

General Catalogue

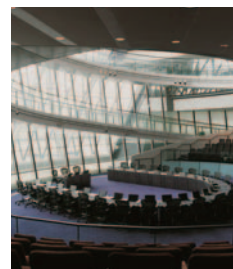
Applied Products [50Hz]

Air Cooled Chillers

Water Cooled Chillers











Fan Coil Units


Air Handling Units



LINEUP of Chillers







Air Cooled Chillers

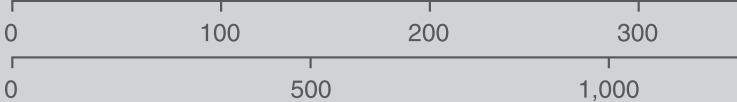
Type	Refrigerant	External Appearance	Model Name		Capacity Range in Cooling
Cooling Only	R-407C		UWAP-AY3		2~20 (USRT)
			UWAP-BY1		
			UWAXP-AY1	Inverter Type	3~21 (USRT)
			UWAP-BYM		
	R-22		UWA-AY1		
			UWA-AYM		
R-407C		UWAP-BY1Z	Brine Chillers	19~230 (USRT)	
Heat pump	R-407C		UWYP-AY3		3~19 (USRT)
			UWYP-BY1		
	R-22		UWY-AY1		



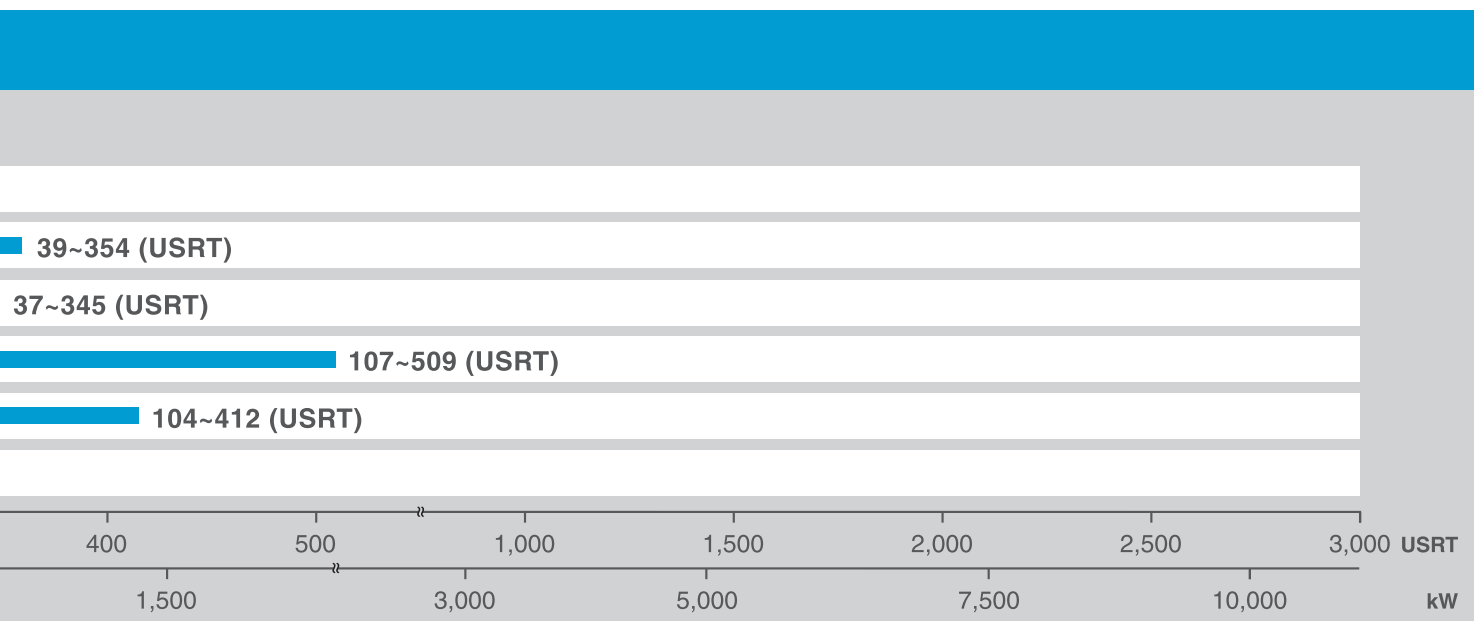
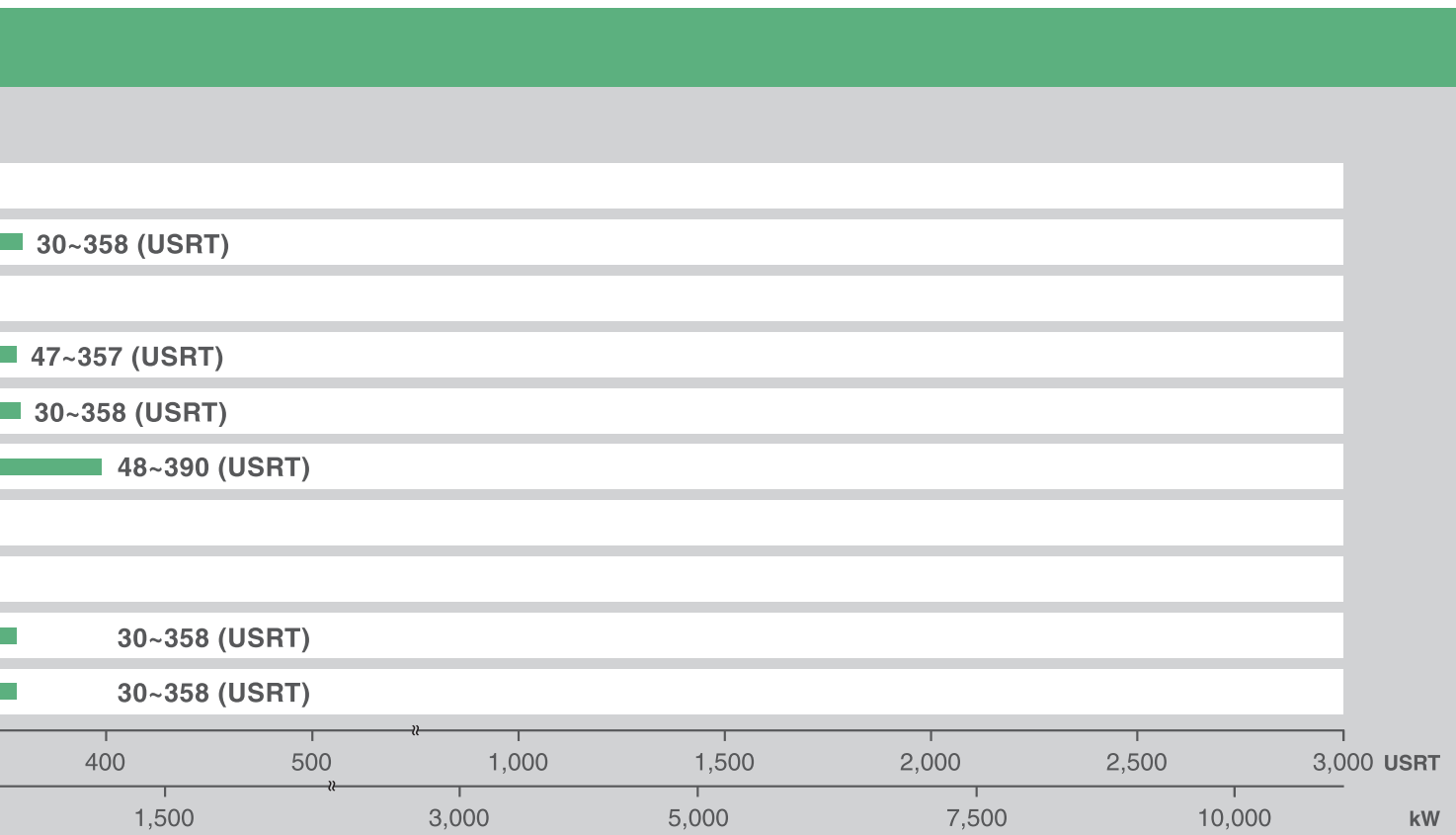
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Water Cooled Chillers

Type	Refrigerant	External Appearance	Model Name		Capacity Range
Cooling Only	R-407C		UWP-AY3		2~23 (USRT)
	R-22		CUW-D5Y, DY1		
	R-134a		CUWD-A5Y, AY1		
			ZUW-AM/BM		
			ZUW-AY1		
			ZUW-AY1Z	Brine Chillers	54~203 (USRT)



0 100 200 300
0 500 1,000



Air Cooled Chillers

UWAP75~750AY3 R-407C

Cooling Only



Compressor	Hermetically sealed scroll type
Evaporator	Brazed plate heat exchanger
Condenser	Cross fin coil
Operation Range	Outdoor air temp. -15~43°C Leaving chilled water temp. 5~16°C

Specifications

Model Name		UWAP75AY3	UWAP125AY3	UWAP190AY3	UWAP250AY3	UWAP375AY3	UWAP500AY3	UWAP630AY3	UWAP750AY3
Cooling Capacity *1	kW	6.7	11.2	17.0	22.4	33.5	45.0	56.0	67.0
	Btu/h	23,000	38,000	58,000	77,000	114,000	154,000	191,000	229,000
	USRT	1.91	3.19	4.83	6.37	9.53	12.8	15.9	19.1
Power Supply		3-phase 3-wire system, 380-415V/400-440V, 50/60Hz							
Dimensions (HxWxD) *4	mm	1,450x635 (839)x690		1,450x1,280x690		1,500x1,925x690	1,500x2,570x690	1,550x3,230x758	1,550x3,870x758
Weight	kg	136	140	248	260	400	515	680	800

Notes:

*1 Cooling capacity is based on the following conditions : Leaving chilled water temp. 7°C (44.5°F), entering chilled water temp. 12°C (53.6°F), and outdoor air temp. 35°C DB (95°F DB). 50Hz

*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.

