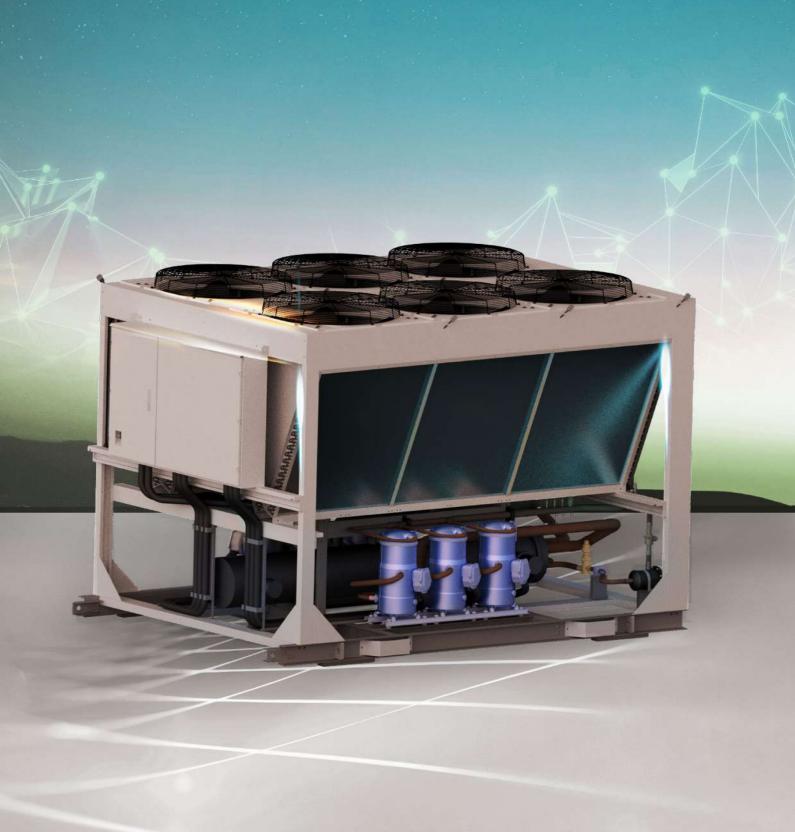


HFC-R410a

40~100RT

AIR-COOLED SCROLL **CHILLER**

COOLING ONLY



COOLING EXPERT

PACKAGE AIR COOLED SCROLL CHILLER







(1) Nominal Capacity, COP, and IPLV based on AHRI 551/591 conditions @ 12°C/ 7°C EEWT/ELWT, 35°C Ambient Temperature

Daikin is known worldwide for its experience in the design and manufacturing of HVAC products. We have always been committed to deliver products beyond our customers' expectations.

The Air Cooled Scroll Chiller of the UAM series with a cooling capacity of 40 - 100RT [140 - 352 kW] utilizes the environmentally-sound HFC-R410A refrigerant. The chiller serves for cooling function only. The refrigerant circuits use a dual circuitry design for better redundancy. It comes with Microtech controller which can connect with high-level communication of BacNET/IP, Modbus TCP/IP or Modbus RTU as optional.

The UAM offers good energy efficiency, ease of installation, control flexibility, high reliability, compact footprint and advanced control.

