Letter of Authorization

We, **Zhongke Meiling Cryogenics Co.,Ltd,** based in No.1862 Zishi Road,Hefei City,Anhui,China, assign Triumf Motiv SRL, based in Str Grenoble 193, Chisinau MD -2011, Moldova, as authorized representative in correspondence with the conditions if directive 93/42/EEC, 98/79/EEC and 90/385/EEC.

We declare that the company mentioned above is authorized to register, notify, renew or modify the registration of medical devices on the territory of the Republic of Moldova.

Valid to 31th, Dec.,2023

中科美菱低温科技股份有限公司 Place:Afficient CRYCGENICS COMPANY LIMITED

Date: 26/04/2023

Signed: Vincent Car

公司地址: 合肥市经开区紫石路 1862 号 (230601)

Address: No. 1862 Zishi road, Economic Technology Development Zone, Hefei city. (230601)

电话: (+86) 551 64317378 传真: (+86) 551-64312228 Tel: (+86) 551 64317378 Fax: 551-64312228

http://www.zkmeiling.com

2~8°C /-10~-26°C Combined Refrigerator and Freezer

Separate Control of Refrigeration & Freezing



YCD-EL450 (€

Environmentally Friendly & High-efficiency

Environmentally-friendly Freon-free refrigerant and high-efficiency compressor supplied by an international famous brand ensure energy saving and high efficiency.

Refrigeration System

Two compressors and separate control of the upper refrigeration chamber and the lower freezing chamber.

☐ High-precision Computerized Temperature Control

The digital temperature display can indicate operating status clearly, and users may set the high temperature/low temperature alarm points based on their needs.

4 Thermal Insulation System

The CFC-free polyurethane foam technology and the thicker insulating layer can improve the effect of thermal insulation.





Temperature Control System

- · High-precision microcomputer temperature control system with build-in control/alarm sensors for High/low temperature, ambient temperature and evaporator temperature etc. ensuring the safe and stable running;
- $\cdot 1$ inch high brightness digital temperature display with 0.1°C display precision; the temperature can be set freely.



Refrigeration System

- · Equipped with high-efficiency compressor and international brand fan, ensuring energy saving and silent running;
- Two compressors and separate control of the upper refrigeration chamber and the lower freezing chamber.





Security System

· Perfect audible and visual alarm system makes it safer for storage. Equipped with alarm functions including high/low temperature alarm, high ambient temperature alarm, sensor failure alarm, door ajar alarm, power failure alarm etc; · Buzzer alarm for the door opening more than 1 minute, alarm automatically muted when the door is closed.





Human-oriented

- ·The freezing chamber interior is equipped with 6 drawers, refrigerating chamber 3 coated steel wired shelf for object storage;
- ·4 casters for the front and back, 2 front casters with lock.

Scope of Application

Refrigerator Cooling

Performance Data / Cooling Curve

Suitable for use in scientific research, cryogenic test on special materials, blood plasma cryopreservation, low temperature resistance test on biological materials, vaccines, biological products and military products, etc. Suitable for use in research institutions, the electronic industry, the chemical industry, hospitals, the health, & disease prevention system, laboratories in colleges & universities, military enterprises, etc.

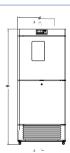
(°C) 30 30 31 31 31 31 31 32 32 32 32 32 33

