

# UNDER COUNTER SERIES

## WITH INVERTER SYSTEM



Introducing our Under Counter Chiller & Freezer Series with Inverter Compressor System – engineered for efficiency, safety, and durability. Enjoy superior energy savings, rapid cooling, and optimized performance.

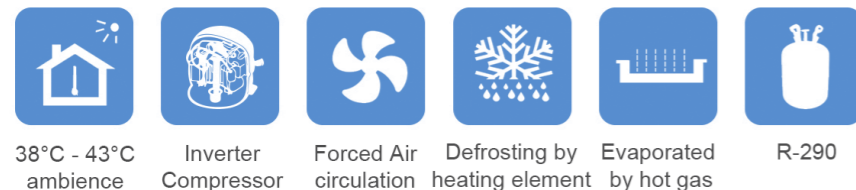
Our Undercounter Chiller and Freezer series combines efficient cooling with ample prep space on top, perfect for busy commercial kitchens. Designed to thrive in high-heat environments (up to 43°C), these units are crafted from durable stainless steels, ensuring long-lasting performance and easy cleaning.



Features & Configurations	03-04
600 Series	05-06
750 Series	07-08
Inverter Compressor System	09-10

# 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/M<sup>3</sup>.
- 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><b>Inverter Compressor</b> We use a high-quality compressor with inverter technology, offering variable speed for precise temperature control and improved energy efficiency</p>		<p><b>Digital Controller</b> Precisely control and display the temperature of food based on user demand.</p>
<p><b>Extra-thick Insulation</b> 60mm thickness of insulation Better heat preservation to reduce energy consumption.</p>		<p><b>R290 Refrigerant</b> The environment-friendly R290 Refrigerant is widely used to reduce pollution.</p>	
	<p><b>Round Edge and Corner</b> Food residual and water can be easily cleaned to reduce bacteria and guarantee the safety of food.</p>		
<p><b>Built-in Copper Evaporator</b></p>		<p><b>Evaporator Fan</b> High speed fan motor ensures the cool air to blow to anywhere inside</p>	<p><b>Strong Magnetic Gasket</b> Removable gasket for cleaning and replacement.</p>
	<p><b>Shelf and Guide</b> The height of shelves is adjustable due to the size of stored products.</p>		<p><b>Door Handle with End Cover</b> Strong and Practical Design Exchange for Right and Left hand.</p>
<p><b>Castor with Brake</b> It is optional.</p>		<p><b>Adjustable Bullet Feet</b> Range 150-200mm.</p>	



DN-IAWR1260 / DN-IAWR1560  
DN-IAWF1260 / DN-IAWF1560  
DN-IAWR1860 / DN-IAWF1860



DN-IAWR2160  
DN-IAWF2160

Model No	DN-IAWR1260	DN-IAWF1260	DN-IAWR1560	DN-IAWF1560
Net Volume (L)	208L		304L	
External Dimension (W x D x H mm)	1200 x 600 x 850		1500 x 600 x 850	
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)	43T	43T	43T	43T
Refrigerant	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	2	2	2	2
Type	Chiller	Freezer	Chiller	Freezer

Model No	DN-IAWR1860	DN-IAWF1860	DN-IAWR2160	DN-IAWF2160
Net Volume (L)	344L		460L	
External Dimension (W x D x H mm)	1800 x 600 x 850		2100 x 600 x 850	
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)	43T	43T	43T	43T
Refrigerant	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	2	2	3	3
Type	Chiller	Freezer	Chiller	Freezer

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



DN-IAWR1275 / DN-IAWF1275  
DN-IAWR1575 / DN-IAWF1575 / DN-IAWRF15  
DN-IAWR1875 / DN-IAWF1875 / DN-IAWRF18



DN-IAWR2175 / DN-IAWF2175



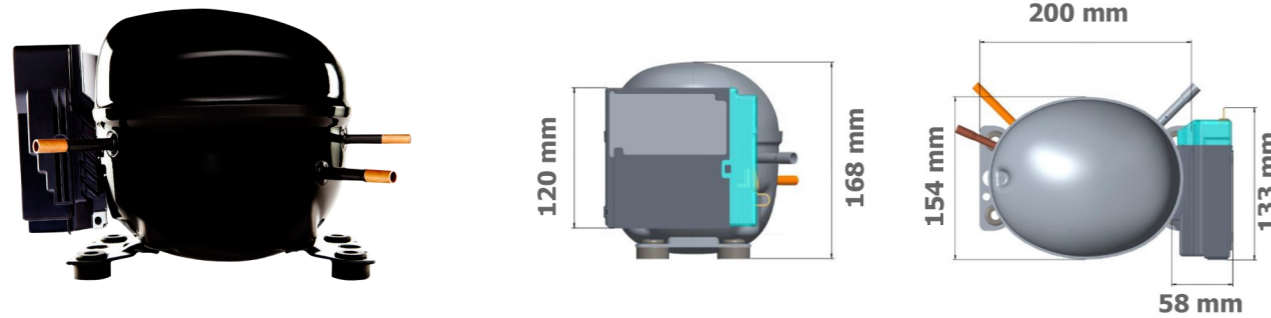
Model No	DN-IAWR1275	DN-IAWF1275	DN-IAWR1575	DN-IAWF1575	DN-IAWRF15
Net Volume (L)	260L		380L		
External Dimension (W x D x H mm)	1200 x 750 x 850		1500 x 750 x 850		
Cooling Type	Ventilated				
Defrosting Type	Automatic				
Temperature Range (°C)	+8°C ~ 0°C	-3°C ~ -20°C	+8°C ~ 0°C	-3°C ~ -20°C	-3°C ~ -20°C
Ambient Temperature (°C)	43T	43T	43T	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	2	2	2	2	2
Type	Chiller	Freezer	Chiller	Freezer	Combination

