

AIRSYS




TELECOOL

Base Station Door-Mounted
Cooling Solution

Cooling Capacity: 300W-5000W

www.air-sys.uk



The TELECOOL series product line is designed for communication base stations where the need for energy reduction and space saving is paramount. The unit is provided in two configurations - DX mechanical cooling, in single phase or 48VDC versions; and a heat exchanger cooling only model, in 48VDC. All components are contained within a single housing requiring simple builders works for ease of installation and enhanced versatility.

Unit Identification

01	02	03	04	05	06	07	08
A	C	A	005	E	A1	.	XXX

01	A	Airsys
02	C	Cabinet
03	A	A: Air Conditioner E: Heat Exchanger
04	005	DX Cooling capacity unit: in multiples of 100W Heat Exchanger capacity: in multiples of 10W/K
05	E	Installation type: Embedded
06	A1	Power voltage: A1: 220/1/50 A2: 220/1/60 A3: 220/1/50&60 D1: 48VDC
07	.	Separator Character ""
08	XXX	Code for custom design

Engineered features

1 Soft-start Compressor

The Soft-start feature eliminates inrush current during compressor start up, and reduces stress at every compressor turn on.

2 Remote Monitoring Control Options

Dry contact outputs available for:

- Power loss
- Low/High Temperature
- Fan Alarm
- Heater Alarm

Remote Monitoring also available through RS485.

3 Dual Layer Exterior Protection

The galvanized steel exterior, coated with an additional layer of thermoset polymer, provides two layers of protection against harsh environments.

4 Extreme Temperature Range

Designed for operation between -40°C and 55°C ambient temperature.

5 Customisable Operation

Built-in thermostat with customisable operating and alarming parameters. Automatic self-test at power on allows for efficient on-site maintenance.

6 Top exhaust/Bottom Throw Design

This takes advantage of the increased thermal efficiency of supplying cold air at low level and extracting hot air at high level, which can increase efficiency by as much as 15%, when compared to bottom exhaust systems.

7 Optimised Efficiency

The use of EC fan technology ensures quieter operation and higher efficiency than conventional AC fans.

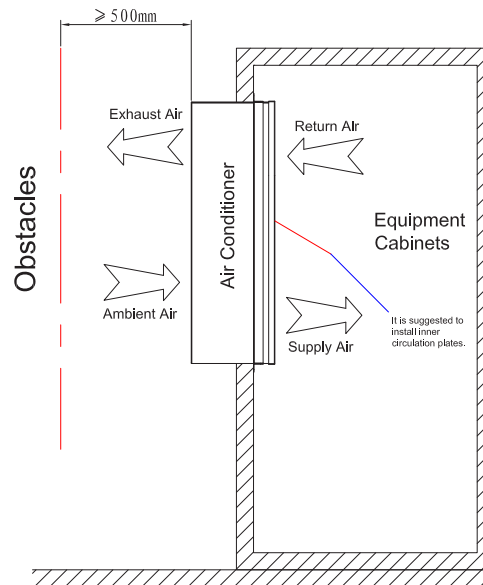
8 Exceptional Reliability

State of the art components chosen for their industry leading quality and long-term reliability. Decades of experience with design and manufacturing of the Telecool systems, with tens of thousands of units shipped and installed globally.

Working Flow Schematic Diagram

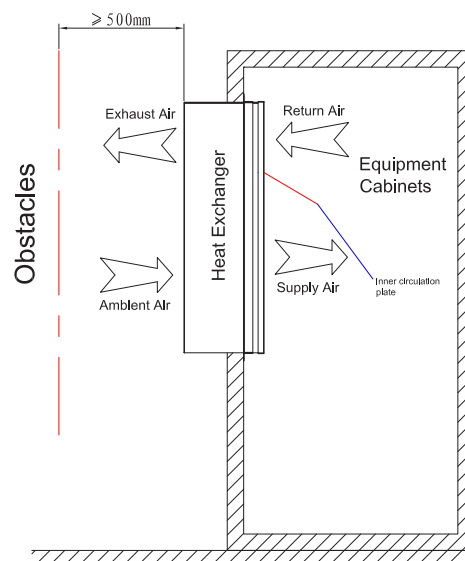
Mechanical Cooling

With mechanical cooling, the unit is fitted with a refrigerant circuit comprising of an evaporator coil, condenser coil, compressor and expansion device, along with a supply air fan and an exhaust air fan. Room air is recirculated through the evaporator section and heat is removed by the refrigeration circuit, which is then rejected to ambient by the condenser section..



