

# UAMV

HFC-R410a

20RT

AIR-COOLED VARIABLE SPEED SCROLL CHILLER



### OPTIMUM COOLING

PACKAGE AIR COOLED SCROLL INVERTER CHILLER WITH IMPROVED PART LOAD EFFICIENCY



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

Daikin continuously focuses on innovative product development and strives to deliver products beyond our customers' expectations.

Our UAMV series - the Air Cooled Scroll Variable Speed Chiller with a cooling capacity of 20RT [70.3kW] - utilizes the environmentally-sound HFC-R410A refrigerant. With the Variable Speed drive, the chiller can achieve very good Integral Part Load Value (IPLV) of 5.15kW/kW, far superior compared to a constant-speed drive chiller.

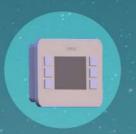
The UAMV offers good energy efficiency, ease of installation, control flexibility, high reliability, compact footprint and advanced control.

## BEST IN CLASS

CHILLER COMPONENTS



O CONDENSER COIL



HUMAN MACHINE INTERFACE (HMI)







BRAZED PLATE
HEAT EXCHANGER



O INVERTER SCROLL COMPRESSOR

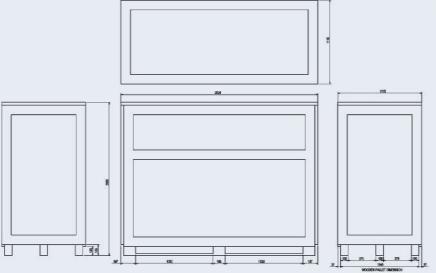


VARIABLE SPEED DRIVE IMPROVES PART LOAD EFFICIENCY

# BEING DIFFERENT IS BEING AHEAD

#### **KEY FEATURES**

COMPACT FOOTPRINT; LOGISTICAL ADVANTAGE

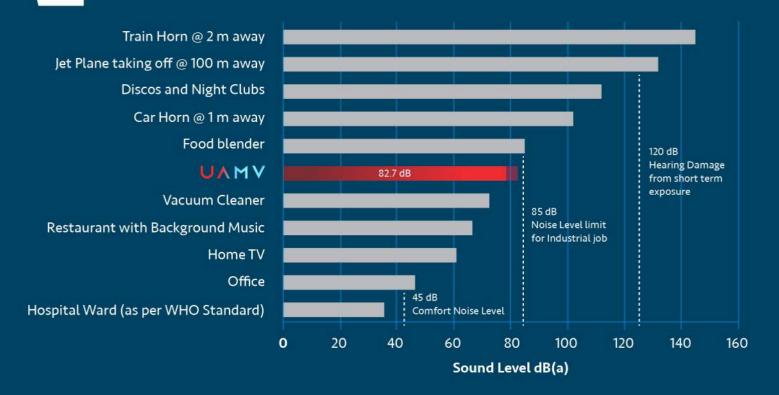


#### UMMV20

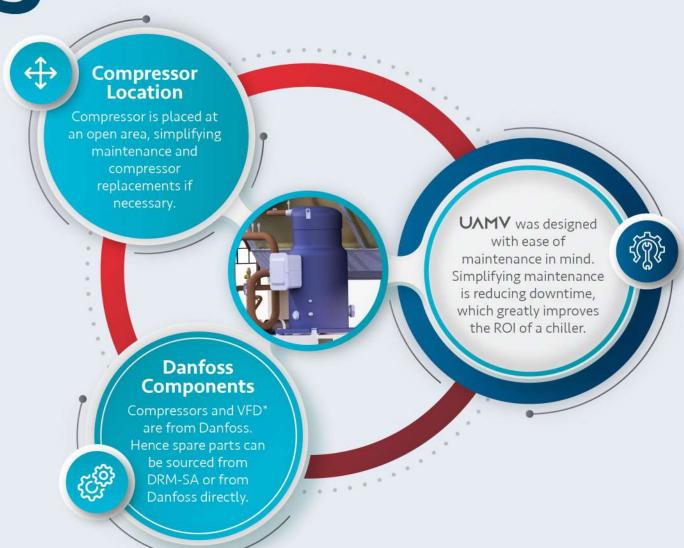
- L: 2460 mm W: 994mm H: 1810 mm
- UAMV only require standard height containers instead of High Cube Containers.
- UAMV can also be shipped as loose cargo (without oil and refrigerant charge)

	Quantity of Chillers		
	20ft Standard Container	40ft Standard Container	
UVWASO	2	4	

## D LOW NOISE LEVEL



## 3 EASE OF MAINTENANCE





# TEMPERATURE PROFILE & LEAVING WATER TEMPERATURE SETTING

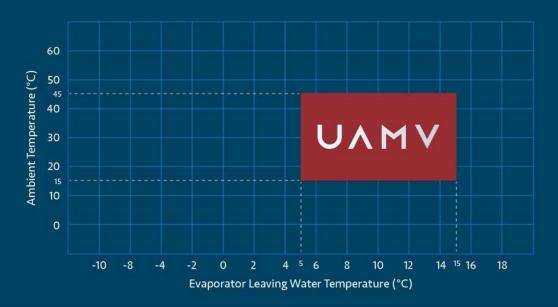
#### Temperature Profile

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

resistance against large variety of atmosphere

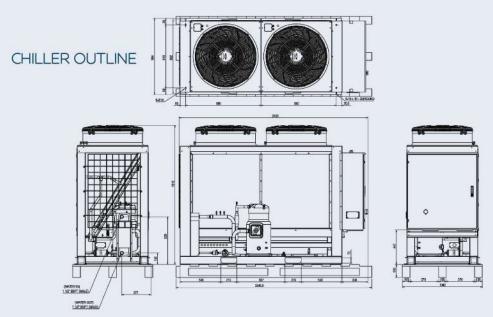
The workload of a Daikin water chiller is controlled by the Evaporator Leaving Water Temperature (ELWT) which can be set by using the equipment controller. By default, the ELWT is set to 7°C. It can be set from 5~15°C. Out of this range, some other parameters are needed to be changed as well. Please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





