ENGINEERING



Datasheets

Danfoss scroll compressors **H series**



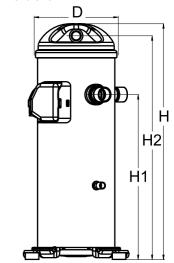


Danfoss scroll compressor, HCM094T4

General Characteristics

Model number (on compressor nameplate)		HCM094T4LC2
Code number for Singlepack*		120U0591
Code number for Industrial pack**		120U0588
Drawing number		0SR4103B-3
Suction and discharge connections		Brazed
Suction connection		1-1/8 " ODF
Discharge connection		7/8 " ODF
Oil sight glass		None
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume	126,02 cm3/rev	
Displacement @ Nominal speed	21.9 m3/h @ 2900 rpm - 26.5 m3/h @ 3500 rpm	
Net weight	44 kg	
Oil charge	2,66 litre, Alkylbenzene	
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)	
Maximum differential test pressure	- bar	
Maximum number of starts per hour		•
Refrigerant charge limit	7,26 kg	
Approved refrigerants	R22	

Dimensions



Electrical Characteristics

Electrical characteristics		
Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz	
Voltage range	342-457 V @ 50Hz - 414-506 V @ 60Hz	
Winding resistance between phases 1-2 +/- 7% at 25°C	1.480 Ω	
Winding resistance between phases 1-3 +/- 7% at 25°C	1.480 Ω	
Winding resistance between phases 2-3 +/- 7% at 25°C	1.480 Ω	
Rated Load Amps (RLA)	13.5 A	
Maximum Continuous Current (MCC)	21 A	
Locked Rotor Amps (LRA)	95 A	
Motor protection	Internal overload protector	

D=184 mm H=536 mm H1=369 mm H2=509 mm H3=- mm

Recommended Installation torques

Oil sight glass	52,5 Nm
Power connections / Earth connection	3 Nm / 2 Nm

Terminal box



Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

Approvals: CE certified, UL certified (file SA11565), -

- $\hbox{*Singlepack: Compressor in cardboard box}\\$
- **Industrial pack: 12 or 16 Unboxed compressors on pallet

IP22

- 1: Screw connectors 10-32 UNF x 9.5
- 2: Earth connection
- 3: Power cable passage



Danfoss scroll compressor, HCM094T4

Rotolock accessories, suction side	Code no.
Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

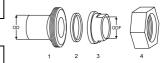
Rotolock accessories, discharge side Code no. Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF) 8168030 Gasket, 1-3/4" 8156132

Rotolock accessories, sets	Code no.
Solder sleeve adapter set (1-3/4" Rotolock, 1-1/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

Oil / lubricants	Code no.
Crankcase heaters	Code no.
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040

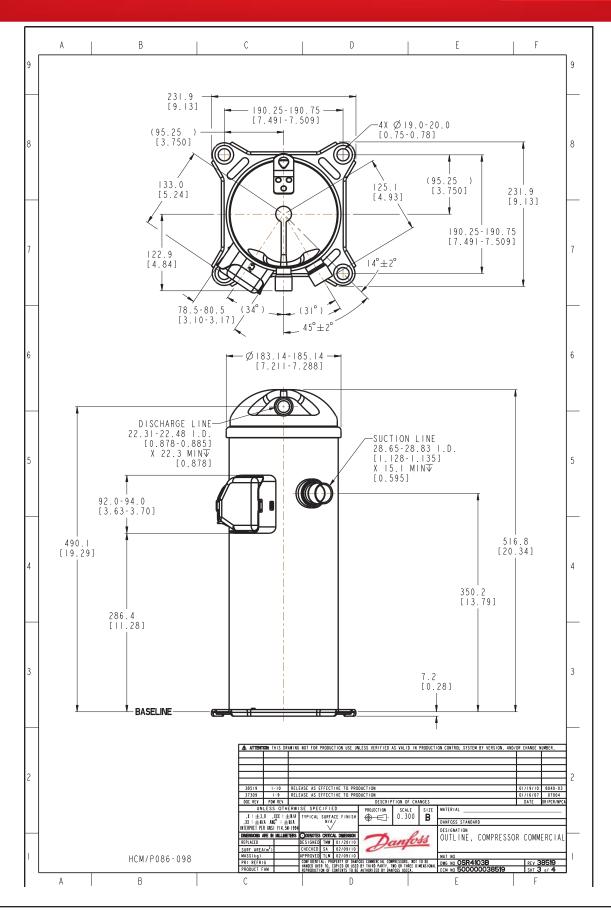
Miscellaneous accessories	Code no.
Acoustic hood	120Z5045
Discharge thermostat kit	7750009

