

 **THERMO KING**

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## Product Introduction EUT-1200

*Special Refrigerating Unit For Catering Truck*

TK API Product Management

Mar. 2022

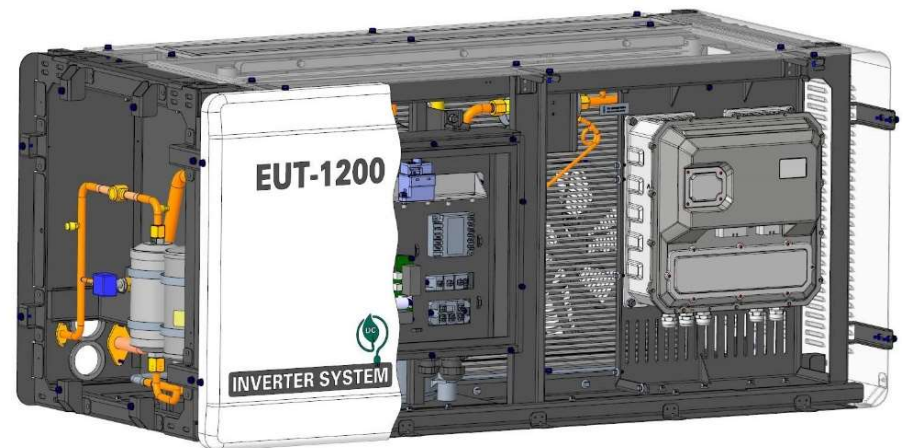


# Agenda

## Product introduction

- Key Feature
- Key parameters
- Dimension
- Matrix
- Performance
- Verification
- ✓ Field test
- ✓ Environmental protection

**EUT-1200**



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# Why choose EUT-1200?

For sales training

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# KEY FEATURE

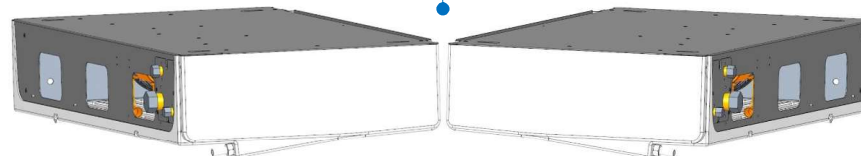
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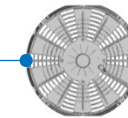
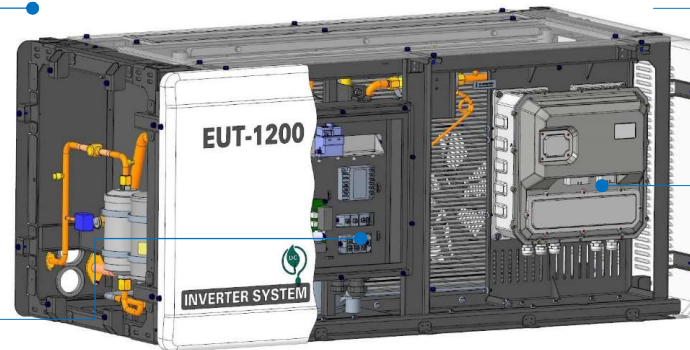
## Under Mounting Solution

- 20m removeable hose (10m drop)
- Wide operating range to 55 °C
- Equip hose to reduce installation cost



## Professional Service

- IOT services
- Record running data and trajectory timely
- Green environmental protection, zero emission
- Light weight design (270kg) , lighter 47% than SP units, saving operating costs



## DC brushless fan

>30000 hours lifetime with lower maintenance cost

## Excellent performance,

- Precise temperature control ( $\pm 0.5$  °C Tr)
- Accurately service for diverse needs via each Hertz
- Fast pull down, time shorten 38% comparing with SP units
- High-efficiency and ECO mode to benefit NEDC

