

# Nordic KH Series

ASYG09KHCA / AOYG09KHCA  
 ASYG12KHCA / AOYG12KHCA  
 ASYG14KHCA / AOYG14KHCA



## Powerful heating capacity even during low ambient temperature

Heating capacity at low ambient temperatures is greatly enhanced due to large heat exchanger volume and large cross-flow fan on indoor unit.



#### Anti-freezing technologies

**Steel material & Wide opening structure**  
 Avoid freezing easily

**Wide machinery space**  
 Preventing the contact of each part even when freezing

**Base heater**  
 Enough capacity of the heater and its best layout

**Anti-freezing parts**  
 Wire and electronic parts under low ambient temperature correspondence

#### High performance technologies

**High efficiency large heat exchanger**

**High performance DC twin rotary compressor**



Max. Heating Capacity

**7.2kW** (138% of KMCB model's)<sup>\*1</sup>  
 Powerful heating!

Keeps rated heating capacity even

at **-15°C**  
 outdoor temperature<sup>\*2</sup>

Corresponds to heating operation

at **-25°C**  
 outdoor temperature.<sup>\*2</sup>

\*1 : 09 model  
 \*2 : All models



## Adopting new refrigerant R32

R32 refrigerant is highly environmentally friendly for the reduction of the global warming potential than other refrigerant.



Amount of refrigerant

**-21%**

(Compared with previous 14model (R410A).)



## High Energy Saving

New KH models of 09 class achieved top rank A+++ seasonal efficiency for both heating and cooling.

09 class



## Smart Device Control (Option)

Easy air conditioner control from inside or outside the house and office using the Smartphones, Tablets, and PC.

#### Wireless LAN Interface

The exclusive Wi-Fi adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

You can make comfortable living space by turning on air conditioner before coming home.

It's economic that you can turn off air conditioner from outside even if forgetting to turn off air conditioner.



Model : ASYG09KHCA / ASYG12KHCA / ASYG14KHCA  
AOYG09KHCAN / AOYG12KHCAN / AOYG14KHCAN



Wireless RC



ASYG09 / 12 / 14KHCA



AOYG09 / 12 / 14KHCAN

## Optional parts

Wired Remote Controller : UTY-RVNYM, UTY-RNNYM

Simple Remote Controller : UTY-RSNYM

Communication Kit : UTY-TWBXF1

External Connect Kit : UTY-XWZXZ5

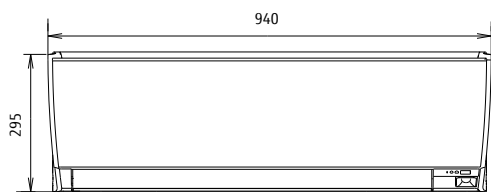
Wireless LAN Interface : UTY-TFNXZ1

## Dimensions

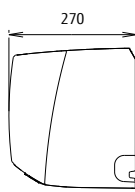
Indoor unit : ASYG09 / 12 / 14KHCA

Outdoor Unit : AOYG09 / 12 / 14KHCAN

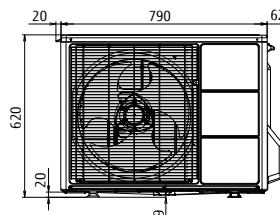
(Unit : mm)



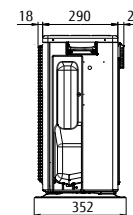
Front view



Side view



Front view



Side view

## Specifications

Model name		Indoor unit		ASYG09KHCA	ASYG12KHCA	ASYG14KHCA	
		Outdoor unit		AOYG09KHCAN	AOYG12KHCAN	AOYG14KHCAN	
Power Source				single phase / 230V / 50Hz			
Capacity	Cooling	kW	2.5 (0.9 - 4.65)			3.5 (0.9 - 4.8)	4.2 (0.9 - 5.5)
	Heating		3.2 (0.9 - 7.2)			4.0 (0.9 - 7.4)	5.4 (0.9 - 8.2)
Input Power	Cooling / Heating	kW	0.450 / 0.580			0.760 / 0.790	0.980 / 1.160
EER	Cooling	W/W	5.56			4.61	4.29
COP	Heating		5.52			5.06	4.66
Pdesign	Cooling / Heating (-10°C)	kW	2.50 / 2.50			3.50 / 3.50	4.20 / 4.20
SEER	Cooling	W/W	9.36			9.06	8.36
	Heating (Average)		5.21			4.89	4.86
Energy Efficiency Class	Cooling	A+++			A+++	A++	
	Heating (Average)	A+++			A++	A++	
Max. Operating Current	Cooling / Heating	A	6.5 / 10.5			7.5 / 11.0	9.0 / 11.5
Annual Energy Consumption	Cooling	kWh/a	93			135	176
	Heating		671			1,001	1,209
Moisture Removal		l/h	1.0			1.1	1.7
Sound Pressure Level	Indoor (Cooling)	H / M / L / Q	42 / 37 / 33 / 23			42 / 37 / 33 / 23	45 / 40 / 35 / 26
	Indoor (Heating)	H / M / L / Q	41 / 35 / 31 / 23			41 / 35 / 31 / 23	44 / 39 / 33 / 27
	Outdoor (Cooling / Heating)	High	43 / 42			47 / 45	53 / 47
Sound Power Level	Indoor (Cooling / Heating)	High	57 / 57			57 / 57	60 / 60
	Outdoor (Cooling / Heating)	High	56 / 55			60 / 58	65 / 60
Airflow Rate	Indoor / Outdoor (Cooling)	High	830 / 1,810			830 / 2,050	900 / 2,460
	Indoor / Outdoor (Heating)	High	830 / 1,550			830 / 1,780	900 / 1,780
Dimensions H × W × D	Indoor	mm	295×940×270			295×940×270	295×940×270
	Outdoor		620×790×290			620×790×290	620×790×290
Net Weight	Indoor	kg (lbs)	14 (31)			14 (31)	14 (31)
	Outdoor		36 (79)			36 (79)	36 (79)
Connection Pipe Diameter (Liquid / Gas)		mm	φ6.35 / φ9.52			φ6.35 / φ9.52	φ6.35 / φ9.52
Drain hose Diameter (I.D. / O.D.)			φ13.8 / φ15.8 to Ø16.7			φ13.8 / φ15.8 to Ø16.7	φ13.8 / φ15.8 to Ø16.7
Max Pipe Length (Pre - Charge)			20 (15)			20 (15)	20 (15)
Max Height Difference		m	15			15	15
Operation Range	Cooling	°CDB	-10 to 46			-10 to 46	-10 to 46
	Heating		-25 to 24			-25 to 24	-25 to 24
Refrigerant	Type (Global Warming Potential)		R32 (675)			R32 (675)	R32 (675)
	Charge	kg(CO2eq-T)	1.10			1.10	1.10

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

\*Specifications and design are subject to change without notice for further improvement.

\*Actual products' colors may be different from the colors shown in this printed material.

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