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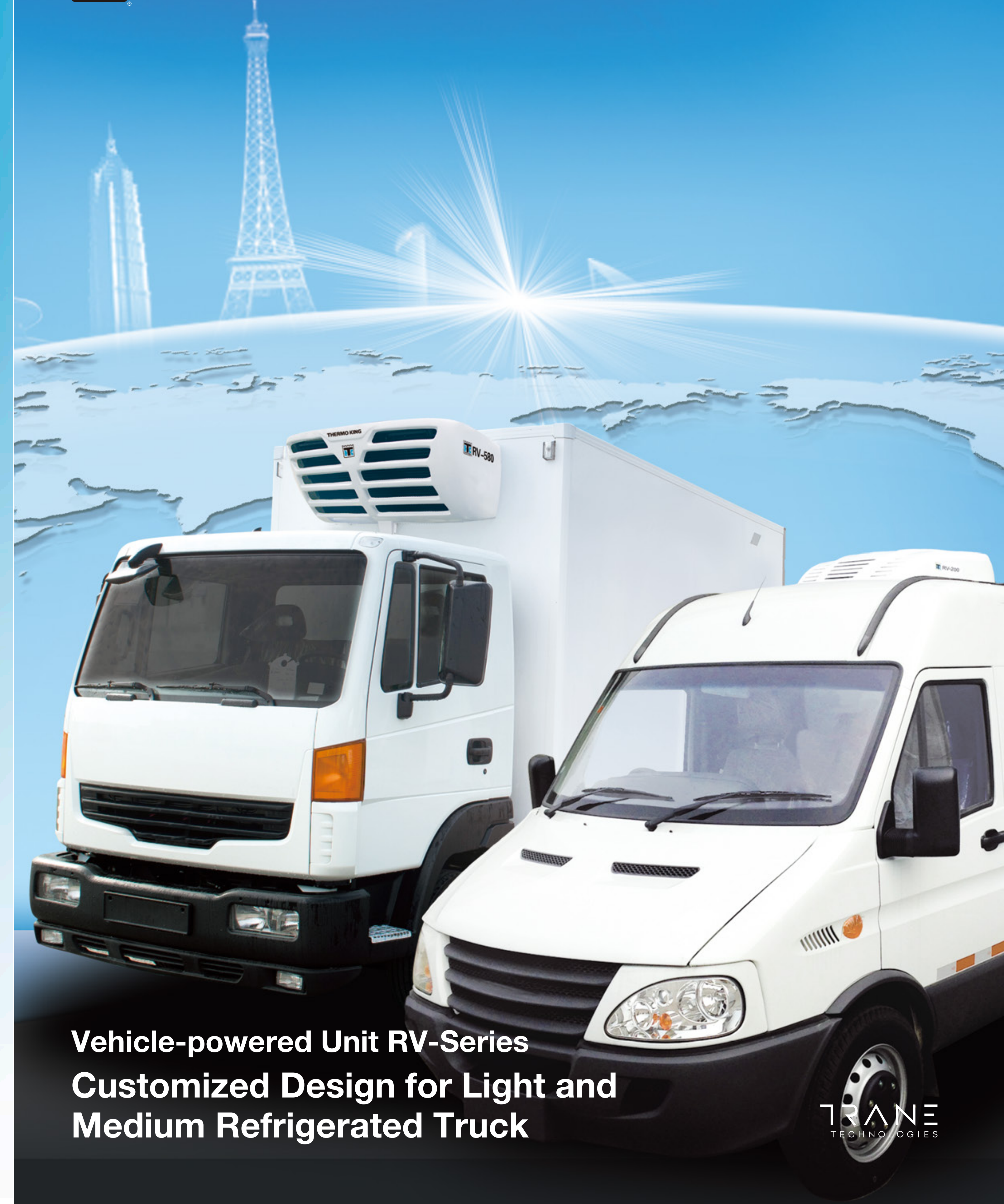
THERMO KING



Vehicle-powered Unit RV-Series

Customized Design for Light and Medium Refrigerated Truck

TRANE
TECHNOLOGIES

RV-Series

RV, as the acronym of **R**apid cooling/**R**eliable/**R**evolution **V**ehicle-powered, is specially designed for transport refrigeration in the range of light and medium distribution vehicles.

