

Technology provides accurately costs and energy consumption.



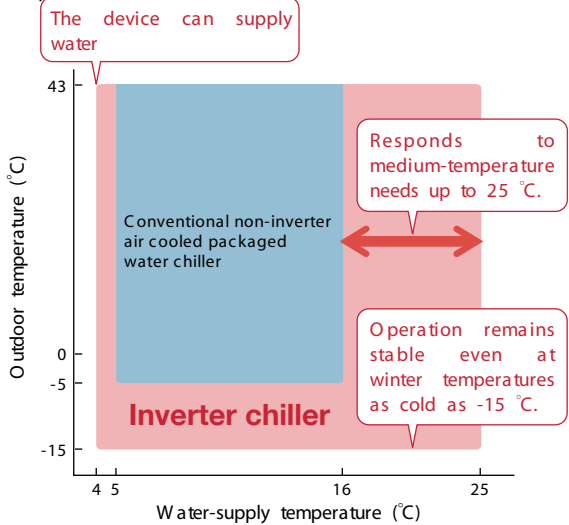
A single device serves a wide range of water temperature needs, from 4 to 25 °C.

Pinpoint water-supply temperature control to within $\pm 0.5^{\circ}\text{C}$ (under rated conditions)

Thanks to a new control system with outstanding following performance, the Daikin inverter chiller achieves pinpoint water-supply temperature control to within $\pm 0.5^{\circ}\text{C}$, enabling high-quality controlled-temperature water supply sufficient for a range of industrial applications.

The Daikin inverter chiller meets your requirements for medium-temperature water as well as year-long cooling.

The Daikin inverter chiller can deliver a wide range of temperatures from 4 to 25 °C, at outdoor temperatures ranging from -15 to 43 °C. The device can supply water at a stable 4 °C, serving an array of water temperature needs, including year-long cooling and medium-temperature water supply.



Specifications

Model		UWAXP125AY1 (5 HP)	UWAXP190AY1 (8 HP)	UWAXP250AY1 (10 HP)	UWAXP375AY1 (15 HP)	UWAXP500AY1 (20 HP)	UWAXP630AY1 (25 HP)	UWAXP750AY1 (30 HP)	
*1 Cooling capacity	kW	12.5	19.0	25.0	37.5	50.0	63.0	75.0	
	Btu/h	42,700	64,900	85,400	128,000	171,000	215,000	256,000	
	USRT	3.55	5.40	7.11	10.7	14.2	17.9	21.3	
Power supply		3 phase, 50 Hz 380 — 415 V, 4wires system							
*1 Chilled water flow rate	ℓ /min	36	54	72	108	143	181	215	
Capacity steps	Cooling	100 ~ 35	100 ~ 20						
Compressor	Type	Hermetically sealed scroll type							
	Motor output	kW	3.5 × 1	(3.5+2.2) × 1	(3.5+3.75) × 1	(5.5+5.5) × 1	(5.5+7.5) × 1	(3.5+3.75)+(5.5+5.5)	(3.5+3.75)+(5.5+7.5)
Evaporator	type	Brazed plate heat exchangers							
Condenser	type	Cross fin coil							
Condenser	Type	Propeller							
Fan	Drive	Direct drive (Inverter system)							
	Air flow rate	m ³ /min	80	150	170	265	340	170+265	170+340
		cfm	3,180	4,940	6,180	9,350	12,400	6,180+9,350	6,180+12,400
	Motor output	kW	0.20 × 1	(0.20+0.14) × 1	(0.20+0.18) × 1	0.20 × 3	(0.14+0.20) × 2	(0.20+0.18)+ (0.14 × 2)	0.20 × 3
Refrigerant	R407C								
Pipe connections inlet/outlet	1B Flange (JIS10K)(25A)		1 1/2B Flange (JIS10K)(25A)		2B Flange (JIS10K)(50A)		2 1/2B Flange (JIS10K)(25A)		
Dimensions (H×W×D)	mm	1,450 × 885 × 690	1,450 × 1,280 × 690	1,500 × 1,925 × 905		1,500 × 2,570 × 905	1,500 × 3,230 × 985	1,500 × 3,870 × 1,075	
Weight	kg	150	250	260	440	510	715	790	
Operating weight	kg	152	252	263	446	517	730	820	
Operation range	°C	-15 to 43							

Notes: *1 Cooling capacity is based on the following conditions: Entering water temp.12 °C (53.6 °F), leaving chilled water temp.7 °C (44.5 °F), and outdoor temp.35 °C DB (95 °F DB). *2 The following safety devices are equipped as standard. • High pressure switch • Reverse-phase protector. • Fusible plug. • Freeze up thermostat. • Overcurrent relay for compressor and fan motor. • Overheat protection for discharge gas. • fan thermal protector.



