

Van Truck

Dry Van
Refrigerated Van
Insulated Van
Cool Van



Dry / Refrigerated Van



Insulated / Cool Van

- Dry / Refrigerated / Insulated / Cool Vans are available for the HD45 ~ 320 platforms.
(However, only HD 65 / 72 are recommended for the cool van due to cooling performance. Not recommended for HD120 model and above.)
- They can be manufactured after options have been selected according to customer requirements.
- Prior consultation with the Special Vehicle Team is required for special vans other than the standard vans.

Caution : Standard vans are not designed to load heavy equipment such as forklifts.
Heavy equipment may damage the floor and the van box.
Please consult with the Special Vehicle Team if such use is required.

Refrig / Insul / Cool Van Standard Specifications

		Dry Van	Refrig Van		Cool Van
Interior					
Common Specifications		Dry Van Body + Apitong Floor + GI Panel + Rear Door + Ventilator + Reflection Film +Emergency Bell + LED Room Lamp	Ref. Van Box + Refrigerator Unit + SUS430 Corrugated Floor + Air Rib + Rear Twin Swing Door + Rear Marker Reflector + LED Room Lamp + Emergency Bell		Dry Van Body + SUS430 Corrugated Floor + Refrigerator Unit
Panel		GI 40mm (or 50mm)	AL 70mm (or 80mm)		GI 40mm
Ref. System		X	Main engine	Sub engine	Main engine type
Air rib		X	0		X
Floor		Apitong Wood	SUS430		SUS430
	Thickness	15mm (or 18mm)	1.2mm (+Wood 5mm + Polystyrene 65mm + GI Plate 0.5mm)		
Key Markets		Distributors handling products that are not sensitive to temperature changes	Bakery shops, confectionery companies distributing frozen desserts		Distributors handling agricultural and livestock products/refrigerated foods
		Cosmetics, clothing, electronic products, office furniture, furniture and bedding distributors	Dairy product distributors and food manufacturing businesses		Dairy product distributors and food manufacturing businesses
		Printing/publishing companies, bakery/pastry shops, flower shops	Distributors handling agricultural and livestock products/frozen foods		Department stores, bakery/ pastry shops
		* Eutectic Van is recommended for transporting ice cream / frozen fruit			
Option		HD45~HD320 Same Conditions			

Floor



SUS430 floor
Ref. / Ins. / Cool
HD45~HD320

Note: [Standard](#)

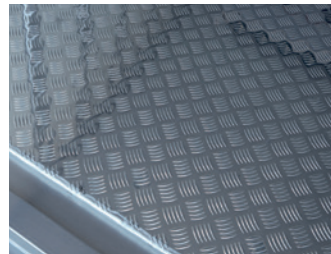


Apitong wood floor
Dry / Wing Body
HD45~HD320
* Thickness : 15mm
Apitong Wood
Note: [Standard](#)

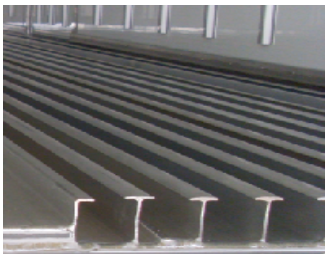


SUS304 floor
Ref. / Ins. / Cool
HD45~HD320

Note: [Option 1](#)



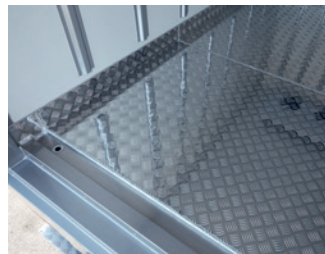
AL checked floor
Ref. / Ins. / Cool / Dry
HD 45/65/72/78/120
* Anti-corrosive, Light Weight
Note: [Option 2](#)



AL T-floor
Ref. / Ins. / Cool
HD120
* Improves chill circulation of the floor plate, which makes faster cooling than in common ref. vans and cooling efficiency increased
Note: [Option 3](#)



SUS 304 flat floor
Ref. / Ins. / Cool
HD45~HD320
* Suitable for cases in which wheels like trolleys are used for loading
Note: [Option 4](#)



SUS 430 checked floor
Ref. / Ins. / Cool / Dry
HD45~HD320

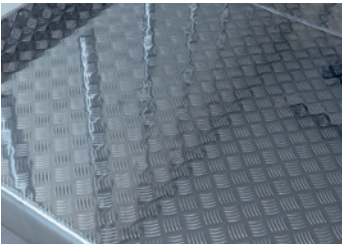
Note: [Option 5](#)

Reinforcement can be applied to **AL checked, SUS304 Flat, SUS 430 checked floor**.
Please consult with Hyundai Special Vehicle Team

Refrigerator Van floor reinforced

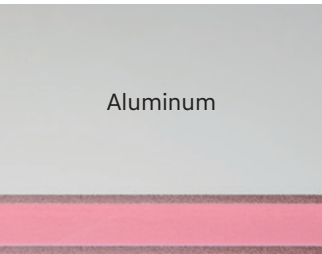
- Option 1**
- Uneven floor material SUS430 installed as standard is changed to SUS304 (bolts / rivets are also made of SUS304)
 - For more information about difference between SUS430 and SUS304, Please refer the material property reference
- Option 2**
- For the dry van, AL Checked steel plate (3.2mm) is applied onto the standard Apitong wood floor
 - For the Ref. / Ins. Vans, AL Checked steel plate (3.2mm) is applied after standard SUS 430 floor has been removed
- Option 3**
- If this option is selected, 5~60mm of floor height is raised compared to the standard floor
- Option 5**
- It is mainly selected with the reinforcement options, and can also be selected as a separate option
 - General options and reinforcement options plus SUS430 Checked Floor have some differences. For details, please contact Special Vehicle Team

