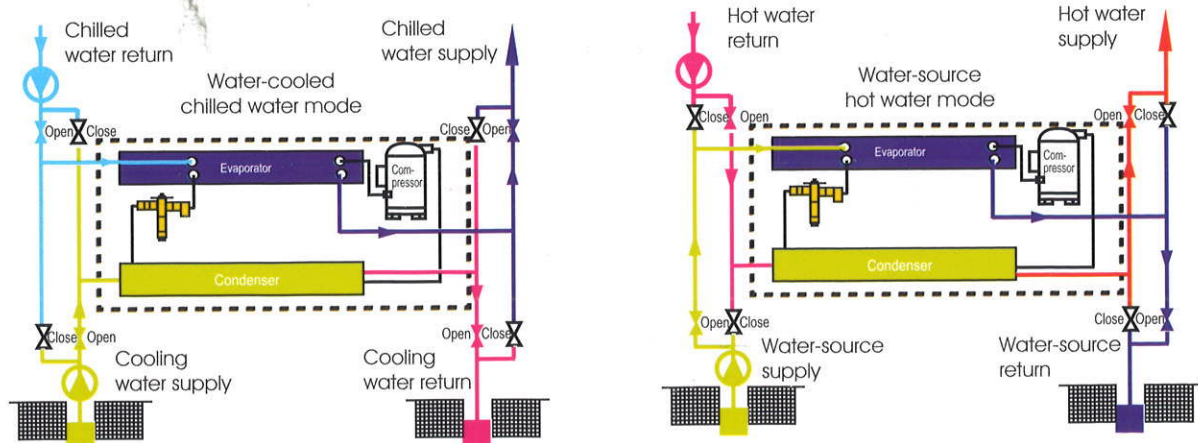
Environment Friendly - R 410A refrigerant (ODP = 0)

Shell and Tube Heat Exchangers - Maintenance Friendly Design

IP 54 Enclosure - Weather Proof Design

DUAL MODE SWITCHOVER

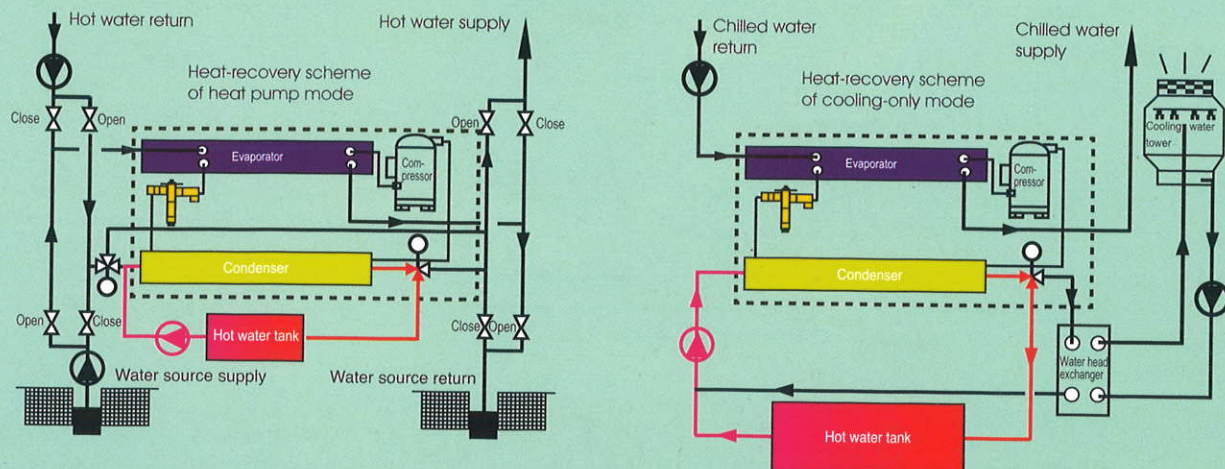
The switchover between water-cooled chilled water and water-source hot water modes can be achieved easily by the opening and closing of valves in the water system to meet the annual demand for cooling or heating. The operation is more efficient and more eco-friendly.



Note: The dashed box indicates the unit.