Freezer Cooling -

External Dimensions

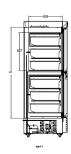












2~8°C /-10~-26°C Combined Refrigerator and Freezer		
Model	YCD-EL450	
Cabinet type	Upright	
Capacity (L)	450,R:225,F:225	
Internal size (W*D*H) mm	R:650*570*627, F:650*570*627	
External size(W*D*H) mm	810*735*1960	
Package size (W*D*H) mm	895*820*2135	
NW/GW (Kgs)	144/156	
Performance		
Temperature range	R:2~8°C, F:-10~-26°C	
Ambient temperature	16~32°C	
Cooling performance	R:5, F:-26	
Climate class	N	
Controller	Microprocessor	
Display	Digital display	
Refrigeration		
Compressor	2pcs	
Cooling method	R: Forced air cooling , F:Direct cooling	
Defrost mode	R:Automatic, F:Manual	
Refrigerant	R600a	
Insulation thickness(mm)	L/R: 80, B: 80	
Construction		
External material	PCM	
Inner material	Sprayed aluminum plate	
Shelves	R:3(coated steel wired shelf), F:6(ABS)	
Door lock with key	Yes	
Lighting	LED	
Access port	2pcs. Ø 25 mm	
Casters	4 (2 casters with brake)	
Data logging/Interval/Memory capacity	USB/Record every 10 minutes/100,000 data	
Door with heater	Yes	
Backup battery	Yes	
Backup battery Alarm	Yes	
	Yes High/Low temperature, High ambient temperature	
Alarm		
Alarm Temperature	High/Low temperature, High ambient temperature	
Alarm Temperature Electrical	High/Low temperature, High ambient temperature Power failure, Low battery	
Alarm Temperature Electrical System	High/Low temperature, High ambient temperature Power failure, Low battery	
Alarm Temperature Electrical System Electrical	High/Low temperature, High ambient temperature Power failure, Low battery Sensor failure, Door ajar, Built-in USB datalogger failure, Communication failure	
Alarm Temperature Electrical System Electrical Power supply (V/HZ)	High/Low temperature, High ambient temperature Power failure, Low battery Sensor failure, Door ajar, Built-in USB datalogger failure, Communication failure 220-240~/50	
Alarm Temperature Electrical System Electrical Power supply (V/HZ) Power (W)	High/Low temperature, High ambient temperature Power failure, Low battery Sensor failure, Door ajar, Built-in USB datalogger failure, Communication failure 220-240~/50 276	
Alarm Temperature Electrical System Electrical Power supply (V/HZ) Power (W) Power consumption (KWh/24h)	High/Low temperature, High ambient temperature Power failure, Low battery Sensor failure, Door ajar, Built-in USB datalogger failure, Communication failure 220-240~/50 276 3.29	

 $^{{}^{\}star} \text{The model, parameters and performance specified in this brochure may be changed without prior notice because of product upgrading.}$

^{*}There may be differences between the product images shown in this brochure and the actual products. When you are buying any product, please check the actual product.





YC-650L

Real Air Cooling

The multi-duct vortex refrigeration system and finned evaporator can prevent frosting completely and improve temperature uniformity to a large extent.

Real Energy Saving

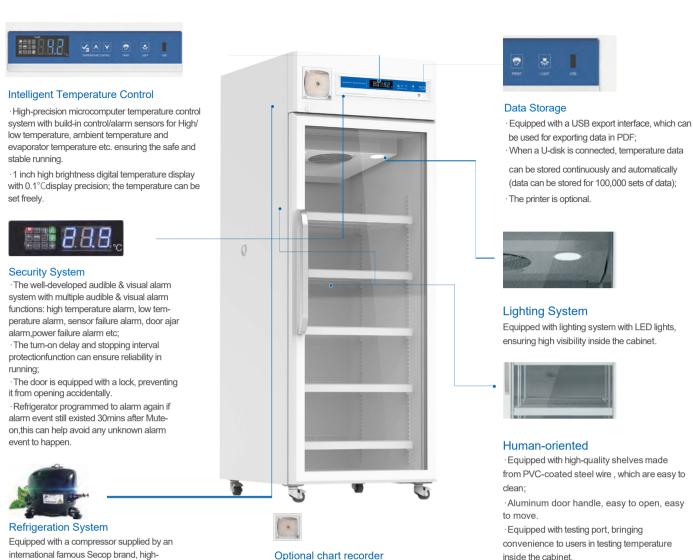
The refrigerator is equipped with "M + Energy Core" power management system and complete air cooling design, improving energy saving efficiency by more than 40%.

M Real Visibility

The electrical heating + LOW-E design with double considerations can achieve a better anti-condensation effect for the glass door.

Real Safety

 $\,$ 6 temperature probes can ensure high precision of temperature control with nearly no fluctuation and thus can improve safety.



efficiency air-cooled condenser and finned evaporator, ensuring fast refrigeration.

- · This technology provides you with temperature recorders without electronics.
- · No power supply is required.
- European imported brand , durable and reliable

- from PVC-coated steel wire, which are easy to

Scope of Application

Suitable for storage of biological products, vaccines, drugs, reagents, etc. Suitable for use in pharmacies, pharmaceutical factories, hospitals, centers for disease prevention & control, clinics, etc.