Model No	DN-IAWR1875	DN-IAWF1875	DN-IAWRF18	DN-IAWR2175	DN-IAWF2175
Net Volume (L)	430L			575L	
External Dimension (W x D x H mm)	1800 x 750 x 850			2100 x 750 x 850	
Cooling Type	Ventilated				
Defrosting Type	Automatic				
Temperature Range (°C)	+8°C ~ 0°C	-3°C ~ -20°C	-3°C ~ -20°C	+8°C ~ 0°C	-3°C ~ -20°C
Ambient Temperature (°C)	43T	43T	43T	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			377W / 1.9 A	
Phase	Single Phase				
Compressor Model	VEMT406U			VEHT409U	
Door	2	2	2	3	3
Type	Chiller	Freezer	Combination	Chiller	Freezer

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

**Main Component**

**EMBRACO COMPRESSOR (Inverter) Series**

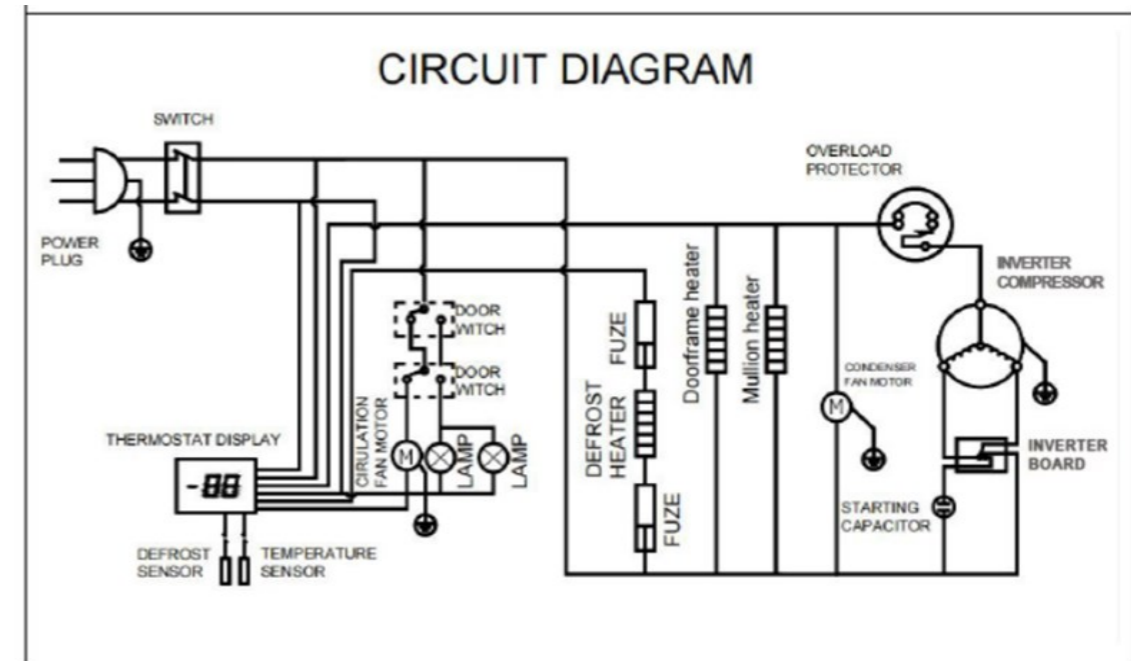


Embraco variable speed compressors are a solution for residential and commercial applications which demand fast cooling, low energy consumption, operate with a low starting voltage and with a wide operating range, low noise and vibration levels. The variable speed compressor associated with an inverter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

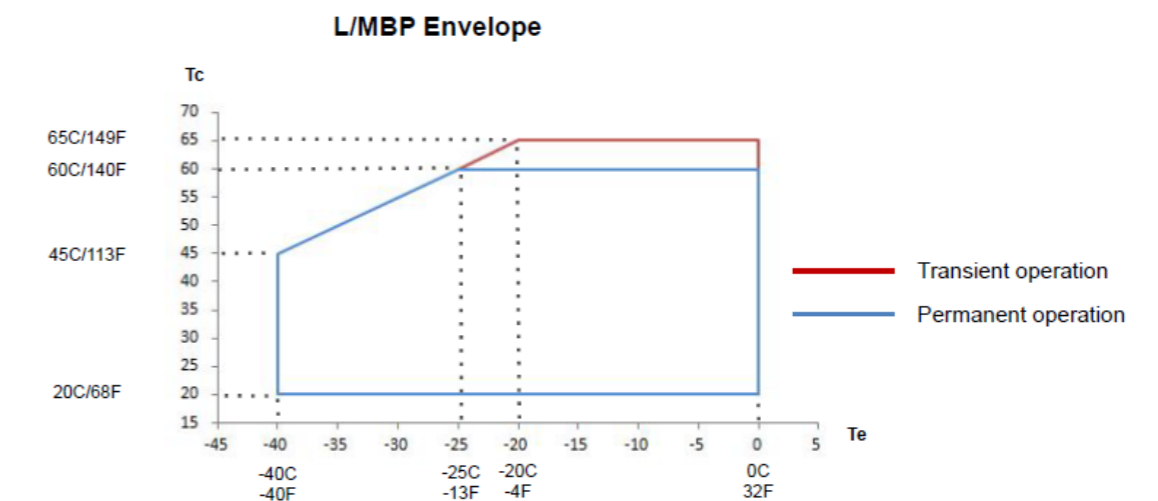
**FEATURES**

- **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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