Heat Exchanger Cooling

With heat exchanger cooling, the unit is fitted with a parallel flow heat exchanger, a supply fan and an exhaust fan. Room air is recirculated through one half of the heat exchanger and ambient air is recirculated through the other half of the heat exchanger. When ambient temperatures permit, the heat exchanger provides indirect free-cooling of the IT space.



Technical Parameters

AC series Cabinet Air Conditioner

Unit model		ACA003ED1	ACA005ED1	ACA008ED1	ACA010ED1	ACA015ED1	ACA020ED1
Input Voltage		AC 200V ±15% 50Hz					
Performance							
Cooling capacity L35	W	300	500	800	1000	1500	2000
Power consumption L35	W	150	210	340	410	650	870
Airflow	m ³ /h	120	120	440	440	440	700
Application temperature	°C	-40°C to +70°C					
Working temperature	°C	-15°C to +55°C					
Mounting method		Embedded					
IP grade		IP55					
Refrigerant		R134a					
Noise	dB(A)	60	60	65	65	65	65
Surface treatment		Outdoor type powder coating RAL7035					
Dimensions (include flange)	mm	582x352x175		655x381x170		782x482x200	
Dimensions (without flange)	mm	546x315x175		614x340x170		745x445x200	
Weight	kg	7	20	30	32	34	

Unit model		ACA025ED1	ACA030ED1	ACA035ED1	ACA040ED1	ACA050ED1
Input Voltage		AC 200V ±15% 50Hz				
Performance						
Cooling capacity L35	W	2500	3000	3500	4000	5000
Power consumption L35	W	1090	1300	1500	1725	1850
Airflow	m ³ /h	720	720	1150	1250	1250
Application temperature	°C	-40°C to +70°C				
Working temperature	°C	-15°C to +55°C				
Mounting method		Embedded				
IP grade		IP55				
Refrigerant		R134a				
Noise	dB(A)	65				
Surface treatment		Outdoor type powder coating RAL7035				
Dimensions (include flange)	mm	1201x536x225		1350x550x300		1350x650x300
Dimensions (without flange)	mm	1150x485x225		1300x500x300		1300x600x300
Weight	kg	50	50	70	75	85

To learn more about each model product, refer to corresponding model catalogue as follows.

Cooling capacity (W)	Model Catalogue	Cooling Capacity (W)	Model Catalogue
300	ACA003ED1	2500	ACA025ED1
500	ACA005ED1	3000	ACA030ED1
800	ACA008ED1	3500	ACA035ED1
1000	ACA010ED1	4000	ACA040ED1
1500	ACA015ED1	5000	ACA050ED1
2000	ACA020ED1		

Technical Parameters

48VDC series Cabinet Air Conditioner

Unit model		ACA003ED1	ACA005ED1	ACA008ED1	ACA010ED1	ACA015ED1
Input Voltage		-48VDC				
Performance						
Cooling capacity L35	W	300	500	800	1000	1500
Power consumption L35	W	130	150	180	280	395
Airflow	m ³ /h	100	150	350	400	440
Application temperature	°C	-40°C to +70°C				
Working temperature	°C	-15°C to +55°C				
Mounting method		Embedded				
IP grade		IP55				
Refrigerant		R134a				
Noise	dB(A)	60	55	65	65	65
Surface treatment		Outdoor type powder coating RAL7035				
Dimensions (include flange)	mm	441x281x150	582x352x175		782x482x200	
Dimensions (without flange)	mm	400x240x150	546x315x175		745x445x200	
Weight	kg	7	20	30	32	34

Unit model		ACA020ED1	ACA025ED1	ACA030ED1	ACA035ED1	ACA040ED1
Input Voltage		-48VDC				
Performance						
Cooling capacity L35	W	2000	2500	3000	3500	4000
Power consumption L35	W	570	700	860	1000	1150
Airflow	m ³ /h	450	800	800	1000	1050
Application temperature	°C	-40°C to +70°C				
Working temperature	°C	-15°C to +55°C				
Mounting method		Embedded				
IP grade		IP55				
Refrigerant		R134a				
Noise	dB(A)	65				
Surface treatment		Outdoor type powder coating RAL7035				
Dimensions (include flange)	mm	782x482x200	1201x536x225		1350x550x300	
Dimensions (without flange)	mm	745x445x200	1150x485x225		1300x500x300	
Weight	kg	35	55	55	75	75

To learn more about each model product, refer to corresponding model catalogue as follows.

