



Optimised driving system. Superior temperature control.

Hot & Cold Tray Service Carts for Hospitals & Aged Care Facilities



Imported exclusively by:

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BRAND VALUES



Incessant R&D with aggressive investment for successful long-term business



Provision of custom-made solutions



Practical and systematic product inspection



Systematic customer care through after-sales services



A first mover and a leader in Korea's domestic market



Increased exports based on overseas marketing

MYUNGSE CMK STRENGTHS



They can be safely used for a long time, thanks to their various safety devices and strong structure.



They enable excellent temperature and hygiene control.



Convenience

They can be conveniently used, thanks to electromotive operation and integrated control system.

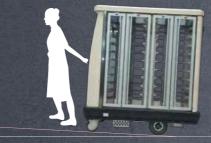
Even when the cart is full of meals, it runs smoothly with a soft press of the forward–reverse lever.



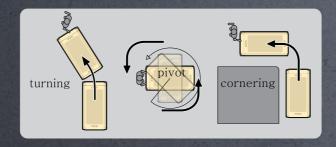
It can run safely, thanks to its reverse–run alarm function. Its touchscreen display enables rear-side viewing.



It can smoothly run on slopes with a maximum inclination of 5°. Its speed can be automatically maintained at a constant when it runs downslope.



Its front casters, which rotate in several directions, enable easy turning.



It is driven by battery. When the battery is fully charged, an automatic control system is actuated to prevent overcharging. * Its charging time and operation time may vary depending on the service environments.



It features maximized user convenience and satisfaction. It runs smoothly even when it is fully loaded.





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"EMOS COMPACT SERIES"



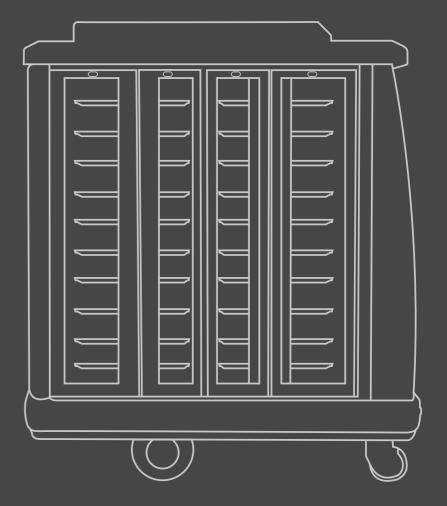
Standard models

The EMOS Compact models feature hot/cold storage and electromotive operation systems to provide patients with fresh meals, thus improving user and patients satisfaction. EMOS Compact, the representative products of MYUNGSE CMK, have long been popular. The company continuously upgrades its EMOS Compact Series to improve user convenience.

New EMOS Compact carts are the current model with new functions added to the existing ones of the previous EMOS Compact. New EMOS Compact carts (HA) include sub-models such as EB (Basic) and EP (Prestige: alway-on hot and cold).

EMOS Compact Series

EMOS Compact Basic (EB)	••••••••••
EMOS Compact Prestige (E	(P)
EMOS Compact Original	••••••



^{*} Exporting model for Emos Compact uses the tray model HA-T509

EMOS COMPACT BASIC



Chamber temperature array

General type (T470)	ж ү ж ү
Export type (T509)	♦ * ♦ Н − С − С − Н

Precautions





▶ Product safety

Features of EMOS Compact Basic and Prestige and Change-up



Front and rear cameras with black box function (optional)

The cameras prevent collision by providing a view of the front blind spot, and enable recording that can be used as evidence in case a collision occurs,



Motor reducer suspension

Absorbing impact to prevent damage to the reducer.



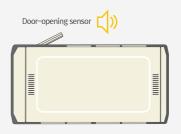
Full water-level detection sensor

If the water level of the condensate tray approaches the full level, it is notified to the user in order to prevent condensate overflow



Ultrasonic collision–prevention sensor (optional)

Ultrasonic impact sensors prevent damage to the product from collisions with obstacles.