PREMIUM QUALITY

CHILLER COMPONENTS



DIRECT-DRIVEN
AXIAL FANS



CONDENSER COIL WITH COPPER TUBE ALUMINUM FINS

FIXED SPEED

SCROLL COMPRESSOR

MICROTECH CONTROLLER
WITH OPTIONAL SUPPORT
FOR MODBUS OR BACNET



DX SHELL & TUBE
(FOR 60~100RT UNIT)
BPHE FOR 40RT UNIT

BEING DIFFERENT IS BEING AHEAD

KEY FEATURES

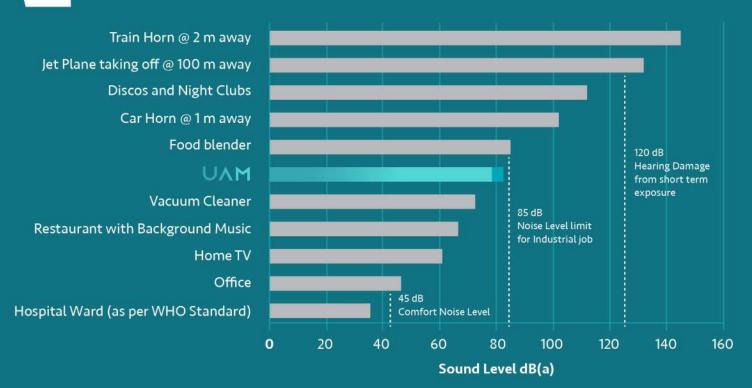
COMPACT FOOTPRINT; LOGISTICAL ADVANTAGE

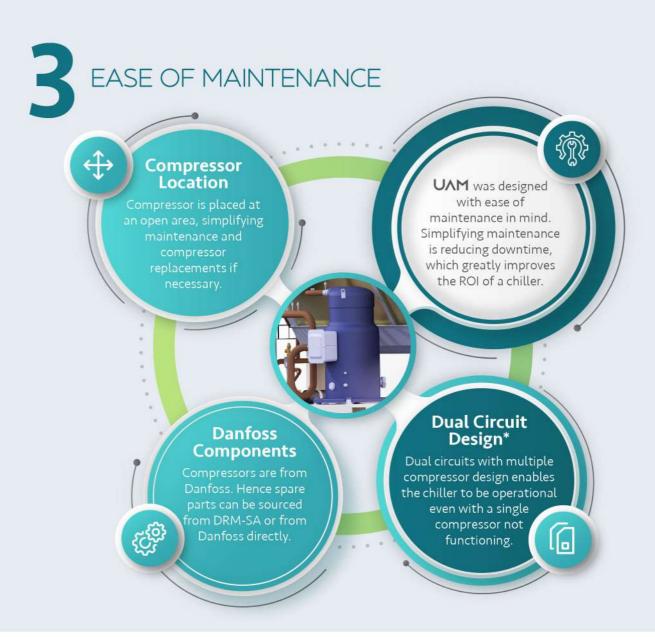


- UAM is designed light and easy to transfer. UAM40 is able to move by forklift.
- UAM only require standard height containers instead of High Cube Containers.

	Quantity of Chillers							
	20ft Standard Container	40ft Standard Container						
UAMHO	2	6						
UAMEO	1	3						
UAMBO	1	3						
UAMIOO	1	2						

2 LOW NOISE LEVEL





OPTIONAL ITEMS LIST



Gold Fin

Hydrophilic Gold Fins for slightly better corrosion resistance

Heresite Coating

Baked Phenolic Epoxy Coating for superb corrosion resistance against large variety of atmosphere



Flow Switch

Paddle Flow Switch can be added

Shell & Tube*

BPHE to be converted to S&T upon request (valid for UAM40 only currently)



