

DAIKIN

ZESTIA SERIES



zESTIA

INVERTER

DAIKIN INDUSTRIES, LTD.



DAIKIN Inverter Technology, Premium Cargo Care and Ultimate Energy Efficiency.



Based on the technologies that established the high reliability and performance of the LXE Series in the container refrigeration market, ZESTIA is a new container refrigeration unit featuring a DC inverter compressor that enables further reductions in operating costs.

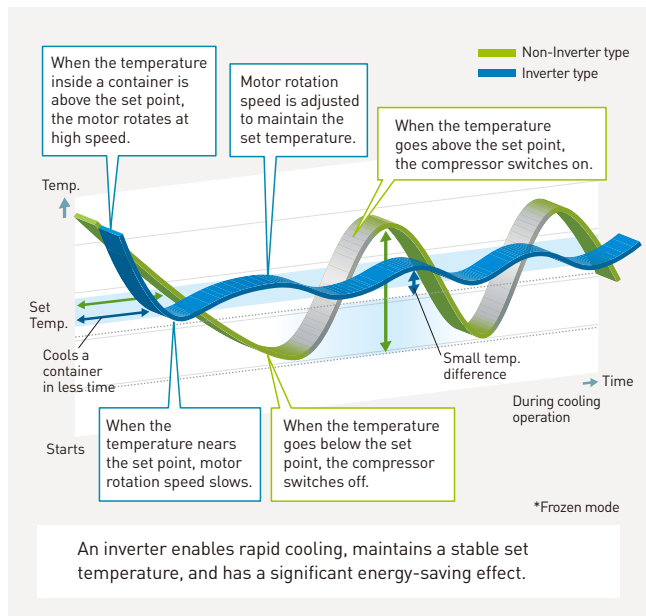
High Capacity and Energy-Saving Control with the New DC Inverter Compressor

Over 3 million Daikin DC inverter compressors have been supplied and are proving their performance, reliability and quality in the air conditioner market.

What is an Inverter ?

A container refrigeration unit's compressor is driven by a motor that rotates at a speed determined by the frequency of the electrical power supply. An inverter system controls the compressor rotation speed by changing the power supply frequency and provides precise temperature control with low power consumption.

Inverter/Non-inverter temperature control*



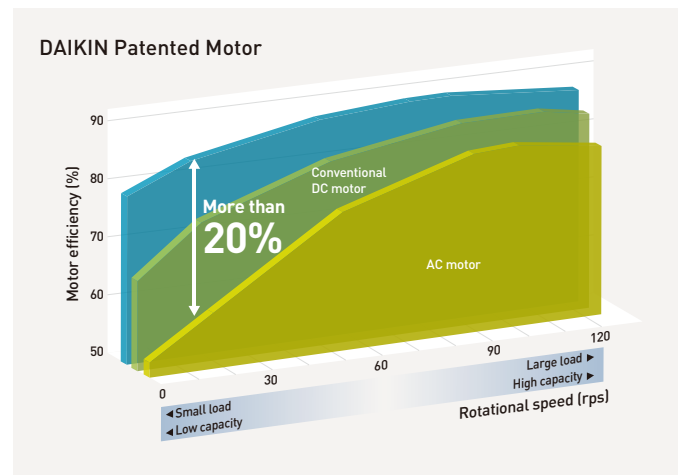
DAIKIN Patented Motor, the Key to High-Efficiency Operation

DAIKIN Patented Motor features powerful neodymium magnets that improve motor efficiency at all rotational speeds for energy-saving operation, particularly during the operation at low frequencies.



This was the first scroll compressor to be equipped with the DAIKIN Patented Motor in commercial-use air conditioners. The Institute of Electrical Engineers of Japan presented the award in 1998.

Efficiency of DAIKIN Patented Motor*



* Data are based on studies conducted under controlled conditions at a Daikin laboratory using Daikin products.