Door-opening sensor (optional), Door-locking

When the sensor detects an open door while the cart is running, the cart will automatically stop to prevent running while the door is open. Patient meals are protected from unauthorized persons.

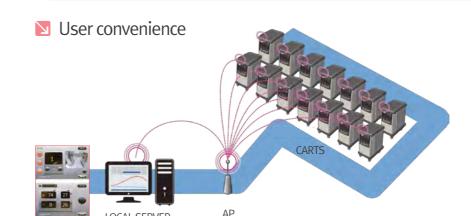


Integrated touchscreen control panel



USB for temperature data backup

Data of temperature changes in the chamber can be saved through a USB, Managing the temperature change is to follow the HACCP standards.



Touch-screen Wi-Fi control panel (optional)

The centralized control panel provides user convenience. Temperature setting, patient meal information,

automotive operation, time schedule, etc. can be collectively or individually controlled by a remote PC via Wi–Fi communications,

NEW EMOS COMPACT PRESTIGE

Chamber temperature array

General type (T470)

H - C - C - H

Export type (T509)

Precautions

Power Wiring/Individual circuit breaker 30A, Industrial socket 32A



Additional functions of EMOS Compact Prestige

Its high-capacity Li-ion battery and high-efficiency hot/cold storage system enables constant hot/cold storage function during movement.

As such, it can provide patients with hot/cold fresh meals at optimum temperature.

Always on hot and cold storage function can be enabled during movement.

Always On Hot and Cold storage function can be enabled without the need for external power during movement

Cooking

Distribution of fresh meals

Inverter function included

In case battery is discharged from DC power, it can be switched to AC power for using hot/cold and electromotive drive functions.

Power: Available on wiring/individual circuit breaker 30A and industrial outlet 32A or 16A (1720 power cord).
 For installing lithium—ion battery it is essential to use power with wiring/individual circuit breaker 30A and industrial plug 32A.







16A plug (Front-side)

Common Features of New EMOS Compact Carts

User convenience



Easy operation of forward/reverse lever

*HACCP standards meeting product,



Touch Screen and front camera

Viewing the front blind spot on the touchscreen display.





Product safety

One-touch door lock system (optional)

Patient meals are protected from unauthorized persons.



Rounded inside corners that facilitate cleaning

Preventing dirt accumulation or germ growth at corners.



Manual switching lever on the control panel

Enabling driving for narrow space or when the battery is discharged.





Emergency stop button and front touch sensor

In case of an emergency, the operator can stop the cart with the emergency stop button. Touching the front touch sensor lowers the speed when the user requires.



Urethane bumper

It absorbs external impact for protecting the body of the cart.











EMOS COMPACT ORIGINAL

Chamber temperature array

General type (T470)	* ♦ * ♦ С − H − C − H
Export type (T509)	♦ * ♦ Н − С − С − Н

Precautions





Features of EMOS Compact Original





Monitor and front camera (optional) Showing rear-vision.



Front touch sensor (optional)
Reducing the speed in emergency.



Back-driving alarm (optional)
Helping safe driving with the alarm sounding.



Door-locking system (optional)

Patient meals are protected from unauthorized persons.

Convenient centralized control panel

The key is to protect the device safely from the third party.



Electromotion control part

Hot/Cold storage control part

NEW EMOS Compact EB & EP



Model code	Length (mm)	Width (mm)	Height (mm)	Trays	Columns, Rows	Power consumption (kw)	Weight (kg)	Power supply	
EMOS Compac	t Basic(EB)								
HA-HC44EB	1630	770	1882	44	4,11	3.5	340		
HA-HC40EB	1630	770	1762	40	4,10	3.5	320	_	
НА-НСЗ6ЕВ	1630	770	1642	36	4,9	3.3	300	1P+E,	
HA-HC32EB	1630	770	1522	32	4,8	3.1	280	220V, 50/60HZ	
HA-HC20EB	1070	770	1762	20	2,10	2.0	190		
HA-HC18EB	1070	770	1642	18	2,9	2.0	180		
EMOS Compac	t Prestige(E	P)							
HA-HC44EP	1630	770	1963	44	4,11	4.2	360		
HA-HC40EP	1630	770	1843	40	4,10	4.2	340	1P+E, 220V,	
НА-НСЗ6ЕР	1630	770	1723	36	4,9	4.0	320	50/60HZ	
HA-HC32EP	1630	770	1603	32	4,8	3.8	300	_	
Trays									
HA-T470	470	330	17	For dome	stic models	Colors: (Colors: Camel, Pink, Green		
HA-T509	509	330	17	For overse	eas models	Colors:	Colors: Camel, Pink, Blue		

