



# Samsung Underceiling R410 Inverter

AC052 · AC071 · AC100 · AC140 & AC160

- Samsung quality with Inverter efficiency
- 5 Models: AC100 to AC160
- Max. cooling: 17.3kW/max. heating 19.00kW (AC 160 model)
- Airflow rate up to 34 CMM
- Max. piping length indoor to outdoor 75m
- Samsung quality, backed nationwide by Fourways Airconditioning

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**SAMSUNG**

# Samsung Underceiling Range - R410A Inverter

AC052, AC071, AC100, AC120, AC140 & AC160

With its sleek elegant new design, the high-powered Samsung Underceiling range blends in with any décor. Inverter efficiency and an A+ Energy Grade (Cooling) ensures maximum electricity savings. Ideal for boardrooms, conference rooms, hotel lobbies and other commercial applications, an indoor-to-outdoor piping length of up to 75 metres allows for convenient placement of outdoor unit. As with all Samsung airconditioners, the new Underceiling range is backed nationwide by Fourways Airconditioning, with branches in all major metropolitan areas.



## Specifications

Model Code	Indoor	AC052MNC DKH/EU	AC071MNC DKH/EU	AC100MNC DKH/EU	AC100MNC DKH/EU
	Outdoor	AC052MXADKH/EU	AC071MXADKH/EU	AC100MXADKH/EU	AC100MXADNH/EU
System	Mode	Heat Pump	Heat Pump	Heat Pump	Heat Pump
Capacity	Cooling (Min / Std / Max) [kW]	1.70/5.00/5.60	2.20/7.10/8.00	3.00/10.00/12.00	3.00/10.00/12.00
	Cooling (Min / Std / Max) [Btu/h]	5,800 / 17,100 / 19,100	7,500 / 24,200 / 27,300	10,200 / 34,100 / 40,900	10,200 / 34,100 / 40,900
	Heating (Min / Std / Max) [kW]	1.70/6.00/7.70	1.90/8.00/9.00	2.20/11.20/15.50	2.20/11.20/15.50
	Heating (Min / Std / Max) [Btu/h]	5,800 / 20,500 / 26,300	6,500 / 27,300 / 30,700	7,500 / 38,200 / 52,900	7,500 / 38,200 / 52,900
Power Input (Nominal)	Cooling (Min / Std / Max) [kW]	0.48/1.64/1.90	0.35/2.93/3.95	0.60/3.40/4.70	0.60/3.40/4.70
	Heating (Min / Std / Max) [kW]	0.43/1.78/3.05	0.35/2.92/3.95	0.46/3.20/5.40	0.46/3.20/5.40
Energy Efficiency	EER (Nominal Cooling) [W/W]	3.05	2.42	2.94	2.94
	COP (Nominal Heating) [W/W]	3.37	2.74	3.50	3.50
	SEER	6.10	5.60	5.80	5.80
Piping Connections	Installation Max. Length [m]	30	50	50	50
	Installation Max. Height [m]	20	30	30	30
Refrigerant	Type	R410A	R410A	R410A	R410A
Power Supply [Indoor Unit] [Φ, #, V, Hz]		1Φ, 2, 220-240V, 50Hz	1Φ, 2, 220-240V, 50Hz	1Φ, 2, 220-240V, 50Hz	1Φ, 2, 220-240V, 50Hz
Fan	Air Flow Rate (High / Mid / Low) [CMM]	12.6/11.3/10.0	15.2/14.1/13.1	26.0/23.0/19.0	26.0/23.0/19.0
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	41/39/36	46/44/42	42/38/34	42/38/34
	Sound Power (Cooling) [dB(A)]	60	64	60	60
External Dimension (Indoor Unit)	Net Weight (kg)	20.0	20.0	41.4	41.4
	Net Dimensions (WxHxD) [mm]	1000 x 200 x 650	1000 x 200 x 650	1650 x 235 x 675	1650 x 235 x 675
Power Supply [Outdoor Unit] [Φ, #, V, Hz]		1Φ, 2, 220-240V, 50Hz	1Φ, 2, 220-240V, 50Hz	1Φ, 2, 220-240V, 50Hz	3Φ, 4, 380-415V, 50Hz
Fan	Air Flow Rate (Cooling) [CMM]	40	51	78	78
Sound	Sound Pressure (Cooling/Heating) [dB(A)]	48/48	49/51	52/54	52/54
	Sound Power (Cooling) [dB(A)]	62	65	69	69
External Dimension (Outdoor Unit)	Net Weight (kg)	43.8	53.0	72.0	72.0
	Net Dimensions (WxHxD) [mm]	880 x 638 x 310	880 x 798 x 310	940 x 998 x 330	940 x 998 x 330
Operating Temp. Range	Cooling [°C]	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
	Heating [°C]	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24