*3 This product is manufactured in Japan.

*4 Dimension in parenthesis is including transformer.

UWAP40~480BY1 R-407C

Cooling Only



Compressor	Semi-hermetic sealed single screw type
Evaporator	Brazed plate heat exchanger
Condenser	Cross fin coil
Operation Range	Outdoor air temp. 0~43°C Leaving chilled water temp. 4~25°C

Specifications

Model Name		UWAP40BY1	UWAP50BY1	UWAP60BY1	UWAP80BY1	UWAP100BY1	UWAP120BY1
Cooling Capacity	kW	106	132	160	210	265	320
	Btu/h	362,000	450,000	546,000	717,000	904,000	1,092,000
	USRT	30	38	46	60	75	91
Power Supply		3-phase 3-wire system, 380-415V, 50Hz					
Dimensions (HxWxD)	mm	2,456x2,200x2,000			2,456x2,650x2,000	2,456x4,400x2,000	
Weight	kg	1,690	1,810	1,870	2,375	3,500	3,605

Model Name		UWAP140BY1	UWAP160BY1	UWAP180BY1	UWAP200BY1	UWAP220BY1	UWAP240BY1
Cooling Capacity	kW	370	420	480	530	580	630
	Btu/h	1,263,000	1,433,000	1,638,000	1,809,000	1,979,000	2,150,000
	USRT	105	119	137	151	165	179
Power Supply		3-phase 3-wire system, 380-415V, 50Hz					
Dimensions (HxWxD)	mm	2,456x4,850x2,000	2,456x5,300x2,000	2,456x6,600x2,000	2,456x7,050x2,000	2,456x7,500x2,000	2,456x7,950x2,000
Weight	kg	4,125	4,590	5,500	6,000	6,500	7,005

Model Name		UWAP280BY1	UWAP320BY1	UWAP360BY1	UWAP400BY1	UWAP440BY1	UWAP480BY1
Cooling Capacity	kW	740	840	960	1,060	1,160	1,260
	Btu/h	2,525,000	2,867,000	3,276,000	3,617,000	3,959,000	4,300,000
	USRT	210	239	273	301	330	358
Power Supply		3-phase 3-wire system, 380-415V, 50Hz					
Dimensions (HxWxD)	mm	(2,456x4,850x2,000)x2	(2,456x5,300x2,000)x2	(2,456x6,600x2,000)x2	(2,456x7,050x2,000)x2	(2,456x7,500x2,000)x2	(2,456x7,950x2,000)x2
Weight	kg	4,125x2	4,590x2	5,500x2	6,000x2	6,500x2	7,005x2

Notes:

*1 Cooling capacity is based on the following conditions : Leaving chilled water temp. 7°C (44.5°F), entering chilled water temp. 12°C (53.6°F), and outdoor air temp. 35°C DB (95°F DB).

*2 The following safety devices are equipped as standard. • High pressure protector. • Low pressure protector. • Compressor thermal protector. • Fusible plug. • Reverse-phase protector. • Overheat protection of discharge gas. • Overcurrent relay (compressor). • Freeze-up protection thermostat. • Overcurrent relay (fan). • Safety valve.

*3 The unit is equipped with standard water filter.

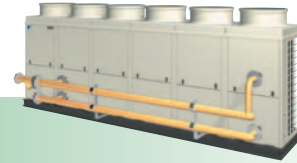
*4 This product is manufactured in China.

Air Cooled Chillers

Inverter Cooling Units

UWAXP125~750AY1 R-407C

Cooling Only



Compressor	Hermetically sealed scroll type (Inverter controlled)
Evaporator	Brazed plate heat exchanger
Condenser	Cross fin coil
Operation Range	Outdoor air temp. -15~43°C Leaving chilled water temp. 4~25°C

Specifications

Model Name		UWAXP125AY1	UWAXP190AY1	UWAXP250AY1	UWAXP375AY1	UWAXP500AY1	UWAXP630AY1	UWAXP750AY1
Cooling Capacity *1	kW	12.5	19.0	25.0	37.5	50.0	63.0	75.0
	Btu/h	43,000	65,000	85,000	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 4-wire system, 380-415V, 50Hz						
Dimensions (HxWxD)	mm	1,450x835x690	1,450x1,280x690		1,500x1,925x690	1,500x2,570x690	1,550x3,230x758	1,550x3,870x758
Weight	kg	150	250	260	440	510	715	790

Notes:

- *1 Cooling capacity is based on the following conditions : Entering chilled water temp. 12°C (53.6°F), leaving chilled water temp. 7°C (44.5°F), and outdoor temp. 35°CDB (95°FDB).
- *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.
- *3 This product is manufactured in Japan.
- *4 Concentrated water pipe kits are necessary optional accessories of the unit. (field-installed)
Concentrated water pipe kits are not included in the chilling unit as standard parts.

UWAP60~480BYM R-407C

Cooling Only



Compressor	Semi-hermetic sealed single screw type
Evaporator	Shell and tube
Condenser	Cross fin coil
Operation Range	Outdoor air temp. 5~43°C Leaving chilled water temp. 4~15°C

Specifications

Model Name		UWAP60BYM	UWAP80BYM	UWAP90BYM	UWAP100BYM	UWAP130BYM	UWAP150BYM
Cooling Capacity *1	kW	164	198	232	270	347	407
	Btu/h	560,000	675,000	791,000	923,000	1,186,000	1,390,000
	USRT	47	56	66	77	99	116
Power Supply		3-phase 3-wire system, 380-415V, 50Hz					
Dimensions (HxWxD)	mm	2,285x2,260x2,975		2,285x2,260x3,200		2,360x2,260x4,100	
Weight	kg	2,350	2,360	2,870	2,880	4,050	4,290

Model Name		UWAP170BYM	UWAP190BYM	UWAP230BYM	UWAP240BYM	UWAP260BYM	UWAP290BYM
Cooling Capacity *1	kW	439	507	603	631	695	755
	Btu/h	1,499,000	1,730,000	2,059,000	2,155,000	2,372,000	2,576,000
	USRT	125	144	172	179	198	215
Power Supply		3-phase 3-wire system, 380-415V, 50Hz					
Dimensions (HxWxD)	mm	2,360x2,260x4,100	2,360x2,260x5,000		2,360x2,260x5,900	2,360x2,260x7,300	2,360x2,260x8,200
Weight	kg	4,290	4,795		5,370	7,085	7,665

Model Name		UWAP310BYM	UWAP350BYM	UWAP360BYM	UWAP390BYM	UWAP420BYM	UWAP480BYM
Cooling Capacity *1	kW	811	917	965	1,033	1,122	1,255
	Btu/h	2,767,000	3,130,000	3,295,000	3,525,000	3,832,000	4,283,000
	USRT	231	261	274	294	319	357
Power Supply		3-phase 3-wire system, 380-415V, 50Hz					
Dimensions (HxWxD)	mm	2,360x2,260x8,200		2,360x2,260x9,100		2,360x2,260x10,000	
Weight	kg	8,160	8,200	8,620	8,660	9,405	9,460

Notes:

- *1 Cooling capacity is based on the following conditions:
Entering chilled water temp. 12°C, Leaving chilled water temp. 7°C, outdoor air temp. 35°CDB
- *2 The following safety devices are equipped as standard.
• High pressure (pressure switch) • Low pressure (pressure sensor) • Compressor thermal • Condensation fan thermal • High discharge temperature on the compressor • Phase monitor
• Star/Delta transition failed • Low-pressure ratio • High oil pressure drop • Low oil pressure • Phase monitor • Freeze protection
- *3 This product is manufactured in China.

Air Cooled Chillers

UWA40~480AY1 R-22

Cooling Only

Compressor	Semi-hermetic sealed single screw type
Evaporator	Brazed plate heat exchanger
Condenser	Cross fin coil
Operation Range	Outdoor air temp. -5~43°C Leaving chilled water temp. 4~16°C



Specifications

Model Name		UWA40AY1	UWA50AY1	UWA60AY1	UWA80AY1	UWA100AY1	UWA120AY1	UWA140AY1	UWA160AY1	UWA180AY1
Cooling Capacity *1	kW	106	132	160	210	265	320	370	420	480
	Btu/h	362,000	450,000	546,000	717,000	904,000	1,092,000	1,263,000	1,433,000	1,638,000
	USRT	30	38	46	60	75	91	105	119	137
Power Supply		3-phase 3-wire system, 380-415V, 50Hz								
Dimensions (HxWxD)	mm	2,395x2,200x2,000				2,395x4,400x2,000				2,460x6,600x2,000
Weight	kg	1,500	1,650	1,750	1,820	3,300	3,500	3,620	3,640	5,605

Model Name		UWA200AY1	UWA220AY1	UWA240AY1	UWA280AY1	UWA320AY1	UWA360AY1	UWA400AY1	UWA440AY1	UWA480AY1
Cooling Capacity *1	kW	530	580	630	740	840	960	1,060	1,160	1,260
	Btu/h	1,809,000	1,979,000	2,150,000	2,525,000	2,867,000	3,276,000	3,617,000	3,959,000	4,300,000
	USRT	151	165	179	210	239	273	301	330	358
Power Supply		3-phase 3-wire system, 380-415V, 50Hz								
Dimensions (HxWxD)	mm	2,460x6,600x2,000			(2,395x4,400x2,000)x2		(2,460x6,600x2,000)x2			
Weight	kg	5,660	5,695	5,750	3,620x2	3,640x2	5,605x2	5,660x2	5,695x2	5,750x2

Notes:

*1 Cooling capacity is based on the following conditions: Leaving chilled water temp. 7°C (44.5°F), entering chilled water temp. 12°C (53.6°F), and outdoor air temp. 35°C DB (95°F FDB).