Reference Information about Stainless Steel

	Apitong	Stainless SUS 430	Stainless SUS 304
			
Series	-	Ferrite (Fe-Cr)	Austenite (Fe-Cr-Ni)
Composition	Apitong Wood	Cr 18%	Cr 18% + Ni 8%
Strengths	Low moisture content, hardness, less shrinkable	Basic use (magnetism)	Corrosion / thermal resistance Low Temperature Strength (No magentism)
Weaknesses	Scratches and dent not suitable for wet area	Low corrosion resistance (ver. Sus 304)	Higher cost
Scope of Use	Trailer deck, furniture, flooring	Kitchen sink, Family bath (Standard)	Turbine vessels, aircraft, vehicles (Option)

* Cr-Ni is 300 family, Cr-Ni-Mn is 200 family ⇒ Categorized by Cr, Ni, Mn composition

Panel



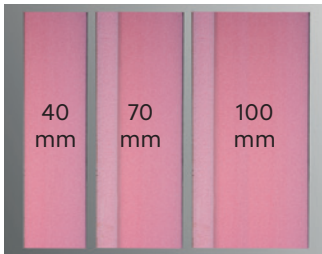
Aluminum

Aluminum 70mm panel
Ref. / Ins.
HD45~HD120 : 70mm
HD170~320 : 80mm
Note: [Standard](#)



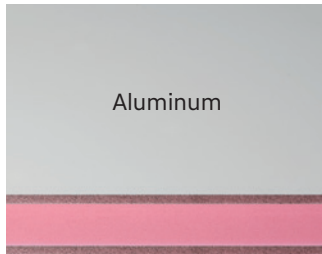
Galvanized Iron

Galvanized iron 40mm panel
Cool / Dry
HD45~HD72 : 40mm
HD120~320 : 50mm
Note: [Standard](#)



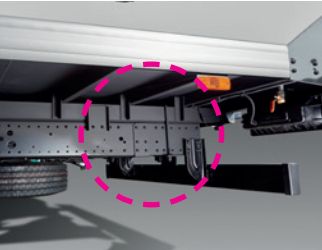
40 mm 70 mm 100 mm

Aluminum 100mm panel
Ref. / Ins. / Cool
HD45~HD320
Note: [Option 1](#)



Aluminum

Aluminum outside panel
Dry
HD45~HD320
Note: [Option 2](#)



Body frame extension
Ref. / Ins. / Cool / Dry
HD 65/72/78
* HD65~78 : 250~350mm
HD120 : 400mm
Note: [Option 3](#)

- Option 1**
- Polystyrene panel thickness varies among refrigerated vans while the exterior plate thickness (0.5mm) is fixed.
- Option 2**
- Exterior panel thickness varies for dry vans while polystyrene(40~50mm) thickness is fixed.
 - Achieved weight reduction of about 50% compared to GI plate for improved fuel efficiency.



Panel

Body size up/down (per m³)
Ref. / Ins. / Cool / Dry
HD 45/65/72/78
* based on STD C/CAB
Note: Option 4 (+Option 3)

Option 4 (+Option 3)

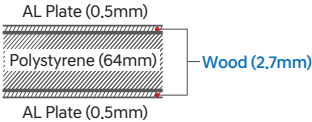
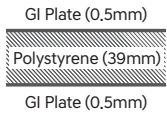
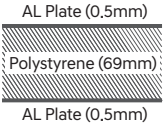
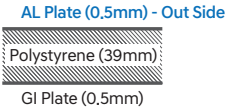
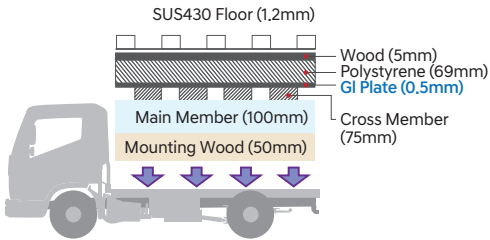
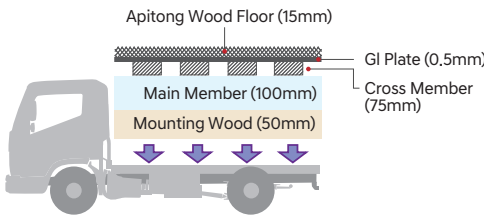
- Option 3 (Body Frame Extension) must be selected together when the length is extended (forced option)
- Left and right viewing angles must be ensured when the width is extended and the local laws and safety regulations must be checked when the option is selected
- The box size cannot be changed for HD120 or higher models

Maximum Size up Specification

Contents	HD45			HD65/72 (78)		
	L	W	H	L	W	H
Dry / Cool	3,460	1,850	1,850	4,900	2,100	2,100
Ref. / Ins.	3,460	1,770	1,800	4730	2,040	2,000

Max. Size up : +50mm(width) / +150mm (height) / +⅓ of wheelbase (length)

Panel Reference Information

	Refrig / Insul	Dry / Cool
Side	Aluminum 	Garvanized Iron 
Front	Light Weight Anti-Corrosive (In comparison to GI) High Cost	Anti-Corrosive (In comparison to steel) Low cost (In comparison to Aluminum)
Upper		
Floor		

Door Types



Rear door
Ref. / Ins.
HD45~HD320
Door frame : Dry → Steel,
Ref./Ins./Cool → Steel(Outside)
SUS430(Inside)
Note: Standard



Side swing door (Standard / Large)
Ref. / Ins. / Cool / Dry
HD45~HD320
Door frame : Dry → Steel
Ref./Ins./Cool → SUS430
Note: Option 1(STD), Option 2(Large)



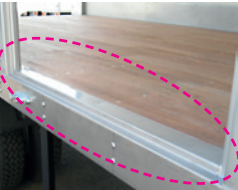
Triple rear door
Ref. / Ins. / Cool / Dry
HD45/65/72
Note: Option 3



