

Electromotive Hot & Cold Meal Trolley For Hospital Use

We promise to keep our patients happy





Customer Satisfaction



Since Myungse CMK Co., Ltd. was established in 1994, it has focused on developing high quality meal service trolley.

Myungse CMK's know-how accumulated innovative technology in the hospital distribution system will enhance patients' satisfaction. As consuming proper meals can maintain healthy life, the importance of meal trolley is growing day by day.

Myungse CMK professionally diagnoses customer needs and endeavors to provide beyond meal delivery service trolley.



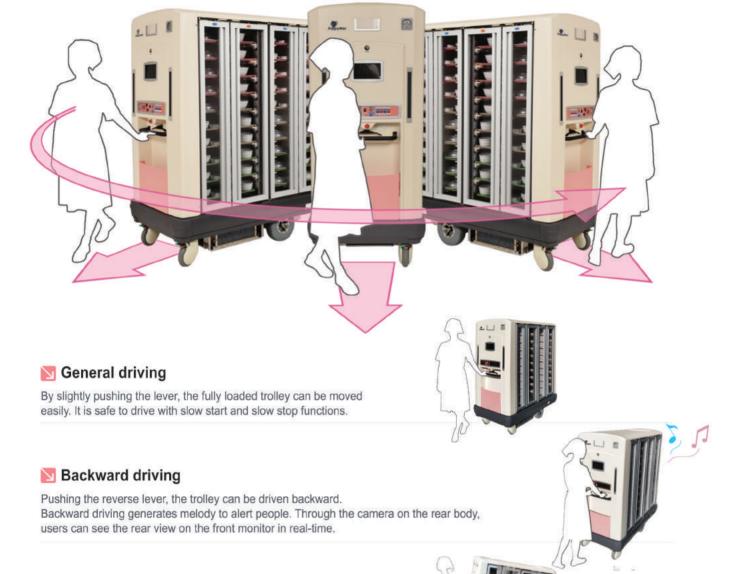


Happy cart enhances customers' satisfaction by providing fresh food to patients with its electromotive hot and cold system.

Myungse CMK Co., Ltd. is a leading manufacturer of meal delivery service trolley system in hospitals observing 6 principles.

O,	R&D	Continuous research and development with aggressiveR&D investment for long-term successful business
	Tailor-made solution	Tailor-made solution provided for customer preference
¢¢	Systematic inspection	Practical and systematic inspection for quality assurance before shipping
	Customer care	Thorough customer management
	First mover in Korea	First mover and market leader in domestic market
	World best product	Aiming for the world's best for meal delivery system served to inpatients in hospitals

Innovative Electromotive Driving System

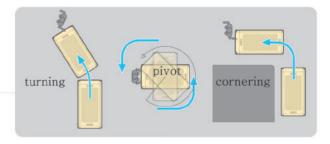


Driving on the inclined place

Without significant effort, women can drive the trolley on the incline of 5 degrees easily. On the incline, the speed is controlled automatically to maintain constant speed.

Free curve driving

With the central axis of motor wheels, front free wheels are possible for driving of pivot and turning.



Nattery charging

It operates for an hour electromotive driving after charging 6-8 hours. This charging is also for keeping heating and cooling systems. When fully charged, power suppression unit automatically stops its overcharging.

(Charging hours can be varied according to user environments.)



5°





Convenience



Magnetic power plug The plug is easily attached or detached.

Convenient central control panel

Electromotive control part

Temperature control part





Simple operating lever



Rounded corner for easy cleaning Preventing stains and spread of bacteria



Manual converted lever



Tray-passing holder Enhancing efficiency of repeated meal distributing process



For Always Fresh Meals

TROLLEY



Wifi wireless integrated control system (Option)

(US Patent No.: US 9,114,818 B2) Through wifi system, multiple trollies are controlled from the local server regarding settings of temperatures, electromotive driving mode, timer, etc.



Front monitor & Rear camera (Option) Securing rear view through LCD monitor, and preventing safety accidents



One-touch door locking system (Option)

Locking all doors, simultaneously, preventing patients' meals from the third party



Emergency stop button & Front touch sensor (Option) In emergency, the trolley can be controlled with the

button and the touch sensor.