*2 The following safety devices are equipped as standard. • High pressure protector. • Low pressure protector. • Compressor thermal protector. • Fusible plug. • Reverse-phase protector.

• Overheat protection of discharge gas. • Overcurrent relay (compressor). • Freeze-up protection thermostat. • Overcurrent relay (fan). • Safety valve.

*3 Standard for the max. chilled water pressure is 0.7MPa, but 1.6MPa is available if required.

*4 This product is manufactured in China.

UWA60~520AYM R-22

Cooling Only

Compressor	Semi-hermetic sealed single screw type
Evaporator	Shell and tube
Condenser	Cross fin coil
Operation Range	Outdoor air temp. 5~43°C Leaving chilled water temp. 4~15°C



Specifications

Model Name		UWA60AYM	UWA80AYM	UWA90AYM	UWA110AYM	UWA140AYM	UWA160AYM	UWA170AYM	UWA200AYM	UWA240AYM	UWA250AYM
Cooling Capacity *1	kW	170	205	240	280	360	422	455	525	625	654
	Btu/h	580,000	700,000	819,000	956,000	1,229,000	1,441,000	1,553,000	1,792,000	2,134,000	2,233,000
	USRT	48	58	68	80	102	120	129	149	178	186
Power Supply		3-phase 3-wire system, 380-415V, 50Hz									
Dimensions (HxWxD)	mm	2,285x2,260x2,975		2,285x2,260x3,200		2,360x2,260x4,100		2,360x2,260x5,000		2,360x2,260x5,900	
Weight	kg	2,350	2,360	2,870	2,880	4,050	4,290	4,795	5,370		

Model Name		UWA270AYM	UWA300AYM	UWA320AYM	UWA360AYM	UWA380AYM	UWA400AYM	UWA440AYM	UWA500AYM	UWA520AYM
Cooling Capacity *1	kW	720	782	840	950	1,000	1,070	1,163	1,300	1,370
	Btu/h	2,458,000	2,670,000	2,868,000	3,243,000	3,414,000	3,653,000	3,971,000	4,438,000	4,677,000
	USRT	205	222	239	270	284	304	331	370	390
Power Supply		3-phase 3-wire system, 380-415V, 50Hz								
Dimensions (HxWxD)	mm	2,360x2,260x7,300	2,360x2,260x8,200			2,360x2,260x9,100		2,360x2,260x10,000		
Weight	kg	7,085	7,665	8,160	8,200	8,620	8,660	9,405	9,460	9,780

Notes:

*1 Cooling capacity is based on the following conditions:

Entering chilled water temp. 12°C, Leaving chilled water temp. 7°C, outdoor air temp. 35°C DB

*2 The following safety devices are equipped as standard.

• High pressure (pressure switch) • Low pressure (pressure sensor) • Compressor thermal • Condensation fan thermal • High discharge temperature on the compressor • Phase monitor • Star/Delta transition failed • Low-pressure ratio • High oil pressure drop • Low oil pressure • Phase monitor • Freeze protection

*3 This product is manufactured in China.

Air Cooled Chillers

Brine Chillers

UWAP40~480BY1Z **R-407C**

Cooling Only



Compressor	Semi-hermetic sealed single screw type
Evaporator	Brazed plate heat exchanger
Condenser	Cross fin coil
Operation Range	Outdoor air temp. 0~43°C Leaving chilled brine temp. -10~16°C

Specifications

Model Name		UWAP40BY1Z	UWAP50BY1Z	UWAP60BY1Z	UWAP80BY1Z	UWAP100BY1Z	UWAP120BY1Z	UWAP140BY1Z	UWAP160BY1Z	UWAP180BY1Z
Cooling Capacity	kW	68	83	101	135	166	205	236	269	303
	Btu/h	232,000	283,000	345,000	460,000	567,000	700,000	804,000	918,000	1,034,000
	USRT	19	24	29	38	47	58	67	77	86
Power Supply		3-phase 3-wire system, 380-415V, 50Hz								
Dimensions (HxWxD)	mm	2,456x2,200x2,000			2,456x2,650x2,000	2,456x4,400x2,000		2,456x4,850x2,000	2,456x5,300x2,000	2,456x6,600x2,000
Weight	kg	1,690	1,810	1,870	2,375	3,500	3,605	4,125	4,590	5,500

Model Name		UWAP200BY1Z	UWAP220BY1Z	UWAP240BY1Z	UWAP280BY1Z	UWAP320BY1Z	UWAP360BY1Z	UWAP400BY1Z	UWAP440BY1Z	UWAP480BY1Z
Cooling Capacity	kW	337	370	404	472	538	606	674	740	808
	Btu/h	1,149,000	1,263,000	1,379,000	1,611,000	1,836,000	2,068,000	2,300,000	2,525,000	2,757,000
	USRT	96	105	115	134	153	172	192	210	230
Power Supply		3-phase 3-wire system, 380-415V, 50Hz								
Dimensions (HxWxD)	mm	2,456x7,050x2,000	2,456x7,500x2,000	2,456x7,950x2,000	(2,456x4,850x2,000)x2	(2,456x5,300x2,000)x2	(2,456x6,600x2,000)x2	(2,456x7,050x2,000)x2	(2,456x7,500x2,000)x2	(2,456x7,950x2,000)x2
Weight	kg	6,000	6,500	7,005	4,125x2	4,590x2	5,500x2	6,000x2	6,500x2	7,005x2

Notes:

- *1 Cooling capacity is based on the following conditions : Leaving chilled brine temp. -5°C (23.0°F), entering chilled brine temp. -2°C (28.4°F), and outdoor air temp. 35°C DB (95°F DB).
- *2 The following safety devices are equipped as standard. • High pressure protector. • Low pressure protector. • Compressor thermal protector. • Fusible plug. • Reverse-phase protector. • Overheat protection of discharge gas. • Overcurrent relay (compressor). • Freeze-up protection thermostat. • Overcurrent relay (fan). • Safety valve.
- *3 The unit is equipped with standard water filter.
- *4 This product is manufactured in China.

UWYP125~750AY3 **R-407C**

Heat Pump



Compressor	Hermetically sealed scroll type
Evaporator	Brazed plate heat exchanger
Condenser	Cross fin coil
Operation Range	Cooling : Outdoor air temp. 0~43°C Leaving chilled water temp. 4~16°C Heating : Outdoor air temp. -15~21°C Leaving hot water temp. 35~55°C

Specifications

Model Name		UWYP125AY3	UWYP190AY3	UWYP250AY3	UWYP375AY3	UWYP500AY3	UWYP630AY3	UWYP750AY3
Cooling Capacity *1	kW	11.2	17.0	22.4	33.5	45.0	56.0	67.0
	Btu/h	38,000	58,000	77,000	114,000	154,000	191,000	229,000
	USRT	3.19	4.83	6.37	9.53	12.8	15.9	19.1
Heating Capacity *2	kW	13.2	20.0	25.0	37.5	50.0	63.0	75.0
	Btu/h	45,000	68,000	85,000	128,000	171,000	215,000	256,000
	USRT	3.75	5.69	7.11	10.7	14.2	17.9	21.3
Power Supply		3-phase 3-wire system, 380-415V/400-440V, 50/60Hz						
Dimensions (HxWxD) *5	mm	1,450x635 (839)x690	1,450x1,280x690		1,500x1,925x690	1,500x2,570x690	1,550x3,230x758	1,550x3,870x758
Weight	kg	150	258	260	420	525	700	820

Notes:

- *1 Cooling capacity is based on the following conditions : Leaving chilled water temp. 7°C (44.5°F), entering chilled water temp. 12°C (53.6°F), and outdoor air temp. 35°C DB (95°F DB). 50Hz
- *2 Heating capacity is based on the following conditions : Leaving hot water temp. 45°C (113°F), entering hot water temp. 40°C (104°F), and outdoor air temp. 7°C DB (44.5°F DB), and 6°C WB (43°F WB). 50Hz
- *3 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.
- *4 This product is manufactured in Japan.
- *5 Dimension in parenthesis is including transformer.

Air Cooled Chillers

UWYP40~480BY1 R-407C

Heat Pump

Compressor	Semi-hermetic sealed single screw type
Evaporator	Brazed plate heat exchanger
Condenser	Cross fin coil
Operation Range	Cooling : -5~43°C Heating : -20~21°C



Specifications

Model Name		UWYP40BY1	UWYP50BY1	UWYP60BY1	UWYP80BY1	UWYP100BY1	UWYP120BY1
Cooling Capacity *1	kW	106	132	160	210	265	315
	Btu/h	362,000	450,000	546,000	717,000	904,000	1,075,000
	USRT	30	38	46	60	75	90
Heating Capacity *2	kW	112	140	170	230	280	340
	Btu/h	382,000	478,000	580,000	785,000	956,000	1,160,000
	USRT	32	40	48	65	80	97
Power Supply		3-phase 3-wire system, 380-415V, 50Hz					
Dimensions (HxWxD)	mm	2,456x2,200x2,000			2,456x2,650x2,000		2,456x4,400x2,000
Weight	kg	1,800	1,930	1,990	2,640	3,740	3,995

Model Name		UWYP140BY1	UWYP160BY1	UWYP180BY1	UWYP200BY1	UWYP220BY1	UWYP240BY1
Cooling Capacity *1	kW	370	420	480	530	580	630
	Btu/h	1,263,000	1,433,000	1,638,000	1,809,000	1,979,000	2,150,000
	USRT	105	119	137	151	165	179
Heating Capacity *2	kW	400	460	510	570	630	690
	Btu/h	1,365,000	1,570,000	1,740,000	1,945,000	2,150,000	2,355,000
	USRT	114	131	145	162	179	196
Power Supply		3-phase 3-wire system, 380-415V, 50Hz					
Dimensions (HxWxD)	mm	2,456x4,850x2,000	2,456x5,300x2,000	2,456x6,600x2,000	2,456x7,050x2,000	2,456x7,500x2,000	2,456x7,950x2,000
Weight	kg	4,553	5,110	6,265	6,820	7,500	7,885