## Reliability

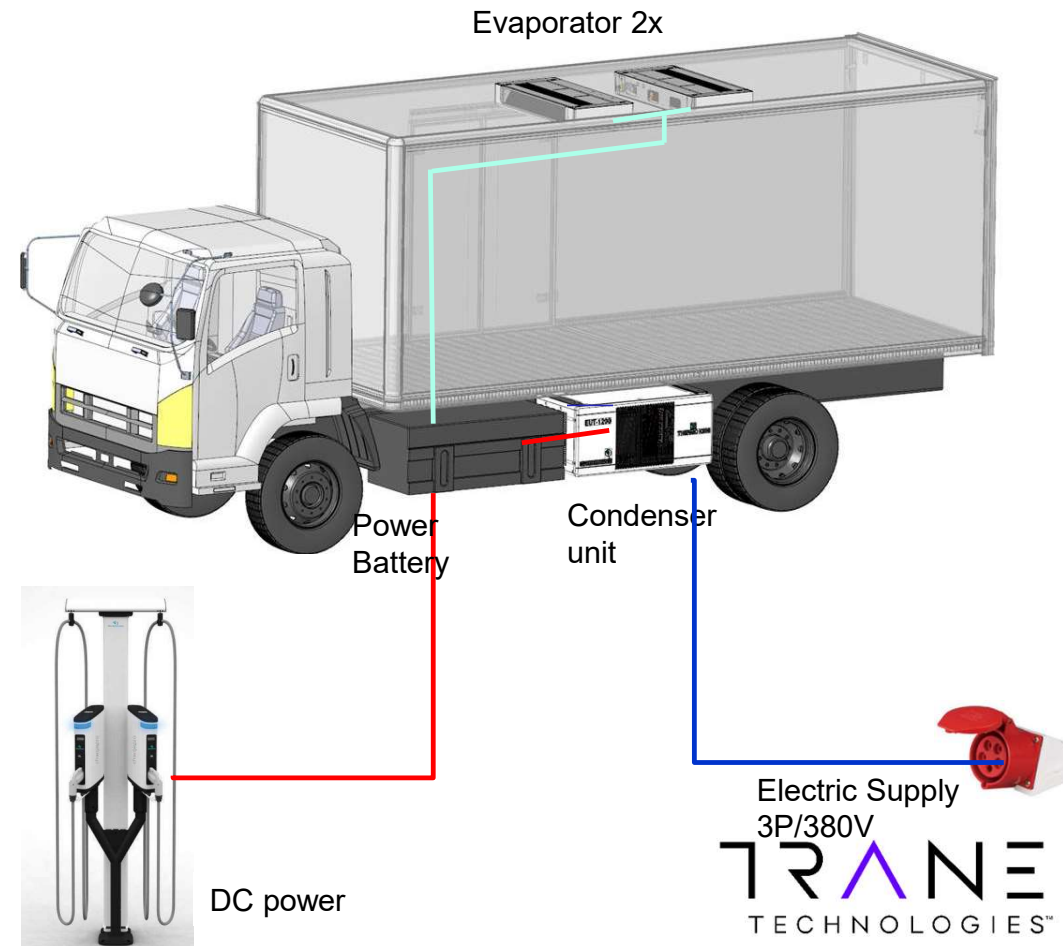
- Wide DC voltage input (330~750V)
- IP67, free of wading
- Intelligent control to keep running with small failures
- Multiple protection of refrigerant system

