

DISPLAY & UPRIGHT SERIES

WITH INVERTER SYSTEM



Introducing our Commercial Display & Upright Refrigerators with INVERTER Compressor System – engineered for efficiency, safety, and durability. Enjoy superior energy savings, rapid cooling, and optimized performance.

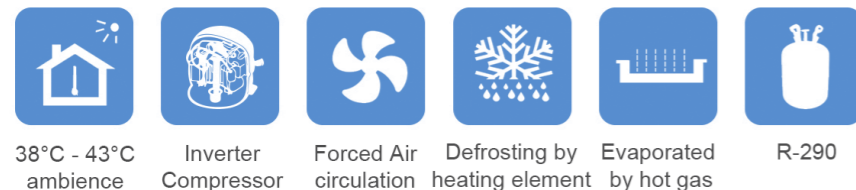
Our display and upright refrigerators are perfect for cafes and restaurants, keeping drinks and other foods at ideal serving temperatures to attract customers. Made from durable stainless steel, they're built for busy kitchens and come in single or multi-door models with easy-to-clean doors. Keep your products cool, accessible, and inviting with our reliable refrigeration solutions in Singapore.



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500L Series	05-06
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FEATURES & CONFIGURATIONS

- No welding and polishing on the exterior surface of the unit.
- Door gasket is easy to remove for cleaning and replacement.
- Wide round edges and corners for easy cleaning.
- Monoblock refrigeration system, easy to remove for repairing and cleaning.
- External LED lighting for operation.
- Adjustable feet, up to 200mm (40mm for some models).
- High density, CFC-free insulation, 60mm thickness, 40Kg/M³.
- Self-closing door.
- Heated door frame to avoid water condensation (for freezer models only).
- Full copper evaporator, fast cooling.
- High-speed fan motor ensures even cooling throughout the interior.
- Digital thermostat with temperature display for precise food temperature control.
- Defrosting system by time and temperature (natural defrosting for chiller).
- Draining system/hole inside for defrosting water.
- Works in ambient temperatures up to 43°C (38°C for some models).
- Exterior of AISI 304 stainless steel, back of galvanized metal plate. Interior of AISI 304 stainless steel.
- Options: Castor wheels, AISI 304 stainless steel, 220V/60Hz.



	<p>Inverter Compressor We use a high-quality compressor with inverter technology, offering variable speed for precise temperature control and improved energy efficiency</p>		<p>Digital Controller Precisely control and display the temperature of food based on user demand.</p>
<p>Extra-thick Insulation 60mm thickness of insulation Better heat preservation to reduce energy consumption.</p>		<p>R290 Refrigerant The environment-friendly R290 Refrigerant is widely used to reduce pollution.</p>	
	<p>Round Edge and Corner Food residual and water can be easily cleaned to reduce bacteria and guarantee the safety of food.</p>		
<p>Built-in Copper Evaporator</p>		<p>Evaporator Fan High speed fan motor ensures the cool air to blow to anywhere inside</p>	<p>Strong Magnetic Gasket Removable gasket for cleaning and replacement.</p>
	<p>Shelf and Guide The height of shelves is adjustable due to the size of stored products.</p>		<p>Door Handle with End Cover Strong and Practical Design Exchange for Right and Left hand.</p>
<p>Castor with Brake It is optional.</p>		<p>Adjustable Bullet Feet Range 150-200mm.</p>	