The external dimensions and specifications are subject to changes for product improvement.

EMOS Compact Original



Model code	Length (mm)	Width (mm)	Height (mm)	Trays	Columns, Rows	Power consumption (kw)	Weight (kg)	Power supply
НА-НС60Е	2176	770	1762	60	6,10	4.0	430	20.5
HA-HC54E	2176	770	1642	54	6,9	3.7	410	3P+E, 380V,
HA-HC48E	2176	770	1522	48	6,8	3.4	390	50/60HZ
HA-HC40E	1526	770	1762	40	4,10	2.7	320	
НА-НСЗ6Е	1526	770	1642	36	4,9	2.5	300	
HA-HC32E	1526	770	1522	32	4,8	2.3	280	_
НА-НС36	1526	770	1642	36	4,9	2.5	260	1P+E, 220V, 50/60HZ
HA-HC32	1526	770	1522	32	4,8	2.3	240	
НА-НС20	970	770	1762	20	2,10	1.8	180	
НА-НС18	970	770	1642	18	2,9	1.7	170	
Trays								
HA-T470	470	330	17	For domes	For domestic models Colors		amel, Pink,	Green
HA-T509	509	330	17	For overse	eas models	Colors: (Camel, Pink,	Blue

The external dimensions and specifications are subject to changes for product improvement.

FMO

"EMOS SERIES"



Electromotive drive model

Manual drive model

Superior temperature control

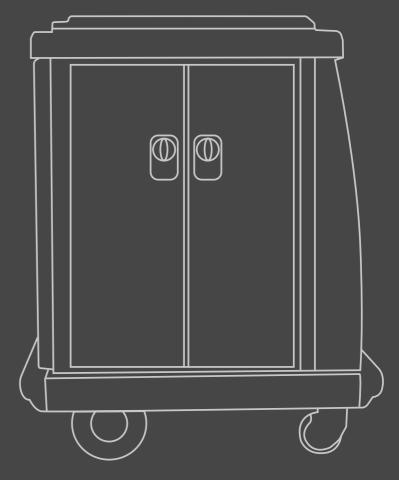
EMOS (emotion service) means that it provides a top-quality meal distribution system by addressing the emotions of patients and users. The EMOS series features hot/cold storage and electromotive driving for providing patients with fresh meals, thus improving user and patient satisfaction. Developed for the western food culture, the EMOS series is suitable for meals of western patients.

According to cooking environments of the hospital, this model can be applied for various kinds of temperature management systems and it has high temperature controlling performance.

Depending on the users' requirements, the added functions of EMOS Compact EB model are available as options.

EMOS Series

Electromotive drive model
Manual drive model ·····
Cook-serve / Cook-chill ······



Product safety





*HACCP standards meeting product,

Anti-static handle



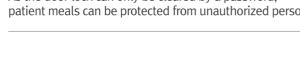


One-touch door lock system

Clicking a button on the touchscreen display can simultaneously lock all the doors.
As the door lock can only be cleared by a password, patient meals can be protected from unauthorized persons.

Touch screen and front camera

Viewing the front blind spot on the touchscreen display.





In case of an emergency, the operator can stop the cart with the emergency stop button. In addition, the front collision sensor automatically stops the cart in case of a collision.



Manual switching lever

Precision-cast hinges

High-strength precision-cast hinges keep the doors stable.

