

# Specifications



## Big Ceiling R32 NEW

- Vertical or horizontal installation.
- Air supply by means of one adjustable blade; Blade angle between 4° and 45°.

- Reduced noise thanks to the remotely controlled EEV valve.
- Long-life washable HD 40 permanent filter is included.

Indoor Unit		AC100RNC DKG/EU	AC120RNC DKG/EU	AC140RNC DKG/EU
Outdoor Unit- Mono-Phase		AC100RXADKG/EU	AC120RXADKG/EU	AC140RXADKG/EU
Outdoor Unit- Tri-Phase		AC100RXADNG/EU	AC120RXADNG/EU	AC140RXADNG/EU
<b>Capacity</b>				
Cooling (Min/Nominal/Max)	kW	3.0 / 10.0 / 12.0	3.0 / 12.0 / 13.5	3.5 / 13.4 / 15.5
Heating up to +7°C (Min/Nominal/Max)	kW	3.0 / 12.0 / 13.5	3.0 / 12.0 / 13.5	3.5 / 15.5 / 18.0
Heating @ -5°C	kW	11.0	12.9	15.2
Heating @ -15°C	kW	9.7	11.5	13.5
<b>Performance</b>				
Energy Efficiency	SEER	W/W 6.1 / A++	5.9 / A+	6.1
Cooling	Consumption	kWh/a 574	TBD	-
	Pdesignc	kW 10.0	TBD	-
	EER	W/W 3.05	2.76	2.97
	SCOP	W/W 4.0 / A+	4.0 / A+	4.0
Heating	Consumption	kWh/a 1820	TBD	-
	Pdesignh (average)	kW 5.2	6.5	-
	COP	W/W 3.44	3.44	3.41
	AirFlow Rate	Indoor Unit (High/Mid/Low)	m <sup>3</sup> /min 26.0 / 23.0 / 19.0	26.0 / 23.0 / 19.0
Sound Power	Indoor Unit	dB(A) 60	62	64
	Outdoor Unit	dB(A) 69	70	69
Sound Pressure	Indoor Unit (Silent/Low/Mid/High)	dB(A) 34 / 38 / 42	37 / 41 / 44	38 / 42 / 48
	Outdoor Unit	dB(A) 52 / 54	54 / 56	53 / 54
Fan/ Outdoor unit	Type	Sirocco	Sirocco	Sirocco
	Power	W 244	244	244
	Number	EA 4	4	4
External Static Pressure	Min / Std / Max	Pa		
Operating Temp. Range	Cooling	°C -15 ~ 50	-15 ~ 50	-15 ~ 50
	Heating	°C -20 ~ 24	-20 ~ 24	-20 ~ 24
<b>Electrical Data</b>				
Power Source	Indoor Unit	V / Hz / Ø / # 220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2
	Outdoor Unit 1P	V / Hz / Ø / # 220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2
	Outdoor Unit 3P	V / Hz / Ø / # 380-415/ 50/ 3/ 4	380-415/ 50/ 3/ 4	380-415/ 50/ 3/ 4
Compressor Type	Outdoor Unit	Type Twin BLDC	Twin BLDC	Twin BLDC
	Power (Min/Nominal/Max)	Cooling kW 0.60 / 3.28 / 4.70	0.90 / 4.35 / 5.30	0.80 / 4.50 / 6.45
Current Input	Heating kW 0.46 / 3.25 / 5.40	0.70 / 3.83 / 5.60	0.70 / 4.54 / 7.36	
	Cooling (Min/Std/Max) A 3.0 / 14.6 / 20.4	5.1 / 19.1 / 24.0	3.7 / 19.7 / 28.0	
	Heating (Min/Std/Max) A 2.5 / 14.2 / 23.0	3.9 / 17.0 / 26.0	3.5 / 19.8 / 32.0	
	Cooling- Tri-Phase (Min/Std/Max) A 1.5 / 5.0 / 7.1	1.7 / 6.6 / 10.0	2.1 / 7.0 / 10.5	
Heating- Tri-Phase (Min/Std/Max) A 1.2 / 5.1 / 8.4	1.5 / 6.2 / 12.0	1.9 / 7.0 / 12.0		
<b>Dimensions</b>				
Net Dimensions (W x H x D)	Indoor Unit	mm 1650 x 235 x 675	1650 x 235 x 675	1650 x 235 x 675
	Outdoor Unit	mm 940 x 998 x 330	940 x 998 x 330	940 x 1210 x 330
Net Weight	Indoor Unit	kg 42.0	42.0	41.5
	Outdoor Unit	kg 75.0	81.0	91.5
<b>Refrigerant</b>				
Refrigerant	Type	R32(Contains fluorinated greenhouse gases. GWP=675)		
Factory charging	kg	2.7 / 30m	2.7 / 30m	2.9 / 30m
Charging Ton equivalent CO2	tCO2e	1.82 tCO2e	1.82 tCO2e	1.96 tCO2e
Additional refrigerant charging	g / m	50	50	50
Piping Connections	Liquid Pipe	Ø.inch 3 / 8	3 / 8	3 / 8
	Gas Pipe	Ø.inch 5 / 8	5 / 8	5 / 8
Piping Length	Min/ Max	m 50	50	75
Piping Height	Max	m 30	30	30
Piping Connections	Drain pipe	Ø.mm VP25 (OD32.ID25)	VP25 (OD32.ID25)	VP25 (OD32.ID25)