Roll-up door (Rear / Side)
Ref. / Ins. / Cool / Dry
HD45/65/72
Note: Option 4

Option 1 (STD), Option 2 (Large)

- The side step is mounted as standard when the side door is selected (can also be changed to folding step-type)
- It can be mounted in LH or RH, and is mounted in the general direction (LH Driven → RH, RH Driven → LH) unless otherwise specified
- 2ea doors can be mounted to one side, and they can be changed to swing-type two-door on customer request
- The door lock is the key type
- For dry vans, the lower sill of the door is removed to enhance user convenience
- When the SUS304 floor is specified then Side Door Frame and Rear Door Frame (inside) are also changed to SUS304



Lower sill removed (dry van)



Standard side step



Wide side step



Folding side step



Rear/side lockable key



Side double swing door



Opening Width

Contents (Width)		HD45	HD65	HD72	HD120
Dry / Cool	Standard	878	←	←	1,016
	Large	1,167	←	←	1,167
Ref. / Ins.	Standard	855	←	←	988
	Large	1,144	←	←	1,139

Option 3

- Frame material of the triple rear door -
Dry : steel, Ref./Ins./cool : inside(SUS430), outside(Steel)

Option 4

- Material of roll up door : Aluminum Panel (insulation function included)
Dry van : 40mm, Ref./Ins./cool : 50mm
- Frame material of rear roll up door: steel in all vehicle types
- Frame material of side roll up door - Dry : steel, Ref./Ins./cool : SUS430



Side Roll up door cover
(Height - 350mm)



Rear door lockable key
(Height - 180mm)

Features



Refrigerator

Ref. / Cool
HD45~HD320

Note: [Standard](#)

※ Caution: Customers requiring a refrigerator upgrade should first check with special vehicle team for correct chassis amperage



Water drain valve

Ref. / Ins. / Cool / Dry
HD45~HD320

* Total 3 valves
(2 at rear, 1 at front)

Note: [Standard](#)



Ventilator

Dry
HD45~HD320

Note: [Standard](#)



Body endout marker lamp

Ref. / Ins. / Cool / Dry
HD45~HD320

* 2 at rear, 2 at front

Note: [Standard](#)



Air rib

Ref. / Ins.
HD45~HD320

* Mounted in height direction

Note: [Standard](#)



LED room lamp

Ref. / Ins. / Cool / Dry
HD45~HD320

* HD45~78 : 6EA, HD120 : 8EA

Note: [Standard](#)



Inside emergency bell

Ref. / Ins. / Cool / Dry
HD45~HD320

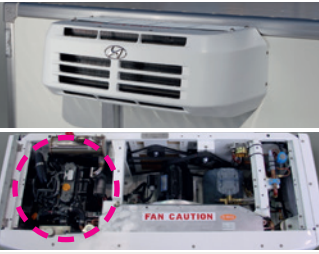
Note: [Standard](#)



Standby motor

Ref. / Cool
HD45~HD320

Note: [Option 1](#)



Sub-engine refrigerator

Ref.
HD72

Note: [Option 2](#)

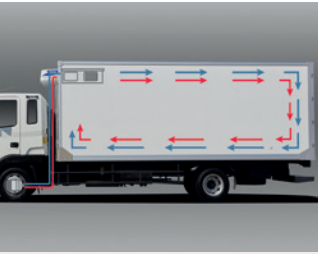


Heating unit (only)

Dry
HD45~HD320

* Radiator type

Note: [Option 3](#)



Two-way air conditioner (refrigerator & heating)

Ref. / Cool
HD45/65/72/78

* Reverse cycle type

Note: [Option 4](#)

Features



Aluminum rear bumper step

Ref. / Ins. / Cool / Dry
HD45~HD320

* Dimension : 100 x 100mm

Note: [Option 5](#)



Aluminum rear bumper step (wide-type)

Ref. / Ins. / Cool / Dry
Above HD160

* Dimension : 550 x 50mm

Note: [Option 6](#)



Body endout marker lamp

Ref. / Ins. / Cool / Dry
HD45~HD320

* Mounted in height direction

Note: [Option 7](#)



Side endout marker (reflector or LED)

Ref. / Ins. / Cool / Dry
HD45~HD320

* Based on one row
(either LH or RH)

Note: [Option 8](#)



Air spoiler

Ref. / Ins. / Cool / Dry
HD45~HD320

The shape may defer by van body builders

* Material: FRP

Note: [Option 9](#)



Rear rubber bumper

Ref. / Ins.
HD45~HD320

Note: [Option 10](#)



Rear lamp cover

Ref. / Ins. / Cool / Dry
HD45~HD320

* Material: Steel

Note: [Option 11](#)

Option 1

- Provides electrical power for refrigerator operation when engine is off and is mounted next to the refrigerator (refrigerator-integrated type).
- Standard Spec: 380V, 3-Phase, 50~60Hz, single phase not recommended for current stability reasons.
- Electricity specs of the corresponding country should be considered first when this option is selected.



Option 2

- Temperature reaches -22°C in a vacant vehicle and under no-load conditions
- Single compressor system is mounted when this option is selected.

Option 3

- Mounted to the position where the refrigerator is installed and temperature is controlled in 0.10°C increments (0°C ~ +15°C range).

Option 4

- Mounted to the position where the refrigerator is installed and temperature is controlled in 0.10°C increments (within -15°C ~ +15°C range).

Option 5

- AL checked plate is applied to the steel square step and projects about 60mm from the box end.
- Tubular-type rear step is mounted as standard equipment when this option is not selected.

