

# Pepsi single-door refrigerator, 90 cm, compressor, 1/2 hp hbp

**Site:** Mbsmpro

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**Mbsmpro.com, Compressor, Danfoss, SC15G,  
104G8525, 1/2 hp, MBP/HBP, R134a, 738 W, 3.1 A,  
1Ph 220-240V 50Hz, CSIR, -15°C to +15°C,  
Commercial Cooling**

In the world of commercial refrigeration, the **Danfoss SC15G** stands as a robust pillar of reliability. Precision-engineered in Germany, this compressor is designed to handle the rigorous demands of Medium and High Back Pressure (MBP/HBP) systems. Whether it is powering a large beverage cooler or a professional display cabinet, the SC15G provides the thermal displacement necessary to maintain consistent temperatures even in high-traffic commercial environments. Its heavy-duty construction and high-starting torque make it a preferred choice for field technicians who prioritize longevity over temporary fixes.

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### **Technical Data Sheet**

<b>Feature</b>	<b>Specification</b>
<b>Model</b>	Danfoss SC15G (104G8525)
<b>Utilisation (mbp/hbp/lbp)</b>	MBP / HBP
<b>Domaine (Freezing/Cooling)</b>	Cooling (Professional)
<b>Cooling wattage at -10°C</b>	738 Watts
<b>Cubic feet can this compressor cool?</b>	20 – 25 cu.ft

<b>Feature</b>	<b>Specification</b>
<b>Litres can this compressor cool?</b>	550 – 700 Liters
<b>Kcal/h</b>	635 Kcal/h
<b>Oil Type and quantity</b>	POE, 550 ml
<b>Horsepower (HP)</b>	1/2 HP
<b>Refrigerant Type</b>	R134a
<b>Power Supply</b>	220-240V / 50Hz / 1Ph
<b>Cooling Capacity BTU</b>	2520 BTU/h (at -10°C) / 5050 BTU/h (at +7.2°C)
<b>Motor Type</b>	CSIR (Capacitor Start – Induction Run)
<b>Displacement</b>	15.28 cm <sup>3</sup>
<b>Winding Material</b>	100% Copper
<b>Pression Charge</b>	18 – 24 bar
<b>Capillary</b>	0.042" to 0.050" (Application dependent)
<b>Modele Frigo / Refrigerator</b>	Large Bottle Coolers, Display Cases, Laboratory Fridges
<b>Temperature function</b>	-15°C to +15°C
<b>With fan or no</b>	Fan cooling is Mandatory (250 m <sup>3</sup> /h)
<b>Commercial or no</b>	Commercial Grade
<b>Amperage in function</b>	3.1 A to 3.5 A
<b>LRA</b>	14.8 A

<b>Feature</b>	<b>Specification</b>
<b>Type of relay</b>	Electromagnetic / Starting Relay
<b>Capacitor and value</b>	Start Capacitor: 80 $\mu$ F
<b>Country of origin</b>	Germany

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### **Efficiency Metrics (COP)**

<b>Evaporating Temp (°C)</b>	<b>Cooling Capacity (Watts)</b>	<b>Power Consumption (Watts)</b>	<b>COP (W/W)</b>
<b>-15</b>	560	380	1.47
<b>-10</b>	738	425	1.74
<b>-5</b>	950	470	2.02
<b>0</b>	1195	515	2.32
<b>+5</b>	1480	565	2.62
<b>+10</b>	1805	615	2.93
<b>+15</b>	2170	665	3.26

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### **Engineering Insights: SC15G vs. Standard Models**

The SC15G belongs to the “SC” family, which features a larger housing compared to the “TL” or “FR” series. This extra internal volume allows for better motor cooling and a higher tolerance for liquid slugging, which is common in commercial settings where doors are frequently opened.

When comparing this to a standard domestic 1/2 HP compressor, the Danfoss SC15G offers a much higher **Starting Torque (HST)**. This means

it can start against high head pressures without tripping the protector, a critical feature for systems utilizing thermostatic expansion valves (TXV).

## **Installation Notices and Benefits**

- **Thermal Protection:** This unit requires external forced air cooling. Never install the SC15G in a restricted enclosure without a condenser fan.
  - **Lubrication:** The POE oil used is highly sensitive to moisture. Ensure the system is open for the shortest time possible during a compressor swap.
  - **Longevity:** Its copper-wound motor provides superior resistance to burnout compared to budget-grade aluminum alternatives.
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## **5 Compressor Replacements (Same Gas: R134a)**

1. **Embraco:** NEK6213Z
2. **Tecumseh:** AE4456Y-FZ
3. **Secop:** SC15G (104G8520)
4. **Aspera:** NE6213Z
5. **Huayi:** HYE15YG

## **5 Compressor Replacements (Other Gas: R404A/R290)**

1. **Secop:** SC15CL (R404A) - Note: Oil/Valve change required.
  2. **Embraco:** NEK6217GK (R404A)
  3. **Cubigel:** MS18TB (R404A)
  4. **Secop:** SC15CNX (R290)
  5. **Tecumseh:** CAJ9461Z (R404A)
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**Focus keyword:** Danfoss SC15G 104G8525 Compressor 1/2 HP R134a  
MBP HBP Technical Specifications

**SEO Title:** Mbsm.pro, Compressor, Danfoss, SC15G, 104G8525, 1/2 hp,  
R134a, Germany

**Meta Description:** Full technical review of the Danfoss SC15G 104G8525.  
A 1/2 HP R134a compressor for commercial MBP/HBP cooling. Includes COP  
data, wiring specs, and replacement guides.

**Slug:** danfoss-sc15g-104g8525-1-2hp-r134a-compressor-guide

**Tags:** Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, Danfoss SC15G,  
104G8525, 1/2 HP Compressor, R134a, Commercial Refrigeration, Secop  
Germany, Embraco NEK6213Z, Tecumseh AE4456Y, SC15G Replacement.

**Excerpt:** The Danfoss SC15G (104G8525) is a high-capacity 1/2 HP  
compressor designed for R134a commercial cooling applications. Featuring  
a 15.28cc displacement and German engineering, it excels in MBP/HBP  
environments like display coolers. This professional guide details its 738W  
cooling capacity, electrical requirements, and provides a comprehensive  
cross-reference list for field technicians and engineers.



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- The process of replacing the air conditioner compressor is successful, and it is working as it was before ?