



R32 INVERTER CASSETTE Reverse Cycle	
INDOOR	OUTDOOR
AUTG30KRLA	AOTG30KBTA



TECHNICAL SPECIFICATIONS

Capacity	Cooling	Rated	kW	8.5
		Range	kW	2.80 — 10.00
	Heating	Rated	kW	10.0
		Range	kW	2.70 — 11.20
Input	Cooling		kW	2.39
	Heating		kW	2.62
Current	Cooling		A	10.0
	Heating		A	11.0
Max Running Current	Cooling ⁽¹⁾		A	17.0
	Heating		A	17.0
Starting Current			A	17.8
EER (Cooling)				3.55
AEER				3.749
COP (Heating)				3.81
ACOP				3.872
Moisture Removal			l/h	2.5
Air Circulation	Indoor (High Fan)		l/s	444
	Outdoor		l/s	1,639
Power Supply	Outdoor		240V - 1Ph - 50Hz	
Sound Pressure Level	Indoor (High Fan)		dB	40
	Outdoor		dB	53
Sound Power Level	Outdoor		dB	68
Weight (Net)	Indoor		Kg	27.5
	Outdoor		Kg	61.0
Dimensions HxWxD (mm)	Indoor		288 x 840 x 840	
	Outdoor		830 x 900 x 330	
Connection Pipe Sizes	Liquid		mm	9.52
	Gas		mm	15.88
Drain Pipe Sizes	Internal		mm	
	External		mm	Ø 13.0 (I.D.)

¹ = The maximum current is the maximum value when operated within the operation range.



Cooling/Heating capacities are based on the following conditions (AS3823).

Cooling

Indoor temp : 27°C DB / 19°CWB
Outdoor temp : 35°C DB / 24°C WB

Heating

Indoor temp : 20°C DB / 15°C WB
Outdoor temp : 7°C DB / 6°C WB

Running current is at rated conditions (AS3823) and does not include compressor start-up or variations in power supply and load conditions.

All wiring specifications are minimum recommendations. Please consult AS/NZS 3000 and your local wiring rules for clarification of cable and circuit requirements.

Suitable access for warranty & service is required.

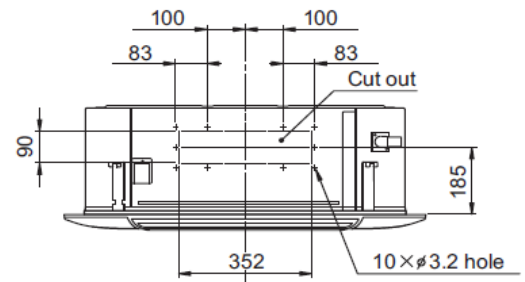
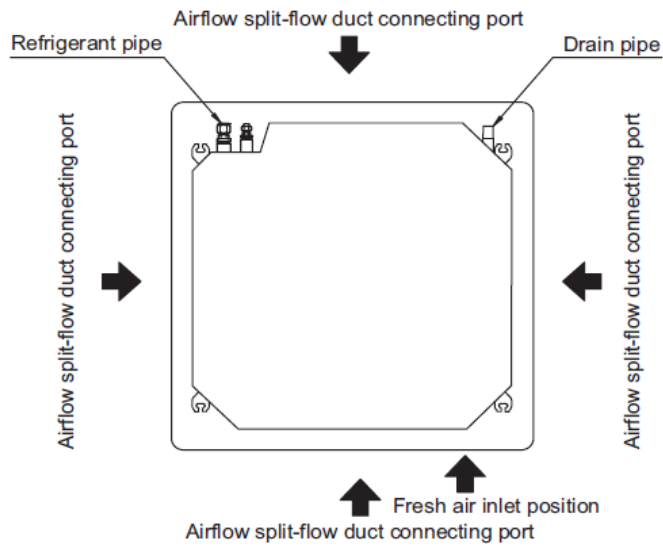
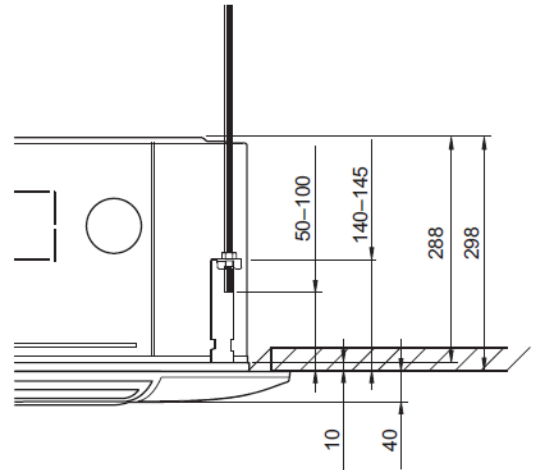
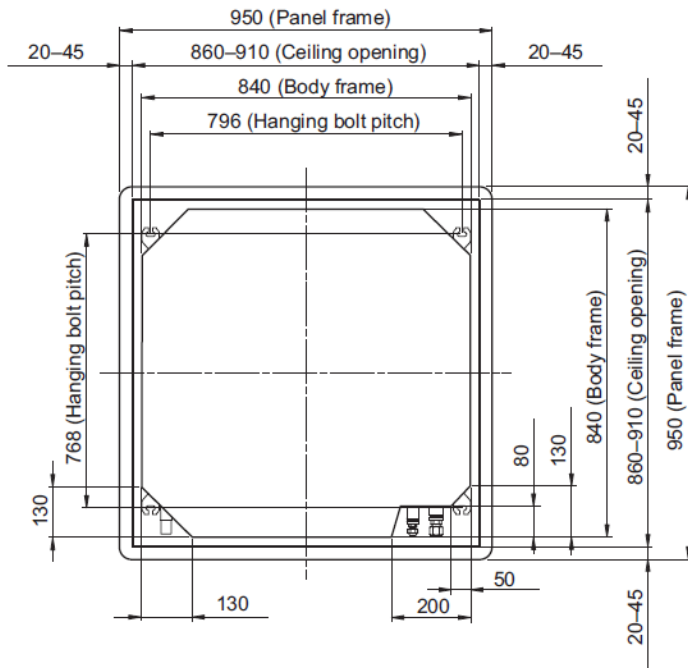
SOUND POWER LEVELS measured in accordance to AS1217.