Features



Power gate (2 cylinder arm-type)

Ref. / Ins. / Cool / Dry
HD45~HD320
Material : Steel or Aluminum
Loading Capacity : 600kg
(average)

Note: Option 12



Power gate (vertical-type)

Cargo truck
HD45~HD320

Note: Option 13



Plastic curtain (side/rear)

Ref. / Ins. / Cool
HD72

Note: Option 14



E-track/belt

Ref. / Ins. / Cool / Dry
HD45~HD320

Note: Option 15



Reinforcement

Ref. / Ins. / Cool / Dry
HD45~HD320

Note: Option 16

Option 6

- Wide-type AL rear bumper step is recommended for HD160 and above as the box-entering height is more than 1M.
- The step projects about 70~100mm from the box end.

Option 7

- Front 2ea and rear 2ea are mounted in amber and red colors, respectively.

Option 8

- Reflector type: red/amber 1 set, HD45/65/72: 2 sets, HD120 or higher: 3 sets installed
- LED type: basically red (color can reflect customer request) HD45/65/72: 2, HD120 or higher: 3 installed

Option 9

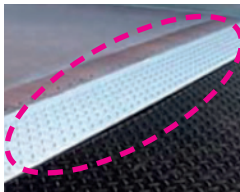
- For reducing the air resistance

Option 10

- Lower frame, slip-proof sub-frame is mounted as standard

Option 12

- It is a up-and-down motion & folding type, and only mounted to vans (1,400mm max vehicle width)
- The horizontal space between the box and the gate when the gate is opened can be covered by additional steel plate (Dry: Steel, Refrg/Insul/Cool: SUS430)
- Semi-automatic type (using remote controller) taking 10~15 seconds from closed to open position
- It can be used instead of the rear door, and for this use, rain-proof auxiliary door is required to cover the space between the upper side of the box and the closed gate



Assistance plate



Rain-proof auxiliary door



Power Gate Controller

Option 13

- It is a up-and-down motion & folding type, and only mounted to cargo van only and not to any other van types
- It is a semi-automatic type (using remote controller) taking 10~15 seconds from closed to open position
- Lift capacity varies by model but is about 1T on average



Features

Option 14

- Hook-type which are fully detachable
- Plastic curtain prevents cold loss when loading/unloading frozen goods

Option 15

- One belt per E-track row (each row of LH/RH) is mounted as standard, and installed to LH and RH sides
- The material is steel for dry vans, and SUS430 for Refrg/Insul vans
- Can be added as a complete E-track & belt set; the belt alone cannot be added
- When the E-track is mounted, additional plates can be installed inside the side panel, which reinforces the panel
- The air rib is mounted transversely in Refrg/Insul vans (no impact on freezing performance)



For Dry Van



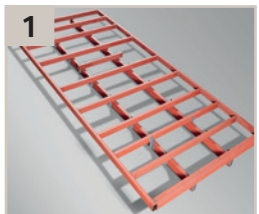
For Ref. Van



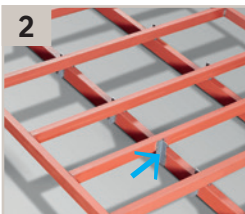
E-TRACK / BELT

Option 16

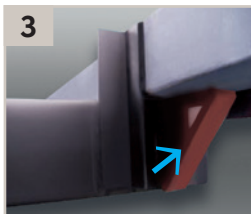
- Essential where road condition are not good or for traveling on rough roads
- Standard: Dry van 8 points, Ref. van 7 points Hard: Dry van 17 points, Ref. van 16 points
- Special : Hard reinforcement + E-track 2 rows



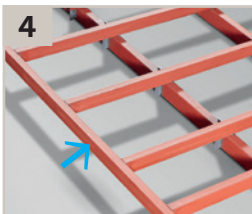
Number of the main frame members increased



Front main frame reinforcement cross member added



Frame connections reinforcement member added



Front main frame fore reinforcement plate added



Main frame triangular reinforcement brace added



Cast rear corner brace



Box front anti-slip reinforcement plate



Box inside lower steel plate reinforced
- only for dry vans



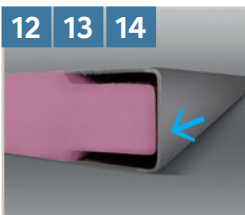
Rear door frame corner side reinforced



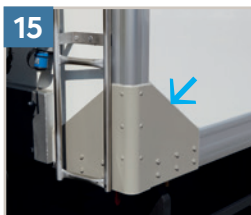
Rear door frame triangular reinforcement brace added



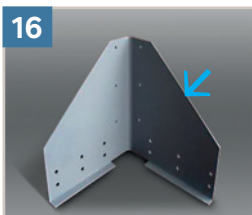
Rear door frame steel plate thickness changed



Inside side panel, steel plate added to riveting parts,
Inside front panel, steel plate added to riveting parts,
Inside column panel, steel plate added to riveting parts



Cast front corner brace



Cast inner corner brace



Rear door frame fastened with mono rivets

* 10) From HD160, the size is increased and shape is changed compared with HD45~72

* 11) The thickness is changed to 3.2mm and 4mm from the standard 2mm for HD45~120 and HD160 or higher, respectively