Spring Isolators

Reduces vibration of the chiller

Coil Guard

Bottom Cover

Improves outlook and protects chiller's coil



Softstarter

Instead of DOL starter to reduce starting current



Communication





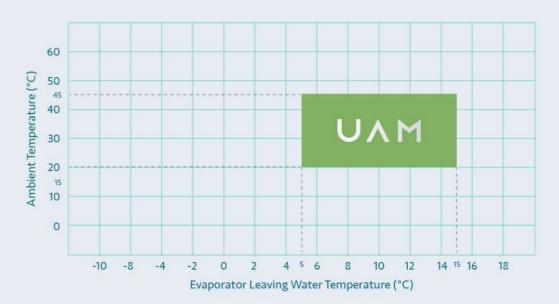
5 TEMPERATURE PROFILE & LEAVING WATER TEMPERATURE SETTING

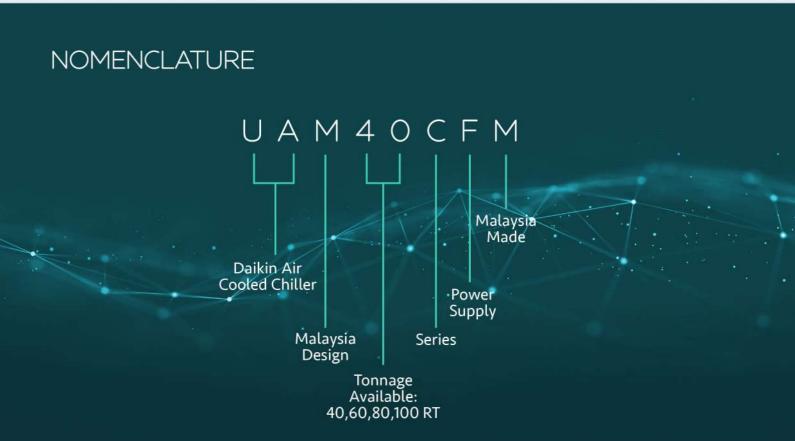
Temperature Profile

Operation outside these limits can cause the protective devices to intervene and interrupt unit operation. In extreme condition, damage to the equipment may occur. If in doubt, consult the manufacturer.

Leaving Water Temperature Setting

The workload of a Daikin water chiller is controlled by the Evaporator Leaving Water Temperature (ELWT) which can be set by using the equipment controller. By default, the ELWT is set to 7°C. It can be set from 5~15°C. Out of this range, some other parameters are needed to be changed as well. Please contact local Daikin office or distributor to have qualified technician to do the setting accordingly.





