

SC18CLX.2 compressor 104L2197 Danfoss Secop R404A R507 LBP 220-240V 50Hz specifications replacement

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Mbsmpro.com, Compressor, SC18CLX.2, 3/4 hp, Danfoss Secop, Freezing, R404A/R507, 104L2197,

1Ph 220-240V 50Hz, LBP, CSIR, -45°C to +10°C, 17.68 cm³, Made in Germany

Technical Specifications

Specification	Value
Model	SC18CLX.2 (104L2197)
Utilisation (mbp/hbp/lbp)	LBP (Low Back Pressure)
Domaine (Freezing/Cooling)	Freezing / Deep Freezing
Cooling wattage at -23°C	849 W (EN 12900) / 986 W (ASHRAE LBP)
Cubic feet can this compressor cool	Approximately 6-8 cubic feet
Litres can this compressor cool	Approximately 170-225 liters
Kcal/h	730 kcal/h (at -10°C evaporating)
TON	0.25 – 0.3 TON
Oil Type and quantity	Polyolester (POE), 550 cm ³
Horsepower (HP)	3/4 HP (approximately 0.75 HP)
Refrigerant Type	R404A / R507
Power Supply	220-240V, 1 Phase, 50Hz
Cooling Capacity BTU	3671 BTU (at -10°F LBP) www.ebay.com
Motor Type	CSIR (Capacitor Start Induction Run)
Displacement	17.68 cm ³
Winding Material	Copper
Pressure Charge	Maximum refrigerant charge: 1300g
Capillary	Not specified (system dependent)

Specification	Value
Model Fridge or refrigerator	Commercial freezers, display cabinets, beverage coolers
Temperature function	–45°C to +10°C evaporating temperature
With fan or no	Fan cooling (F2)
Commercial or no	Yes – Commercial refrigeration
Amperage in function	3.13A to 5.26A (depending on evaporating temp)
LRA (Locked Rotor Amps)	23.5A
Type of relay	HST (High Starting Torque) required
Capacitor or no and valeur	Starting capacitor required (CSIR motor)
Country of origin and exporting countries	Germany (Made in Germany) – Exported worldwide

Efficiency Metrics (COP)

Evaporating Temp (°C)	-30	-25	-23.3	-20	-15	-10	0	4	10
Cooling Capacity (Watts)	595	780	849	995	1245	1532	–	–	–
Power Consumption (Watts)	598	680	708	765	854	949	–	–	–
COP (W/W)	1.00	1.15	1.20	1.30	1.46	1.61	–	–	–

Performance data based on EN 12900 Household standard, 220V 50Hz, fan cooling

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ASHRAE LBP Performance Data

Evaporating Temp (°C)	-30	-25	-23.3	-20	-15	-10	0	5	10
Cooling Capacity (Watts)	691	905	986	1156	1447	1783	–	–	–
Power Consumption (Watts)	598	680	708	765	854	949	–	–	–
COP (W/W)	1.16	1.33	1.39	1.51	1.69	1.88	–	–	–

Performance data based on ASHRAE LBP standard, 220V 50Hz, fan cooling

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Current Consumption by Temperature

Evaporating Temp (°C)	-30	-25	-23.3	-20	-15	-10
Current (Amps)	3.98 A	4.28 A	4.39 A	4.60 A	4.92 A	5.26 A

5 Compressor Replacements (Same R404A/R507 Refrigerant)

Model	Manufacturer	HP	Displacement	Voltage	Notes
SC18CLX.2	Secop/Danfoss	3/4 HP	17.68 cm ³	220-240V 50Hz	Original equivalent www.mbsm.pro
SC18/18CL	Secop/Danfoss	3/4 HP	17.68 cm ³	220-240V 50Hz	LBP/MBP version www.prokes-auto.com
SC15CLX.2	Secop/Danfoss	1/2 HP	12.9 cm ³	220-240V 50Hz	Slightly lower capacity
SC21CLX.2	Secop/Danfoss	1 HP	21.0 cm ³	220-240V 50Hz	Higher capacity alternative
HST Series	Various	3/4 HP	Similar	220-240V 50Hz	High starting torque models

5 Compressor Replacements (Other Refrigerants –

Conversion Required)

Model	Refrigerant	HP	Manufacturer	Voltage	Notes
SC18/18G	R134a	3/4 HP	Danfoss/Secop	220-240V 50Hz	HBP application www.ebay.com
SC18CNX	R290 (Propane)	3/4 HP	Danfoss	220-240V 50Hz	Natural refrigerant assets.danfoss.com
GS21MLX	R134a	1 HP	Secop	220-240V 50Hz	CSCR motor type www.secop.com
SC18GH	R134a	3/4 HP	Secop	220-240V 50Hz	HBP – High Back Pressure www.skh-kaeltetechnik.de
GM80AF	R134a	1/4+ HP	ZMC	220V 50Hz	Household type (different capacity) www.teksogutan.com

Applications

This compressor is ideal for:

- **Commercial freezers** and deep freezers
- **Beverage cooling systems** and drink dispensers
- **Display cabinets** for frozen foods
- **Ice cream cabinets**
- **Cold storage rooms** (small to medium size)
- **Medical refrigeration** (vaccine freezers, laboratory equipment)
- **Transport refrigeration** units

Key Features

- ✓ **Robust German engineering** – Manufactured in Germany with strict quality control
- ✓ **Versatile refrigerant compatibility** – Works with both R404A and R507
- ✓ **Wide temperature range** – Operates efficiently from -45°C to +10°C evaporating temperature
- ✓ **High starting torque** – HST design ensures reliable starts even under load

- ✓ **Energy efficient** – COP up to 1.88 at optimal conditions
- ✓ **Commercial grade** – Built for demanding [commercial refrigeration](#) applications

Installation Notes

- **Oil compatibility:** Uses polyolester (POE) oil – ensure system is clean and compatible
- **Starting components:** Requires appropriate starting capacitor and relay ([CSIR motor](#))
- **Refrigerant charge:** Maximum 1300g – follow manufacturer specifications
- **Electrical:** Ensure proper voltage supply (220-240V 50Hz single phase)
- **Cooling:** Requires adequate ventilation and fan cooling (F2 specification)
- **Professional installation:** Must be installed by certified refrigeration technicians

SEO Elements

Focus Keyphrase:

[SC18CLX.2](#) compressor [104L2197](#) Danfoss Secop R404A R507 LBP 220-240V 50Hz specifications replacement

SEO Title:

[SC18CLX.2](#) Compressor [104L2197](#) | Danfoss Secop R404A/R507 | Complete Specs & Replacements

Meta Description:

[SC18CLX.2](#) ([104L2197](#)) Danfoss/[Secop compressor](#) specs: 3/4 HP, R404A/R507, LBP, 220-240V 50Hz, 17.68cm³. Performance data, COP values, replacement guides & technical details. Made in Germany.

Slug:

sc18clx-2-compressor-[104L2197](#)-danfoss-secop-r404a-r507-specifications

Tags:

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Excerpt (First 55 Words)

The [SC18CLX.2 \(104L2197\)](#) is a professional-grade hermetic reciprocating compressor manufactured by Danfoss/Secop in Germany. Designed for commercial freezing applications, it operates with R404A/R507 refrigerants on 220-240V 50Hz power supply. With 17.68 cm³ displacement and [CSIR motor](#) technology, this [LBP compressor](#) delivers reliable performance.



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