## EUT-1200 Electric VSD Refrigeration unit

# KEY PARAMETER



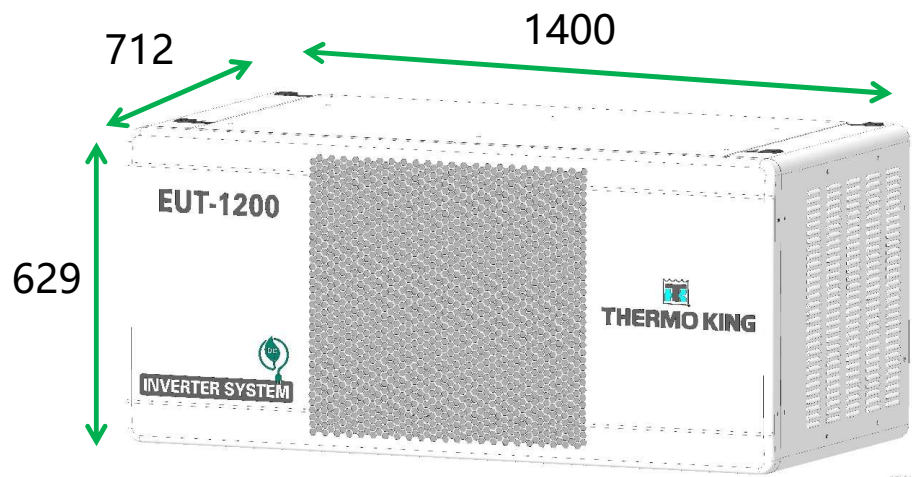
Specification	Unit	EUT-1200
Rated capacity@30/0°C	W	12000
Rated capacity@30/-20°C	W	6450
Air flow@0 Pa	m <sup>3</sup> /h	3500
Temperature Range	°C	-10 ~ 55 Cooling -25 ~ 55 Heating
Power Input		330-750VDC 3ph/380V/50HZ
Control Power		24VDC
Throttling		EEV
Fan		DC Brushless
Pipe		16m
Compressor		VSD Rotary
Weight	Kg	270
Mounting		Under mounting



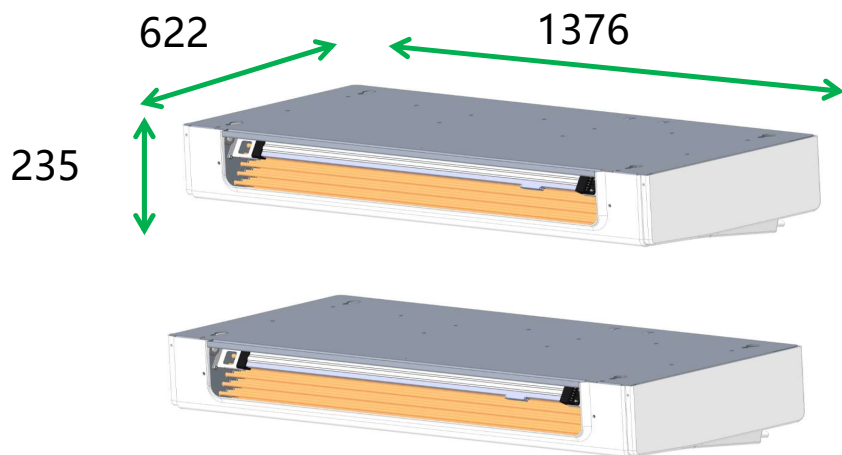
# DIMENSION

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- Compact condenser with 1400mm length, easy for installation
- Reliable Evaporator shared TK classic design platform



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# MATRIX



## EUT-1200 Matrix

Revision :A

Release Date :

2021/4/7

<b>EUT-1200</b>	<b>MAX20 24V new DC</b>	<b>MAX50 24V new DC</b>
<b>System</b>	904571	904572
Condenser	085799	085798
Evaporator	085759	085758
PDI for China Market	703222	703222
<b>LABEL FOR SERVICE</b>		
LABEL FOR SERVICE (EN Version)	702322	702322
LABEL FOR SERVICE (CN Version)	702012	702012
Crate	712880	712880
Accessory case	712878	712878