TECHNICAL DATA

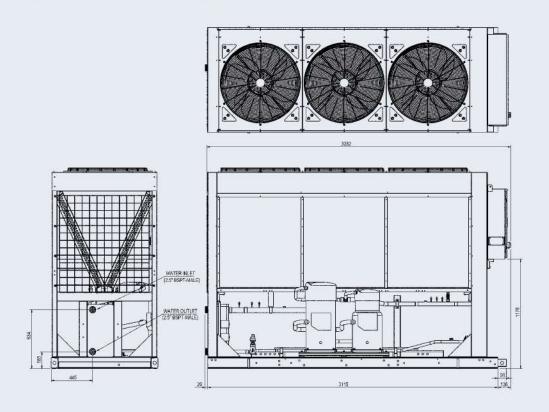
UAM TECHNICAL DATA		UAMCFM			UAMCUM			UAMCRM					
MODEL	UAM	40	60	80	100	40	60	80	100	40	60	80	100
GENERAL		1	Vi.					,		No.			
NOMINAL COOLING	TR	40.00	59.32	79.00	100.0	40.00	60.00	80.00	98.80	39.84	60.00	79.68	97.98
CAPACITY (R410A)	kW	140.7	208.6	277.8	351.7	140.7	211.0	281.4	347.5	140.1	211.0	280,2	344.6
Power Supply	V/PH/HZ	z 38-415 / 3N ~ / 50			380 / 3N ~ / 60				460 / 3N ~ / 60				
Nominal kW Input (Total)	kW	52.10	79.2	104.2	132.4	49.32	79.62	98.64	124.2	51.99	84.70	104.0	130.6
COP	kW/kW	2.700	2.634	2.666	2.656	2.852	2.65	2.852	2.798	2.695	2.491	2.695	2.638
RLA (Total)	A	*Note 3 / Installation-Manual (Electric Data)			*Note 3 / Installation-Manual (Electric Data)			*Note 3 / Installation-Manual (Electric Data					
No of Refrigerant Circuit	Circuit	1 2			1 2			1 2					
Unit Capacity Control	Steps	2		4		3	4	6	4	2		4	
Nominal Refrigerant Charge / Circuit	kg	25	21	25	35	25	21	25	35	25	21	25	35
COMPRESSOR				0.000.000.000									
Туре	-	Hermetic-sealed (Scroll)				Hermetic-sealed (Scroll)			Hermetic-sealed (Scroll)				
Quantity / Unit	-	2		4		3	5	6	4	2		4	********
Max. Operating Current (each comp max)	A	56.00/72.00	49.00	56.00/72.00	72.00/91.00	41.00	41.00/58.00	41.00	69.00/88.00	49.00/56.00	34.00/49.00	49.00/56.00	56.00/72
Oil Charge (each comp)	Litre		6.	7		3.6	3.6/6.7	3.6	6.7			6.7	L
EVAPORATOR				*******		J					L		******
Туре	-	Plate Heat Exchanger	S	hell and Tub	ie	Plate Heat Exchanger	S	hell and Tul	oe	Plate Heat Exchanger	S	hell and Tut	oe
Water Connection Size	Туре	2.5" Male BSPT	4" Victaulic Joint	5" Victa	ulic Joint	2.5" Male BSPT	4" Victaulic Joint	5" Victa	ulic Joint	2.5" Male BSPT	4" Victaulic Joint	5" Victa	ulic Joint
Nominal Water Flow Rate	m³/h	24.23	35.93	47.85	60.56	24.23	36.34	48.45	59.84	24.13	36.34	48.26	59.34
Nominal Water Pressure Drop	kPa	51.2	38.0	36.7	63.0	51.2	38.7	68.0	61.9	50.8	38.7	37.1	61.0
Fouling Factor	m²K/kW		0.0	018	1		0.0	018			0.0	018	l
CONDENSER COIL						1							
Tube Type	100000000	Copper Tube			Copper Tube				Copper Tube				
Tube Size / Thickness	mm	0.35			0.35			0.35					
Fin Type / Thickness	mm		Aluminium Fin / 0.11mm			Aluminium Fin / 0.11mm			Aluminium Fin / 0.11mm				
Quantity (Number of Straight Coil)	Qty	2 4			2 4			2 4					
Number of Column/Coil			3		4		3		4		3		4
Fins per Inch		12			12			12					
Surface Area	m²	5.76	11.52	11.52	15.36	5.76	11.52	11.52	15.36	5,76	11.52	11.52	15.36
CONDENSER FAN													
Type / Drive	-	Axial / Direct				Axial / Direct				Axial / Direct			
Size	mm	800			800			Axiat / Direct					
Quantity / Unit		3	6	6	8	3	6	6	8	3	6	6	8
Motor kW / Each Design Motor Size	kW		2			100.000.000		5				4	L
Total Nominal Air Flow / Fan	m³/h				1.5			2.4					
Nominal Motor FLA / Each	Α	16,990			15,630 3.50			16,990					
UNIT DIMENSION		J	3.1				3.1						
Width	mm	1,146		2,237	was was	1,146		2,237		1,146		2,237	
	mm		3 242		4,163		3,263	3,263	4,163		3,263	3,263	A 162
Depth		3,282	3,263	3,263	4,103	3,282			4,103	3,282			4,163
Height Shinning Weight	mm	2,156			2,156 1,078 1,979 2,819 2,920			1.070	2,290				
Shipping Weight	kg	1,130	2,052	2,917	3,048	1,078				1,079	2,052	2,815	2,920
Operating Weight	kg	1,139	2,174	3,039	3,239	1,087	2,101	2,941	3,111	1,088	2,174	2,937	3,111

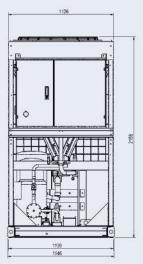
NOTES:

- $1. \ \ Nominal cooling capacity is based on the AHRI 551/591 Standard: 12/7^{\circ}C \ EWT \ and \ LWT, 35^{\circ}C \ ambient \ temperature.$
- $2. \ \ \, \text{Operation weight includes the weight of the water in the water-side heat exchanger}.$
- 3. For detailed technical data please refer to selection sheet.