Shock-absorbing urethane bumper



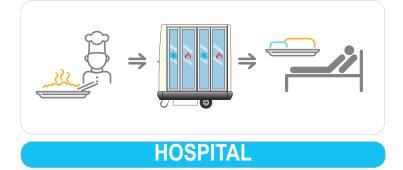


Wheels for safe driving



Differentiated Temperature Controlling Technology

H&C meal distribution service process



With differentiated temperature controlling technology, Happy Cart can provide fresh meals for patients.

H&C temperature management

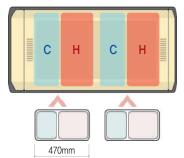




Setting temperatures are remembered in the system until the following setting change. Current room temperatures are shown on the screen.

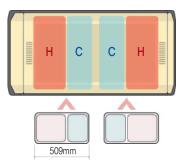
H&C arrangement on trolley

General type (Tray 470)



With C-H-C-H arrangement, Tray 470 is inserted in the same direction from all doors, efficiently.

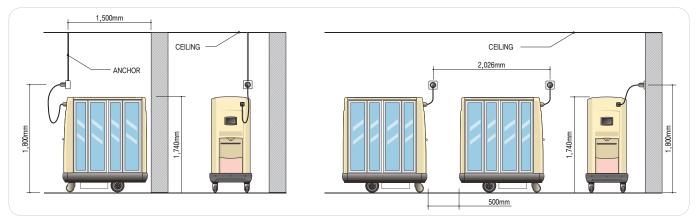
Exporting type (Tray 509)



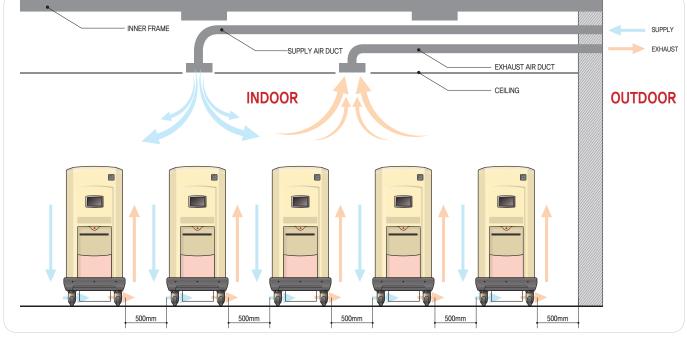
With H-C-C-H arrangement, size of tray becomes wider as Tray 509.

Requirements and Recommendations in Pre-installation

Example of installing power socket



According to the user's environment, power sockets for trollies can be installed on the wall or on the anchor connected from the ceiling. Insert the power plug into a dedicated power socket, and maintain as much space as possible between the devices. One trolley requires 30 amp circuit breaker.



Example of air conditioning equipment

For efficient indoor air conditioning, it is recommended to secure space of arranging trollies and equipment of supply and exhaust air ducts.

Heat from condenser of the model HA-HC40E is measured as approximately 3,100kcal. (This will be used for calculating how to set up air conditioning equipment.)

List of investigating points

Product in and out | Driving route / Inclined way / Raised spot / Drain / Elevator size / Maximum load carrying capacity for elevator (Total weight includes weights of the device, trays, food and users.)

Place and condition Use in the room temperature of 30°C Install in wide area Use where water is not easily accessible



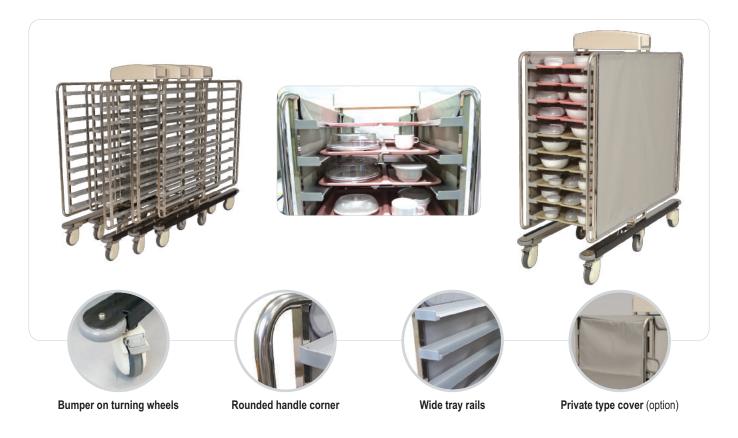


Various colours of H&C separated tray



Return cart for trays after use

Trays can be returned neatly, after having meals. Efficient use of space by stacking up the carts Convenient handle can move and turn the cart easily. Water proof cover makes the cart clean.