Model Name		UWYP280BY1	UWYP320BY1	UWYP360BY1	UWYP400BY1	UWYP440BY1	UWYP480BY1
Cooling Capacity *1	kW	740	840	960	1,060	1,160	1,260
	Btu/h	2,525,000	2,867,000	3,276,000	3,617,000	3,959,000	4,300,000
	USRT	210	239	273	301	330	358
Heating Capacity *2	kW	800	920	1,020	1,140	1,260	1,380
	Btu/h	2,730,000	3,140,000	3,481,000	3,890,000	4,300,000	4,710,000
	USRT	228	262	290	324	358	392
Power Supply		3-phase 3-wire system, 380-415V, 50Hz					
Dimensions (HxWxD)	mm	(2,456x4,850x2,000)x2	(2,456x5,300x2,000)x2	(2,456x6,600x2,000)x2	(2,456x7,050x2,000)x2	(2,456x7,500x2,000)x2	(2,456x7,950x2,000)x2
Weight	kg	4,553x2	5,110x2	6,265x2	6,820x2	7,500x2	7,885x2

Notes:

*1 Cooling capacity is based on the following conditions : Leaving chilled water temp.7°C (44.5°F), entering chilled water temp.12°C (53.6°F), and outdoor air temp. 35°CDB (95°FDB).

*2 Heating capacity is based on the following conditions : Leaving hot water temp.45°C (113°F), entering hot water temp.40°C (104°F), and outdoor air temp. 7°CDB (44.5°FDB), and 6°CWB (43°FWB).

*3 The following safety devices are equipped as standard. • High pressure protector. • Low pressure protector. • Compressor thermal protector. • Fusible plug. • Reverse-phase protector. • Overheat protection of discharge gas. • Overcurrent relay (compressor). • Freeze-up protection thermostat. • Overcurrent relay (fan). • Safety valve.

*4 The unit is equipped with standard water filter.

*5 The limited length of wire represents its max. length when the pressure is lower than 2%.

*6 This product is manufactured in China.

Air Cooled Chillers

UWY40~480AY1 R-22

Heat Pump

Compressor	Semi-hermetic sealed single screw type
Evaporator	Brazed plate heat exchanger
Condenser	Cross fin coil
Operation Range	Cooling : -5~43°C Heating : -20~21°C



Specifications

Model Name		UWY40AY1	UWY50AY1	UWY60AY1	UWY80AY1	UWY100AY1	UWY120AY1
Cooling Capacity *1	kW	106	132	160	210	265	320
	Btu/h	362,000	450,000	546,000	717,000	904,000	1,092,000
	USRT	30	38	46	60	75	91
Heating Capacity *2	kW	118	150	180	240	300	355
	Btu/h	403,000	512,000	614,000	819,000	1,024,000	1,212,000
	USRT	34	43	51	68	85	101
Power Supply		3-phase 3-wire system, 380-415V, 50Hz					
Dimensions (HxWxD)	mm	2,395x2,200x2,000				2,395x4,400x2,000	
Weight	kg	1,700	1,800	1,950	2,020	3,600	3,900

Model Name		UWY140AY1	UWY160AY1	UWY180AY1	UWY200AY1	UWY220AY1	UWY240AY1
Cooling Capacity *1	kW	370	420	480	530	580	630
	Btu/h	1,263,000	1,433,000	1,638,000	1,809,000	1,979,000	2,150,000
	USRT	105	119	137	151	165	179
Heating Capacity *2	kW	420	480	540	600	660	720
	Btu/h	1,433,000	1,638,000	1,843,000	2,048,000	2,252,000	2,457,000
	USRT	119	137	154	171	188	205
Power Supply		3-phase 3-wire system, 380-415V, 50Hz					
Dimensions (HxWxD)	mm	2,395x4,400x2,000			2,460x6,600x2,000		
Weight	kg	4,020	4,040	6,205	6,260	6,295	6,350

Model Name		UWY280AY1	UWY320AY1	UWY360AY1	UWY400AY1	UWY440AY1	UWY480AY1
Cooling Capacity *1	kW	740	840	960	1,060	1,160	1,260
	Btu/h	2,525,000	2,867,000	3,276,000	3,617,000	3,959,000	4,300,000
	USRT	210	239	273	301	330	358
Heating Capacity *2	kW	840	960	1,080	1,200	1,320	1,440
	Btu/h	2,867,000	3,276,000	3,686,000	4,095,000	4,505,000	4,914,000
	USRT	239	273	307	341	375	410
Power Supply		3-phase 3-wire system, 380-415V, 50Hz					
Dimensions (HxWxD)	mm	(2,395x4,400x2,000)x2			(2,460x6,600x2,000)x2		
Weight	kg	4,020x2	4,040x2	6,205x2	6,260x2	6,295x2	6,350x2

Notes:

*1 Cooling capacity is based on the following conditions : Leaving chilled water temp. 7°C (44.5°F), entering chilled water temp. 12°C (53.6°F), and outdoor air temp. 35°C DB (95°F DB).

*2 Heating capacity is based on the following conditions : Leaving hot water temp. 45°C (113°F), entering hot water temp. 40°C (104°F), and outdoor air temp. 7°C DB (44.5°F DB), and 6°C WB (43°F WB).

*3 The following safety devices are equipped as standard. • High pressure protector. • Low pressure protector. • Compressor thermal protector. • Fusible plug. • Reverse-phase protector. • Overheat protection of discharge gas. • Overcurrent relay (compressor). • Freeze-up protection thermostat. • Overcurrent relay (fan). • Safety valve.

*4 Standard for the max. chilled water pressure is 0.7MPa, but 1.6MPa is available if required.

*5 This product is manufactured in China.

Water Cooled Chillers

UWP90~900AY3 R-407C

Cooling Only



Compressor	Hermetically sealed scroll type
Evaporator	Brazed plate heat exchanger
Condenser	Double tube condenser
Operation Range	Cooling water temp. 20~50°C Leaving chilled water temp. 4~25°C

Specifications

Model Name		UWP90AY3	UWP150AY3	UWP224AY3	UWP300AY3	UWP450AY3	UWP600AY3	UWP750AY3	UWP900AY3
Cooling Capacity *1	kW	8.0	13.2	20.0	26.5	40.0	53.0	67.0	80.0
	Btu/h	27,000	45,000	68,000	91,000	137,000	181,000	229,000	273,000
	USRT	2.28	3.75	5.69	7.54	11.4	15.1	19.1	22.8
Power Supply		3-phase 3-wire system, 380-415V/400-440V, 50/60Hz							
Dimensions (HxWxD)	mm	1,280x405x690		1,280x405x790		1,280x808x790		1,280x1,211x790	
Weight	kg	100	110	150	160	305	325	465	485

Notes:

*1 Cooling capacity is based on the following conditions : Leaving chilled water temp. 7°C (44.5°F), entering chilled water temp. 12°C (53.6°F), leaving cooling water temp. 35°C (95°F), entering cooling water temp. 30°C (86°F), 50Hz

*2 The following safety devices are equipped as standard. • High/low pressure switch. • Freeze-up protection thermostat. • Overcurrent relay for compressors. • Reverse-phase protector. • Discharge gas overheat protector. • Fusible plug. • Safety valve.

*3 This product is manufactured in Japan.

CUW40~360D5Y R-22

CUW40~360DY1 R-22

Cooling Only



Compressor	Semi-hermetic sealed single screw type
Evaporator	Shell and Hi-X tube type
Condenser	Shell and cross fin tube type
Operation Range	Cooling water temp. 20~45°C Leaving chilled water temp. 4~16°C

Specifications

Model Name		CUW40D5Y CUW40DY1	CUW50D5Y CUW50DY1	CUW60D5Y CUW60DY1	CUW80D5Y CUW80DY1	CUW100D5Y CUW100DY1	CUW120D5Y CUW120DY1
Cooling Capacity *1	kW	137	168	195	274	336	390
	Btu/h	467,000	573,000	665,000	935,000	1,146,000	1,331,000
	USRT	38.9	47.7	55.4	77.8	95.4	110.8
Power Supply		3-phase 4-wire system, 380V, 50Hz					
Dimensions (HxWxD)	mm	1,600x2,500x655		1,670x2,500x655	1,650x2,800x1,160		1,720x2,780x1,160
Weight (Approx.)	kg	950	1,000	1,150	1,950	2,050	2,250

Model Name		CUW140D5Y CUW140DY1	CUW160D5Y CUW160DY1	CUW180D5Y CUW180DY1	CUW200D5Y CUW200DY1	CUW220D5Y CUW220DY1	CUW240D5Y CUW240DY1
Cooling Capacity *1	kW	460	530	605	680	755	830
	Btu/h	1,570,000	1,808,000	2,064,000	2,320,000	2,576,000	2,832,000
	USRT	130.6	150.5	171.8	193.1	214.4	235.7
Power Supply		D5Y : 3-phase 4-wire system, 380V, 50Hz			DY1 : 3-phase 3-wire system, 380V, 50Hz		
Dimensions (HxWxD)	mm	2,010x3,020x1,580		2,064x3,020x1,580			
Weight (Approx.)	kg	3,000	3,050	3,200	3,400	3,450	3,500

Model Name		CUW260D5Y CUW260DY1	CUW280D5Y CUW280DY1	CUW300D5Y CUW300DY1	CUW320D5Y CUW320DY1	CUW340D5Y CUW340DY1	CUW360D5Y CUW360DY1
Cooling Capacity *1	kW	870	945	1,020	1,095	1,170	1,245
	Btu/h	2,968,000	3,224,000	3,480,000	3,736,000	3,992,000	4,248,000
	USRT	247.1	268.4	289.7	311.0	332.3	353.6
Power Supply		3-phase 4-wire system, 380V, 50Hz					
Dimensions (HxWxD)	mm	2,064x3,070x2,270		2,065x3,070x2,270		2,064x3,070x2,270	
Weight (Approx.)	kg	4,700	4,900	5,050	5,100	5,200	5,250

Notes:

*1 Cooling capacity is based on the following conditions: Entering chilled water temp. 12°C, Leaving chilled water temp. 7°C, Entering cooling water temp. 30°C, Leaving cooling water temp. 35°C

*2 This product is manufactured in China.