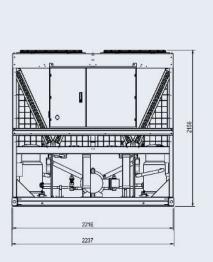
CHILLER OUTLINE

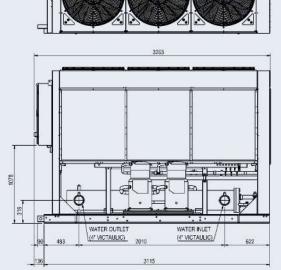
UAM40CFM

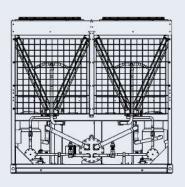




UAM60CFM

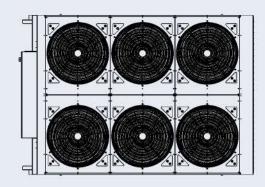


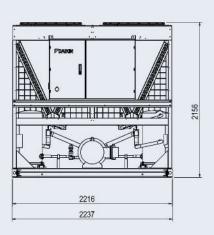


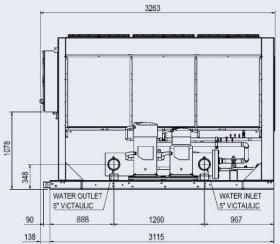


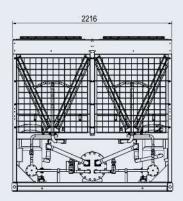
CHILLER OUTLINE

UAM80CFM

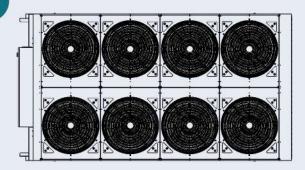


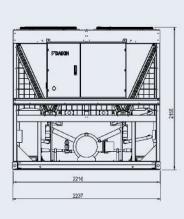


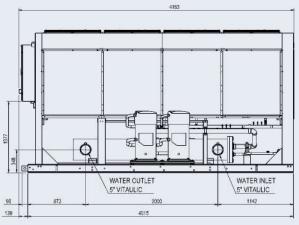


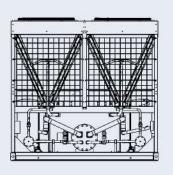


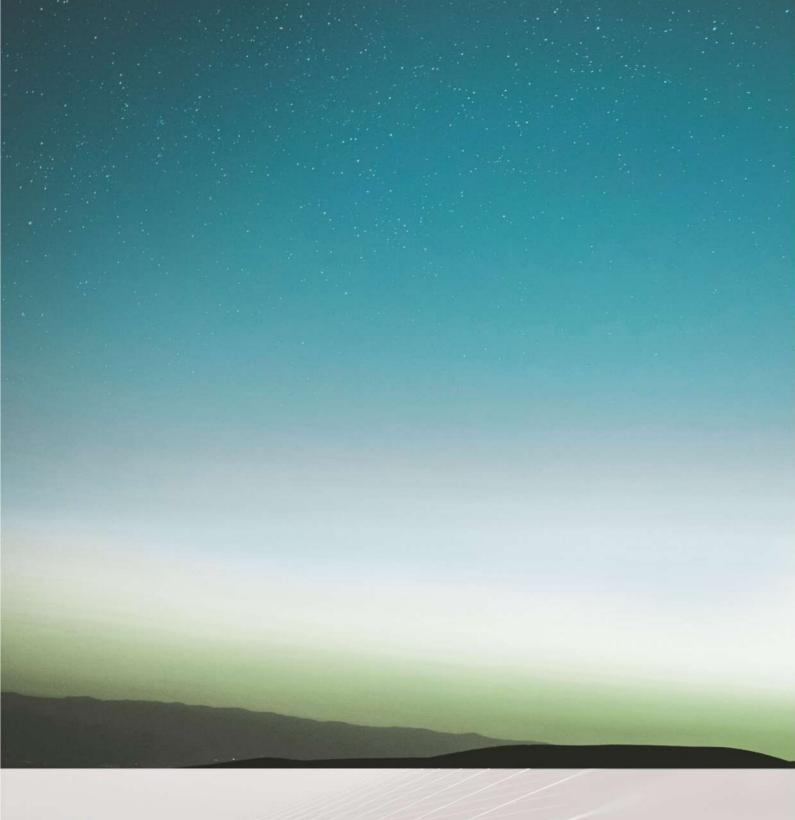
UAM100CFM













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