Top Class Energy Saving



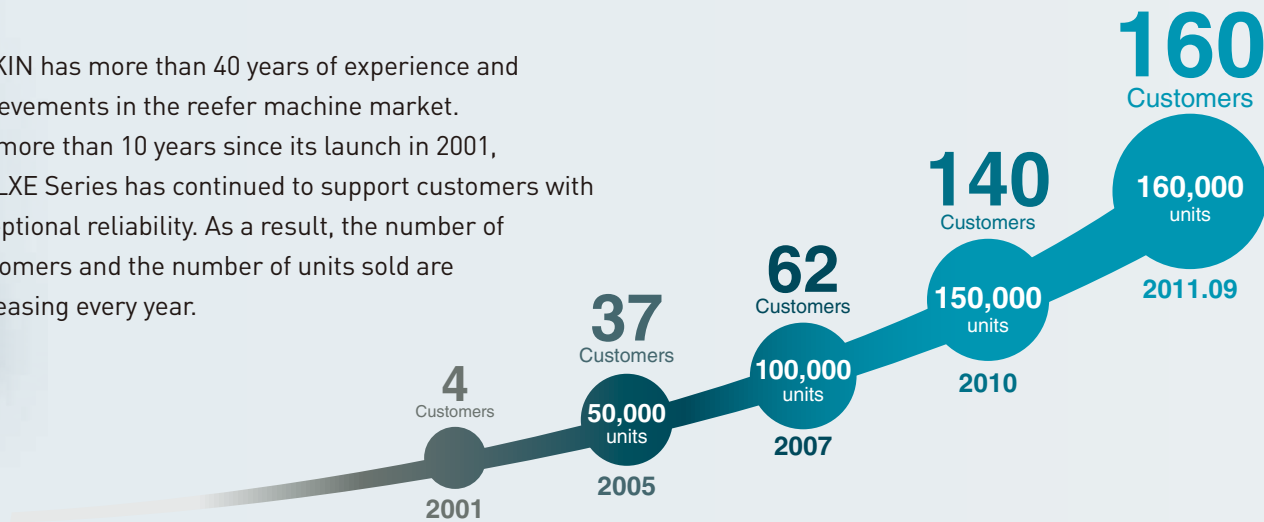
High-efficiency control with inverter technology

High energy saving is what you would expect from DAIKIN, the world's No.1 air conditioner maker. As well as reducing total operating costs, and reducing CO₂ emissions, the inverter technology also contributes to the prevention of global warming.

Two-speed condenser and evaporator fan motor for improved condensation performance

High energy-saving performance and fine, stable temperature control maintain the freshness and high quality of items during shipping.

DAIKIN has more than 40 years of experience and achievements in the reefer machine market. For more than 10 years since its launch in 2001, the LXE Series has continued to support customers with exceptional reliability. As a result, the number of customers and the number of units sold are increasing every year.



User-friendly interfaces for easy operation and maintenance



Easy-to-Use Controller with Full-Dot Matrix LCD

Controller with LCD and backlight gives a clearer view and simplifies operations.



Features a large (5.7-inch), easy-to-see, backlight LCD

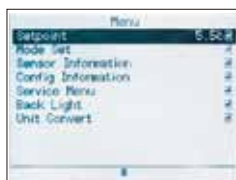
Current Display

After start-up, the display automatically switches to the current display. It gives basic information such as settings and operating conditions.



Menu Display

The full-dot Matrix LCD enables display of a wide range of information on a single screen, making it easier to move on to the next operation.



USB memory download and software upload



Eliminates the need to take a PC to the worksite and greatly reduces download time.



Easy, at-a-glance I/O board checking



LEDs make it easier to check failed parts and avoid misjudgement of problem parts.