Water Cooled Chillers

CUWD40~360A5Y **R-134a**

CUWD40~360AY1 **R-134a**

Cooling Only

Compressor	Semi-hermetic sealed single screw type
Evaporator	Shell and tube type
Condenser	Shell and low fin tube type
Operation Range	Cooling water temp. 20~45°C Leaving chilled water temp. 4~16°C



Specifications

Model Name		CUWD40A5Y CUWD40AY1	CUWD50A5Y CUWD50AY1	CUWD60A5Y CUWD60AY1	CUWD80A5Y CUWD80AY1	CUWD100A5Y CUWD100AY1
Cooling Capacity *1	kW	132	164	198	265	325
	Btu/h	450,000	560,000	676,000	904,000	1,109,000
	USRT	37.5	46.6	56.3	75.4	92.4
Power Supply		A5Y : 3-phase 4-wire system, 380V, 50Hz AY1 : 3-phase 3-wire system, 380V, 50Hz				
Dimensions (HxWxD)	mm	1,580x2,450x650			1,840x2,640x780	
Weight	kg	1,050	1,100	1,200	1,680	1,850

Model Name		CUWD120A5Y CUWD120AY1	CUWD140A5Y CUWD140AY1	CUWD160A5Y CUWD160AY1	CUWD180A5Y CUWD180AY1	CUWD200A5Y CUWD200AY1
Cooling Capacity *1	kW	405	463	530	590	650
	Btu/h	1,382,000	1,580,000	1,808,000	2,013,000	2,218,000
	USRT	115.2	131.7	150.7	167.8	184.9
Power Supply		3-phase 4-wire system, 380V, 50Hz				
Dimensions (HxWxD)	mm	1,840x2,640x780	1,960x3,070x1,520			
Weight	kg	1,950	3,380	3,520	3,690	3,860

Model Name		CUWD220A5Y CUWD220AY1	CUWD240A5Y CUWD240AY1	CUWD260A5Y CUWD260AY1	CUWD280A5Y CUWD280AY1
Cooling Capacity *1	kW	730	810	855	915
	Btu/h	2,491,000	2,764,000	2,917,000	3,122,000
	USRT	207.6	230.4	243.2	260.2
Power Supply		3-phase 4-wire system, 380V, 50Hz			
Dimensions (HxWxD)	mm	1,960x3,070x1,520	1,960x3,070x1,580	1,960x3,070x2,170	
Weight	kg	3,970	4,070	5,430	5,610

Model Name		CUWD300A5Y CUWD300AY1	CUWD320A5Y CUWD320AY1	CUWD340A5Y CUWD340AY1	CUWD360A5Y CUWD360AY1
Cooling Capacity *1	kW	975	1,055	1,135	1,215
	Btu/h	3,327,000	3,600,000	3,873,000	4,146,000
	USRT	277.3	300.0	322.8	345.5
Power Supply		3-phase 4-wire system, 380V, 50Hz			
Dimensions (HxWxD)	mm	1,960x3,070x2,170			
Weight	kg	5,780	5,890	5,990	6,090

Notes:

*1 Cooling capacity is based on the following conditions:

Entering chilled water temp. 12°C Leaving chilled water temp. 7°C
Entering cooling water temp. 30°C Leaving cooling water temp. 35°C

*2 The design pressure on the chilled water side and cooling water side of the standard model is 1MPa.

Applicable design pressure for the container with intensified pressure model (special order model) is:
1.6MPa on the Cooling water side and 1MPa on the chilled water side.

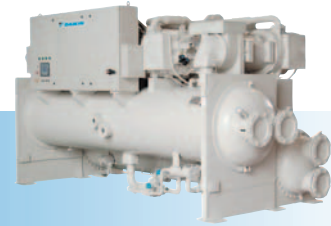
*3 This product is manufactured in China.

Water Cooled Chillers

ZUW110~300 / 370~510AM R-134a

ZUW325 • 350BM

Cooling Only



Compressor	Semi-hermetic sealed single screw type
Evaporator	Shell and tube flooded type
Condenser	Shell and tube type
Operation Range	Cooling water temp. 20~40°C Leaving chilled water temp. 4~15°C

Specifications

Model Name		ZUW110AM	ZUW135AM	ZUW150AM	ZUW170AM	ZUW220AM
Cooling Capacity *1	kW	377.0	457.1	514.8	591.9	753.1
	Btu/h	1,286,000	1,560,000	1,756,000	2,020,000	2,570,000
	USRT	107.2	130.0	146.4	168.3	214.2
Power Supply		3-phase 4-wire system, 380-415V, 50Hz				
Dimensions (LxWxH)	mm	3,340x1,443x1,956				3,462x1,676x2,235
Weight	kg	3,283	3,332	3,469	3,507	5,368

Model Name		ZUW240AM	ZUW265AM	ZUW280AM	ZUW300AM	ZUW325BM
Cooling Capacity *1	kW	833.4	913.2	970.8	1028.0	1108.5
	Btu/h	2,844,000	3,116,000	3,312,000	3,508,000	3,782,000
	USRT	237.0	259.7	276.1	292.4	315.5
Power Supply		3-phase 4-wire system, 380-415V, 50Hz				
Dimensions (LxWxH)	mm	3,462x1,676x2,235		3,764x1,676x2,235		
Weight	kg	5,407	5,432	5,702	5,739	5,763

Model Name		ZUW350BM	ZUW370AM	ZUW390AM	ZUW410AM	ZUW430AM
Cooling Capacity *1	kW	1194.8	1302.9	1383.8	1442.0	1499.9
	Btu/h	4,077,000	4,445,000	4,722,000	4,920,000	5,118,000
	USRT	339.8	370.6	393.6	410.1	426.6
Power Supply		3-phase 4-wire system, 380-415V, 50Hz				
Dimensions (LxWxH)	mm	3,764x1,676x2,235	4,308x1,980x2,278			
Weight	kg	5,818	8,051	8,123	8,360	8,537

Model Name		ZUW450AM	ZUW465AM	ZUW495AM	ZUW510AM
Cooling Capacity *1	kW	1557.6	1630.0	1717.1	1789.7
	Btu/h	5,315,000	5,562,000	5,859,000	6,106,000
	USRT	443.0	463.6	488.4	509.0
Power Supply		3-phase 4-wire system, 380-415V, 50Hz			
Dimensions (LxWxH)	mm	4,308x1,980x2,278			
Weight	kg	8,537		8,670	

Notes:

*1 Cooling capacity is based on the following conditions:

Entering chilled water temp. 12°C, Leaving chilled water temp. 7°C

Entering cooling water temp. 30°C, Leaving cooling water temp. 35°C

Evaporator fouling factor 0.0176 m² · °C/kW, Cooling fouling factor 0.044 m² · °C/kW

*2 This product is manufactured in China.

Water Cooled Chillers

ZUW100~400AY1 R-134a

Cooling Only

Compressor	Semi-hermetic sealed single screw type
Evaporator	Shell and tube flooded type
Condenser	Shell and tube type
Operation Range	Cooling water temp. 30~50°C (100~300A), 20~45°C (350, 400A) Leaving chilled water temp. 4~16°C (100~400A)



Specifications

Model Name		ZUW100AY1	ZUW120AY1	ZUW150AY1	ZUW175AY1	ZUW200AY1
Cooling Capacity	kW	367	454	508	631	710
	Btu/h	1,252,000	1,549,000	1,733,000	2,153,000	2,422,000
	USRT	104	129	144	179	202
Power Supply		3-phase 3-wire system, 380-415V, 50Hz				
Dimensions (HxWxD)	mm	1,765x1,160x3,530			1,765x1,210x3,680	1,830x1,320x3,960
Weight (Approx.)	kg	3,500	3,650	3,750	3,900	4,750

Model Name		ZUW240AY1	ZUW280AY1	ZUW300AY1	ZUW350AY1	ZUW400AY1
Cooling Capacity	kW	857	1,000	1,114	1,260	1,450
	Btu/h	2,924,000	3,412,000	3,801,000	4,299,000	4,947,000
	USRT	244	284	317	358	412
Power Supply		3-phase 3-wire system, 380-415V, 50Hz				
Dimensions (HxWxD)	mm	2,000x1,400x4,000	2,060x1,470x4,550		2,270x1,830x4,250	
Weight (Approx.)	kg	5,250	6,650	6,750	8,300	8,450

Notes:

*1 Cooling capacity is based on the following conditions : Leaving chilled water temp. 7°C (44.5°F), entering chilled water temp. 12°C (53.6°F), leaving cooling water temp. 35°C (95°F), entering cooling water temp. 30°C (86°F).

*2 The following safety devices are equipped as standard. • High/low pressure switch. • Freeze-up protection thermostat. • Overcurrent relay for compressors. • Compressor thermal protector. • Reverse-phase protector. • Discharge gas overheat protector. • Fusible plug. • Safety valve.