* 17) The number of rivets is increased by 50% compared to standard riveting

Power Gate Reference Guide

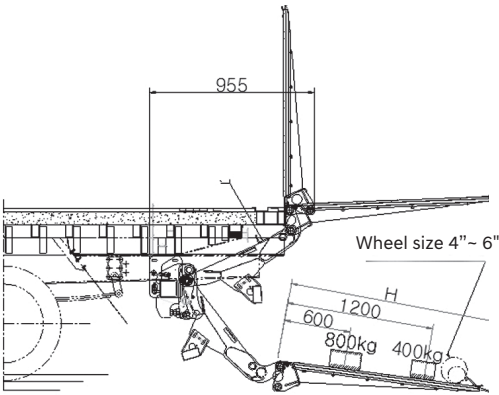
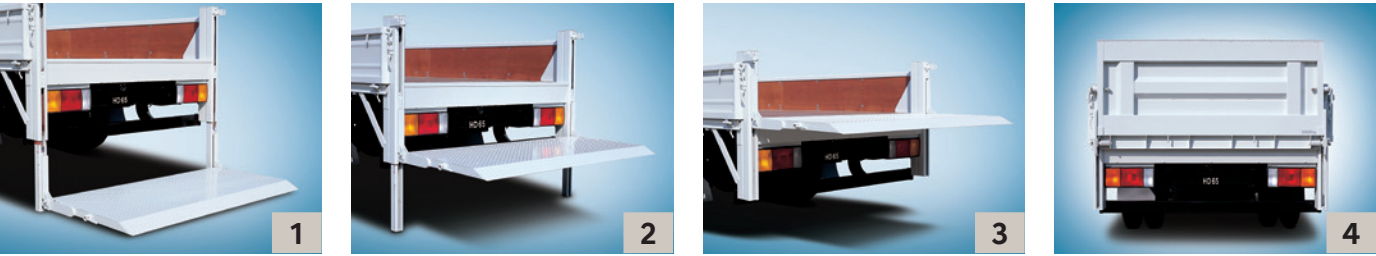
2-Cylinder Arm-Type

	HD65		HD72	HD120		HD160	HD250	HD320
Platform size (mm)	1,400 x 2,000	1,400 x 2,010	1,400 x 2,180	1,400 x 2,420	1,400 x 2,480	1,400 x 2,495	1,400 x 2,495	1,400 x 2,495
Weight (kg)	220		220	240		250	260	265
Lift Capacity	800			1,000				
Lift Speed	10~20sec							
System	Hydraulic system remote control switch							
Battery	DC 24V							



Vertical-Type

	HD65		HD72	HD120		HD160	HD250	HD320
Platform size (mm)	800 x 2,000	800 x 2,010	800 x 2,180	800 x 2,420	800 x 2,480	800 x 2,495	800 x 2,495	800 x 2,495
Weight (kg)	200		200	210		210	230	235
Lift Capacity	800			1,000				
Lift Speed	10~20sec							
System	Hydraulic system remote control switch							
Battery	DC 24V							



* Details about the installation position and operation can vary depending on manufacturer, truck body builder and customization requirements. Payload and loading positions also vary by truck platform.

Eutectic Cold Van

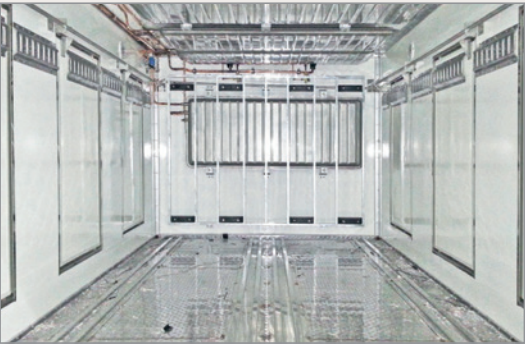
Eutectic technology uses Phase Change Material (PCM) to deliver constant refrigeration regardless of whether the vehicle is in operation or not. 220-380VAC refrigerator cools down the PCM panels to-30°C and then while the vehicle is running, the stored chill is slowly emitted without requiring external power input.

Advantages

- **Cost Saving** : Costs are reduced by 35% compared to sub-engine method.
- **Temperature maintenance** : Keeps the latent temperature constant without any power source.
- **Noiseless** : No noise while driving.
- **Efficient** : Maintains an average of -25°C when the ambient temperature is +35°C during the daytime.
- Maintains low temperatures regardless of whether the engine is running or not because the independent refrigeration system.

Disadvantages

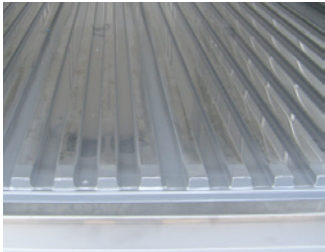
- **Charging time** : Requires 8~10 hours to charge and cannot move while charging.
- **Parking space** : Need enough space for charging.
- **Internal space** : Eutectic storage plates decrease internal volume by about 5% compared to conventional freeze trucks.
- **Temperature setting** : The set temperature cannot be changed.
- **Weight** : Ceiling installation of PCM cold plate increases weight by 20% compared conventional top.



Inside

- It reduces temperature to -30°C by using the electrically charged eutectic plates, and lasts up to 12 hours.
- Basically 7 ~ 8 eutectic plates are mounted according to vehicle type.
- Skin FRP 2mm + FRP 2mm, 100mm panel are applied and require 220/380V - 3-phase - 50~60Hz.
- Standard specs are provided here, however, they are subject to change according to customer requirements (other customer-ordered options can be installed besides those indicated here).

Body



SUS430 floor
Eutectic cold van
HD45 ~ HD170

Note: [Standard](#)



Side door (1 each)
Eutectic cold van
HD45 ~ HD170

Note: [Standard](#)



Rear door (1 each)
Eutectic cold van
HD45 ~ HD170

Note: [Standard](#)

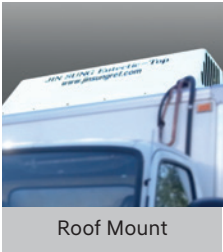


Eutectic plate
Eutectic cold van
HD45 ~ HD170
Material is STS 304 1.2t,
and PCM-33°C solution is
charged
Note: [Standard](#)

What is eutectic plate?
A steel plate filled with the eutectic liquid.
The plates starts to freeze at -33°C and accumulates latent heat as it freezes.



