AIG | Arab African Investment Group

Bus & Truck Air Conditioning

Product Catalog 2025 — rooftop, built-in, truck and battery thermal management systems



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Who We Are

AIG provides HVAC systems, components and after-sales support for buses, trucks and electric vehicles — engineered for demanding Middle East & Africa operating conditions and exported to more than **23 countries** across four regions.

- **International component base:** core parts from DANFOSS, BOCK, BITZER, VALEO, SPAL, ebm-papst, BOSCH and PRESTOLITE.
- **Sourcing & customization:** single-source HVAC and component supply, with models tailored to vehicle length, voltage and duty.
- **Lightweight construction:** compact structure, aluminum alloy housing, RTM molded cover.
- **Stable quality:** rigorously tested products applied in large quantities in the market.

Advantages

- **High efficiency & energy saving:** continuously optimized core structure improves performance and reduces energy consumption.
- **Intelligent temperature control:** automatically adjusts fan speed and temperature to the set point.
- **Low noise:** tested and optimized in the silent laboratory for whole-vehicle comfort.

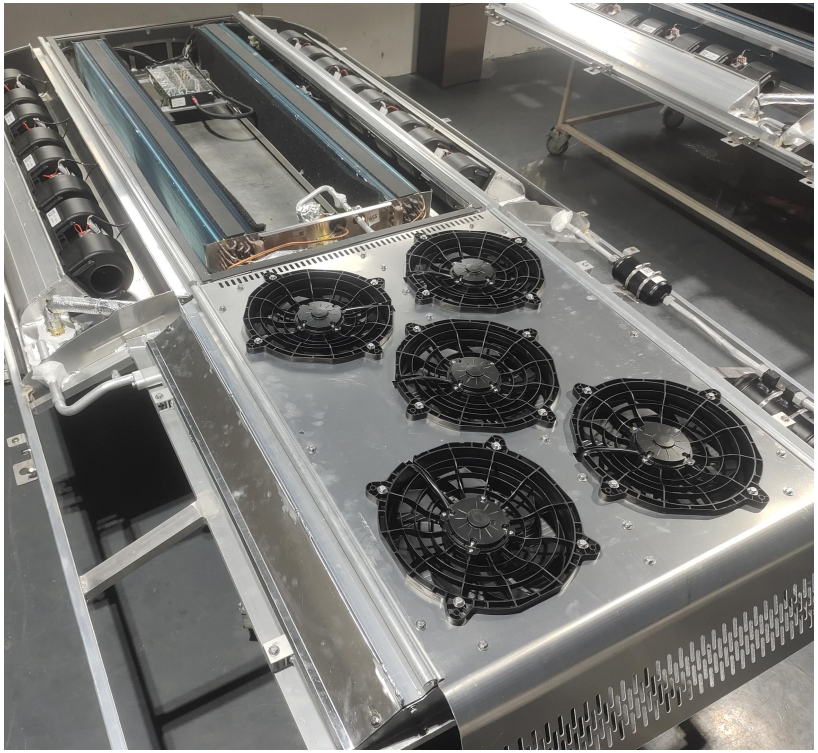
Applications

Electric Bus	Diesel Bus	Truck
DC200V-720V air conditioning for 7-13 m electric buses.	DC12V/24V air conditioning system for 6-13.5 m diesel buses.	DC12V/24V parking air conditioning for trucks, trailers, tractors and agriculture vehicles.



Production & Test Lines

- **Advanced lead powder welding line** — dedicated line for heat-exchange joint quality.
- **Copper tube welding line** — precision tube joints.
- **Leak detection and drying line** — every unit leak-tested and dried.
- **Rain test line** — water-ingress verification before dispatch.



Select the Right Unit by Bus Length

Vehicle	Diesel rooftop (DF · DP · DS · DZ)	Electric rooftop (ED)	Built-in & truck (FN · DK)
6 - 8 m (single deck)	DP-16C · DP-16W · DP-18 · DP-10	ED-16	-
8 - 10 m	DF-24 · DP-24 · DS-24 · DZ-24	ED-28	-
9 - 11 m	DF-28 · DP-28 · DS-28 · DZ-32	ED-32	-
10 - 12 m	DF-32 · DP-32 · DS-32 · DZ-32	ED-32	-
11 - 13.5 m	DF-38 · DZ-38	-	-
Double-decker	-	ED-44	FN-44
Truck / trailer	-	-	DK-28 · DK-32

ED-44 and FN-44 double-deck configurations are quoted per project — request the datasheet for details.