*3 This product is manufactured in China.

Brine Chillers

ZUW100~400AY1Z R-134a

Cooling Only

Compressor	Semi-hermetic sealed single screw type
Evaporator	Shell and tube flooded type
Condenser	Shell and tube type
Operation Range	Cooling water temp. 25~40°C Leaving chilled brine temp. -8~10°C



Specifications

Model Name		ZUW100AY1Z	ZUW120AY1Z	ZUW150AY1Z	ZUW175AY1Z	ZUW200AY1Z
Cooling Capacity	kW	190	243	272	338	382
	Btu/h	648,000	829,000	928,000	1,153,000	1,303,000
	USRT	54	69	77	96	109
Power Supply		3-phase 3-wire system, 380-415V, 50Hz				
Dimensions (HxWxD)	mm	1,765x1,160x3,400			1,765x1,210x3,680	1,830x1,320x3,960
Weight (Approx.)	kg	3,500	3,650	3,750	3,900	4,750

Model Name		ZUW240AY1Z	ZUW280AY1Z	ZUW300AY1Z	ZUW350AY1Z	ZUW400AY1Z
Cooling Capacity	kW	459	534	599	628	715
	Btu/h	1,566,000	1,822,000	2,044,000	2,143,000	2,439,000
	USRT	131	152	170	179	203
Power Supply		3-phase 3-wire system, 380-415V, 50Hz				
Dimensions (HxWxD)	mm	2,000x1,400x4,000	2,060x1,470x4,550		2,270x1,830x4,250	
Weight (Approx.)	kg	5,250	6,650	6,750	8,300	8,450

Notes:

*1 Cooling capacity is based on the following conditions : Leaving chilled brine temp. -5°C (23.0°F), entering chilled brine temp. -2°C (28.4°F), leaving cooling water temp. 35°C (95°F), entering cooling water temp. 30°C (86°F).

*2 The following safety devices are equipped as standard. • High/low pressure switch. • Freeze-up protection thermostat. • Overcurrent relay for compressors. • Compressor thermal protector. • Reverse-phase protector. • Discharge gas overheat protector. • Fusible plug. • Safety valve.

*3 This product is manufactured in China.

Fan Coil Units

Wall Mounted Type FWMT

- Slim and compact, light weight
- Detachable and washable air intake grille
- Microprocessor control
- Self diagnosis features
- Automatic air swing
- Wireless Control as standard



Specifications

Model Name		FWMT02BV1	FWMT03BV1	FWMT04BV1	FWMT05BV1	FWMT06BV1
Total Cooling Capacity	Btu/h	8,000	9,500	11,000	15,500	18,000
	W	2,340	2,780	3,220	4,540	5,280
Sensible Cooling Capacity	Btu/h	5,900	6,900	8,010	12,480	14,750
	W	1,730	2,030	2,350	3,650	4,320
Heating Capacity	Btu/h	10,300	12,800	14,000	20,500	23,000
	W	3,020	3,750	4,100	6,010	6,740
Power Supply		1 phase, 220-240 V, 50 Hz				
Dimensions (HxWxD)	mm	260x799x198	260x899x198		304x1,062x222	
Weight	kg	8.5	9.4		15	
Airflow (H)	ℓ /s	130	142	163	297	311
	cfm	275	300	345	630	660

Notes:

*1 All specifications are subjected to change by the manufacture without prior notice.

*2 All units are being tested and comply to ISO 5151 & ISO13253.

*3 Nominal cooling and heating capacity are based on the conditions below:

a) Cooling - entering air temp. : 27°C (80.6°F) DB / 19°C (66.2°F) WB, Entering water temp. : 7°C (44.6°F), Leaving water temp. : 12°C (53.6°F)

b) Heating - entering air temp. : 20°C (68°F) DB, Entering water temp. : 50°C (122°F), Water flow rate based on cooling cycle.



Fan Coil Units

Ceiling Cassette Type FWMJC

- Aesthetically attractive and slim front panel
- 4 way air discharge to provide better air distribution to room
- Automatic air swing



Specifications

Model Name		FWMJC7AV1	FWMJC8AV1	FWMJC9AV1	FWMJC10AV1	FWMJC11AV1
Decoration Panel		BMJC820A (W)				
Total Cooling Capacity	Btu/h	22,500	25,500	30,000	33,500	36,500
	W	6,590	7,470	8,790	9,820	10,700
Sensible Cooling Capacity	Btu/h	16,700	18,400	21,800	24,200	26,280
	W	4,890	5,390	6,390	7,100	7,690
Total Heating Capacity	Btu/h	28,500	32,000	37,500	40,500	44,000
	W	8,350	9,380	11,000	11,870	12,900
Power Supply		1 phase, 220-240 V, 50 Hz				
Dimension () With Panel (HxWxD)	mm	305x824x824 (355x930x930)				
Weight (Unit+Panel)	kg	25+4	36+4	38+4	42+4	44+4
Airflow (H)	ℓ /s	364	383	433	483	511
	cfm	771	812	918	1,024	1,083

Notes:

*1 All specifications are subjected to change by the manufacture without prior notice.

*2 All units are being tested and comply to ISO 5151 & ISO13253.

*3 Nominal cooling and heating capacity are based on the conditions below:

a) Cooling - entering air temp. : 27°C (80.6°F) DB / 19°C (66.2°F) WB, Entering water temp. : 7°C (44.6°F), Leaving water temp. : 12°C (53.6°F)

b) Heating - entering air temp. : 20°C (68°F) DB, Entering water temp. : 50°C (122°F), Water flow rate based on cooling cycle.

Ceiling Cassette Type (Compact type) FWMJCC

- Aesthetically attractive and slim front panel
- 4 way air discharge to provide better air distribution to room
- Automatic air swing



Specifications

Model Name		FWMJCC2BV1	FWMJCC4BV1	FWMJCC5BV1
Decoration Panel		BMJCC570A(W)		
Total Cooling Capacity	Btu/h	8,500	14,000	15,500
	W	2,490	4,100	4,540
Sensible Cooling Capacity	Btu/h	6,500	10,000	11,500
	W	1,910	2,930	3,370
Total Heating Capacity	Btu/h	12,000	16,000	18,000
	W	3,520	4,690	5,280
Power Supply		1 phase, 220-240 V, 50 Hz		
Dimension () With Panel (HxWxD)	mm	250x570x570 (295x640x640)		
Weight (Unit+Panel)	kg	15+3	17+3	
Airflow (H)	ℓ /s	179	189	208
	cfm	380	400	440

Notes:

*1 All specifications are subjected to change by the manufacture without prior notice.

*2 All units are being tested and comply to ISO 5151 & ISO13253.

*3 Nominal cooling and heating capacity are based on the conditions below:

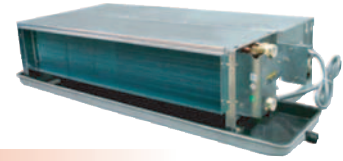
a) Cooling - entering air temp. : 27°C (80.6°F) DB / 19°C (66.2°F) WB, Entering water temp. : 7°C (44.6°F), Leaving water temp. : 12°C (53.6°F)

b) Heating - entering air temp. : 20°C (68°F) DB, Entering water temp. : 50°C (122°F), Water flow rate based on cooling cycle.

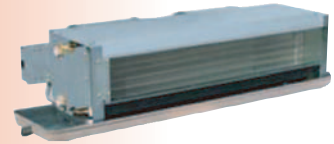
Fan Coil Units

Ceiling Concealed Type FWMH

- Simple design with easy serviceability feature
- Extremely low height of unit-251mm for complete range
- Water piping connection can be easily converted from one side to the other
- Following 2 types are selectable. (Select the type when ordering)
 - With Intake Plenum Type
 - Without Intake Plenum Type



With Intake Plenum



Without Intake Plenum

With intake plenum : FWMH2-12A0(Z)V1
FWMH2-12A3(Z)V1
FWMH2-12A6(Z)V1
FWMH2-12A8(Z)V1

Without intake plenum : FWMH2-12AN0(Z)V1
FWMH2-12AN3(Z)V1
FWMH2-12AN6(Z)V1
FWMH2-12AN8(Z)V1

Specifications

* With Z, the unit with the piping taken out from the right viewed from the supply opening
* Without Z, the unit with the piping taken out from the left viewed from the supply opening

Model Name	With intake plenum	FWMH2A0(Z)V1	FWMH3A0(Z)V1	FWMH4A0(Z)V1	FWMH6A0(Z)V1	FWMH8A0(Z)V1	FWMH10A0(Z)V1	FWMH12A0(Z)V1
	Without intake plenum	FWMH2AN0(Z)V1	FWMH3AN0(Z)V1	FWMH4AN0(Z)V1	FWMH6AN0(Z)V1	FWMH8AN0(Z)V1	FWMH10AN0(Z)V1	FWMH12AN0(Z)V1
Cooling Capacity	Btu/h	7,510	10,900	15,000	21,200	26,600	30,000	36,500
	W	2,200	3,200	4,400	6,200	7,800	8,800	10,700
Sensible Cooling Capacity	Btu/h	5,930	8,050	11,100	15,000	20,600	21,900	26,500
	W	1,740	2,360	3,240	4,400	6,040	6,410	7,760
Heating Capacity	Btu/h	11,900	17,400	24,900	34,000	44,600	50,400	65,400
	W	3,500	5,100	7,300	9,960	13,100	14,800	19,200
Power Supply		1 phase, 220-240 V, 50 Hz						
Dimensions (HxWxD)	mm	251x714x556	251x884x556	251x1,014x556	251x1,214x556	251x1,464x556	251x1,564x556	251x1,824x556
Weight (Without Plenum)	kg	19.0	20.0	26.0	30.0	41.0	44.0	46.0
Weight (With Plenum)	kg	20.0	24.0	28.0	33.0	44.0	47.0	50.0
Airflow(H)	m ³ /h	390	530	760	1,040	1,420	1,620	2,040
	cfm	229	312	447	612	835	953	1,200

