BATTERY-POWERED CAB COOLING

24V Truck Air Conditioner

SKU: WTAC-24V-10C

Battery-powered cooling for engine-on or engine-off operation - no fuel consumed.



OUTDOOR UNIT



INDOOR UNIT

DC24V Split-Mounted Air Conditioner

10,000 BTU	DC 24 V	34 A
Rated cooling	Input voltage	Rated current

418 m3/h Airflow

R-134a Refrigerant

Product positioning

Standalone cab air conditioning for night-time and day-time use. The system is designed to cool the driver cabin during overnight rest, loading and unloading, and other parked or driving conditions where battery-powered cooling is required.

Applications: light- and heavy-duty trucks, construction machinery, agricultural machinery, mobile workshops and other specialty vehicles.

01 / FEATURES & OPERATION

Key Benefits & Operation

Battery-powered split air conditioning for truck and specialty-vehicle applications.

Key benefits

Battery-powered cooling

100% powered by a 24V battery and capable of cooling with the engine switched ON or OFF.

DC electric compressor

DC electric compressor with 2300 W / 8000 BTU cooling performance in accordance with the stated JIS test condition.

Soft-start operation

Soft-start operation designed to avoid flash / inrush current for safer, more stable startup.

Double battery protection

Double battery protection design intended to protect the vehicle battery system.

Split-mounted configuration

Split-mounted configuration with no drilling required on the cabin roof.

Pre-filled refrigerant

R-134a refrigerant pre-filled for system operation.

Operating description

01 Standalone air conditioning for night-time and day-time use with the engine switched OFF or ON, helping maintain cab temperature during rest and work periods.

02 Designed mainly to cool the driver cabin during overnight rest periods and during loading and unloading operations.

03 Suitable for light- and heavy-duty trucks, construction machinery, agricultural machinery, mobile workshops and other equipment.

SOURCE TEST CONDITIONS

JIS cooling test condition stated in the source: outside temperature 35°C; return temperature 27°C.

The source specifies T1 climate operation: 21°C to 43°C.

Product parameters may change with product improvement or updates.

02 / TECHNICAL SPECIFICATIONS

Product Specifications

24V split-mounted configuration.

Technical data

PARAMETER	WTAC-24V-10C
Product SKU	**WTAC-24V-10C**
Rated input voltage	DC24V
Working voltage range	DC21.5-32V
Rated cooling capacity (*)	3000W
Rated input power (*)	816W
Rated current consumption (*)	34A
Current draw range	13-45A
Airflow	418 m3/Hr
Working refrigerant	R-134a (620g)
Compressor type	24V Electric Compressor
Weight	6.5kg (Indoor unit) / 24kg (Outdoor unit)
Dimensions (L x W x H)	Outdoor: 682 x 465 x 192mm Indoor: 638 x 335 x 187mm

NOTES

(*) In accordance with JIS standard. Test condition stated in the source: outside temperature 35°C, return temperature 27°C.

The source also states that parameters may change without prior notice and that the unit is designed for T1 climate type (21°C-43°C).