DF Rooftop Series — Diesel

Copper-tube & fin condenser · 28-44 kW

Specification	DF-24 24,000 kcal/h · 28 kW	DF-28 28,000 kcal/h · 32 kW	DF-32 32,000 kcal/h · 37 kW	DF-38 38,000 kcal/h · 44 kW
Cooling capacity (kcal/h / kW)	24,000 (28)	28,000 (32)	32,000 (37)	38,000 (44)
Evaporator blower quantity (pcs)	4	6	8	8
Evaporator core	Copper tube & aluminum foil fin			
Evaporator air flow (m3/h)	4,000	6,000	8,000	8,000
Condenser fan quantity (pcs)	3	4	5	6
Condenser core	Copper tube & aluminum foil fin			
Condenser air flow (m3/h)	6,000	8,000	10,000	12,000
Compressor	VALEO TM43	VALEO TM55	BOCK FK40-655K	BOCK FK40-755K
Dimensions L x W x H (mm)	3718 x 1820 x 195	3804 x 1902 x 205	4429 x 1902 x 205	4760 x 1900 x 210
Bus length	8 - 10 m	10 - 12 m	11 - 12.5 m	11 - 13 m
Control	CAN / RELAY			
Working voltage	DC12/24V			

DP Rooftop Series — Diesel

Micro-channel condenser · 18-37 kW

Specification	DP-18 16,000 kcal/h · 18 kW	DP-24 24,000 kcal/h · 28 kW	DP-28 28,000 kcal/h · 32 kW	DP-32 32,000 kcal/h · 37 kW
Cooling capacity (kcal/h / kW)	16,000 (18)	24,000 (28)	28,000 (32)	32,000 (37)
Evaporator blower quantity (pcs)	4	4	6	8
Evaporator core	Copper tube & aluminum foil fin			
Evaporator air flow (m3/h)	4,000	4,000	6,000	8,000
Condenser fan quantity (pcs)	3	3	4	5
Condenser core	Micro-channel heat exchanger			
Condenser air flow (m3/h)	6,000	6,000	8,000	10,000
Compressor	VALEO TM31	VALEO TM43	VALEO TM55	BOCK FK40-655K
Dimensions L x W x H (mm)	2350 x 1820 x 198	2350 x 1820 x 198	2945 x 1902 x 214	3220 x 1902 x 214
Bus length	7 - 9 m	8 - 10 m	10 - 12.5 m	11 - 13 m
Control	CAN / RELAY			
Working voltage	DC12/24V	DC12/24V	DC24V	DC24V

Minibus Series

Compact rooftops for 5.5-8 m vehicles · 8-16 kW

Specification	DP-16C 14,000 kcal/h · 16 kW	DP-16W 14,000 kcal/h · 16 kW	DP-10 8,600 kcal/h · 10 kW	DP-08 6,900 kcal/h · 8 kW
Cooling capacity (kcal/h / kW)	14,000 (16)	14,000 (16)	8,600 (10)	6,900 (8)
Evaporator blower quantity (pcs)	4	4	2	2
Evaporator core	Copper tube & aluminum foil fin			
Evaporator air flow (m3/h)	4,000	4,000	2,000	2,000
Condenser fan quantity (pcs)	2	2	2	2
Condenser core	Copper tube & aluminum foil fin	Micro-channel heat exchanger	Micro-channel heat exchanger	Micro-channel heat exchanger
Condenser air flow (m3/h)	4,000	4,000	4,000	4,000
Compressor	VALEO TM21	VALEO TM21	VALEO TM16	VALEO TM16
Dimensions L x W x H (mm)	2640 x 1560 x 190	2210 x 1380 x 210	1520 x 1060 x 210	1010 x 975 x 180
Bus length	6 - 7.5 m	6 - 8 m	5.5 - 7 m	5.5 - 6 m
Control	RELAY			
Working voltage	DC12/24V			