HEAT RECOVERY APPLICATION

Units can be applied in heat-recovery occasions. By monitoring heat-recovery recycling water (condenser recycling water) temperature, signal output is provided to control the switch of cooling water and heat-recovery recycling water, and realize heat-recovery application.



Note: The dashed box indicates the unit. All the accessories out of the dashed box is not provided by factory



Model - UWL	030B5	040B5
Nominal Cooling Capacity (kW)	102.9	131.5
Cooling Power Consumption (kW)	25.1	31.6
Nominal Heating Capacity (kW)	130.1	170
Heating Power Consumption (kW)	29	38
Unit Dimension (L x W X H) mm	1800 x 650 x 1600	
Evaporator Type	Shell and Tube	
Condenser Type	Shell and Tube	

Notes:

- Nominal cooling capacity is tested under the following condition: LWT of evaporator: 7°C, water flow factor: 0.172[m³/(h·kW)]; EWT of condenser: 30°C, water flow factor: 0.215[m³/(h·kW)].
- Nominal heating capacity is tested under the following condition: LWT of evaporator: 45°C water flow factor: 0.172[m³/(h·kW)]; EWT of condenser: 15°C, water flow factor: 0.134[m³/(h·kW)].
- The switch of cooling/heating mode is realized by the valve of the hydraulic system. Factory doesn't offer it. It needs to be installed at site.
- WPD of evaporator and condenser don't include the external piping and components pressure drop.
- The parameters will change by design improvement without prior notice.



Hospital



Multi-storey Residential



Factory



High-rise Apartment



Dormitory



Villas

TEN REASONS TO BUY DAIKIN



Airconditioning
Specialist

Daikin focuses on airconditioning solutions and control systems. As specialists, it's all we do. No wonder, Daikin is recognised as an expert in airconditioning.



Unmatched After
Sales Support

Daikin takes pride in providing its customers with efficient after sales support, including readily available spare parts warehoused in India.



Pioneer in
Air Conditioners

Daikin has been providing airconditioning solutions for over 12 years in India. As one of the industry's more trusted names, Daikin is committed to the airconditioning market and has a manufacturing facility located in Rajasthan.



Reliability

That's probably top of your list when buying an airconditioning system for your home or business. Daikin gives you peace of mind and reassurance with their quality and reliability of products.



The Daikin Edge
with In-house
Manufacturing

Daikin is the only company in the world dedicated to manufacturing both airconditioning systems and refrigerants. Each element has been designed to work flawlessly with the next - delivering optimal performance - from the time a project begins till the moment of absolute comfort.



Wise
Investment-
Low Running
Cost

When you buy a Daikin airconditioning system you need to look beyond the initial purchase price. It pays to consider ongoing running costs in conjunction with the potential life of the product. Daikin systems offer superior build quality and energy efficiency.



High Energy
Efficiency

Daikin's continuous drive for improved efficiency has seen its advance technology being applied to provide a more comfortable environment and also being energy sensitive at the same time.



Experienced
Dealers

Daikin distributes its products through experienced dealers. This ensures that you receive a top quality product with expert support. Together this means the best airconditioning solution for your individual needs.



Comprehensive
Range and
quiet operation

Daikin has a comprehensive range of products in both domestic and commercial segments. Designed to provide effective and quiet airconditioning, Daikin can customise a solution to meet every requirement.



Environment
Friendly

Daikin continues to work towards a sustainable future and has received Environmental Management System certification to ISO14001. Daikin India is dedicated to preserving and protecting the environment through the production of energy efficient products.

DAIKIN AIRCONDITIONING INDIA PVT. LTD.

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As a continuing policy of product innovation at Daikin, the design and specifications are subject to change without prior notice. The visuals of the products in the catalogue are representative only, actual products might differ from the ones shown. Sales revenue includes revenue through sales of all Daikin Airconditioning Systems.



World's no.1 position based on internal assessment of total company sales revenue for 2012/13.

*Product mentioned in this catalogue comply with RoHS regulations as per E-waste (Management & Handling) Rules, 2011 and should not be mixed with general household waste at the end of their useful life. For more details kindly visit our website www.daikinindia.com or contact our customer care centre at 1800 102 9300 / 1800 22 9300.