Cooling capacity (W)	Model Catalogue	Cooling Capacity (W)	Model Catalogue
300	ACA003ED1	2000	ACA020ED1
500	ACA005ED1	2500	ACA025ED1
800	ACA008ED1	3000	ACA030ED1
1000	ACA010ED1	3500	ACA035ED1
1500	ACA015ED1	4000	ACA040ED1

Technical Parameters

Heat Exchanger

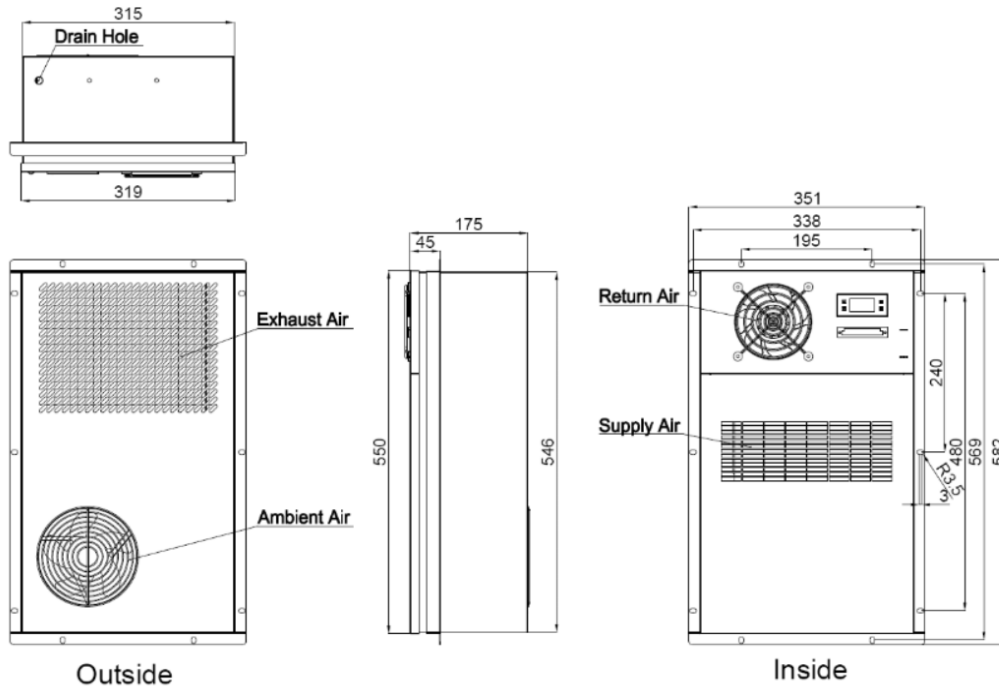
Unit model		ACEA006ED1	ACE008ED1	ACE010ED1	ACE012ED1	ACE015ED1	ACE018ED1
Input Voltage				-48VDC			
Performance							
Cooling capacity L35	W	60	80	100	120	150	180
Power consumption L35	W	68	68	129	190	190	190
Airflow	m ³ /h	450	450	850	850	860	950
Application temperature	°C				-40°C to +70°C		
Working temperature	°C				-40°C to +65°C		
Mounting method					Embedded		
IP grade					IP55		
Noise	dB(A)				65		
Surface treatment					Outdoor type powder coating RAL7035		
Dimensions (include flange)	mm	1001x546x155			1001x546x200		1297x569x240
Dimensions (without flange)	mm	950x495x155			950x495x200		1246x518x240
Weight	kg	30	32	35	40	50	50

To learn more about each model product, refer to corresponding model catalogue as follows.