Performance Data / Cooling Curve External Dimensions Cooling Air Temp 20 15 10 n 20 40 50 70 80 60 100 110

-8°C Pharmacy Refrigerator	VO CEOL	
Model	YC-650L	
Cabinet Type	Upright	
Capacity(L)	650	
Internal Size(W*D*H)mm	605*725*1515	
External Size(W*D*H)mm	715*890*1985	
Package Size(W*D*H)mm	773*947*2154	
NW/GW(Kgs)	142/185	
Performance		
Temperature Range	2~8°C	
Ambient Temperature	16~32°C	
Cooling Performance	5°C	
Climate Class	N	
Controller	Microprocessor	
Display	Digital display	
Refrigeration		
Compressor	1pc	
Cooling Method	Air cooling	
Defrost Mode	Automatic	
Refrigerant	R290	
Insulation Thickness(mm)	L/R: 55, B: 55	
Construction		
External Material	PCM	
Inner Material	Stainless steel/Sprayed aluminum plate (optional)	
Shelves	5 (coated steel wired shelf)	
Door Lock with Key	Yes	
Lighting	LED	
Access Port	1pc. Ø 25 mm	
Casters	4 (2 casters with brake)	
Data Logging/Interval/Memory capacity	USB/Record every 10 minutes/100,000 data	
Door with heater	Yes	
Alarm		
Temperature	High/Low temperature, High ambient temperature	
Electrical	Power failure, Low battery	
System	Sensor failure, Door ajar, Built-in USB datalogger failure, Communication failure, Condenser overheating	
Electrical		
Power Supply(V/HZ)	220-240~50/60	
Rated Power(W)	480	
Power Consumption(KWh/24h)	4.88	
Rated Current(A)	3.06	
Accessory		
Accessory Standard	RS485, Remote alarm contact, Backup battery	

^{*}The model, parameters and performance specified in this brochure may be changed without prior notice because of product upgrading.

^{*}There may be differences between the product images shown in this brochure and the actual products. When you are buying any product, please check the actual product.





VERIFICATION OF MD COMPLIANCE **Page:** 1 of 2

No.: AHES210500141001HSC

Applicant: Zhongke Meiling Cryogenics Company Limited.

No.1862, Zishi Road, Economic Development Zone, Hefei,

Anhui, China

Manufacturer: Same as applicant

Product Description: Combined refrigerator and freezer

Model No.: YCD-EL289, YCD-EL300, YCD-EL450, YCD-EL519

Rating: See page 2

Additional Information (if any): None

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard: EN 60335-2-89:2010 + A1:2016 + A2:2017

EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 +

A14:2019 + A2:2019 EN 62233:2008

as shown in the

AHES210500141001 Test Report Number(s):

This Verification of MD Compliance has been granted to the applicant based on the results of tests, performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards and the Machinery Directive 2006/42/EC. The CE mark as shown below can be affixed, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The affixing of the CE marking presumes in addition that the conditions in annexes III of the Directive are fulfilled.

Hunter Lin Laboratory Technical Manage SGS-CSTC



2021-08-04

Copyright of this verification is owned by SGS-CSTC Standards Technical Services Co., Ltd. and may not be reproduced other than in full and with the prior approval of the General Manager. This verification is subjected to the governance of the General Conditions of Services, printed overleaf.

Member of SGS Group (Société Générale de Surveillance)

Note: You may contact us to validate this document by email address: EE.shanghai@sgs.com



VERIFICATION OF MD COMPLIANCE Page: 2 of 2

No.: AHES210500141001HSC

Other information added:

Rating: 220 V - 240 V; 50 Hz; Class I; Cyclopentane; Climate Class: 4;

Model	Refrigerant	Rated current
YCD-EL289	R600a / 20 g;	1,85 A
	R600a / 45 g	
YCD-EL300	R600a / 20 g;	1,37 A
	R600a / 60 g	
YCD-EL450	R600a / 26 g;	2,10 A
	R600a / 75 g	
YCD-EL519	R600a / 26 g;	2,38 A
	R600a / 75 g	



2021-08-04

Copyright of this verification is owned by SGS-CSTC Standards Technical Services Co., Ltd. and may not be reproduced other than in full and with the prior approval of the General Manager. This verification is subjected to the governance of the General Conditions of Services, printed overleaf.

Member of SGS Group (Société Générale de Surveillance)

Note: You may contact us to validate this document by email address: **EE.shanghai@sgs.com**