IAR2 / IAF2

Net Volume (L): 500L

External Dimension (mm) : 680 x 760 x 1965 mm



DN-IAS0.5G
DN-IAF0.5G



DN-IAR2
DN-IAF2



DN-IARF2



Model No	DN-IAS0.5G	DN-IAF0.5G	DN-IAR2	DN-IAF2	DN-IARF2
Cooling Type	Ventilated				
Defrosting Type	Automatic				
Temperature Range (°C)	+8°C ~ 0°C	-3°C ~ -20°C	+8°C ~ 0°C	-3°C ~ -20°C	-3°C ~ -20°C
Ambient Temperature (°C)	32N	43T	32N	43T	43T
Refrigerant	R-290	R-290	R-290	R-290	R-290
Voltage / Frequency	220V / 50-60 Hz				
Rated Power / Current	259W / 1.3A				
Phase	Single Phase				
Compressor Model	VEMT406U				
Door	1	1	2	2	2
Type	Chiller	Freezer	Chiller	Freezer	Combination

Warranty: One-year parts & labor for entire unit, 2nd year on compressor only, excluding doors & exterior damages.



IAR4 / IAF4

Net Volume (L): 1000L

External Dimension (mm) : 1220 x 760 x 1965 mm



DN-IAS1.0G2
DN-IAF1.0G2



DN-IAR4
DN-IAF4



DN-IARF4

Model No	DN-IAS1.0G2	DN-IAF1.0G2	DN-IAR4	DN-IAF4	DN-IARF4
Cooling Type	Ventilated				
Defrosting Type	Automatic				
Temperature Range (°C)	+8°C ~ 0°C	-3°C ~ -20°C	+8°C ~ 0°C	-3°C ~ -20°C	-3°C ~ -20°C
Ambient Temperature (°C)	32N	43T	32N	43T	43T
Refrigerant	R-290	R-290	R-290	R-290	R-290
Voltage / Frequency	220V / 50-60 Hz				
Rated Power / Current	377W / 1.9A				
Phase	Single Phase				
Compressor Model	VEHT409U				
Door	2	2	4	4	4
Type	Chiller	Freezer	Chiller	Freezer	Combination

Warranty: One-year parts & labor for entire unit, 2nd year on compressor only, excluding doors & exterior damages.



IAR6 / IAF6

Net Volume (L): 1500L

External Dimension (mm) : 1840 x 760 x 1965 mm



DN-IAS1.6G3
DN-IAF1.6G3



DN-IAR6
DN-IAF6

Model No	DN-IAS1.6G3	DN-IAF1.6G3	DN-IAR6	DN-IAF6
Cooling Type	Ventilated			
Defrosting Type	Automatic			
Temperature Range (°C)	+8°C ~ 0°C	-3°C ~ -20°C	+8°C ~ 0°C	-3°C ~ -20°C
Ambient Temperature (°C)	32N	43T	32N	43T
Refrigerant	R-290	R-290	R-290	R-290
Voltage / Frequency	220V / 50-60 Hz			
Rated Power / Current	549W / 2.8A			
Phase	Single Phase			
Compressor Model	VEHU413U			
Door	3	3	6	6
Type	Chiller	Freezer	Chiller	Freezer

Warranty: One-year parts & labor for entire unit, 2nd year on compressor only, excluding doors & exterior damages.