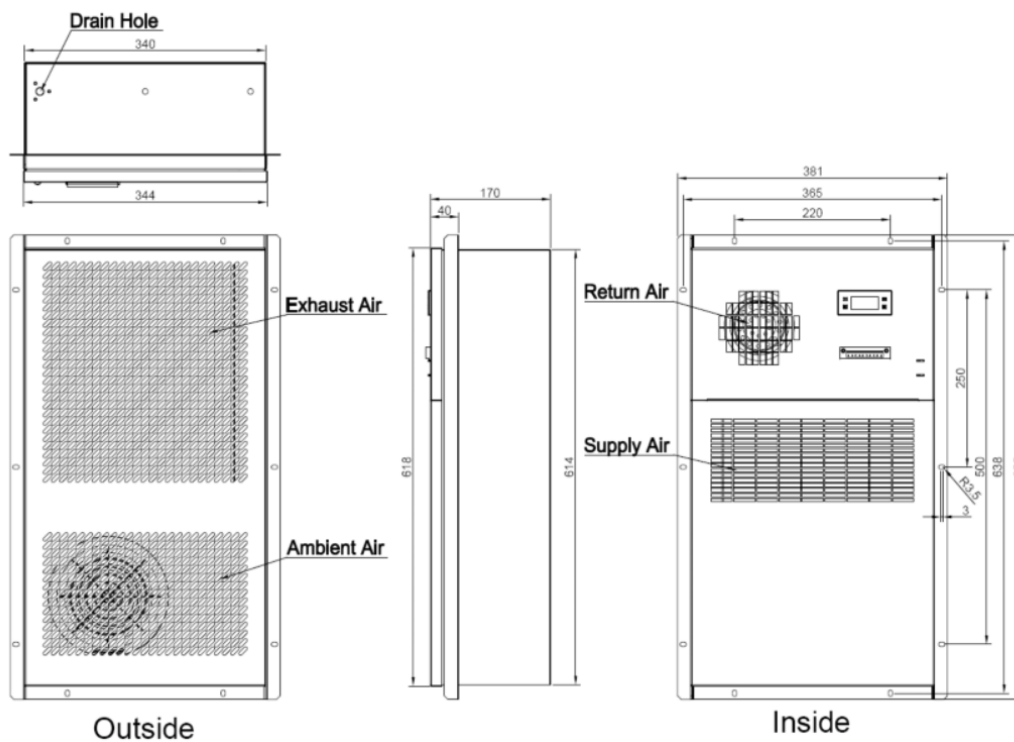
Cooling capacity (W)	Model Catalogue
60	ACE006ED1
80	ACE008ED1
100	ACE010ED1
120	ACE012ED1
150	ACE015ED1
180	ACE018ED1