This all new RV platform is equipped with an optimized refrigeration system, robust TK compressor, and other proven components, which ensures high cooling capacity, quick pull down, precise temperature control, high reliability, easy use and low maintenance cost.

Product Models

- RV-200 (Roof & Nose-mounted)
- RV-300 (Roof & Nose-mounted)
- RV-380
- RV-580

Key Features

Greater Capacity and Higher Efficiency

- Larger condenser/evaporator coil for quicker heat exchange
- Fast pre-cooling for higher efficiency
- Greater cooling capacity for better load protection

Compact Design and Flexible Installation

- Patent design (RV-380 patent no. ZL201530106353.5)
- Light and compact for easy installation, esp. for light and mini vehicle
- Roof-mounted & nose-mounted for option (RV-200/RV-300)

Higher Reliability for More Uptime

- Long-life (10, 000 hrs) and one-piece fans
- TK robust compressor
- New electrical control system with high reliability

Easy to Use and Maintenance

- Improved electrical system
- Less refrigerant charge to care environment
- Removable relay design for better maintenance

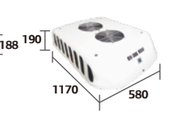
Specifications

Model		RV-200		RV-300	RV-380 Roof	RV-380	RV-580	RV-580 Plus	RV-680 II	RV-780 II
Temp. Range		-25℃~+30℃								
Refrigerant		R-404A								
Charge (kg)		1.10 (TK08 compressor)	1.15 (TK15 compressor)	1.2	1.7	1.8	2.5	2.5	2.5	2.6
Compressor										
Model		TK08	TK15	TK15	TK16	TK16	TK16	TK21	TK21	TK21
Number of Cylinder		6	6	6	6	6	6	10	10	10
Displacement (cm^3)		82	146	146	163	163	163	215	215	215
Cooling Capacity (W)		A.T.P. U.N. Standard @30℃ (Ambient)								
Engine Power	0℃	2,100	2,300	3,500	4,200	4,050	5,050	5,450	6,600	7,300
	-20℃	820	1,200	1,850	2,300	2,300	2,550	2,850	3,500	3,900
Cooling Capacity (W)		A.R.I. U.S. Standard @38℃ (Ambient)								
Engine Power	2℃	2,000	2,200	3,300	4,250	3,800	4,900	5,150	6,150	7,000
	-18℃	800	1,150	1,740	2,400	2,200	2,520	2,900	3,600	3,800
Evaporator blower performance										
Flow rate (@ 0 static pressure, m^3/h)		700		1,500	1,500	1,500	2,500	2,500	2,500	3,000
Velocity (m/s)		3.0		3.3	3.3	3.3	3.0	3.0	3.0	3.5
Total current consumption on the road (A)										
12 VDC		30		36	30.8	36	44	44	-	-
24 VDC		15		18	16.7	18	22	22	22	29
Weight (kg, approximate)										
Condenser		24 (roof-mounted), 23 (nose-mounted)		24 (roof-mounted), 23 (nose-mounted)	25	30	45	45	50	50
Evaporator		9		15	16	18	30	30	30	31
Compressor		4.1 (TK08), 4.3 (TK15)		4.3	4.7	4.7	4.7	5.1	5.1	5.1

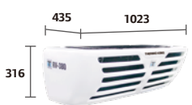
Note: Refrigerant charge listed is for reference. Vehicle and piping configurations determine correct charge weights.

Dimensions (mm)

RV-200/RV-300 Condenser
（Roof-mounted/Nose-mounted）



RV-380 Roof Condenser

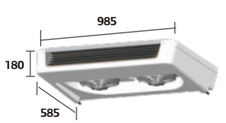


RV-380 Condenser

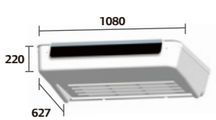
RV-580/RV-580 Plus Condenser

RV-680 II/RV-780 II Condenser

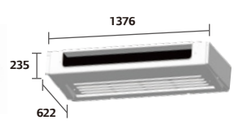
RV-200 Evaporator



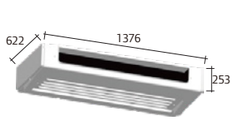
RV-300/RV-380 Roof Evaporator



RV-380 Evaporator



RV-580/RV-580 Plus/RV-680 II Evaporator



RV-780 II Evaporator