R32 INVERTER CASSETTE Reverse Cycle	
INDOOR	**OUTDOOR**
AUTG54KRLA	**AOTG54KBTA**

TECHNICAL SPECIFICATIONS

Capacity	**Cooling**	**Rated**	kW	13
		Range	kW	4.5 — 14.5
	Heating	**Rated**	kW	16
		Range	kW	4.7 — 16.5
Input	**Cooling**		kW	4.04
	Heating		kW	4.23
Current	**Cooling**		A	16.9
	Heating		A	17.8
Max Running Current	**Cooling (1)**		A	20.5
	Heating		A	20.5
Starting Current			A	17.8
EER (Cooling)				3.22
AEER				3.294
COP (Heating)				3.78
ACOP				3.863
Moisture Removal			l/h	5.0
Air Circulation	**Indoor (High Fan)**		l/s	542
	Outdoor		l/s	1,639
Power Supply	**Outdoor**		240V - 1Ph - 50Hz	
Sound Pressure Level	**Indoor (High Fan)**		dB	45
	Outdoor		dB	54
Sound Power Level	**Outdoor**		dB	68
Weight (Net)	**Indoor**		Kg	30
	Outdoor		Kg	87
Dimensions HxWxD (mm)	**Indoor**		288 × 840 × 840	
	Outdoor		1290 × 900 × 330	
Connection Pipe Sizes	**Liquid**		mm	9.52
	Gas		mm	15.88
Drain Pipe Sizes	**Internal**		mm	Ø 13.0 (I.D.)
	External		mm	Ø 16.7(O.D.)

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

INVERTER

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

Cooling
Indoor temp : 27°C DB / 19°CWB
Out.4door 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.

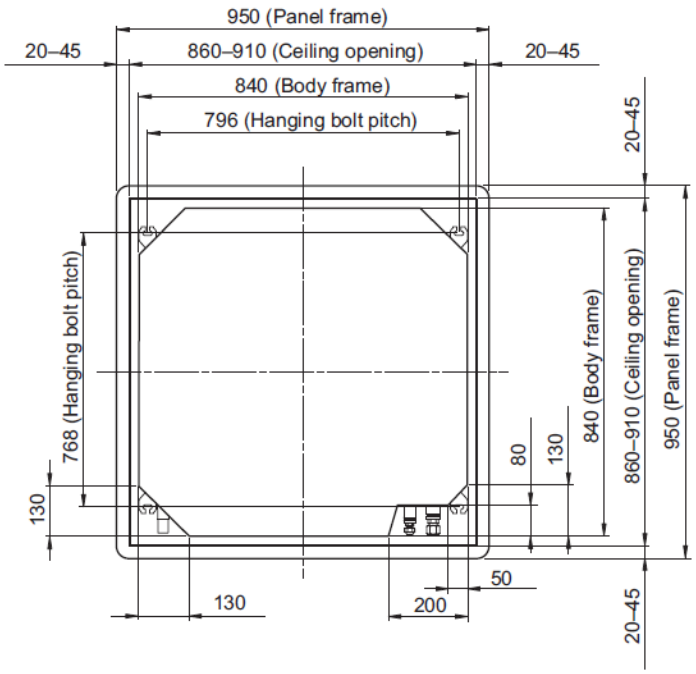
SOUND POWER LEVELS measured in accordance to AS1217.

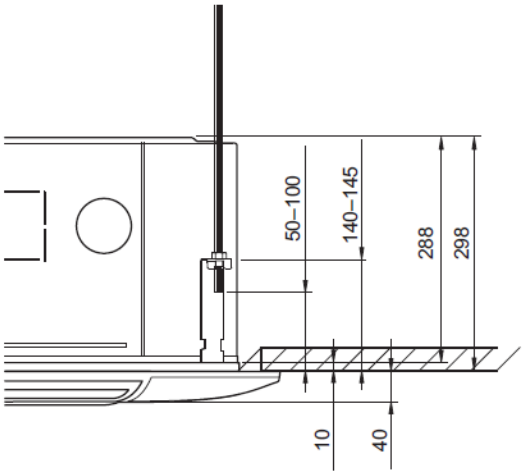
Specifications and design are subject to change without notice. Please check with your dealer.