DS Rooftop Series — Slim profile

220 mm slim rooftop · 28-37 kW

Specification	DS-24 24,000 kcal/h · 28 kW	DS-28 28,000 kcal/h · 32 kW	DS-32 32,000 kcal/h · 37 kW
Cooling capacity (kcal/h / kW)	24,000 (28)	28,000 (32)	32,000 (37)
Evaporator blower quantity (pcs)	4	6	8
Evaporator core	Copper tube & aluminum foil fin		
Evaporator air flow (m3/h)	4,000	6,000	8,000
Condenser fan quantity (pcs)	4	4	5
Condenser core	Copper tube & aluminum foil fin		
Condenser air flow (m3/h)	8,000	8,000	10,000
Compressor	VALEO TM43	VALEO TM55	BOCK FK40-655
Dimensions L x W x H (mm)	2500 x 2000 x 220	2750 x 2000 x 220	3000 x 2000 x 220
Bus length	8 - 9 m	10 - 11 m	11 - 13 m
Control	CAN / RELAY		
Working voltage	DC24V		

DZ Rooftop Series — Diesel

Micro-channel condenser · 28-44 kW

Specification	DZ-24 24,000 kcal/h · 28 kW	DZ-28 28,000 kcal/h · 32 kW	DZ-32 32,000 kcal/h · 37 kW	DZ-38 38,000 kcal/h · 44 kW
Cooling capacity (kcal/h / kW)	24,000 (28)	28,000 (32)	32,000 (37)	38,000 (44)
Evaporator blower quantity (pcs)	4	6	6	8
Evaporator core	Copper tube & aluminum foil fin			
Evaporator air flow (m3/h)	4,000	6,000	6,000	8,000
Condenser fan quantity (pcs)	3	4	5	6
Condenser core	Micro-channel heat exchanger			
Condenser air flow (m3/h)	6,000	8,000	10,000	12,000
Compressor	VALEO TM43	VALEO TM55	BOCK FK40-655K	BOCK FK40-755K
Dimensions L x W x H (mm)	2350 x 1820 x 198	2945 x 1902 x 210	3220 x 1902 x 210	3560 x 1840 x 210
Bus length	8 - 10 m	10 - 12.5 m	11 - 12 m	11 - 13.5 m
Control	CAN / RELAY			
Working voltage	DC12/24V	DC24V	DC24V	DC24V

ED Rooftop Series — Electric buses

High-voltage 400-750 V · 18-37 kW

Specification	ED-16 16,000 kcal/h · 18 kW	ED-28 28,000 kcal/h · 32 kW	ED-32 32,000 kcal/h · 37 kW
Cooling capacity (kcal/h / kW)	16,000 (18)	28,000 (32)	32,000 (37)
Evaporator blower quantity (pcs)	4	6	8
Evaporator core	Copper tube & aluminum foil fin		
Evaporator air flow (m3/h)	4,000	6,000	8,000
Condenser fan quantity (pcs)	3	4	5
Condenser core	Copper tube & aluminum foil fin		
Condenser air flow (m3/h)	6,000	8,000	10,000
Compressor	EVS-36	2 x EVS-34	2 x EVS-34
Dimensions L x W x H (mm)	2700 x 1630 x 240	2750 x 1920 x 285	3000 x 1920 x 285
Bus length	6 - 8 m	8 - 10 m	10 - 12 m
Control	CAN		
Working voltage	High voltage 400-750 V · Low voltage DC24V		

FN Built-in Series

Split built-in systems · 18-56 kW · incl. double-deck

Specification	FN-18 16,000 kcal/h · 18 kW	FN-32 32,000 kcal/h · 37 kW	FN-48 48,000 kcal/h · 56 kW
Cooling capacity (kcal/h / kW)	16,000 (18)	32,000 (37)	48,000 (56)
Evaporator blower quantity (pcs)	4	8	6 + 3 (dual deck)
Evaporator core	Copper tube & aluminum foil fin		
Evaporator air flow (m3/h)	4,000	8,000	9,000
Condenser fan quantity (pcs)	3	5	5 / 6
Condenser core	Micro-channel heat exchanger	Copper tube & aluminum foil fin	Copper tube & aluminum foil fin
Condenser air flow (m3/h)	6,000	10,000	10,000 (5 fans) / 12,000 (6 fans)
Compressor	VALEO TM3	VALEO TM65 · BOCK 655K · BITZER 4N	2 x EVS-34
Dimensions L x W x H (mm)	Eva 1328 x 632 x 299 · Cond 1136 x 490 x 371	Eva 1815 x 320 x 200 · Cond 1951 x 372 x 443	Eva up 1468 x 387 x 202 · down 1510 x 585 x 261 · Cond 1951 x 443 x
Bus length	6 - 8 m	10 - 12 m	Double-deck bus
Control	CAN / RELAY		
Working voltage	DC24V		