Urethane panel
Eutectic cold van
HD45 ~ HD170
Excellent performance with
poly-urethane panel to insulate
the ambient with relatively
strong solidity.
Note: [Standard](#)



Roof Mount



Upper Mount



Under mount

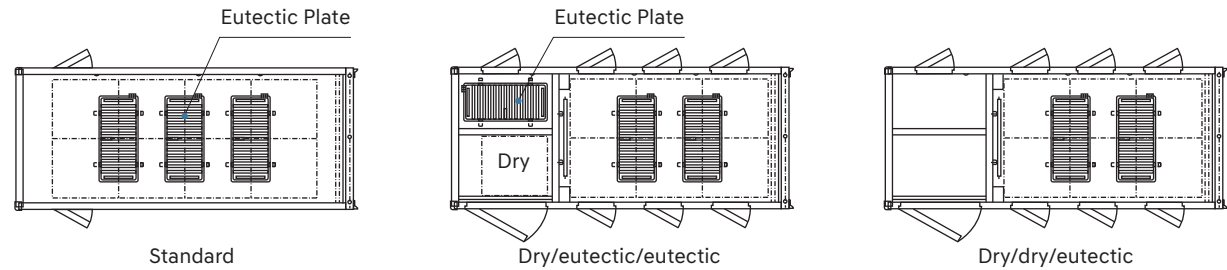
Condensing unit
Eutectic cold van
HD45 ~ HD170
Operated by 3 phase electric power 380V or 220V
with 50Hz or 60Hz.
* The condenser Takes the high-temperature, high-pressure gas from the
compressor and condenses it into liquid from by cooling it with external air.
Note: [Standard](#)



Layout change
Eutectic cold van
HD45 ~ HD170
Note: [Option 1](#)

Option 1

- The box size and layout can be changed according to uses
- If the box is changed, options like side door change, inside partition, inner panel and trolley are selectively added
- For HD45, the layout cannot be changed without modifying the box size



Option 2

- Standard type and the anti-freezing heat wire is included along the edges (630W x 1,050H & 600W x 1,200W Two types)
- Door size cannot be changed

Body



Side door (standard)
Eutectic cold van
HD45 ~ HD170

Note: [Option 2](#)



Side door (big size)
Eutectic cold van
HD45 ~ HD170

Note: [Option 3](#)



Side door (recessed-type)
Eutectic cold van
HD45 ~ HD170
Note: [Option 4](#)



Central lock
Eutectic cold van
HD45 ~ HD170

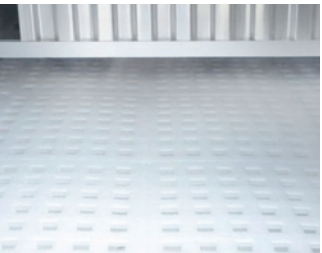
Note: [Option 5](#)



Plastic curtain (Side/Rear)
Eutectic cold van
HD45 ~ HD170
Note: [Option 6](#)



AL rear bumper step
Eutectic cold van
HD45 ~ HD170
Note: [Option 7](#)



FRP+ PE skid floor
Eutectic cold van
HD45 ~ HD170
Note: [Option 8](#)



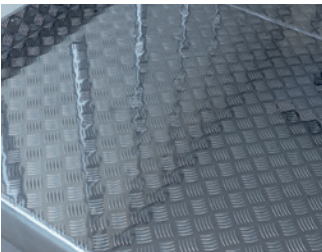
Inner partition
Eutectic cold van
HD45 ~ HD170
Material : Zinc Plated
Note: [Option 9](#)



E-track & clamp
Eutectic cold van
HD45 ~ HD170
Material : SUS430
Note: [Option 10](#)



Trolley
Eutectic cold van
HD45 ~ HD170
Note: [Option 11](#)



**SUS430/304
checked floor**
Eutectic cold van
HD45 ~ HD170
Note: [Option 12](#)



Solenoid valve
Eutectic cold van
HD45 ~ HD170
Note: [Option 13](#)

Option 3

- Locking type and the size can be changed according to customer requirements (standard 800W x 1200H)
- The locking bar material is SUS304 (lockable key box is included)

Option 4

- Recessed-type door includes anti-freezing heated wire; dimensions can be changed according to customer requirements

Option 5

- Customers can lock and unlock every box door with central lock switch

Body

Option 6

- Can be mounted to both rear and side doors, and for the side door, it consists of 12 ~ 15 rectangular plastic curtains of 200mm width per door

Option 7

- AL checked plate is applied to cover the steel square step
- Tubular-type rear step is standard when this option is not selected
(The standard rear step is an option which can be selected at the first stage of building your C/Cab)

Option 8

- If damaged, the damaged part alone can be replaced as it is a removable/detachable floor
(however, the trolley cannot be selected when selecting this option)

Option 9

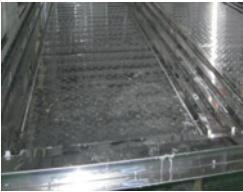
- Zinc plated square pipes are mounted horizontally/vertically and can be removed and reattached as necessary, in order to facilitate easier classification of cargo
- Partitions can be connected from the floor to the ceiling according to customer requests, and can be installed so that they are only separated near the door (size can be adjusted)
- If this option is selected, the additional side door must be selected (one side door is needed per partition)
- The trolley cannot be selected when this option is specified

Option 10

- It cannot be selected with the inner partition option
- Normally, this option is bundled with the trolley option

Option 11

- The trolley is a standardized product but dimensions can be changed to customer requirements
- The material is zinc plated bars and includes an anti-slip stopper on the wheels
- The stopper is installed at the body front once the trolley option has been selected
- It can be used with the FRP Checked / Inner Partition options
- The trolley rail is included as a standard when this option is selected
- The trolley can only pass through the rear door
- The side door must be changed to the big size to make entry and exit possible



Trolley Rail

Option 12

- It changes the floor plate to SUS checked type

Option 13

- Provides On/Off function
- It is an option which can be selected for Dry/Refrg/Refrg. or Refrg/Refrg/Refrg when the box layout is changed
- Used to set the temperature to the maximum low

Installation of Electric Charging Cable



Charging Time

Vehicle cannot be driven during charging time
(8 ~ 10 hours)

- 1.1. Install the switchboard for electric charging cable as above.
(Please keep in mind that the electric current must match the compressor current.)
2. Connect electric charging cable.
3. There are four electric lines in a charging cable: G (green color) is for earth line and the others are for electric power.
4. After connecting the charging cable from the switchboard, please connect the charging cable to the control box of eutectic cold top.
5. About 15 min later, the compressor will start running.
6. If the compressor does not start running, please reverse any two of the 3 electric power lines so that it can synchronize phases between the switchboard and the compressor.