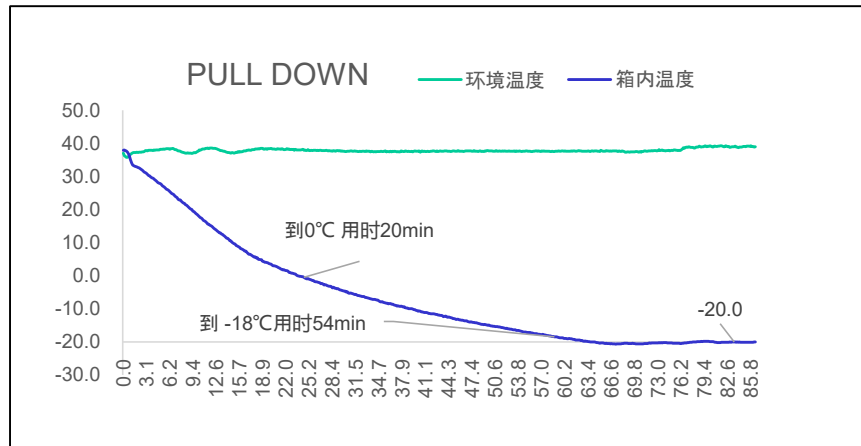
# COOLING CAPACITY

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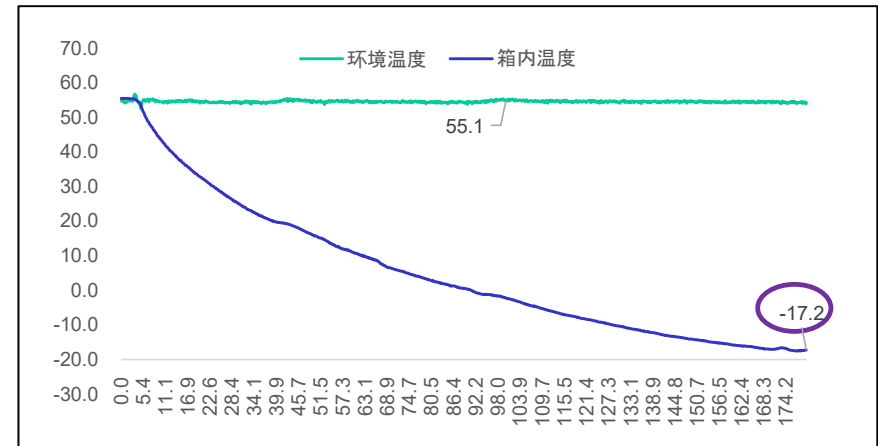
Testing	30/0	30/-20
	W	W
Capacity (Test)	11,649	6,279

Rated Pull Down Testing



Return air temperature within  $\pm 0.5^{\circ}\text{C}$

Maximum Pull Down Testing



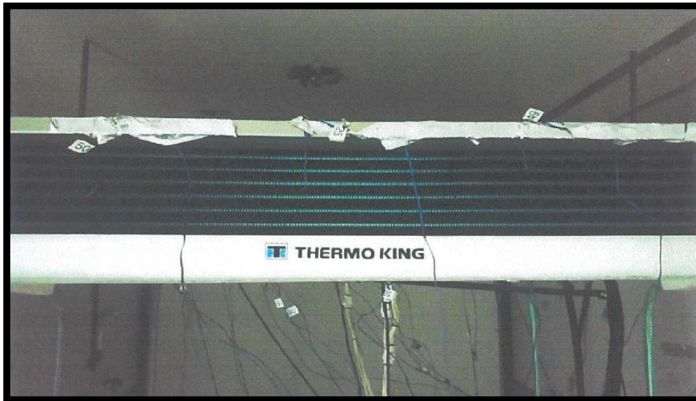
Run and pull down normally under  $55^{\circ}\text{C}$