This lever enables to switch to manual drive at narrow spaces or while battery is discharging.





Circuit-breaker





Urethane bumper Absorbing external impact.



Wheel arrangement for safe driving

Safe pocket-type power cord holder





Common features of the EMOS series

■ User convenience



Easy operation of forward/reverse driving lever



Rounded inside corners that facilitate cleaning

Preventing dirt accumulation or germ growth at corners.



Electromotive motor

The battery-powered motor enables easy control of the cart.
Manual switching is possible.





USB for temperature data backup

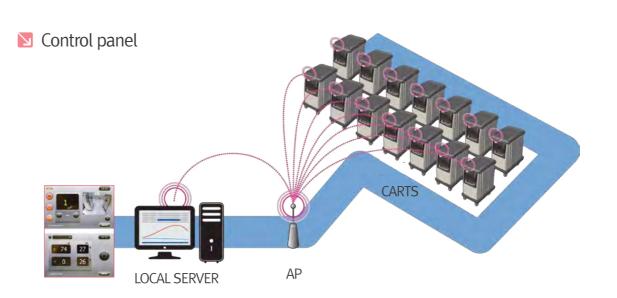
Data of temperature changes in the chamber can be saved through a USB. Managing the temperature change is to follow the HACCP standards.





Wide tray holder

The wide tray holders minimize thermal interference between the hot and cold storage mechanisms.



The wireless integrated control system (US Patent no.9,114,818 B2) connects with Wi–Fi to communicate with the carts

Main functions are temperature control (hot/cold settings, timer and reservation), temperature data history management and patient meal information management.

Manual drive model





Manual) Individual control

Current temperature display and temperature setting functions can be controlled individually.



Manual) Centralized control

Current temperature display, temperature setting, schedule setting, etc. can be controlled collectively.

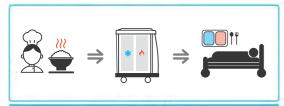
Temperature control system

The EMOS series was designed to satisfy the various temperature control requirements of users. Cook–serve and cook–chill types are available for the typical temperature control system. In addition, convection and conduction modes are available for the heating system.

* Temperature setting may vary depending on meals and cooking environments.

Cook-serve type

In this type, meals cooked in the hospital kitchen are moved to the cart preheated/chilled to the temperatures of 70° C and 5° C, respectively, for distribution.

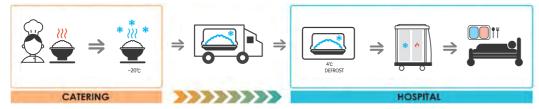


Recommended temperature setting: 70°C for hot storage, 5°C for cold storage, and 20 minute for preheating/chilling time.

Before the cart is loaded with meals, it is preheated/chilled to the temperatures of 70° C and 5° C, respectively, for 20 minutes. This increases the efficiency of optimum-temperature meal distribution.

Cook-chill type

The temperature of the depths of frozen meals is first defrosted to 4° C, and then it is thawed again in the cart. he depths of stored hot meals should be 74° C. This is the temperature for protecting patient's meals according to the HACCP standards.



Recommended temperature setting: 140°C for hot storage,2°C for cold storage, and 1 hour for heating/chilling time.

The frozen meals supplied by a catering service company are first defrosted from -20° C to 4° C, moved to the hot-storage and cold-storage chambers, and heated/chilled to 140° C and 2° C, respectively, after an hour of operation.

The final temperatures at the depths of the meals will be 74° C and 4° C, respectively, which are safe temperatures for hot/cold meals.

Heating system

Convection mode



This is the most common mode for heating meals using a hot-air blower.

Conduction mode



In this mode, the meals contained in the trays are heated by the trays that are heated by the hot plates mounted on the tray holders. This mode can minimize thermal loss, as well as increase meal temperature to a desired level within a short time.