Unit Dimension Drawing

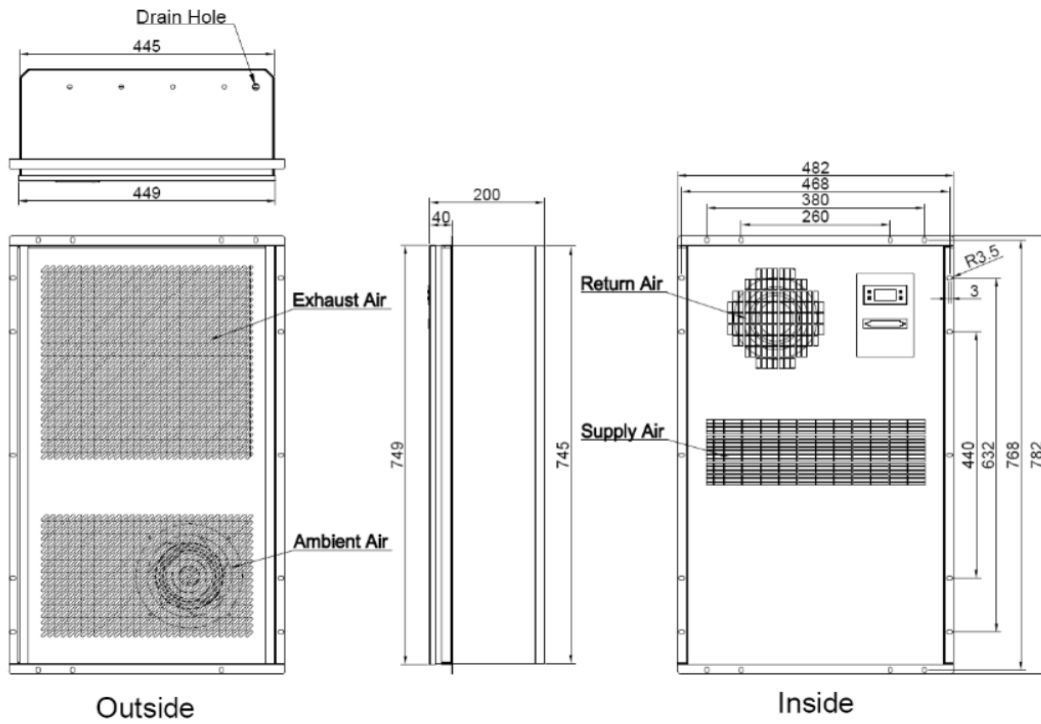
ACA003EA1, ACA005EA3



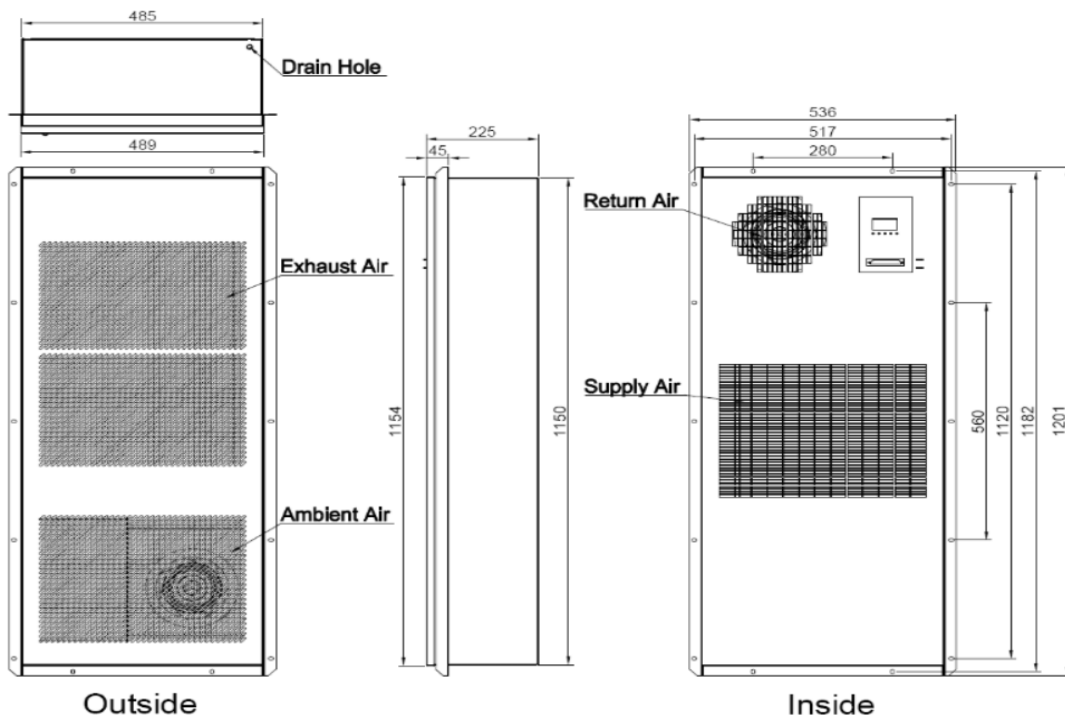
ACA008EA3



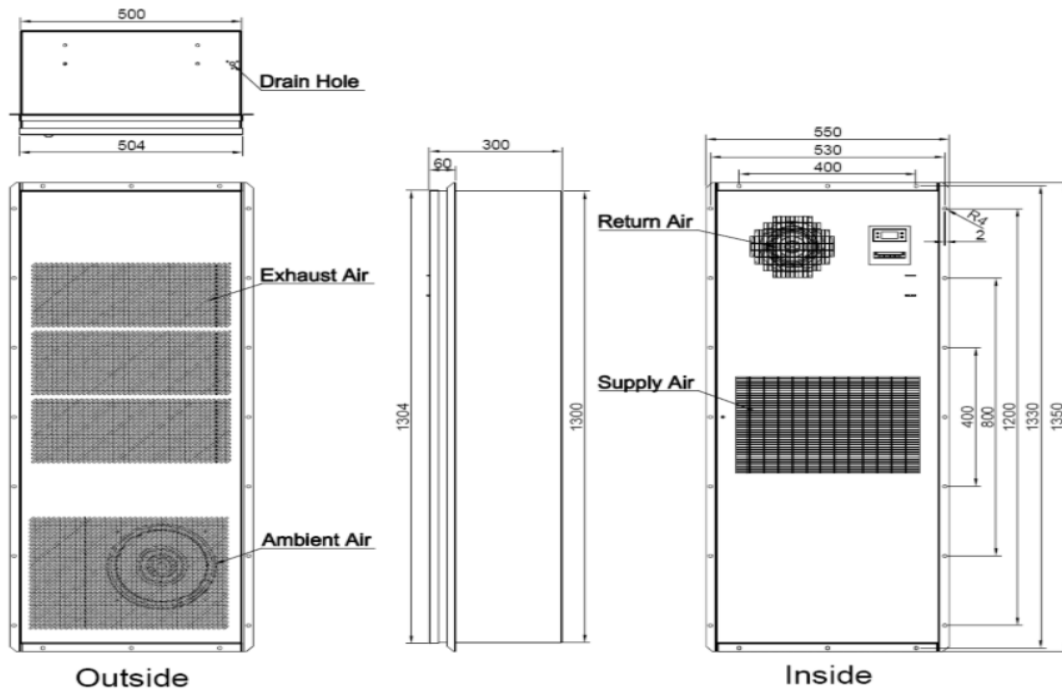
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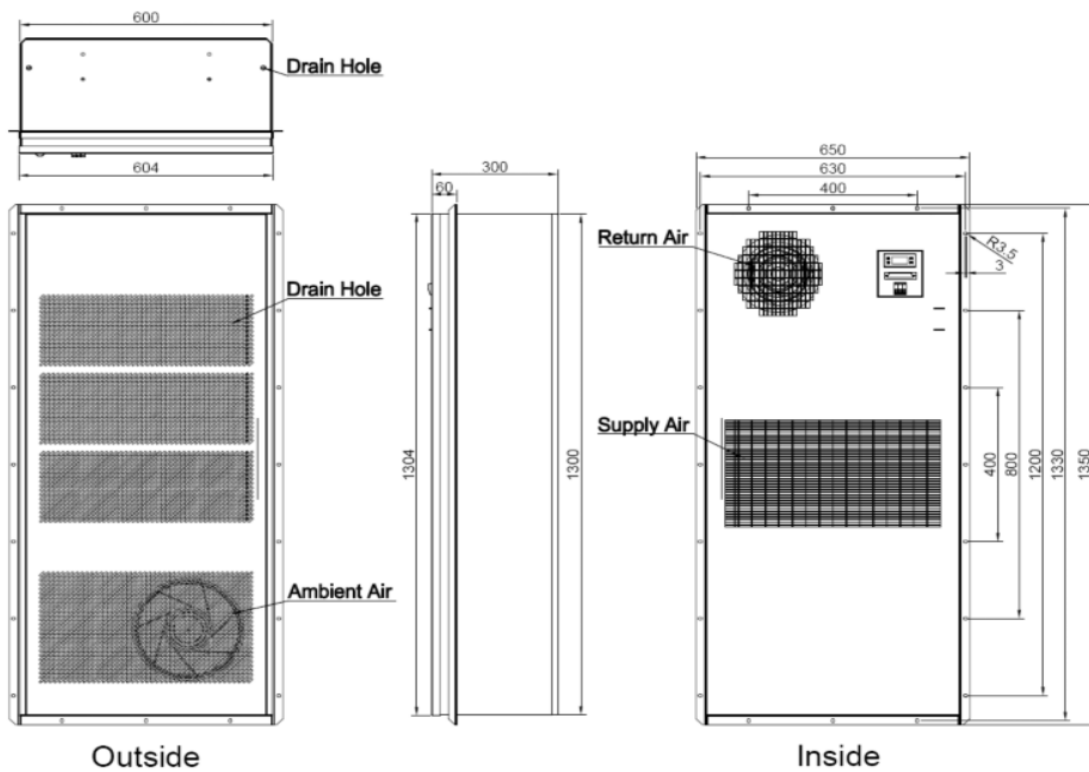
ACA025EA1, ACA030EA1, ACA030EA3



ACA035EA1, ACA040EA3



ACA050EA1





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Product design and specification subject to change without prior notice.

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