Spare parts	Code no.
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Mounting kit, including 1 bolt, 1 sleeve, 1 washer	120Z5031



- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)





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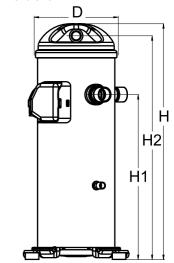


Danfoss scroll compressor, HCM094T4

General Characteristics

Model number (on compressor nameplate)		HCM094T4LC6	
Code number for Singlepack*		120U0581	
Code number for Industrial pack**		120U0578	
Drawing number		0SR4103B-3	
Suction and discharge connections		Brazed	
Suction connection		1-1/8 " ODF	
Discharge connection		7/8 " ODF	
Oil sight glass		None	
Oil equalisation connection		None	
Oil drain connection		None	
LP gauge port		None	
IPR valve		None	
Swept volume	126,02	cm3/rev	
Displacement @ Nominal speed	21.9 m3/h @ 2900 rpm - 26.5 m3/h @ 3500 rpm		
Net weight	44 kg		
Oil charge	2,66 litre, Alkylbenzene		
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)		
Maximum differential test pressure	- bar		
Maximum number of starts per hour		-	
Refrigerant charge limit	7,20	7,26 kg	
Approved refrigerants	R:	R22	

Dimensions



Electrical Characteristics

Electrical characteristics		
Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz	
Voltage range	342-457 V @ 50Hz - 414-506 V @ 60Hz	
Winding resistance between phases 1-2 +/- 7% at 25°C	1.480 Ω	
Winding resistance between phases 1-3 +/- 7% at 25°C	1.480 Ω	
Winding resistance between phases 2-3 +/- 7% at 25°C	1.480 Ω	
Rated Load Amps (RLA)	13.5 A	
Maximum Continuous Current (MCC)	21 A	
Locked Rotor Amps (LRA)	95 A	
Motor protection	Internal overload protector	

D=184 mm H=536 mm H1=369 mm H2=509 mm H3=- mm

Recommended Installation torques

Oil sight glass	52,5 Nm
Power connections / Earth connection	3 Nm / 2 Nm

Terminal box



Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

Approvals: CE certified, UL certified (file SA11565), -

- *Singlepack: Compressor in cardboard box
- **Industrial pack: 12 or 16 Unboxed compressors on pallet

IP22

- 1: Screw connectors 10-32 UNF x 9.5
- 2: Earth connection
- 3: Power cable passage



Danfoss scroll compressor, HCM094T4

Rotolock accessories, suction side	Code no.
Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

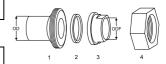
Rotolock accessories, discharge sideCode no.Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)8168030Gasket, 1-3/4"8156132

Rotolock accessories, sets	Code no.
Solder sleeve adapter set (1-3/4" Rotolock, 1-1/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

Oil / lubricants	Code no.
Crankcase heaters	Code no.
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040

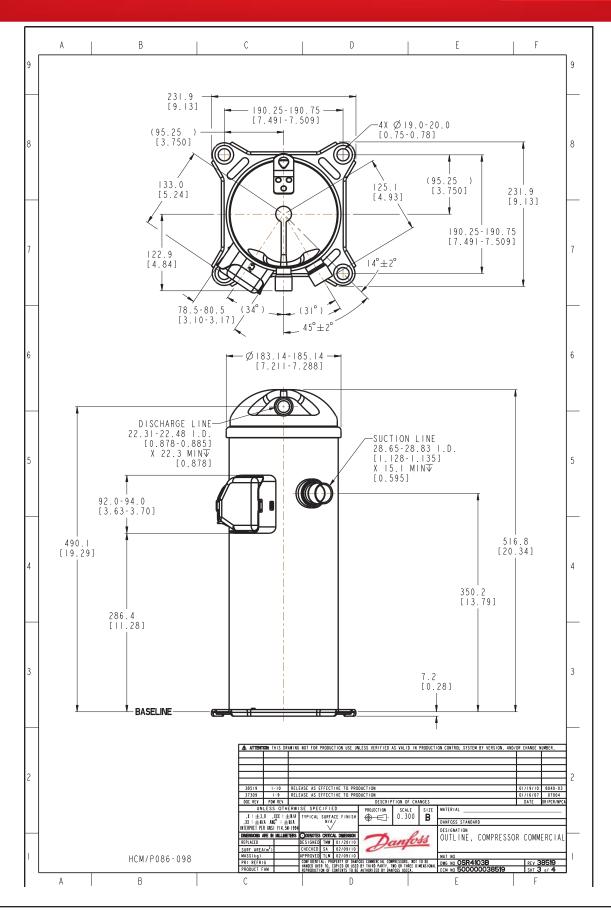
Miscellaneous accessories	Code no.
Acoustic hood	120Z5045
Discharge thermostat kit	7750009