Defrosters

Electric DCS-3/5/8 · Diesel CS-05

Specification	DCS-3	DCS-5	DCS-8
Heating capacity	3 kW	5 kW	8 kW
Cooling capacity	5 kW		
Working voltage	DC400-750 V · control DC24V		
Functions	Defrost / blow head / blow feet / defrost & blow feet / blow heat & feet / fresh air		
Application	6 - 12 m electric bus		

Diesel Bus Defroster CS-05

Water heating · R134a

Specification	CS-05
Working voltage	DC24V
Cooling capacity	4,300 kcal/h · 5 kW · 18,000 BTU/h
Heating capacity	8,600 kcal/h · 10 kW · 35,000 BTU/h (water heating)
Refrigerant	R134a
Dimensions (mm)	549 x 267 x 511
Functions	Defrost / blow head / blow feet / defrost & blow feet / blow heat & feet / fresh air

DK Truck Series

Rooftop cab AC · engine-driven · 2.8-3.2 kW

Specification	DK28 2,800 W	DK32 3,200 W
Cooling capacity (W)	2,800	3,200
Working voltage	DC12/24V	
Condenser core	Copper tube & aluminum foil fin	
Condenser fan quantity (pcs)	1	2
Condenser air flow (m3/h)	2,000	4,000
Evaporator core	Copper tube & aluminum foil fin	
Evaporator blower quantity (pcs)	1	1
Evaporator air flow (m3/h)	1,000	1,000
Compressor	18 cc	
Refrigerant	R134a	
Mounting & driven type	Rooftop mounted, vehicle engine driven	
Applicable vehicles	Trucks · trailers	

Battery Thermal Management System (BTMS)

5-13 kW liquid cooling · CAN · IP54

Specification	RMC-5 5 kW	RMC-8 8 kW	RMC-13 13 kW
Cooling capacity	5 kW	8 kW	13 kW
High-voltage power supply	DC400 - 750 V		
Low-voltage power supply	DC24V (18 - 30 V)		
Control power	DC24V on/off signal		
LP power source	DC-DC (standard)		
Weight	80 kg	85 kg	90 kg
Dimensions L x W x H (mm)	1300 x 1920 x 256		
Refrigerant	R134a	R407c	R407c
Coolant	50% ethylene glycol aqueous solution		
Protection level	IP54		
Features	CAN communication · PTC liquid heater option · self-diagnosis · real-time data upload · EMC grade III		

Component Base

Core components are sourced from leading international suppliers, with compressor families covering every duty:

Brand	Compressor models covered
BITZER	4PFCY · 4NFCY · 4GFCY · 6NFCY
BOCK	FK40/470 · FK40/560 · FK40/655 · FK40/755 · FK50/980
VALEO	TM13 · TM15 · TM16 · TM21 · TM31 · TM43 · TM55 · TM65

Genuine Service Parts & After-Sales

- **Air-conditioning parts:** condenser fans, evaporator blowers, drier filters, temperature sensors, expansion valves.
- **Compressor parts:** seal shafts, oil pumps, valve plates, cylinders, seal gaskets — for BOCK, BITZER and VALEO compressors.
- **Accessories:** alternators, connectors, controllers, rubber hoses, compressor brackets, clutches, belts.
- **Maintenance manual:** every system ships with a manual for scheduled maintenance and part replacement.
- **Spare parts service:** fast response for troubleshooting and parts replacement.
- **Preventive care:** regular inspection, service-center troubleshooting and core cleaning guidance.

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Thank You

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Automotive air conditioning and industrial refrigeration — from Egypt to global markets.