protects chiller's coil

### DETAILS MATTER



#### UAMV 20 50HZ TECHNICAL DATA

#### **MODEL UAMV 20**

Shipping Weight

Operating Weight

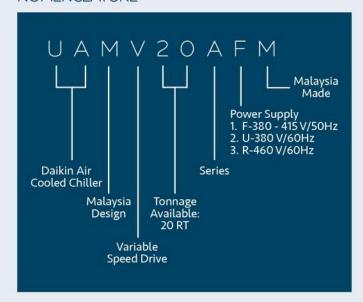
Naminal Faciling Canacity (D4304)	TR	20
Nominal Cooling Capacity (R410A)	kW	70.33
Device County	V/PH/HZ	
Power Supply	kW	380 -415 / 3N~ / 50 23.2
Nominal kW Input (Total) IPLV	KVV	5.145
COP	kW/kW	3.032
RLA (Total)	A	*Note 4 / Installation-Manua (Electrical Data)
Sound Level (Lw/Lp)	dB(A)	90.5/79.3
No of Refrigerant Circuit	Circuit	1
Unit Capacity Control	Steps	Stepless
Nominal Refrigerant Charge / Circuit	kg	21.5
COMPRESSOR		*****
Туре		Hermetic-sealed (Scroll)
Quantity / Unit		1
Max. Operating Current	A	61
Oil Charge	Litre	7.7
EVAPORATOR		
Туре		Plate Heat Exchanger
Water Connection Size	Type	1.25" BSPT Male
Nominal Water Flow Rate	m³/h	12.14
Nominal Water Pressure Drop	kPa	45.9
Fouling Factor	m²K/kW	0.018
CONDENSER COIL		
Tube Type		Copper Tube
Tube Size / Thickness	mm	0.35
Fin Type / Thickness	mm	Aluminium Fin / 0.11mm
Quantity (Number of Straight Coil)	Qty	2
Number of Column/Coil	-	3
Fins per Inch	-	14
Surface Area per Coil	m <sup>2</sup>	2.05
CONDENSER FAN		
Type / Drive	-	Axial / Direct
Size	mm	760
Quantity / Unit	2	2
Nominal Motor kW / Each	kW	0.9
Total Nominal Air Flow / Fan	m³/h	15200
Nominal Motor FLA / Each	А	2.4
UNIT DIMENSION		
Width	mm	994
Depth	mm	2,460
Height	mm	1.810

kg

kg

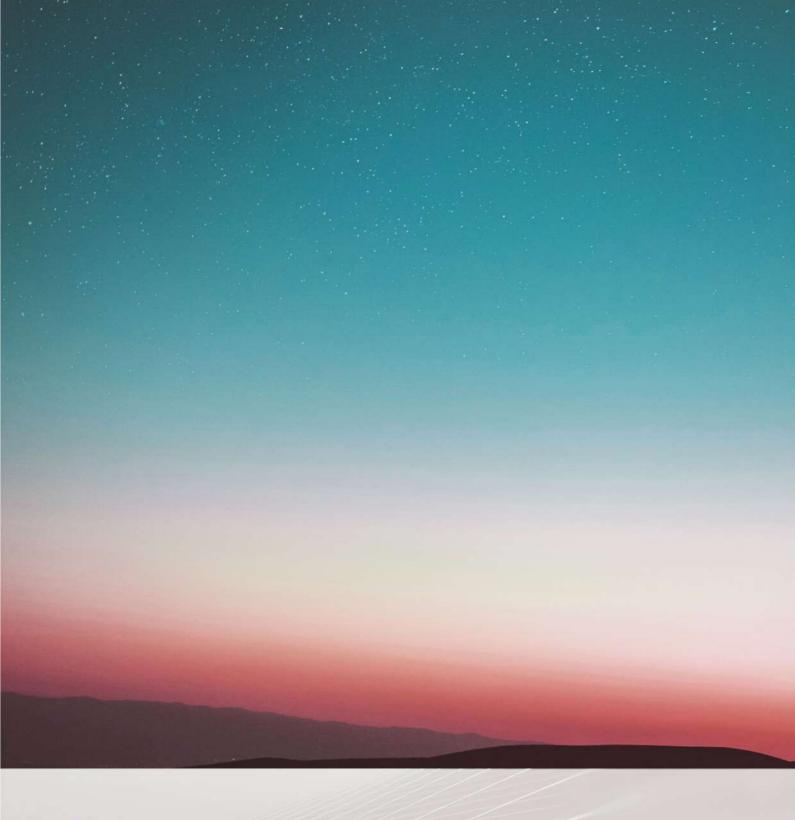
590 595

#### NOMENCLATURE



#### CONTAINER ARRANGEMENT

Quantity of Container			
20ft GP Container	40ft GP Container	Loose Cargo (Without Refrigerant Charge)	
4	8	Available upon request	





#### Daikin Refrigeration Malaysia Sdn. Bhd. (Shah Alam)

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