Specifications of the EMOS series



Model code	Length (mm)	Width (mm)	Height (mm)	Trays	Columns, Rows	Inter-tray gap (mm)	Power consumption (kw)	Weight (kg)	Power supply
Cook-serve type									
EMOS-CS30E-80	1270	800	1778	30	2,15	80	3.9	370	
EMOS-CS30-80	1200	800	1679	30	2,15	80	3.9	290	
EMOS-CS24E-96	1270	800	1778	24	2,12	96	3.9	370	1P+E, 220~240V,
EMOS-CS24-96	1200	800	1679	24	2,12	96	3.9	290	50/60HZ OR
EMOS-CS24E-80	1270	800	1538	24	2,12	80	3.9	320	3P+E.
EMOS-CS24-80	1200	800	1439	24	2,12	80	3.9	240	220~240V, 50/60HZ
EMOS-CS20E-96	1270	800	1538	20	2,10	96	3.9	320	
EMOS-CS20-96	1200	800	1439	20	2,10	96	3.9	240	
Cook-chill type									
EMOS-CC30E-80	1270	800	1778	30	2,15	80	8.7	370	
EMOS-CC30-80	1200	800	1679	30	2,15	80	8.7	290	
EMOS-CC24E-96	1270	800	1778	24	2,12	96	8.7	370	
EMOS-CC24-96	1200	800	1679	24	2,12	96	8.7	290	3P+E, 220~240V,
EMOS-CC24E-80	1270	800	1538	24	2,12	80	6.9	320	50/60HZ
EMOS-CC24-80	1200	800	1439	24	2,12	80	6.9	240	
EMOS-CC20E-96	1270	800	1538	20	2,10	96	6.9	320	
EMOS-CC20-96	1200	800	1439	20	2,10	96	6.9	240	
Tray									
EMOS-T575	575	324	13	Only for cook-serve type			(Color: Ivory	
Small Tray									
EMOS T530	530	324	13	Onl	y for cook-sen	ve type	(Color: Ivory	

The external dimensions and specifications are subject to changes for product improvement.

EMOS Hotline

For small- and medium-sized hospitals and sanatorium. Heating-only manual driving model.



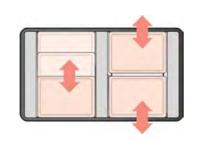
- 1 Enhancing insulation and minimizing heat loss.
- 2 Double-door structure and pass-type holder improve convenience of tray loading process and efficiency of interior structure that can have compact and simple exterior design.
- 3 Temperatures on different chambers can be set differently. Turning off a chamber's temperature control helps to minimize energy consumption.
- 4 Simple structure for easy cleaning.
- 5 All doors have antibacterial rubber packing installed to prevent the air from being leaked and to inhibit the spread of bacteria.
- 6 Round bumper can absorb shocks to protect the whole body of the cart.
- Highly efficient two-way tray insertion and passtype structure.



Model code	Length (mm)	Width (mm)	Height (mm)	Trays	Chambers	Weight (kg)	Power consumption (kw)	Power supply	Tray size (mm)
HA-SLIM-H48	1240	740	1610	48	3	180	2.0		
HA-SLIM-H44	1240	740	1510	44	3	160	1.8		
HA-SLIM-H40	1240	740	1410	40	2	140	1.8		
HA-SLIM-H36	1240	740	1310	36	2	130	1.8	AC 1P	390
HA-SLIM-H32	1240	740	1210	32	2	120	1.8	220V+E 50/60Hz	х 300
HA-SLIM-H24	840	740	1610	24	2	95	1.8		
HA-SLIM-H20	760	740	1410	20	1	90	1.8		
HA-SLIM-H18	760	740	1310	18	1	80	1.8		

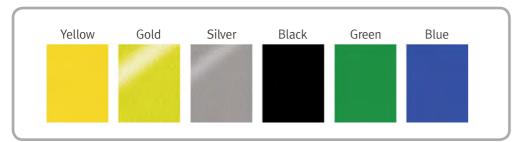
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Colour options



Closed-type Return Cart

It provides space for returning trays after meals and keeps hospital wards pleasant.