Model Code	Indoor	AC140MNC DKH/EU	AC140MNC DKH/EU	AC160JNCDEH/EU
	Outdoor	AC140MXADKH/EU	AC140MXADNH/EU	AC160JXADGH/EU
System	Mode	Heat Pump	Heat Pump	Heat Pump
Capacity	Cooling (Min / Std / Max) [kW]	3.50/13.40/15.50	3.50/13.40/15.50	4.30/15.00/17.30
	Cooling (Min / Std / Max) [Btu/h]	11,900 / 45,700 / 52,900	11,900 / 45,700 / 52,900	14,700/51,200/59,000
	Heating (Min / Std / Max) [kW]	3.50/15.50/18.00	3.50/15.50/18.00	4.70/17.50/19.00
	Heating (Min / Std / Max) [Btu/h]	11,900 / 52,900 / 61,400	11,900 / 52,900 / 61,400	16,000/59,700/64,800
Power Input (Nominal)	Cooling (Min / Std / Max) [kW]	0.80/4.45/6.44	0.80/4.45/7.90	0.90/5.28/6.40
	Heating (Min / Std / Max) [kW]	0.70/4.54/7.36	0.70/4.54/7.90	0.80/4.86/6.50
Energy Efficiency	EER (Nominal Cooling) [W/W]	3.01	3.01	2.84
	COP (Nominal Heating) [W/W]	3.41	3.41	3.60
	SEER	3.00	3.00	-
Piping Connections	Installation Max. Length [m]	75	75	75
	Installation Max. Height [m]	30	30	30.0
Refrigerant	Type	R410A	R410A	R410A
Power Supply [Indoor Unit] [Φ, #, V, Hz]		1Φ, 2, 220-240V, 50Hz	1Φ, 2, 220-240V, 50Hz	1,2,220-240,50
Fan	Air Flow Rate (High / Mid / Low) [CMM]	34.0/27.0/23.0	34.0/27.0/23.0	37.00/31.00/26.00
Sound	Sound Pressure (High / Mid / Low) [dB(A)]	46/42/38	46/42/38	51.0 / 47.0 / 44.0
	Sound Power (Cooling) [dB(A)]	64	64	68.0
External Dimension (Indoor Unit)	Net Weight (kg)	41.4	41.4	42.00
	Net Dimensions (WxHxD) [mm]	1650 x 235 x 675	1650 x 235 x 675	1650 x 675 x 235
Power Supply [Outdoor Unit] [Φ, #, V, Hz]		1Φ, 2, 220-240V, 50Hz	3Φ, 4, 380-415V, 50Hz	3,4,380-415,50
Fan	Air Flow Rate (Cooling) [CMM]	111	111	115.00
Sound	Sound Pressure (Cooling/Heating) [dB(A)]	53/54	53/54	56.0 / 58.0
	Sound Power (Cooling) [dB(A)]	69	69	73.0
External Dimension (Outdoor Unit)	Net Weight (kg)	87.0	87.0	96.00
	Net Dimensions (WxHxD) [mm]	940 x 1210 x 330	940 x 1210 x 330	940 x 1420 x 330
Operating Temp. Range	Cooling [°C]	-15 ~ 50	-15 ~ 50	-15-50
	Heating [°C]	-20 ~ 24	-20 ~ 24	-20-24

Due to Samsung's policy of constant improvement, specifications are subject to change without notice. E&OE.

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Gauteng: (011) 704-6320  
 Pretoria: (012) 643-0445  
 Bloemfontein: 083 381 0074  
 George: 082 380 0708

Cape Town: (021) 556-8292  
 KZN: (031) 579-1895  
 Port Elizabeth: (041) 484-6413  
 East London: (043) 722-0671