Bottle Carrier



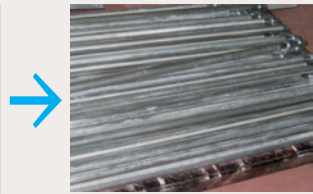
HD72 Bottle Carrier

Inward slope prevents cargo from shifting

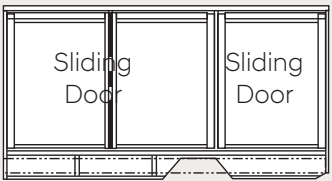
Inside floor Inclination: 4~6°

- The standard vehicle types are HD65 / 72 / 78 / 120, and they have 8 bays (LH/RH, 4 bays per side).
- HD170 or higher models are not recommended as the height from the ground to the van makes bottle loading difficult (subject to confirmation of forklift loading capability).
- HD170 or higher models can also be manufactured (if forklift loading capability is confirmed) by reducing the number of bays (2~3 bays for LH side).
- The frame (R.O.H) length varies -300mm ~ +300mm according to the bottle carrier body size.
- The size and number of bays can be changed, but the body size and loaded pallet size must be first considered.
- 8-bay / 12-bay / 16-bay are standard configurations but 6-bay / 10-bay are also possible on special request.
- The recommended spec is a v-shaped type, and the flat floor is also possible on customer request, but it is not recommended due to the possibility of roll-over during turns.

- A pair of zinc-plated pipes are provided for each bay as bottle guards.

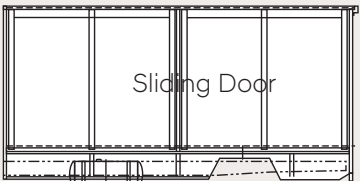


Aluminum pipe



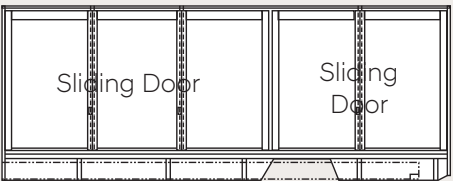
6-Bay

LH/RH, 3 Bays for each
Sliding Door



8-Bay

LH/RH, 4 Bays for each
Sliding Door



10-Bay

LH/RH, 5 Bays for each
Sliding Door

Van Truck

Bottle Carrier

Body



Inner partition

Bottle Carrier
HD65 / 72 /120

Note: Standard



SUS430 flat floor
(V-shpaed)

Bottle Carrier
HD65 / 72 /120

Note: Standard



Side folding step

Bottle Carrier
HD65 / 72 /120

Note: Standard

Reinforcement

Bottle Carrier
HD65 / 72 /120

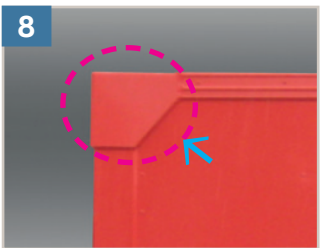
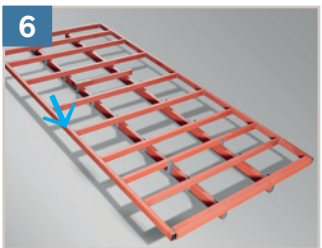
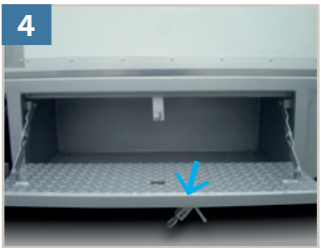
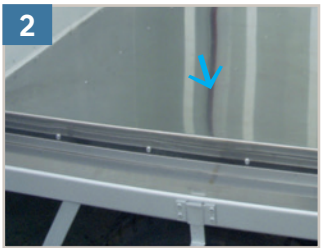
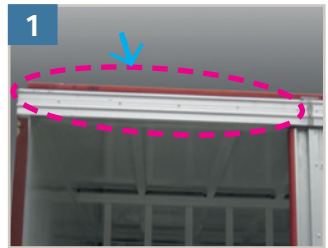
Note: Option 1

Option 1

• If reinforced, 0.3 ton of G.V.W is increased (axle-weight regulations of the corresponding country must be checked)

	Contents	STANDARD	REINFORCEMENT	REMARKS
1	Roof Rail	3.2t	4t	Steel
2	Floor Rivet (KVEX4.8)	AL Rivet (Side is Steel)	SUS Rivet	Rivet number unchanged
	Floor	SUS430 1.2t	SUS430 1.5t	
3	Box Panel	GI Steel Plate 0.7t	GI Steel Plate 0.8t	Front/Middle/Rear
4	Folding Step Pipe	2.3t x 40mm x 40mm	3.2t x 50mm x 50mm	Steel
5	Frame Pipe	2.3t x 75mm x 45mm	3.2t x 100mm x 50mm	Front/Middle/Rear
		3.2t x 50mm x 50mm	3.2t x 45mm x 75mm	Cross Member
		2.3t	3.2t	Center
		2.3t x 40mm x 20mm	2.3t x 50mm x 30mm	Door Frame
6	Corner Reinforcement	-	Add Reinforcement	Conner