Magnet-type door-seal packing prevents food odor from being leaked out.



Pass-through stainless tray rails



The doors that can be opened to a maximum of 270°, thus enabling utilization of narrow spaces.



Wire rack for tray insertion



Model code	Length (mm)	Width (mm)	Height (mm)	Trays	Columns, Rows	Weight (kg)
HA-R40A	1240	760	1450	40	4,10	140
HA-R36A	1240	760	1350	36	4,9	130
HA-R32A	1240	760	1250	32	4,8	120
HA-R20A	750	760	1450	20	2,10	90

The external dimensions and specifications are subject to changes for product improvement.

* Applicable tray model for the return cart in the above is HA-T470. For different tray models, please contact us.

Open-type Return Cart

It provides space for returning trays after meals and keeps hospital wards pleasant.





Easy returning of trays and tableware after meals



Smooth turning and easy mobility



High spatial utilization as it can hold trays that are stacked in a small space



Waterproof curtains that can resist food infiltration and cover trays and tablewares

Composition

- · Rotary wheel-type bumper
- · Convenient round-shaped handle corner
- · Wide rails with high spatial efficiency
- · Closed-type curtain (optional)



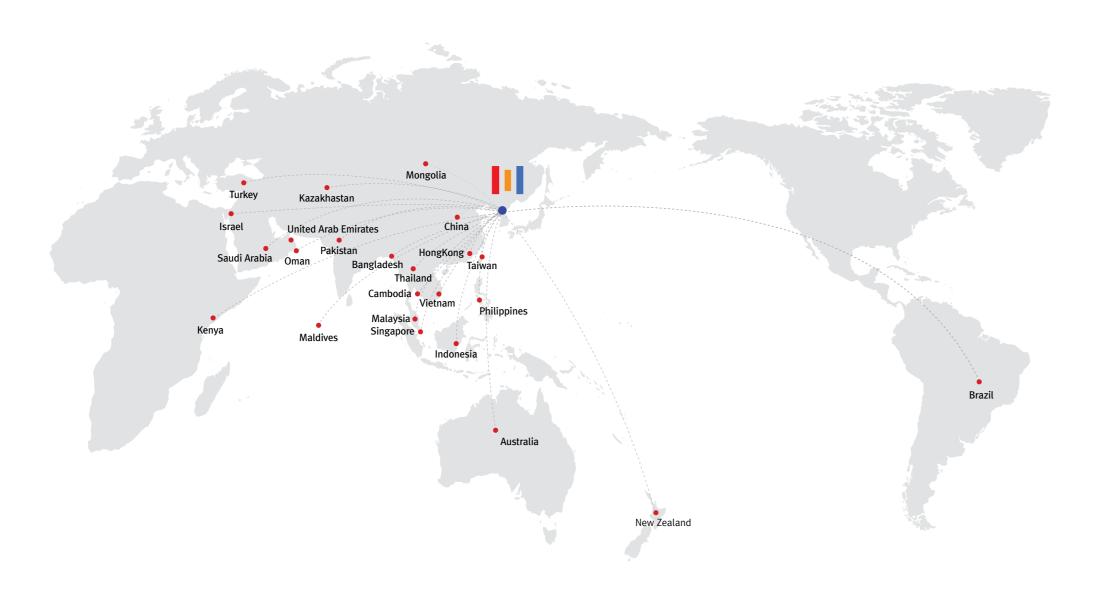
Model code	Length (mm)	Width (mm)	Height (mm)	Trays	Columns, Rows	Weight (kg)
HA-R40	1522	598	1574	40	4,10	45
HA-R36	1522	598	1464	36	4,9	43
HA-R32	1522	598	1354	32	4,8	41
HA-R24	1192	598	1354	24	3,8	35

The external dimensions and specifications are subject to changes for product improvement.

Applicable tray model for the return cart in the above is HA-T470. For different tray models, please contact us.



GLOBAL MYUNGSE CMK



Company locations



Headquarter in Busan



Branch in Seoul