Model Name	With intake plenum	FWMH2A3(Z)V1	FWMH3A3(Z)V1	FWMH4A3(Z)V1	FWMH6A3(Z)V1	FWMH8A3(Z)V1	FWMH10A3(Z)V1	FWMH12A3(Z)V1
	Without intake plenum	FWMH2AN3(Z)V1	FWMH3AN3(Z)V1	FWMH4AN3(Z)V1	FWMH6AN3(Z)V1	FWMH8AN3(Z)V1	FWMH10AN3(Z)V1	FWMH12AN3(Z)V1
Cooling Capacity	Btu/h	7,510	10,900	15,000	21,200	26,600	30,000	36,500
	W	2,200	3,200	4,400	6,200	7,800	8,800	10,700
Sensible Cooling Capacity	Btu/h	5,930	8,050	11,100	15,000	20,600	21,900	26,500
	W	1,740	2,360	3,240	4,400	6,040	6,410	7,760
Heating Capacity	Btu/h	11,900	17,400	24,900	34,000	44,600	50,400	65,400
	W	3,500	5,100	7,300	9,960	13,100	14,800	19,200
Power Supply		1 phase, 220-240 V, 50 Hz						
Dimensions (HxWxD)	mm	251x714x556	251x884x556	251x1,014x556	251x1,214x556	251x1,464x556	251x1,564x556	251x1,824x556
Weight (Without Plenum)	kg	19.0	20.0	26.0	30.0	41.0	44.0	46.0
Weight (With Plenum)	kg	20.0	24.0	28.0	33.0	44.0	47.0	50.0
Airflow(H)	m ³ /h	390	530	760	1,040	1,420	1,620	2,040
	cfm	229	312	447	612	835	953	1,200

Fan Coil Units

■ Specifications

Model Name	With intake plenum	FWMH2A6(Z)V1	FWMH3A6(Z)V1	FWMH4A6(Z)V1	FWMH6A6(Z)V1	FWMH8A6(Z)V1	FWMH10A6(Z)V1	FWMH12A6(Z)V1
	Without intake plenum	FWMH2AN6(Z)V1	FWMH3AN6(Z)V1	FWMH4AN6(Z)V1	FWMH6AN6(Z)V1	FWMH8AN6(Z)V1	FWMH10AN6(Z)V1	FWMH12AN6(Z)V1
Cooling Capacity	Btu/h	7,510	10,900	15,000	21,200	26,600	30,000	36,500
	W	2,200	3,200	4,400	6,200	7,800	8,800	10,700
Sensible Cooling Capacity	Btu/h	5,740	7,800	10,700	14,600	20,600	21,200	25,700
	W	1,680	2,290	3,150	4,270	5,860	6,220	7,530
Heating Capacity	Btu/h	4,610	7,780	11,000	14,600	17,500	23,700	29,000
	W	1,350	2,280	3,210	4,290	5,120	6,940	8,490
Power Supply		1 phase, 220-240 V, 50 Hz						
Dimensions (HxWxD)	mm	251x714x556	251x884x556	251x1,014x556	251x1,214x556	251x1,464x556	251x1,564x556	251x1,824x556
Weight (Without Plenum)	kg	19.0	20.0	26.0	30.0	41.0	44.0	46.0
Weight (With Plenum)	kg	20.0	24.0	28.0	33.0	44.0	47.0	50.0
Airflow(H)	m ³ /h	360	510	750	1,010	1,380	1,570	2,000
	cfm	212	300	441	594	812	924	1,176

Model Name	With intake plenum	FWMH2A8(Z)V1	FWMH3A8(Z)V1	FWMH4A8(Z)V1	FWMH6A8(Z)V1	FWMH8A8(Z)V1	FWMH10A8(Z)V1	FWMH12A8(Z)V1
	Without intake plenum	FWMH2AN8(Z)V1	FWMH3AN8(Z)V1	FWMH4AN8(Z)V1	FWMH6AN8(Z)V1	FWMH8AN8(Z)V1	FWMH10AN8(Z)V1	FWMH12AN8(Z)V1
Cooling Capacity	Btu/h	7,510	10,900	15,000	21,200	26,600	30,000	36,500
	W	2,200	3,200	4,400	6,200	7,800	8,800	10,700
Sensible Cooling Capacity	Btu/h	6,090	8,200	12,100	17,200	21,700	24,900	32,000
	W	1,780	2,410	3,530	5,050	6,370	7,300	9,380
Heating Capacity	Btu/h	14,300	18,700	28,800	39,200	47,400	56,000	69,800
	W	4,200	5,470	8,440	11,500	13,900	16,400	20,500
Power Supply		1 phase, 220-240 V, 50 Hz						
Dimensions (HxWxD)	mm	251x714x556	251x884x556	251x1,014x556	251x1,214x556	251x1,464x556	251x1,564x556	251x1,824x556
Weight (Without Plenum)	kg	19.0	20.0	26.0	30.0	41.0	44.0	46.0
Weight (With Plenum)	kg	20.0	24.0	28.0	33.0	44.0	47.0	50.0
Airflow(H)	m ³ /h	360	510	750	1,010	1,380	1,570	2,000
	cfm	212	300	441	594	812	924	1,180

Notes:

*1 All specifications are subjected to change by the manufacture without prior notice.

*2 All the units are being tested under following condition:

a) Cooling: 27°CDB / 19°CWB indoor and water inlet 7°C outlet 12°C

b) Heating: 21°CDB indoor and water 60°C inlet. Water flow: same with cooling condition.

Fan Coil Units

Ceiling Concealed Type FWPMM

- Elegance and prestige
- Evergreen design
- Superior air distribution

- Optional duct accessories
- Wired controller



With wired controller : FWPMM3-16A(Z)V1

Without wired controller : FWPMM3-16A(Z)V1-N

* With Z, the unit with the piping taken out from the right viewed from the supply opening
* Without Z, the unit with the piping taken out from the left viewed from the supply opening

Specifications

Model Name	With wired controller	FWPMM3A(Z)V1	FWPMM4A(Z)V1	FWPMM6A(Z)V1	FWPMM7A(Z)V1	FWPMM8A(Z)V1
	Without wired controller	FWPMM3A(Z)V1-N	FWPMM4A(Z)V1-N	FWPMM6A(Z)V1-N	FWPMM7A(Z)V1-N	FWPMM8A(Z)V1-N
Nominal Total	Btu/h	9,900	11,600	18,000	22,500	26,000
Cooling Capacity	W	2,900	3,400	5,280	6,590	7,620
Nominal Sensible	Btu/h	7,000	8,120	12,600	15,750	18,200
Cooling Capacity	W	2,050	2,380	3,690	4,620	5,330
Nominal Total Heating Capacity	Btu/h	11,500	15,000	23,000	29,000	33,000
	W	3,370	4,400	6,740	8,500	9,670
Power Supply		1 phase, 220-240 V, 50 Hz				
Dimensions (HxWxD)	mm	263x803x411	263x934x411	263x1,103x411	263x1,238x411	285x982x600
Weight	kg	18	24	27	28	39
Airflow (H)	ℓ/s	142	241	330	344	382
	cfm	300	510	700	730	810

Model Name	With wired controller	FWPMM9A(Z)V1	FWPMM11A(Z)V1	FWPMM12A(Z)V1	FWPMM14A(Z)V1	FWPMM16A(Z)V1
	Without wired controller	FWPMM9A(Z)V1-N	FWPMM11A(Z)V1-N	FWPMM12A(Z)V1-N	FWPMM14A(Z)V1-N	FWPMM16A(Z)V1-N
Nominal Total	Btu/h	28,000	35,200	38,000	47,000	54,000
Cooling Capacity	W	8,210	10,320	11,140	13,770	15,830
Nominal Sensible	Btu/h	19,880	24,640	26,600	32,900	37,800
Cooling Capacity	W	5,830	7,220	7,600	9,640	11,080
Nominal Total Heating Capacity	Btu/h	36,000	43,000	46,000	57,000	67,000
	W	10,550	12,600	13,480	16,710	19,640
Power Supply		1 phase, 220-240 V, 50 Hz				
Dimensions (HxWxD)	mm	378x972x541	315x1,287x638	378x1,083x541	378x1,342x541	378x1,542x541
Weight	kg	42	50	45	49	57
Airflow (H)	ℓ/s	392	548	458	652	723
	cfm	830	1,160	970	1,380	1,530

Notes:

*1 All specifications are subjected to change by the manufacture without prior notice.

*2 All units are being tested and comply to ISO 5151 & ISO13253.

*3 Nominal cooling and heating capacity are based on the conditions below:

a) Cooling - entering air temp. : 27°C (80.6°F) DB / 19°C (66.2°F) WB, Entering water temp. : 7°C (44.6°F), Leaving water temp. : 12°C (53.6°F)

b) Heating - entering air temp. : 20°C (68°F) DB, Entering water temp. : 50°C (122°F), Water flow rate based on cooling cycle.