Specifications and design are subject to change without notice. Please check with your dealer.

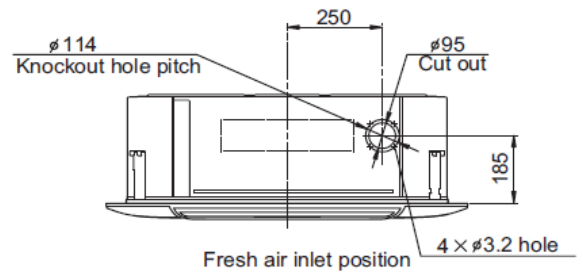
Dimensions

Indoor Unit

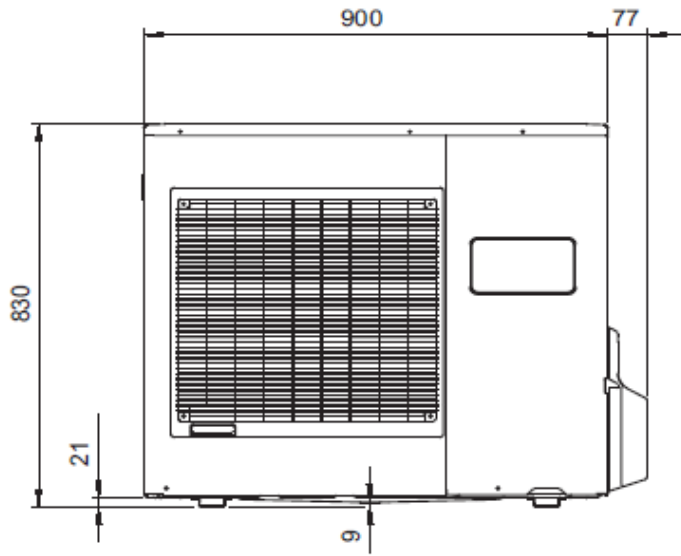
Unit: mm



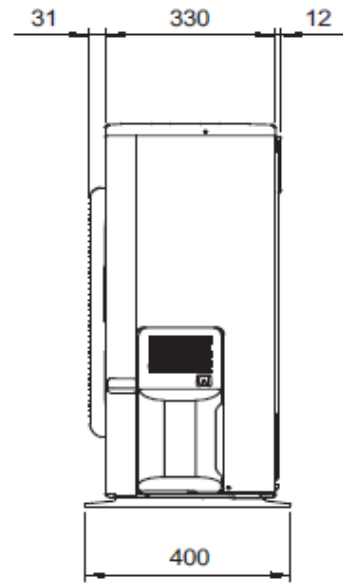
Detailed diagram of branched duct connecting port (4 sides)