Spare parts	Code no.
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Mounting kit, including 1 bolt, 1 sleeve, 1 washer	120Z5031



- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)





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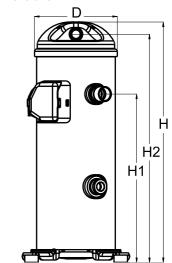


Danfoss scroll compressor, HCM094T4

General Characteristics

Model number (on compressor nameplate)		HCM094T4LC7
Code number for Singlepack*		120U0586
Code number for Industrial pack**		120U0583
Drawing number		0SR6169B-3
Suction and discharge connections		Brazed
Suction connection		1-1/8 " ODF
Discharge connection		7/8 " ODF
Oil sight glass		Threaded
Oil equalisation connection		None
Oil drain connection		None
LP gauge port		None
IPR valve		None
Swept volume	126,02 0	cm3/rev
Displacement @ Nominal speed	21.9 m3/h @ 2900 rpm	- 26.5 m3/h @ 3500 rpm
Net weight	44	kg
Oil charge	2,66 litre, Alk	ylbenzene
Maximum system test pressure Low Side / High side	- bar(g) ,	/ - bar(g)
Maximum differential test pressure	- b	oar
Maximum number of starts per hour		=
Refrigerant charge limit	7,26	5 kg
Approved refrigerants	R2	22

Dimensions



Electrical Characteristics

Electrical characteristics	
Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz
Voltage range	342-457 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	1.480 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.480 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.480 Ω
Rated Load Amps (RLA)	13.5 A
Maximum Continuous Current (MCC)	21 A
Locked Rotor Amps (LRA)	95 A
Motor protection	Internal overload protector

D=184 mm H=536 mm

H1=369 mm

H2=509 mm H3=- mm

Terminal box

Recommended Installation torques

Oil sight glass	52,5 Nm
Power connections / Earth connection	3 Nm / 2 Nm



Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions



1: Screw connectors 10-32 UNF x 9.5

2: Earth connection

3: Power cable passage

Approvals: CE certified, UL certified (file SA11565), -

*Singlepack: Compressor in cardboard box

**Industrial pack: 12 or 16 Unboxed compressors on pallet



Danfoss scroll compressor, HCM094T4

Rotolock accessories, suction side	Code no.
Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

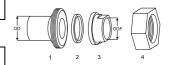
Rotolock accessories, discharge sideCode no.Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)8168030Gasket, 1-3/4"8156132

Rotolock accessories, sets	Code no.
Solder sleeve adapter set (1-3/4" Rotolock, 1-1/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

Oil / lubricants	Code no.
Crankcase heaters	Code no.
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040

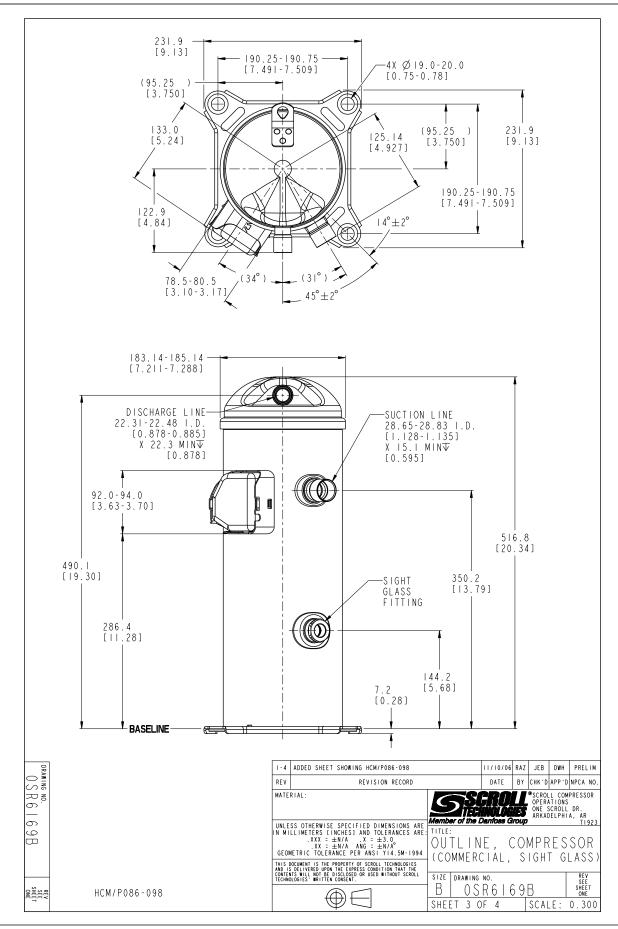
Miscellaneous accessories	Code no.
Acoustic hood	120Z5045
Discharge thermostat kit	7750009