Fan Coil Units

Ducted Blower Type UAHMM

- These units are designed with high airflow and high external static pressure
- Simple design with easy serviceability feature
- UAHMM30A/40A types are using the belt driven fan motor and fan



Specifications

* With Z, the unit with the piping taken out from the right viewed from the supply opening
 * Without Z, the unit with the piping taken out from the left viewed from the supply opening

Model Name		UAHMM20A(Z)V1	UAHMM25A(Z)V1	UAHMM30A(Z)Y1	UAHMM40A(Z)Y1
Total Cooling Capacity	Btu/h	75,600	95,000	125,000	150,000
	W	22,160	27,840	36,640	43,960
Sensible Cooling Capacity	Btu/h	56,670	69,350	90,000	106,500
	W	15,730	20,330	26,380	31,210
Total Heating Capacity	Btu/h	78,000	97,500	138,000	170,000
	W	22,860	28,580	40,450	49,820
Power Supply		1 phase, 220-240 V, 50 Hz		3 phase, 380-415 V, 50 Hz	
Dimensions (HxWxD)		572x1,502x761		885/x1,640x1,040	
Weight		92	102	176	189
Airflow (H)	ℓ /s	1,180	1,510	1,982	2,171
	cfm	2,500	3,200	4,200	4,600

Notes:

*1 All specifications are subjected to change by the manufacture without prior notice.

*2 All units are being tested and comply to ISO 5151 & ISO13253.

*3 Nominal cooling and heating capacity are based on the conditions below:

- Cooling - entering air temp. : 27°C (80.6°F) DB / 19°C (66.2°F) WB, Entering water temp. : 7°C (44.6°F), Leaving water temp. : 12°C (53.6°F)
- Heating - entering air temp. : 20°C (68°F) DB, Entering water temp. : 50°C (122°F), Water flow rate based on cooling cycle.

Air Handling Units

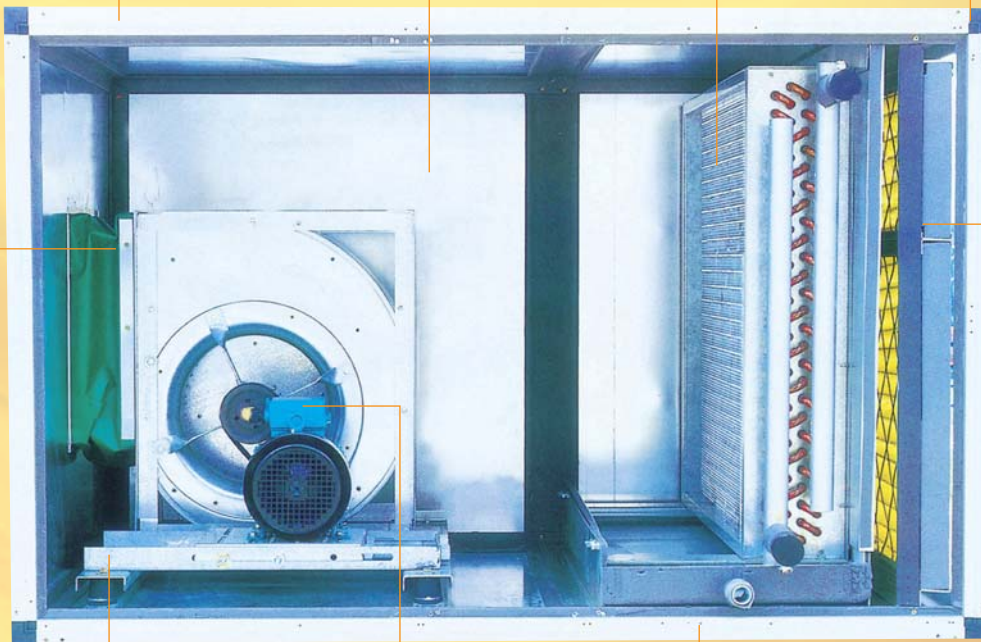
Flexible joint between fan and discharge frame to prevent the vibration transfer to ducting.

Clip method to hold the panel are easy for panel assessment.

The free-flow 1/2" O.D. tube coil to provide the optimum balance between air pressure drop and heat transfer.

Double skinned insulation panel with 0.5mm high strength pre-painted steel as external skin and 0.5mm GI steel as internal skin.

Fibre plastic corner piece to prevent condensation and remain the framework rigidly.



Internal mount fan and motor on the vibration isolator to minimum the vibration transmission.

Sloped and insulated drain pan to provide better water flow and prevent condensation.

Taper lock pulley are more compact and easy for maintenance.

Built-in panel filter frame to optimum the use of space.

Air Handling Units



Nomenclature

DDM - 10 13

Model Name

Daikin Brand

Double Skin Modular

Unit Height Modular

04 = 800 mm

07 = 1,100 mm

10 = 1,400 mm

13 = 1,700 mm

15 = 1,900 mm

18 = 2,200 mm

20 = 2,400 mm

22 = 2,600 mm

Unit Width Modular

04 = 800 mm

07 = 1,100 mm

10 = 1,400 mm

13 = 1,700 mm

15 = 1,900 mm

19 = 2,300 mm

21 = 2,500 mm

23 = 2,700 mm

27 = 3,100 mm

33 = 3,700 mm

Horizontal Type

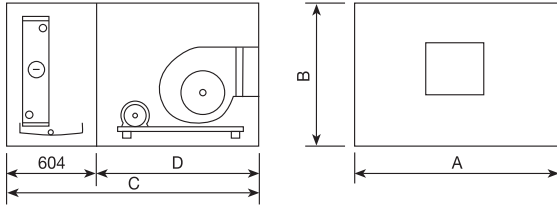


Figure 1. Dimensions (mm) for horizontal units (floor mounted)

Model Name	Unit	DDM											
		0404	0407	0410	0413	0707	0710	0713	0715	1010	1013	1015	1019
Airflow Rate	m ³ /h	2,326	3,697	5,069	6,440	6,012	8,240	10,469	11,956	11,408	14,494	16,553	20,668
	l/s	646	1,027	1,408	1,789	1,670	2,289	2,908	3,321	3,169	4,026	4,598	5,741
Dimensions	A	804	1,104	1,404	1,704	1,104	1,404	1,704	1,904	1,404	1,704	1,904	2,304
	B	804				1,104				1,404			
	C	1,508		1,608				1,808				2,008	
	D	—											

Model Name	Unit	DDM												
		1021	1315	1319	1321	1519	1521	1819	1821	1823	1827	2027	2233	
Airflow Rate	m ³ /h	22,723	20,228	25,258	27,774	27,554	30,298	34,445	37,872	41,303	48,161	51,372	70,135	
	l/s	6,312	5,619	7,016	7,715	7,654	8,416	9,568	10,520	11,473	13,378	14,270	19,482	
Dimensions	A	2,504	1,904	2,304	2,504	2,304	2,504	2,304	2,504	2,704	3,104		3,704	
	B	1,404	1,704			1,904			2,204			2,404		2,604
	C	2,008				2,208				2,408		2,608		2,808
	D	—			1,604				1,804		2,004		2,204	

Vertical Type

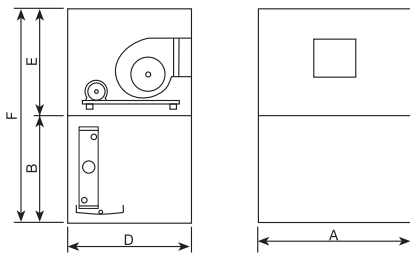


Figure 2. Dimensions (mm) for vertical units

Model Name	Unit	DDM															
		0404	0407	0410	0413	0707	0710	0713	0715	1010	1013	1015	1019	1021	1315	1319	1321
Airflow Rate	m ³ /h	2,326	3,697	5,069	6,440	6,012	8,240	10,469	11,956	11,408	14,494	16,553	20,668	22,723	20,228	25,258	27,774
	l/s	646	1,027	1,408	1,789	1,670	2,288	2,908	3,321	3,169	4,026	4,598	5,741	6,312	5,619	7,016	7,715
Dimensions	A	804	1,104	1,404	1,704	1,104	1,404	1,704	1,904	1,404	1,704	1,904	2,304	2,504	1,904	2,304	2,504
	B	804				1,104				1,404				1,704			
	D	904		1,004				1,204		1,204		1,404				1,604	
	E	—						1,104		1,104	1,204	1,404				1,604	
	F	1,608				1,908		2,208		2,508	2,608	2,808			3,108	3,308	

Air Handling Units

Accessory

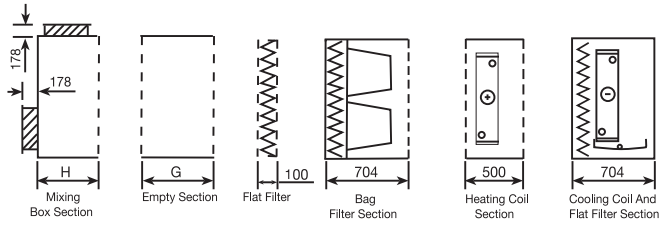


Figure 3. Dimensions (mm) for accessory sections

Model Name	Unit	DDM											
		0404	0407	0410	0413	0707	0710	0713	0715	1010	1013	1015	1019
Dimensions	G	from 304 to 1,204 mm (with 100mm increment)											
	H	504						704					

Model Name	Unit	DDM											
		1021	1315	1319	1321	1519	1521	1819	1821	1823	1827	2027	2233
Dimensions	G	from 304 to 1,204 mm (with 100mm increment)											
	H	704	804			1,004			1,104				

Notes:

*1 There is special customized design for non standard AHU upon customer request especially low height unit.

*2 Width and height are based on the 25mm PU insulation panel.

*3 Additional 50mm (Height & Width) for AHU with 50mm PU insulation.

Warning



- Daikin products are manufactured for export to numerous countries throughout the world. Prior to purchase, please confirm with your local authorised importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
- 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 unauthorised 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 warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

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 unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the unit close to the sea shore, contact your local distributor.

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DAIKIN INDUSTRIES, LTD.

Head Office:
Umeda Center Bldg., 2-4-12, Nakazaki-Nishi,
Kita-ku, Osaka, 530-8323 Japan

Tokyo Office:
JR Shinagawa East Bldg., 2-18-1, Konan,
Minato-ku, Tokyo, 108-0075 Japan

http://www.daikin.com/global_ac/

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