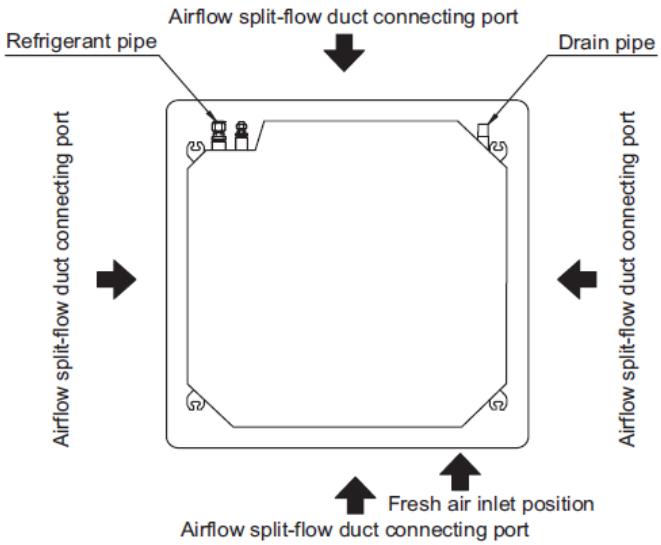
Dimensions

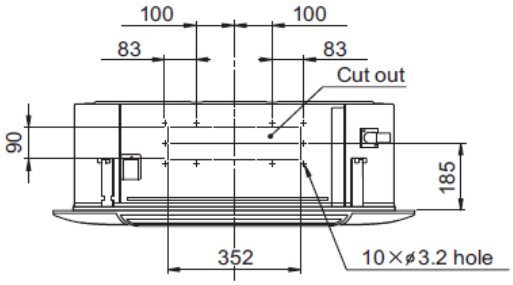
Indoor Unit

Unit: mm

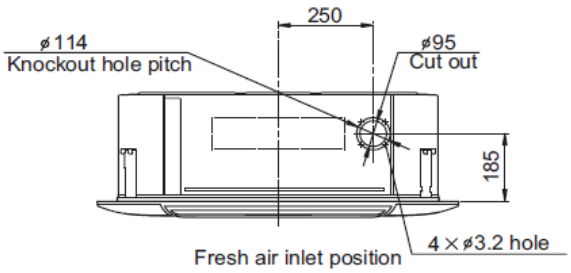






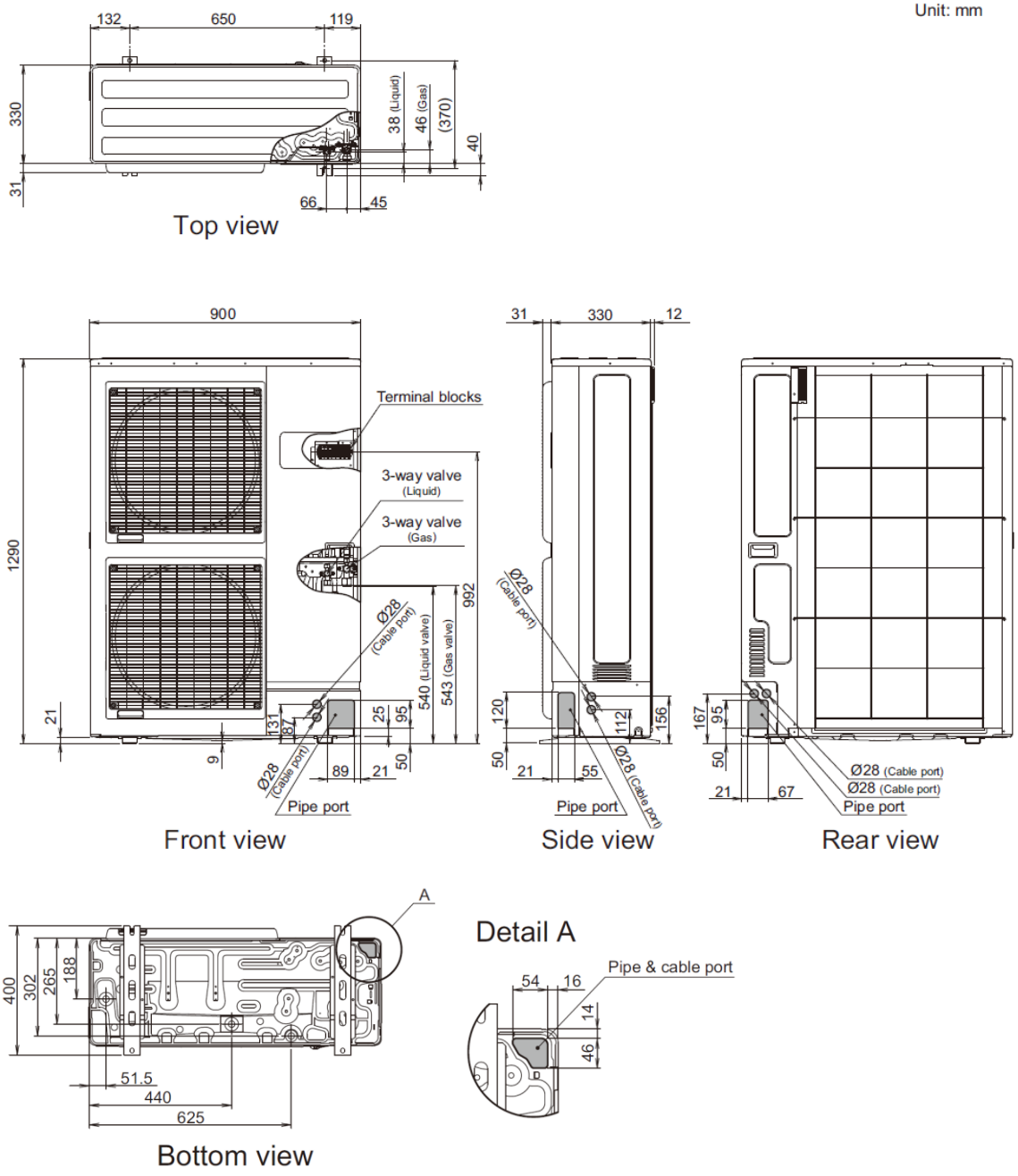


Detailed diagram of branched duct connecting port (4 sides)



Outdoor Unit

Unit: mm



Technical Data

PI = Power Input (kW) SHC = Sensible Heat Capacity (kW) TC = Total Capacity (kW)

Cooling Capacity

Air Flow Rate 1950 m^3/h

		Indoor temperature																				
	°CDB	18			21			23			25			27			29			32		
	°CWB	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
		kW			kW			kW			kW			kW			kW			kW		
	-15	11.73	9.02	2.51	13.07	9.08	2.55	13.51	9.87	2.56	14.40	9.90	2.58	14.85	10.69	2.60	15.74	10.65	2.62	16.63	11.34	2.65
	-10	11.72	9.04	2.41	13.06	9.09	2.44	13.50	9.89	2.46	14.39	9.92	2.48	14.84	10.71	2.49	15.73	10.67	2.52	16.62	11.36	2.54
	0	11.84	9.12	2.16	13.19	9.18	2.20	13.64	9.98	2.21	14.54	10.01	2.23	14.99	10.81	2.24	15.89	10.77	2.27	16.79	11.47	2.29