With the Proven Features of the LXE Series

Scroll Compressor

In-house Manufacturing

Hot Gas Defrost & Dehumidification

Auto Pump Down



Specifications & Options

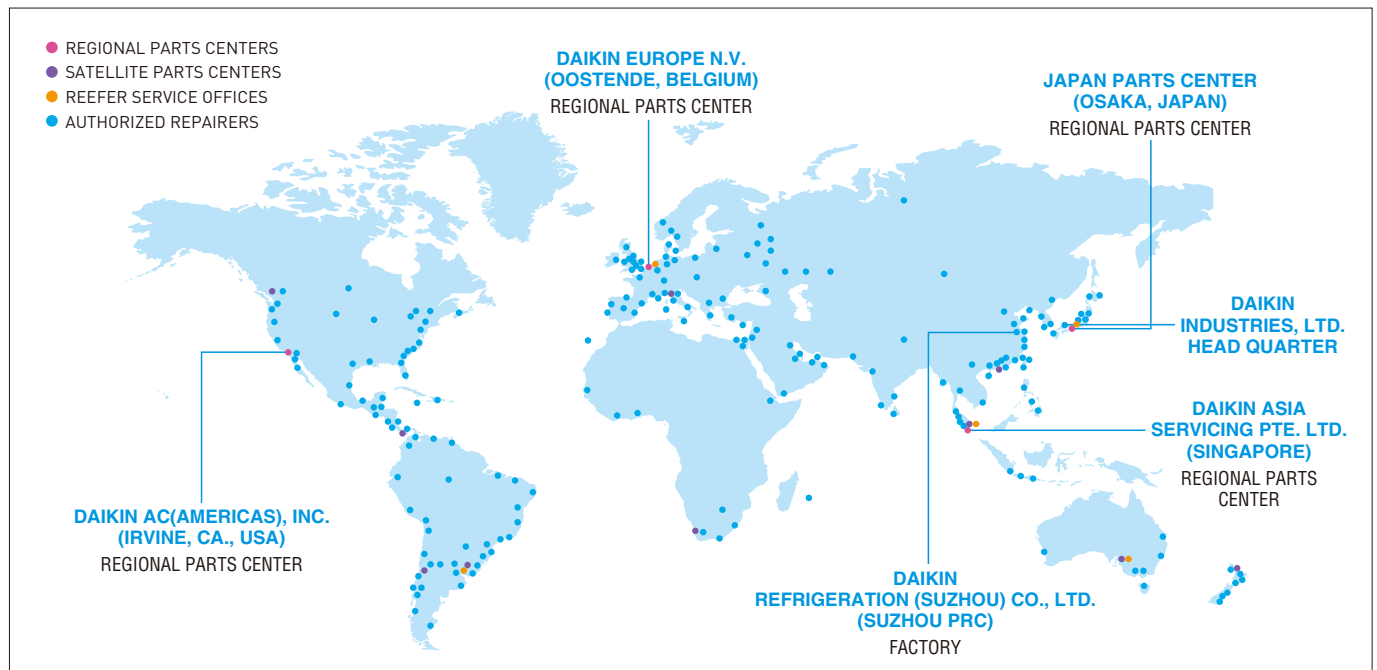
Model	LX10F	
Cool air flow direction (Evaporator)	Bottom air discharge	
Cooling capacity (60Hz)	Inside temp. 2°C, Ambient temp. 38°C	12,000W
	Inside temp. -18°C, Ambient temp. 38°C	6,600W
Heating capacity (60Hz)	Inside temp. 16°C, Ambient temp. -20°C	5,100W
Air flow rate (Evaporator) (50/60Hz)	High (ESP=12.7mmH ₂ O)	86.8m ³ /min
	Low (ESP=3.2mmH ₂ O)	43.4m ³ /min
Fresh air intake (EPS=12.7mmH ₂ O, 60Hz)	0~250m ³ /h	
Power supply (50/60Hz) Standard unit (single power supply)	3-phase 380, 400, 415VAC/440, 460VAC	
Control circuit voltage	24VAC	
Max. power consumption	13.5kW	
Refrigerant	Type	R134a
	Charged amount	6.7kg
Inside temperature range	-30~30°C (-22~86°F)	
Compressor	Type	Hermetic scroll compressor
	Lubricant oil Type	Daphne hermetic oil FCV68D
	Charged amount	1.9L
Air cooled condenser type	Cross Finned Coil	
Air cooled evaporator type	Cross Finned Coil	

Fan motor	Condenser Type	Propeller
	Output	670W/120W x 1
	Evaporator Type	Propeller
	Output	400W/60W x 2
Controller	Type	DECOS V
	Automatic PTI	Full, Short, and Customized PTI
Refrigerant control	Electronic expansion valve	
Ambient temperature range	-30~50°C (-22~122°F)	
Defrost	Heat source	Hot gas
	Initiation	Timer or on-demand and Manual
	Termination	By temperature of evaporator outlet sensor or timer
Protective devices	Protection thermostat (Compressor, Fan, Motor)	
	Fuse, Circuit breaker,	
	High pressure switch, Fusible safety plug	
Dimensions	Height	2,234.5mm
	Width	2,025mm
	Depth	415mm
Weight	Standard unit (single power source)	447kg (*)
Classification Society Approval	BV	
Options	Please inquire for details	

* Differs depending on the specifications of the product.
 • This product complies with the following standards: T.I.R. (Customs Convention on the International Transport of Goods under cover of TIR Carnets), ISO1496/2; 1996 (container refrigeration standard), USDA (United States Department of Agriculture)

Dependable Service Network

With more than 300 service offices around the world Daikin can offer customers the support where and when they need it.



ISO 9001
BUREAU VERITAS
 Certification
 N°272871

Organization:
 Daikin Refrigeration (Suzhou) Co., Ltd.
 Scope of Registration:
 Production of Marine Container Refrigeration Unit

ISO 14001
BUREAU VERITAS
 Certification
 N°273390

Organization:
 Daikin Refrigeration (Suzhou) Co., Ltd.
 Scope of Registration:
 Production of Marine Container Refrigeration Unit

ISO 14001
JACO
 CERTIFICATION ORGANIZATION FOR ENVIRONMENTAL MANAGEMENT
 EC89J2044

UKAS
 ENVIRONMENTAL MANAGEMENT
 051

All Daikin Industries locations and subsidiaries in Japan have received environmental management system standard **ISO 14001** certification.
Daikin Industries, Ltd. Domestic Group
 Certificate Number. EC99J2044

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The specifications, designs, and information in this brochure are subject to change without notice.