Bottle Carrier Reinforcement Reference Information



Van Truck
Wingbody

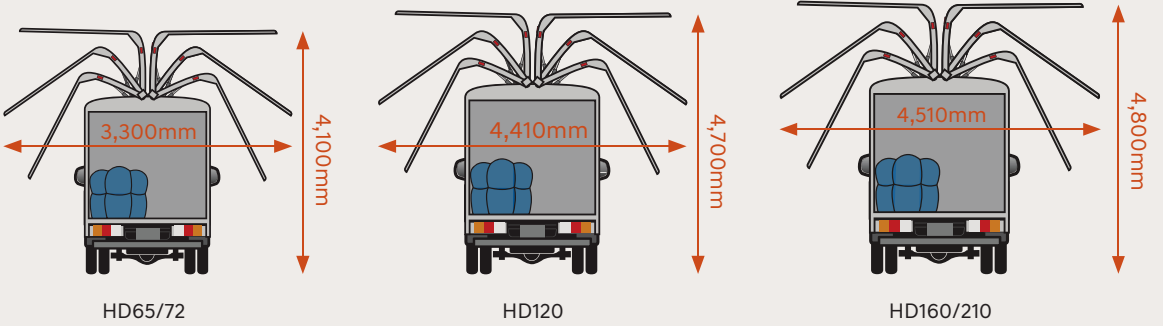


• HD65 ~ 320 long wheelbase are standard
however all vehicle types can be manufactured as Wingbody

• Both sides are raised using an electro-hydraulic control system making
the Wingbody especially suited for quick forklift loading/unloading



* Pallet units are standardized for easy handling



* Dimensions can be changed according to the box manufacturing size

Van Truck

Wingbody

Body



Air spoiler

Wingbody
HD65 ~ HD320

Note: [Standard](#)



Rear door

Wingbody
HD65 ~ HD320

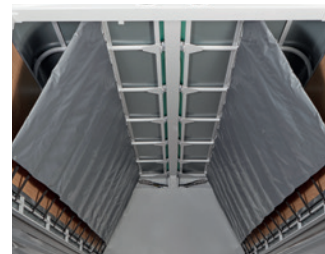
Note: [Standard](#)



Apitong wood floor

Wingbody
HD65 ~ HD170
Above HD250, steel checked floor is applied

Note: [Standard](#)



Protective cover (fabric)

Wingbody
HD65 ~ HD320
Elastic band applied

Note: [Standard](#)



Wing controller

Wingbody
HD65 ~ HD320
Hydraulic Power Pack
RH/LH each side

Note: [Standard](#)



Inside work lamp (LED)

Wingbody
HD65 ~ HD320

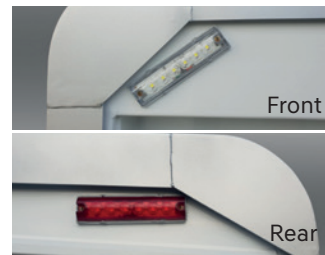
Note: [Standard](#)



Work lamp switch (C/Cab)

Wingbody
HD65 ~ HD320

Note: [Standard](#)



Body endout marker lamp (LED)

Wingbody
HD65 ~ HD320

Note: [Standard](#)



Aluminum side gate

Wingbody
HD65 ~ HD320
Light Weight / Anti-corrosive
Thickness : 40mm
height : 600mm (~HD170)
800mm (HD250~)

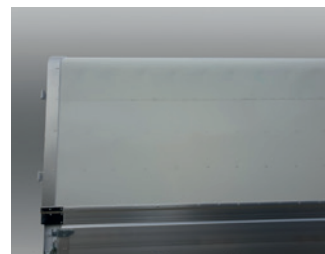
Note: [Standard](#)



Side gate assistance device

Wingbody
HD65 ~ HD320

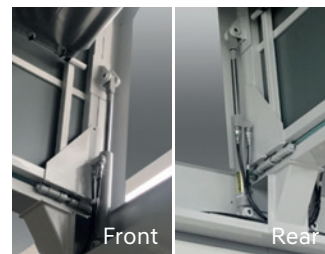
Note: [Standard](#)



Aluminum panel (0.8mm)

Wingbody
HD65 ~ HD320

Note: [Standard](#)



Hydraulic cylinder

Wingbody
HD65 ~ HD320

Note: [Standard](#)

Van Truck

Two-way Refrig / Cool Van



- Can be used as refrigerator van and cool van (maintain -18°C ~ 0°C).
- Additional refrigerator / movable partitions are mounted and dedicated panels are applied to the standard refrigerator van.
- The panel/frame reinforcement is applied as a standard but the electric fan is not included and the side door is optional.
- As there are two refrigeration units, sub-engine level freezing is possible when the movable partitions are removed.
- Alternators with a minimum 70A rating are highly recommended. Kindly discuss your requirements with the Special Vehicle Team.



Bulk condenser

Two-way of Ref. / Cool van
HD65 / 120

Note: [Standard](#)



SUS304 flat floor

Two-way of Ref. / Cool van
HD65 / 120
* HD65 : 750mm,
HD120 : 1,000mm

Note: [Standard](#)



E-track/belt (2-row)

Two-way of Ref. / Cool van
HD65 / 120
Equipped with Air Rib
Horizontal

Note: [Standard](#)



Additional evaporator

Two-way of Ref. / Cool van
HD65 / 120

Note: [Standard](#)



Movable partition

Two-way of Ref. / Cool van
HD65 / 120
Purpose: Partition partition Ref./Cool
Material : ABS panel + Sponge
Thickness : 75 mm

Note: [Standard](#)