	5	11.61	8.96	2.25	12.93	9.02	2.29	13.37	9.80	2.30	14.25	9.83	2.32	14.69	10.62	2.34	15.57	10.58	2.36	16.45	11.27	2.38
	10	11.44	8.90	2.36	12.74	8.95	2.40	13.18	9.73	2.41	14.05	9.76	2.44	14.48	10.54	2.45	15.35	10.50	2.47	16.22	11.18	2.50
	15	11.22	8.99	2.61	12.50	9.04	2.65	12.92	9.83	2.67	13.77	9.86	2.70	14.20	10.65	2.71	15.05	10.61	2.74	15.90	11.30	2.76
	20	12.06	9.55	3.48	13.43	9.61	3.53	13.89	10.45	3.55	14.80	10.48	3.58	15.26	11.32	3.60	16.18	11.27	3.64	17.09	12.01	3.67
	25	11.83	9.10	4.02	13.17	9.15	4.08	13.62	9.95	4.10	14.52	9.98	4.14	14.97	10.78	4.16	15.87	10.74	4.20	16.77	11.44	4.24
	30	11.62	8.98	4.20	12.94	9.03	4.27	13.39	9.82	4.29	14.27	9.85	4.33	14.71	10.64	4.36	15.59	10.60	4.40	16.48	11.29	4.44
	35	11.46	8.90	4.42	12.76	8.95	4.49	13.20	9.73	4.51	14.07	9.76	4.56	14.50	10.54	4.58	15.37	10.50	4.63	16.24	11.18	4.67
	40	9.11	8.16	3.67	10.15	8.21	3.72	10.49	8.93	3.74	11.18	8.95	3.78	11.53	9.67	3.80	12.22	9.63	3.84	12.91	10.26	3.87
	46	6.94	7.11	3.04	7.73	7.16	3.08	7.99	7.78	3.10	8.52	7.81	3.13	8.78	8.43	3.15	9.31	8.40	3.18	9.83	8.94	3.21

