

# Technical Information

## Refrigeration Unit SC510

Superior reliability, for Large-sized delivery vehicles.

**Frozen 25m<sup>3</sup> - Fresh 42m<sup>3</sup>**



### 1. Control panel

Digital display, intelligent temperature control and fault indication.

### 2. Compressor

QUE QP16 , high efficiency, large displacement, reliable.

### 3. Evaporator and Condenser fan

SPAL, world famous brand, high air volume, low noise, high efficiency.

### 4. Expansion valve

DANFOSS, high reliability, high adjustment accuracy and excellent performance.

### 5. Condenser core

Advanced micro-channel and variable flow technology. Compact structure, higher heat transfer coefficient, light weight, lower cost and less refrigerant charge.

### 6. Evaporator coil

SONGZ, adopt small diameter (Ø7mm) and inner grooved copper tube, comparing to Ø9mm copper tube, the coefficient of heat transfer is improved by 5%, condensing temperature declines 2~3°C, system efficiency rises 5~8%, refrigerant filling declines 10%.

### 7. Framework and Shell

The framework adopts aluminum alloy, the shell adopts ABS plastic. The condenser and evaporator has compact structure, elegant appearance, streamline design, small wind resistance.



Control Panel



Fan



Compressor



Condenser Core

# Product Specifications

## Refrigeration Unit SC510

Frozen 30m<sup>3</sup> - Fresh 48m<sup>3</sup>

Cooling capacity(W)	1.7°C	4.9KW
	-17.8°C	2.8KW
Applicable temperature	-25~20°C	
Applicable volume	25~42m <sup>3</sup>	
Compressor	Model	QP16
	Type	Swash plate
	Displacement	163cc
	Lubricant type	POE R68H
Condenser	Type	Parallel flow
	Fan model	Axial fan
	Voltage	12V/24V
Evaporator	Type	Internal thread copper pipe aluminum fin
	Fan model	Axial fan
	Voltage	12V/24V
Throttling type		External equalizer expansion valve
Refrigerant		R404A
Refrigerant filling volume		1.9kg
Defrost type		Hot gas defrost
Installation		Front mounted type
Dimensions	Evaporator	L×W×H=1557×595×180mm
	Condenser	L×W×H=1150×515×352mm
Weight	Evaporator	31kg
	Condenser	34kg

Recommendations are based on precooled loads and K value of 0.35 W/m<sup>2</sup>K is used for frozen goods and 0.5 W/m<sup>2</sup>K for fresh goods for a distribution of 8 hours. Recommendations are not a guarantee of performance as there are many variables to be considered.