- Warning
- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorized parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warning. Be sure to follow these instructions and warnings.

For any inquiries, contact your local distributor.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided and choose an outdoor unit with anti-corrosion treatment.

Daikin Water Chillers are of the self-contained type. This means that they are assembled, internally wired and charged with refrigerant at the factory for easy installation, only requiring external wiring and plumbing on site. They are compatible with Daikin's Air Handling and/or Fan Coil Units.



The air conditioners manufactured by Daikin Industries have received **ISO 9000 series** certification for quality assurance.

Certificate Number.
(ISO9001) **JMI-0107**
JQA-0495

(ISO9002) **JQA-1452**



The airconditioning factories of Daikin Industries have received environmental management system standard **ISO 14001** certification.

Head Office / Tokyo Office
Certificate Number. EC02J0355
Shiga Plant
Certificate Number. EC99J2044
Sakai Plant
Certificate Number. JQA-E80009
Yodogawa Plant
Certificate Number. EC99J2057

Dealer

DAIKIN INDUSTRIES, LTD.

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AIR COOLED INVERTER CHILLERS

[50Hz]

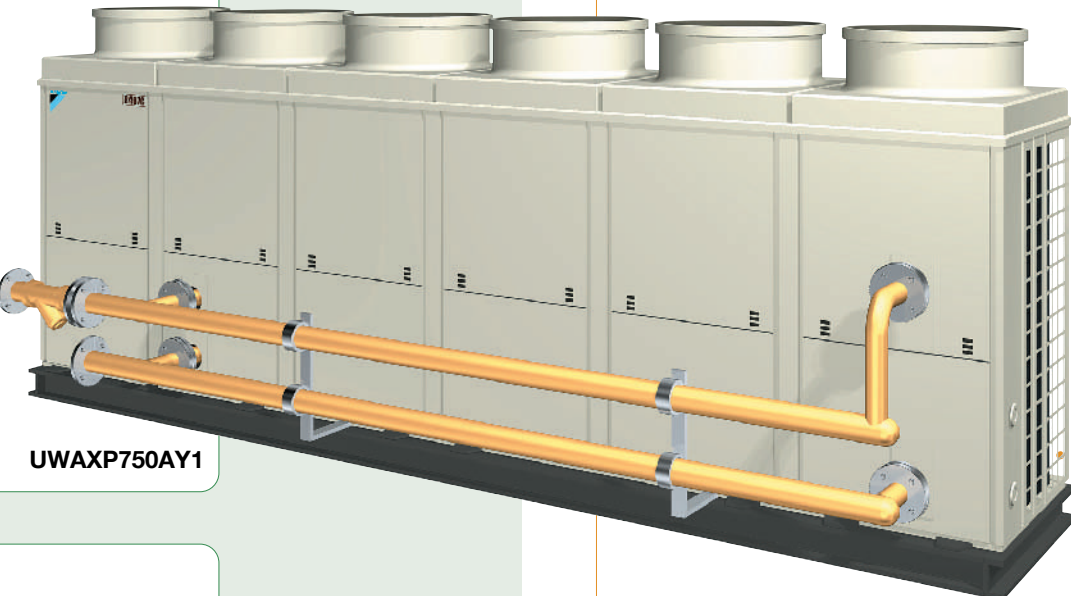
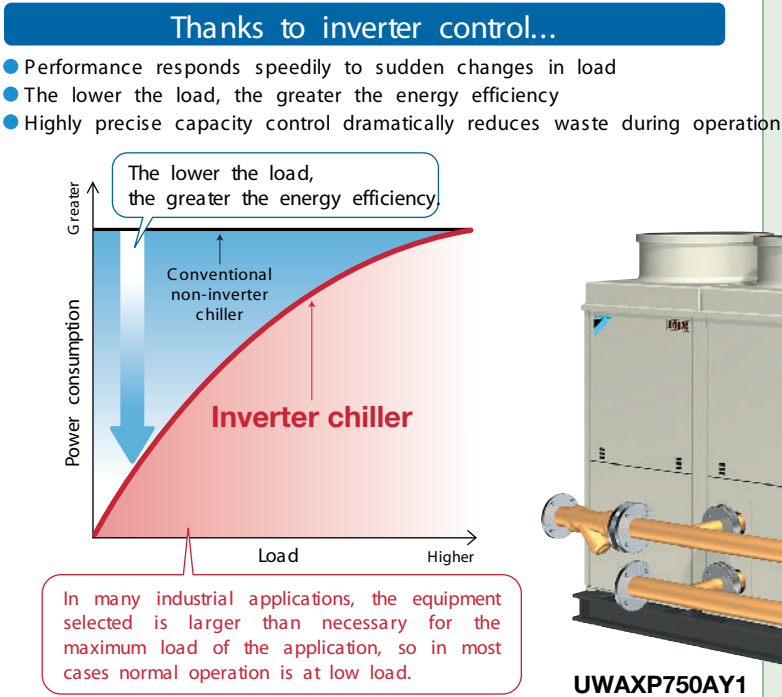
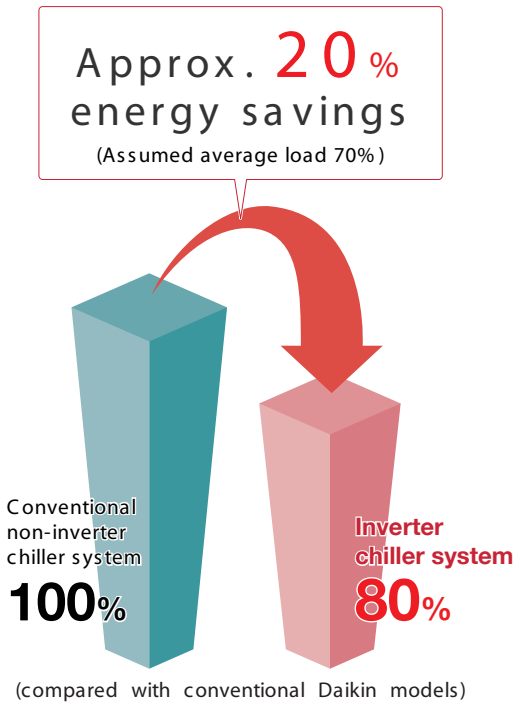