Heating Capacity

Air Flow Rate 1950 m^3/h

			Indoor temperature									
		°CDB	16		18		20		22		24	
Outdoor temperature	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW	
	-20	-21	10.01	4.01	9.77	4.09	9.53	4.18	9.29	4.26	9.06	4.34
	-15	-16	10.99	4.16	10.73	4.24	10.47	4.33	10.21	4.42	9.95	4.50
	-10	-11	12.08	4.31	11.79	4.40	11.50	4.49	11.21	4.58	10.93	4.67
	-5	-7	13.30	4.49	12.99	4.59	12.67	4.68	12.35	4.77	12.04	4.87
	0	-2	14.44	4.49	14.09	4.59	13.75	4.68	13.41	4.77	13.06	4.87
	5	3	16.00	4.49	15.62	4.59	15.24	4.68	14.86	4.77	14.48	4.87
	7	6	17.33	4.49	16.91	4.59	16.50	4.68	16.09	4.77	15.68	4.87
	10	8	17.61	4.49	17.19	4.59	16.77	4.68	16.35	4.77	15.93	4.87
	15	10	16.97	3.82	16.56	3.90	16.16	3.98	15.76	4.06	15.35	4.12
	20	15	16.43	3.37	16.04	3.44	15.65	3.51	15.26	3.58	14.87	3.63
	24	18	16.96	3.37	16.55	3.44	16.15	3.51	15.75	3.58	15.34	3.63

Air Flow Chart (Cooling)

	Fan Speed	Number of Rotations (rpm)	Airflow	
Indoor	High	690	l/s	528
	Medium	630	l/s	458
	Low	570	l/s	406
	Quiet	430	l/s	319
Outdoor	-	780	l/s	1,167

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Specifications

Electrical

Power Requirement	240V – 1Ph – 50Hz Outdoor		
Fuse Or Circuit Breaker (A)	32	Min Power Cable (mm²)	4.00
		Interconnecting Cables	3+E

Compressor

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

Indoor Coil

Type	Copper Tube + Aluminium Fin
Rows / Stages	4 x 16
Fin Pitch (mm)	1.2
Coating	Hydrophilic Coating

Outdoor Coil

Type	Copper Tube + Aluminium Fin
Rows / Stages	3 × 42
Fin Pitch (mm)	1.45
Coating	Blue Fin

Indoor Fan And Motor

Fan Type	Turbo Fan × 1
Motor (W)	81

Outdoor Fan And Motor

Fan Type	Propeller fan × 1
Motor (W)	111

Refrigeration System

Refrigerant Type		R32
Charge	g	2,450
Maximum Line Length / Height	m	75 / 30
Pre-Charged Length	m	30
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	125ºc OFF +10ºc 120 ºc ON -10ºc	
Outdoor	Circuit Protection	Current fuse (Near terminal)	250V 30A	
		Current fuse (Filter PCB)	250V 10A x 2 250 V 3.15 A 250 V 30 A	
		Current fuse (Main PCB)	250 V 3.15 A	
	Fan Motor Protection	Thermal Protection Program	OFF: 80 ºc ON: 116 ºc	+10ºc - 9ºc
	Compressor Protection	Thermal Protection Program (Compressor Temp.)	OFF: 80 ºc ON: 120 ºc	
		Thermal Protection Program (Discharge Temp.)	OFF: After 7 Minutes ON: 110 ºc	
	High pressure protection	Pressure Switch	Activate: 4.2 +/- 0.1MPa Reset: 3.2 +/10.15MPa	
	Low Pressure Protection	Pressure Sensor	Activate:.12 MPa Reset: . 15 MPa	
Operating Ranges	Cooling	Indoor	18 ºc to 32 ºc	
		Outdoor	-15 ºc to 46 ºc	
	Heating	Indoor	16 ºc to 30 ºc	
		Outdoor	-20 ºc to 24 ºc	

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