DN-IASM-0.5



DN-IASM-1.0



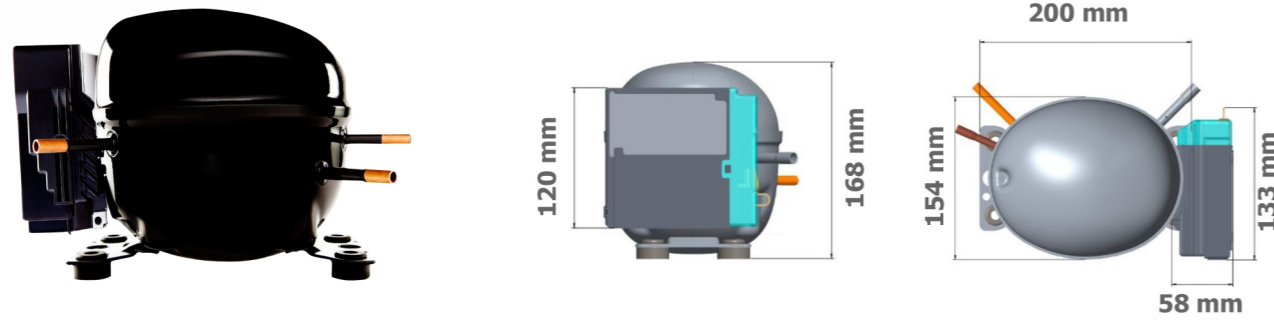
DN-IASM-1.5

Model No	DN-IASM-0.5	DN-IASM-1.0	DN-IASM-1.5
Cooling Type	Ventilated		
Defrosting Type	Automatic		
Net Volume (L)	290L	580L	870L
External Dimension (W x D x H mm)	600 x 630 x 1800	1200 x 630 x 1800	1800 x 630 x 1800
Temperature Range (°C)	+8°C ~ 0°C	+8°C ~ 0°C	+8°C ~ 0°C
Ambient Temperature (°C)	32N	32N	32N
Refrigerant	R-290	R-290	R-290
Voltage / Frequency	220V / 50-60 Hz		
Rated Power / Current	259W / 1.3A	377W / 1.9A	377W / 1.9A
Phase	Single Phase		
Compressor Model	VENT406U	VEHT409U	VEHT409U
Door	1	2	3
Type	Chiller	Chiller	Chiller

Warranty: One-year parts & labor for entire unit, 2nd year on compressor only, excluding doors & exterior damages.

Main Component

EMBRACO COMPRESSOR (Inverter) Series

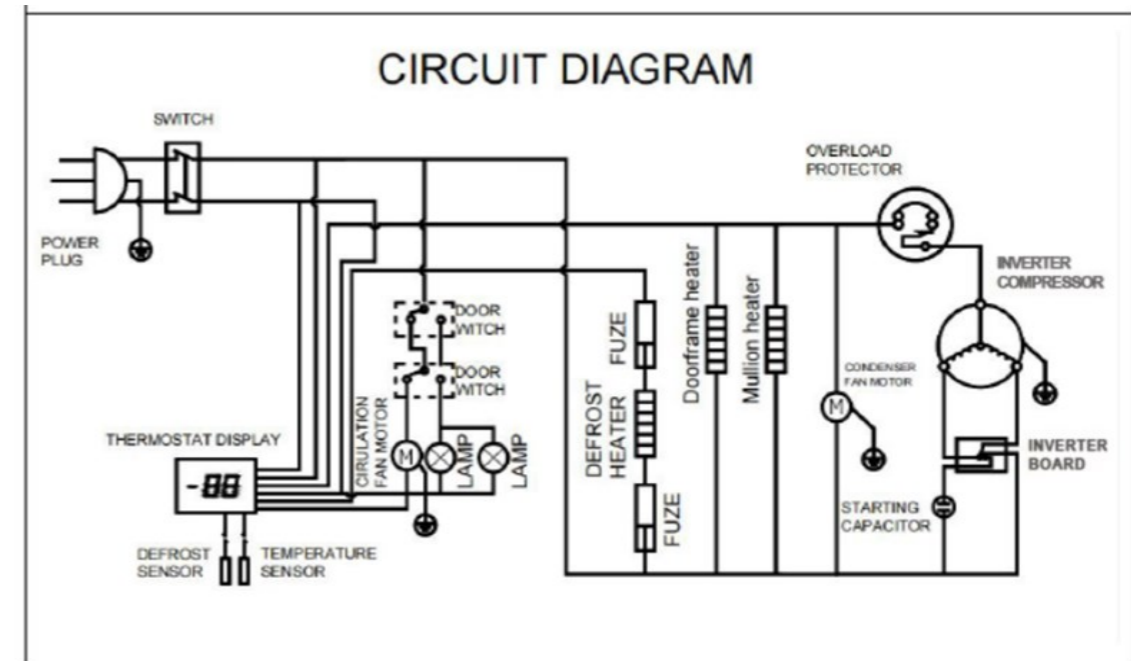


Embraco variable speed compressors are a solution for residential and commercial applications which demand fast cooling, low energy consumption, operate with a low starting voltage and with a wide operating range, low noise and vibration levels. The variable speed compressor associated with an inverter allows the compressor to run in different RPM, delivering the cooling capacity needed according to the thermal load.