## Big Ceiling (R410A)



Indoor Unit		AC100MNC DKH/EU	AC120MNC DKH/EU	AC140MNC DKH/EU	AC160JNC DEH/EU
Outdoor Unit- Mono-Phase		AC100MXADKH/EU	AC120MXADKH/EU	AC140MXADKH/EU	-
Outdoor Unit- Tri-Phase		AC100MXADNH/EU	AC120MXADNH/EU	AC140MXADNH/EU	AC160JXADGH/EU
<b>Capacity</b>					
Cooling (Min/Nominal/Max)	kW	3.00 / 10.00 / 12.00	3.50 / 12.00 / 13.50	3.50 / 13.40 / 15.50	4.30 / 15.00 / 17.30
Heating up to +7°C (Min/Nominal/Max)	kW	2.20 / 11.20 / 15.50	3.80 / 13.00 / 16.50	3.50 / 15.50 / 18.00	4.70 / 17.50 / 19.00
Heating @ -5°C	kW	10.98	12.74	15.19	-
Heating @ -15°C	kW	9.74	11.31	13.49	-
<b>Performance</b>					
Energy Efficiency	SEER	W/W 5.8 / A+	5.7 / A+	-	-
Cooling	Consumption	kWh/a 603	737	-	-
	Pdesignc	kW 10.0	12.0	-	-
	EER	W/W 2.94	2.61	3.01	2.84
	SCOP	W/W 4.0 / A+	4.1 / A+	-	-
Heating	Consumption	kWh/a 1820	2527	-	-
	Pdesignh (average)	kW 5.2	7.4	-	-
	COP	W/W 3.5	3.42	3.41	3.6
	AirFlow Rate	Indoor Unit (High/Mid/Low)	m <sup>3</sup> /min 26.0 / 23.0 / 19.0	30.0 / 24.0 / 20.0	34.0 / 27.0 / 23.0
Sound Power	Indoor Unit	dB(A) 60	62	64	68
	Outdoor Unit	dB(A) 69	70	69	-
Sound Pressure	Indoor Unit (Silent/Low/Mid/High)	dB(A) 34 / 38 / 42	37 / 41 / 44	38 / 42 / 46	44 / 47 / 51
	Outdoor Unit	dB(A) 52 / 54	54 / 56	53 / 54	56.0 / 58.0
Fan/ Outdoor unit	Type	Sirocco	Sirocco	Sirocco	Sirocco
	Power	W 244	244	244	244
	Number	EA 4	4	4	4
External Static Pressure	Min / Std / Max	Pa			
Operating Temp. Range	Cooling	°C -15 ~ 50	-15 ~ 50	-15 ~ 50	-15~50
	Heating	°C -20 ~ 24	-20 ~ 24	-20 ~ 24	-20~24
<b>Electrical Data</b>					
Power Source	Indoor Unit	V / Hz / Ø / # 220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2
	Outdoor Unit 1P	V / Hz / Ø / # 220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2	220-240/ 50/ 1/ 2
	Outdoor Unit 3P	V / Hz / Ø / # 380-415/ 50/ 3/ 4	380-415/ 50/ 3/ 4	380-415/ 50/ 3/ 4	380-415/ 50/ 3/ 4
Compressor Type	Outdoor Unit	Type Twin BLDC	Twin BLDC	Twin BLDC	Twin BLDC
	Power (Min/Nominal/Max)	Cooling kW 0.60 / 3.40 / 4.70	0.90 / 4.60 / 5.50	0.80 / 4.45 / 6.44	0.90 / 5.28 / 6.40
Current Input	Heating kW 0.46 / 3.20 / 5.40	0.70 / 3.80 / 5.60	0.70 / 4.54 / 7.36	0.80 / 4.86 / 6.50	
	Cooling (Min/Std/Max) A 3.0 / 14.6 / 20.4	5.1 / 20.4 / 23.5	3.7 / 20.0 / 28.0	-	
	Heating (Min/Std/Max) A 2.5 / 14.2 / 23.0	3.9 / 17.1 / 22.8	3.5 / 19.5 / 32.0	-	
	Cooling- Tri-Phase (Min/Std/Max) A 1.50 / 5.30 / 7.10	1.70 / 7.20 / 9.50	2.10 / 7.00 / 12.00	1.70 / 8.20 / 9.80	
Heating- Tri-Phase (Min/Std/Max) A 1.20 / 4.90 / 8.40	1.50 / 5.90 / 9.10	1.90 / 7.00 / 12.00	1.70 / 7.50 / 10.00		
<b>Dimensions</b>					
Net Dimensions (W x H x D)	Indoor Unit	mm 1650 x 235 x 675	1650 x 235 x 675	1650 x 235 x 675	1650 x 235 x 675
	Outdoor Unit	mm 940 x 998 x 330	940 x 998 x 330	940 x 1210 x 330	940 x 1420 x 330
Net Weight	Indoor Unit	kg 41.4	41.4	41.4	42.0
	Outdoor Unit	kg 72.0	77.0	87.0	96.0
<b>Refrigerant</b>					
Refrigerant	Type	R410A(Contains fluorinated greenhouse gases. GWP=2.088)			
Factory charging	kg	3.0	3.0	3.4	3.5
Charging Ton equivalent CO2	tCO2e	6.26 tCO2e	6.26 tCO2e	7.1 tCO2e	7.31 tCO2e
Additional refrigerant charging	g / m	50	50	50	50
Piping Connections	Liquid Pipe	Ø.inch 3 / 8	3 / 8	3 / 8	3 / 8
	Gas Pipe	Ø.inch 5 / 8	5 / 8	5 / 8	5 / 8
Piping Length	Min/ Max	m 50	50	75	75
Piping Height	Max	m 30	30	30	30
Piping Connections	Drain pipe	Ø.mm VP25 (OD 32.ID 25)	VP25 (OD 32.ID 25)	VP25 (OD 32.ID 25)	OD 25 / ID 20