Daikin's exclusive inverter control technology provides accurately chilled water while reducing equipment costs and energy consumption.



Heat-source system achieves incredible energy savings.

Inverter control and Daikin's exclusive water-supply control system deliver pinpoint capacity control, sharply reducing waste during operation. With no pumps or other peripheral equipment required, these inverter chillers slash energy consumption by approximately 20% compared with conventional Daikin models. (Assumed average load 70%)



A remote controller* is optional, further expanding the inverter chiller's remarkable feature set while reducing on-site instrumentation costs.

(*Optional interface adaptor required.)



Operation and setting

- On/Off control
- Rotation control
- Water temperature setting
- Low noise operation during nighttime
- Switching of operating mode
- Forced fan operation
- Inspection/Test operation
- Demand control

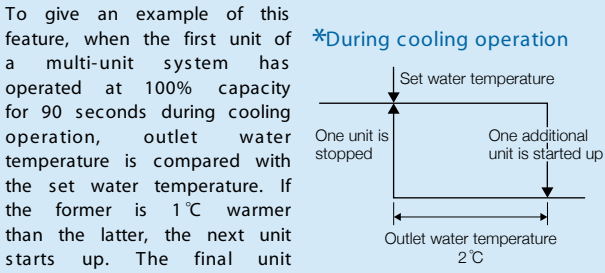
Main indications

- Outdoor temperature
- Water temperature setting
- High and low pressure
- Malfunction code
- Discharge gas temperature
- Inlet/Outlet water temperature
- Centralized control

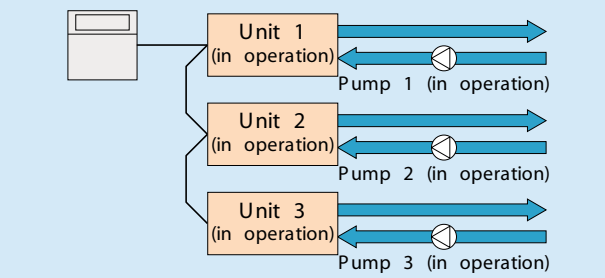
Equipped with rotation control for automatic, highly efficient control of multi-unit operation

- Group control enables a single remote controller to manipulate up to eight units. (Group control of up to four units for the UWAXP630/750AY1)
- Rotation control improves system durability by eliminating imbalance in starting and stopping multiple. Rotation control records the number of times each unit was started and stopped and starts units in order from least-used to most, extending the working life of the system as a whole. Rotation control provides control according to the starting and stopping of each unit. It is therefore not suited to load equalization in continuously operating systems.
- The number of units in operation is controlled automatically according to load, based on outlet temperature and set temperature.