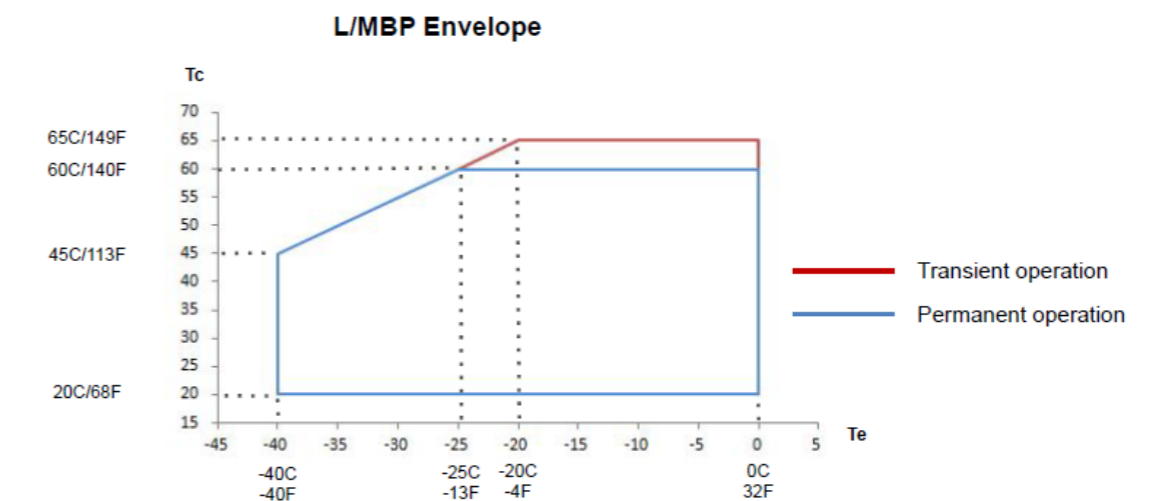
FEATURES

- **Efficiency:** Higher EER on R290 for commercial applications at variable speed
- **Wide Voltage Range:** Guarantee for the equipment to run even with voltage fluctuation
- **Environmentally Friendly:** Uses R290 natural refrigerant with no impact on the ozone layer (GWP: 3)
- **Lower Noise & Less Vibrations:** Consistent noise level reduction
- **Longer Expected Lifespan:** Softer startup, lower stress on mechanical and electrical parts

Model No	VENT406U	VEHT409U	VEHU413U
Nominal Voltage (V)	115-240V	115-240V / 220-240V	115-240V / 220-240V
Frequency (Hz)	50-60Hz		
Disp (CC)	6.36	9.04	12.74
Refrigerant	R-290		
Inverter - Power Input	400W DV	550W DV / 1000W PFC	1000W DV / 1000W PFC
Operating Temperature	+0°C ~ -40°C		
Speed Range (RPM)	1600 to 4500		
Cap Range - Cooling Capacity	155 - 445	228 - 675	343 - 939
Max Coefficient of Performance (W / W)	1.72	1.79	1.71



L/MBP (Low/Medium Back Pressure) Compressor Operating Envelope



Insights:

- The condensing temperature can go up to 60°C (140°F) in continuous operation but can spike up to 65°C (149°F) transiently.
- The evaporating temperature can drop as low as -35°C for safe continuous use, with the compressor capable of handling even lower temperatures (-40°C), but only temporarily.
- The graph shows the compressor's performance limitations and indicates where it performs best without risking damage due to excessive pressure or temperature extremes.

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