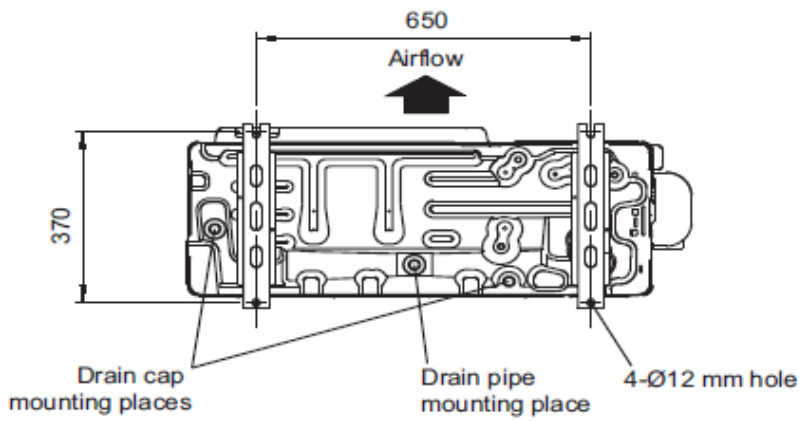
Outdoor Unit



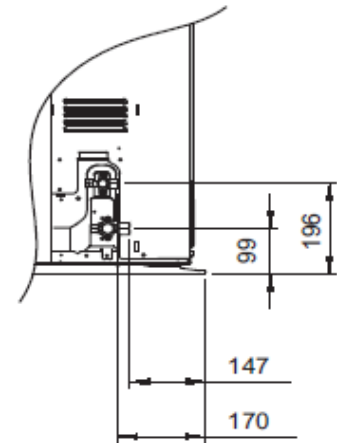
Front view



Side view



Bottom view



Technical Data

PI = Power Input (kW)

SHC = Sensible Heat Capacity (kW)

TC = Total Capacity (kW)

Cooling Capacity

Air Flow Rate 1600 m³/h

		Indoor temperature																				
		18			21			23			25			27			29			32		
		12			15			16			18			19			21			23		
Outdoor temperature	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
	°CWB	kW			kW			kW			kW			kW			kW			kW		
	-15	8.67	6.58	0.98	9.66	6.62	1.00	9.99	7.20	1.00	10.65	7.22	1.01	10.98	7.80	1.02	11.64	7.77	1.03	12.30	8.28	1.04
	-10	8.52	6.38	1.02	9.50	6.42	1.04	9.82	6.98	1.04	10.47	7.00	1.05	10.79	7.56	1.06	11.44	7.53	1.07	12.08	8.02	1.08
	0	8.12	6.26	1.09	9.05	6.30	1.11	9.35	6.85	1.12	9.97	6.87	1.13	10.28	7.42	1.13	10.90	7.39	1.15	11.51	7.87	1.16
	5	7.99	6.10	1.16	8.91	6.14	1.18	9.21	6.67	1.19	9.82	6.69	1.20	10.12	7.23	1.21	10.73	7.20	1.22	11.33	7.67	1.23
	10	7.96	6.19	1.24	8.86	6.23	1.25	9.16	6.77	1.26	9.77	6.80	1.27	10.07	7.34	1.28	10.67	7.31	1.29	11.28	7.79	1.31
	15	8.63	6.48	1.71	9.62	6.52	1.73	9.95	7.09	1.74	10.60	7.11	1.76	10.93	7.68	1.77	11.59	7.65	1.79	12.24	8.15	1.81
	20	9.82	7.03	2.18	10.94	7.07	2.21	11.31	7.69	2.23	12.06	7.71	2.25	12.43	8.33	2.26	13.18	8.30	2.28	13.92	8.84	2.31
	25	9.48	6.89	2.45	10.56	6.93	2.49	10.92	7.53	2.50	11.64	7.56	2.53	12.00	8.16	2.54	12.72	8.13	2.57	13.44	8.66	2.59
	30	8.81	6.69	2.85	9.81	6.73	2.89	10.15	7.32	2.91	10.82	7.34	2.94	11.15	7.93	2.95	11.82	7.90	2.98	12.49	8.41	3.01
35	7.90	6.12	3.05	8.80	6.16	3.10	9.10	6.69	3.11	9.70	6.71	3.15	10.00	7.25	3.16	10.60	7.22	3.19	11.20	7.69	3.22	
40	6.16	5.13	2.84	6.86	5.16	2.88	7.10	5.61	2.90	7.57	5.63	2.93	7.80	6.08	2.94	8.27	6.06	2.97	8.74	6.45	3.00	
46	5.44	4.92	2.89	6.06	4.95	2.93	6.27	5.38	2.95	6.68	5.40	2.98	6.89	5.83	2.99	7.30	5.81	3.02	7.72	6.19	3.05	