03 / OUTDOOR UNIT

Outdoor Unit Dimensions

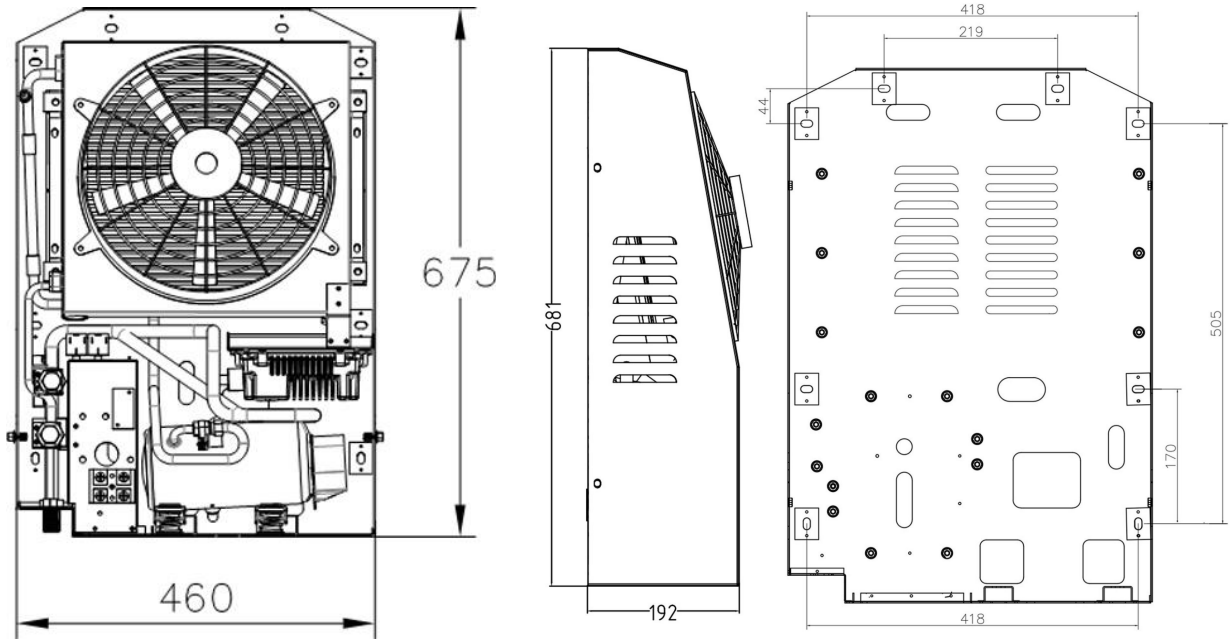
Outdoor Unit - Engineering Drawing

Reference dimensional drawing for installation planning.

Reference dimensional drawing for installation planning.

OUTDOOR UNIT DIMENSIONS

Drawing of Outdoor Unit



Outdoor unit dimension:681*465*192(L*W*H)

Installation size: 418*505mm

PRODUCT VIEW



Engineering drawing callouts

Engineering drawing callouts

Overall drawing

Overall drawing	681 x 465 x 192 mm

Installation size

Installation size	418 x 505 mm

Specification-table nominal

Specification-table nominal	682 x 465 x 192 mm

Note: the engineering drawing shows 681 mm length, while the product specification table lists 682 mm nominal length.

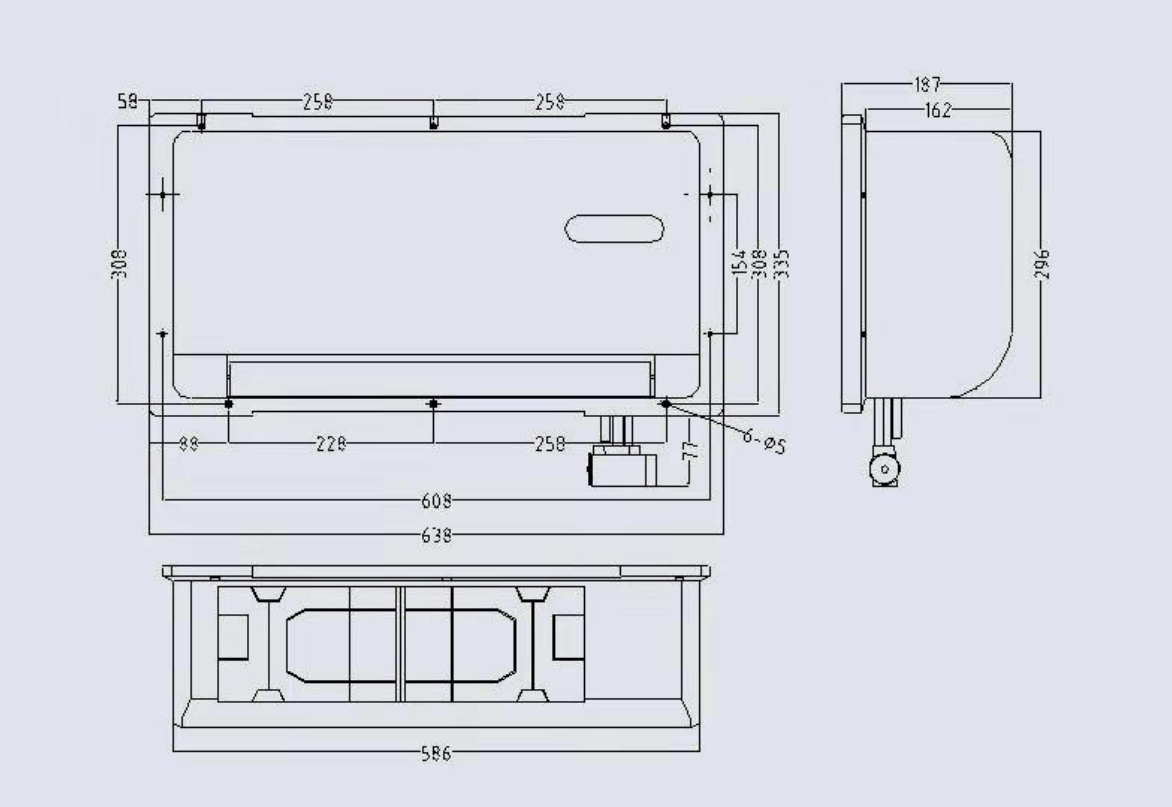
Note: the engineering drawing shows 681 mm length, while the product specification table lists 682 mm nominal length.

04 / INDOOR UNIT

Indoor Unit Dimensions

Reference dimensional drawing for installation planning.

INDOOR UNIT DIMENSIONS



Drawing of Indoor Unit



Nominal indoor unit

Width	**638 mm**
Height	**335 mm**
Depth	**187 mm**
Weight	**6.5 kg**

Unit: mm unless otherwise noted.