"Rotation control" controls capacity

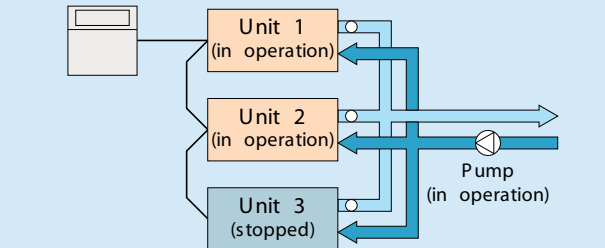


Coordinated operation of units and pumps



Temperature is controlled by comparing the average outlet water temperature of each unit in operation with the set water temperature. (In stopped units, pump operation is coordinated so that the pumps are stopped as well.)

Individual operation of units



The average outlet water temperature of all units, whether in operation or stopped, is compared with the set water temperature to control temperature. (The pump operates if even one of the units is in operation.)

Extensive options enhance control capability and facilitate installation.

Connectable to an Integral Control System for Central Air Conditioning*.

(*Optional interface adaptor required.)

A wide range of centrally controlled devices may be freely combined to suit all types of application and scale. The system simplifies the control process by providing total operational control of the inverter chiller and the secondary air-conditioning equipment.

* For the UWAXP125-500AY1, up to eight units can be connected as one group.
* For the UWAXP630/750AY1, up to four units can be connected as one group.

Connectable to the Daikin air conditioning control system —DIII-NET*.

(*Optional interface adaptor required.)

The inverter chiller can be connected to the Daikin Building Air-conditioning Control System (D-BACS), affording simple yet advanced operational control of a diverse array of control equipment, as well as to the AIRNET SERVICE SYSTEM*, which provides 24-hour-a-day online monitoring to prevent failures and enable rapid response to emergencies.

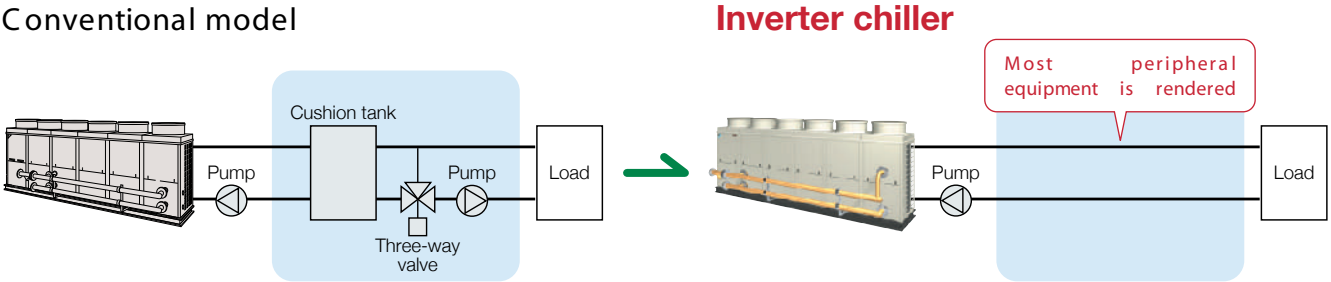
* Availability is limited to certain areas and release dates. Please consult Daikin separately for details.



Simplifying the peripheral requirements realizes a 20%* reduction in equipment costs.

(*compared with conventional Daikin models)

The inverter chiller regulates capacity with very high precision, eliminating the need for cushion tanks (or significantly reduces the tanks' size) and dramatically cutting the cost of equipment such as three-way valves and pumps. This breakthrough simplifies on-site installation and saves valuable space.



Microcomputer control feature delivers advanced yet convenient operation control.

Incorporates a microcomputer control function for convenient control of a wide range of operational data

Assesses diverse operational data through a connection to the central control panel.

- Outdoor temperature
- High and low pressure
- Water temperature setting
- Discharge gas temperature
- Inlet/Outlet water temperature
- Operating hours

A range of remote controls is possible through distance control (optional).

The Daikin inverter chiller responds to distance control from a range of devices, including the central control panel, the Daikin Building Air-conditioning Control System (D-BACS) and the multifunctional remote controller.

- On/Off control
- Water temperature setting
- Low noise operation during nighttime
- Forced fan operation*
(When the unit is stopped, only the fan's operation is controlled. This feature is useful for snow clearance.)
- Demand control (70%)

* This feature is for use in areas where snowfall is rare. In areas subject to heavy snowfall, please use the optional snow hood.