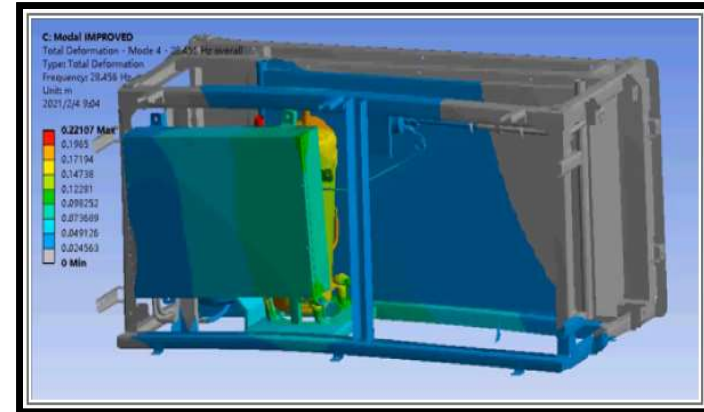


# VERIFICATION

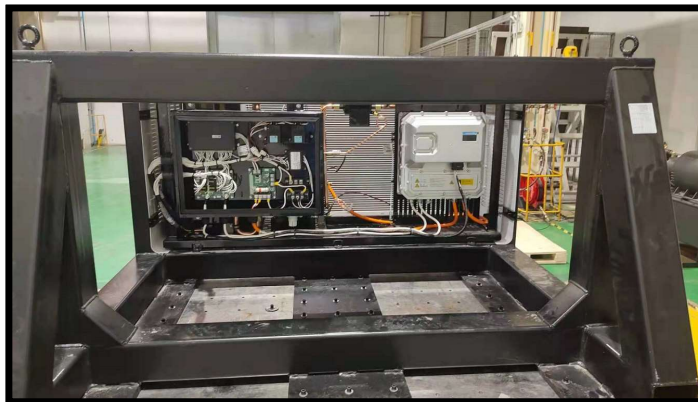
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System Reliability



FEA



Vibration



Wading Testing



Each product must pass rigorous testing before market.

# FIELD TEST

Cooling test conditions:

Venue: Beijing.

Box size: 7600\*2400\*2400mm.

Insulation coefficient of compartment: 0.4W/ (insulation \* K).

Battery power: 540VDC.

Ambient temperature: 29 °C.

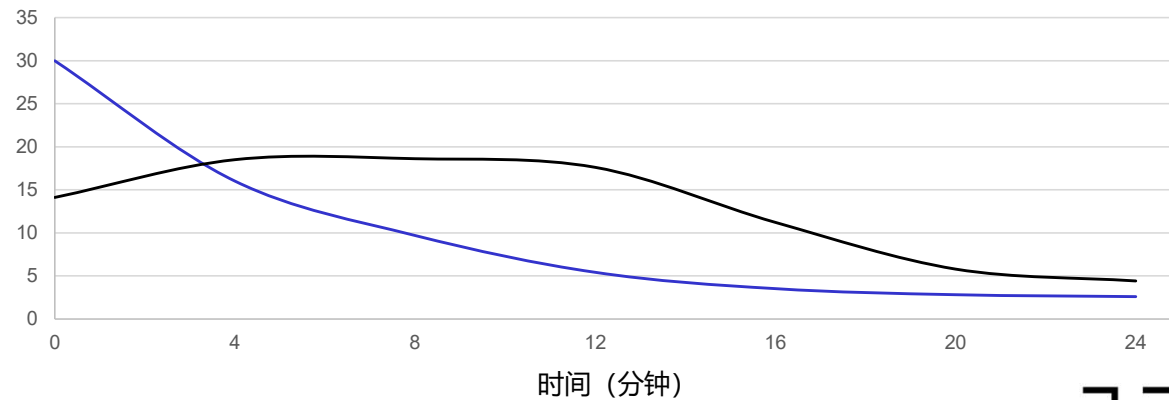
Temperature setting point: 3 °C



Time(min)	Temperature	Current(A)
0	30	14.1
4	16	18.5
8	9.7	18.6
12	5.4	17.6
16	3.5	11.2
20	2.8	5.8
24	2.6	4.4
28	3.2	4.7
32	3.0	4.6
36	2.7	4.6
40	2.9	4.5
44	3.1	4.6
48	2.9	4.5
52	2.9	4.4

**Pull Down Curve**

— 箱内温度 — 电流



Temperature go down from 29 °C to 3°C with 20min

# GREEN



Enclosed system with electric drive

ECO mode and intelligent control

Leakage rate down 64%

CO2 emission down 64%

Reducing CO2 emissions 2560kg per year which is equivalent to planting 140 trees.



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