Specifications on models

Electromotive dr



inving type									
MODEL	Exterior size (mm)			No. of trays	Rows, Layers	Power consumption	Weight	Working	
WODEL	w	D	Н	NO. OF ITAYS	Rows, Layers	(Kw)	(Kg)	voltage	
HA-HC60E	2,176	770	1,740	60	6, 10	4.0	430	3P 380V N+E	
HA-HC54E	2,176	770	1,620	54	6,9	3.7	410		
HA-HC48E	2,176	770	1,500	48	6,8	3.4	390	50/60Hz	
HA-HC40E	1,526	770	1,740	40	4, 10	2.7	320	1P	
HA-HC36E	1,526	770	1,620	36	4,9	2.5	300	220V+E	
HA-HC32E	1,526	770	1,500	32	4, 8	2.3	280	50/60Hz	

Manual driving type



MODEL	Exterior size (mm)			No. of trays	Rows, Layers	Power consumption	Weight	Working
MODEL	w	D	Н	No. of trays	Nows, Layers	(Kw)	(Kg)	voltage
HA-HC36	1,526	770	1,620	36	4,9	2.5	260	1P 220V+E
HA-HC32	1,526	770	1,500	32	4,8	2.3	240	50/60Hz

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MODEL	Exterior size (mm)			No. of trays	Rows, Layers	Power	Weight (Kg)	Working
	w	D	Н	NO. OF ITAYS	Rows, Layers	(Kw)	(Kg)	voltage
HA-HC20	970	770	1,740	20	2, 10	1.8	180	1P
HA-HC18	970	770	1,740	18	2, 9	1.7	170	220V+E 50/60Hz

Return cart

	MODEL	Ex	Exterior size (mm)			Davia Lavias	Weight
		w	D	н	No. of trays	Rows, Layers	(Kg)
	HA-R40	1,522	598	1,574	40	4, 10	45
	HA-R36	1,522	598	1,464	36	4, 9	43
	HA-R32	1,522	598	1,354	32	4, 8	41
	HA-R24	1,192	598	1,354	24	3, 8	35

Specification and exterior size indicated on this catalogue are subject to change without notice for improvement of products.





Custom carts





Electromotive cart for transfusion of fluid

Electromotive cart for PO2 containers



Electromotive cart for pathological containers



sterilized goods





Electromotive carts for goods





Insulated mini manual cart



Electromotive H&C cart for sterilization



Electromotive hot cart for Hong Kong

Products for the best hospitals











이 총자의 건강은 지킵니다









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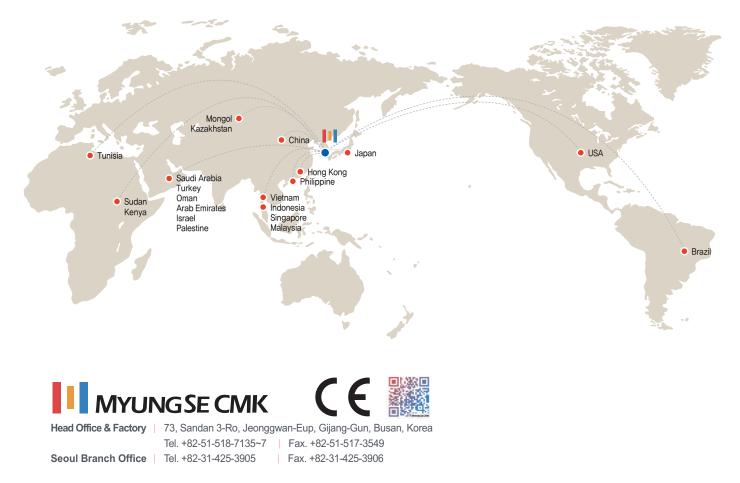


Model Changes by Years

Myungse CMK is continuing to invest heavily in R&D to develop technologies and services.







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