Heating Capacity

Air Flow Rate 1600 m³/h

		Indoor temperature											
		16		18		20		22		24			
		TC	IP	TC	IP	TC	IP	TC	IP	TC	IP		
Outdoor temperature	°CDB	kW		kW		kW		kW		kW			
	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP		
	-20	-21	7.91	3.36	7.72	3.43	7.53	3.50	7.34	3.57	7.16	3.64	
	-15	-16	8.34	3.37	8.14	3.44	7.94	3.51	7.74	3.58	7.54	3.65	
	-10	-11	8.79	3.38	8.58	3.45	8.37	3.52	8.16	3.59	7.95	3.66	
	-5	-7	9.54	3.41	9.32	3.48	9.09	3.55	8.86	3.62	8.64	3.69	
	0	-2	10.12	3.37	9.88	3.44	9.64	3.51	9.40	3.58	9.16	3.65	
	5	3	11.22	3.35	10.96	3.42	10.69	3.49	10.42	3.56	10.16	3.63	
	7	6	11.76	3.33	11.48	3.40	11.20	3.47	10.92	3.54	10.64	3.61	
	10	8	12.12	3.30	11.83	3.37	11.54	3.44	11.25	3.51	10.96	3.58	
	15	10	10.86	2.52	10.60	2.57	10.34	2.62	10.08	2.67	9.82	2.71	
20	15	10.87	2.24	10.61	2.28	10.35	2.33	10.09	2.38	9.83	2.41		
24	18	11.32	2.25	11.05	2.29	10.78	2.34	10.51	2.39	10.24	2.42		

Air Flow Chart (Cooling)

	Fan Speed	Number of Rotations (rpm)	Airflow	
			l/s	
Indoor	High	570	l/s	444
	Medium	510	l/s	389
	Low	470	l/s	353
	Quiet	420	l/s	319
Outdoor	-	830	l/s	861

Air Flow Chart (Heating)

	Fan Speed	Number of Rotations (rpm)	Airflow	
			l/s	
Indoor	High	570	l/s	311
	Medium	510	l/s	231
	Low	470	l/s	189
	Quiet	420	l/s	161
Outdoor	-	830	l/s	681

Specifications

Electrical

Power Requirement	240V – 1Ph – 50Hz Outdoor		
Fuse Or Circuit Breaker (A)	32	Min Power Cable (mm ²)	4.00
		Interconnecting Cables	3+E

Compressor

Type	DC motor, Rotary x 1
Motor (W)	2,200

Indoor Coil

Type	Copper Tube + Aluminium Fin
Rows / Stages	3 x 16
Fin Pitch (mm)	1.2
Coating	Hydrophilic Coating

Outdoor Coil

Type	Copper Tube + Aluminium Fin
Rows / Stages	2 x 38
Fin Pitch (mm)	1.30
Coating	Blue Fin

Indoor Fan And Motor

Fan Type	Turbo Fan x 1
Motor (W)	81

Outdoor Fan And Motor

Fan Type	Propeller fan x 1
Motor (W)	100

Refrigeration System

Refrigerant Type		R32
Charge	g	1700
Maximum Line Length / Height	m	75 / 30
Pre-Charged Length	m	20
Additional Charge	g/m	40
Connection Method		IU: Brazing / OU: Flared
Expansion Control		Electronic Expansion Valve

Safety Devices

Indoor	Circuit Protection	Current fuse (PC board)	250 V 3.15 A
	Fan Motor Protection	Thermal protection program	125°C OFF +10°C 120°C ON -10°C
Outdoor	Circuit Protection	Current fuse (Near terminal)	250V 25A
		Current fuse (Filter PCB)	250V 10A
		Current fuse (Main PCB)	250 V 3.15 A
	Fan Motor Protection	Thermal Protection Program	OFF:150 °c +15°C ON: 120 °c - 15°C
	Compressor Protection	Thermal Protection Program (Compressor Temp.)	OFF: 120 °c ON: 80 °c
		Thermal Protection Program (Discharge Temp.)	OFF: 120 °c ON: 80 °c
High pressure protection	Pressure Switch	Activate: 4.2 +/- 0.1MPa Reset: 3.2 +/-0.15MPa	
Low Pressure Protection	Pressure Sensor	Activate: .12 +/- 0.1MPa Reset: .15 +/-0.15MPa	
Operating Ranges	Cooling	Indoor	18 °c to 32 °c
		Outdoor	-15 °c to 46 °c
	Heating	Indoor	16 °c to 30 °c
		Outdoor	-20 °c to 24 °c

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