Spare parts	Code no.
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 wa	ashers 120Z5005
Mounting kit, including 1 bolt, 1 sleeve, 1 washer	120Z5031



- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)





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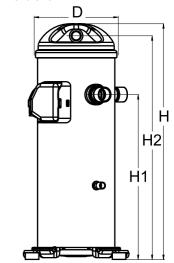


Danfoss scroll compressor, HCM094T4

General Characteristics

Model number (on compressor nameplate)		HCM094T4LC8	
Code number for Singlepack*		120U0596	
Code number for Industrial pack**		120U0593	
Drawing number		0SR4103B-3	
Suction and discharge connections		Brazed	
Suction connection		1-1/8 " ODF	
Discharge connection		7/8 " ODF	
Oil sight glass		None	
Oil equalisation connection		None	
Oil drain connection		None	
LP gauge port		None	
IPR valve		None	
Swept volume	126,02	cm3/rev	
Displacement @ Nominal speed	21.9 m3/h @ 2900 rpm	21.9 m3/h @ 2900 rpm - 26.5 m3/h @ 3500 rpm	
Net weight	44	44 kg	
Oil charge	2,66 litre, Alk	2,66 litre, Alkylbenzene	
Maximum system test pressure Low Side / High side	- bar(g)	- bar(g) / - bar(g)	
Maximum differential test pressure	- k	- bar	
Maximum number of starts per hour		-	
Refrigerant charge limit	7,26	7,26 kg	
Approved refrigerants	R:	R22	

Dimensions



Electrical Characteristics

Electrical characteristics	
Nominal voltage	380-415V/3/50Hz - 460V/3/60Hz
Voltage range	342-457 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance between phases 1-2 +/- 7% at 25°C	1.480 Ω
Winding resistance between phases 1-3 +/- 7% at 25°C	1.480 Ω
Winding resistance between phases 2-3 +/- 7% at 25°C	1.480 Ω
Rated Load Amps (RLA)	13.5 A
Maximum Continuous Current (MCC)	21 A
Locked Rotor Amps (LRA)	95 A
Motor protection	Internal overload protector

D=184 mm H=536 mm H1=369 mm H2=509 mm H3=- mm

Recommended Installation torques

Oil sight glass	52,5 Nm
Power connections / Earth connection	3 Nm / 2 Nm

Terminal box



Parts shipped with compressor

Mounting kit with grommets and sleeves
Initial oil charge
Installation instructions

Approvals: CE certified, UL certified (file SA11565), -

 $\hbox{*Singlepack: Compressor in cardboard box}\\$

**Industrial pack: 12 or 16 Unboxed compressors on pallet

IP22

1: Screw connectors 10-32 UNF x 9.5

2: Earth connection

3: Power cable passage



Danfoss scroll compressor, HCM094T4

Rotolock accessories, suction side	Code no.
Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

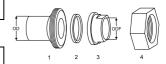
Rotolock accessories, discharge sideCode no.Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF)8168030Gasket, 1-3/4"8156132

Rotolock accessories, sets	Code no.
Solder sleeve adapter set (1-3/4" Rotolock, 1-1/8" ODF), (1-1/4" Rotolock, 7/8" ODF)	120Z0125
Valve set, V02(1"3/4~1"1/8), V05(1"1/4~7/8")	120Z0403
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

Oil / lubricants	Code no.
Crankcase heaters	Code no.
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	120Z0059
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	120Z0060
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040

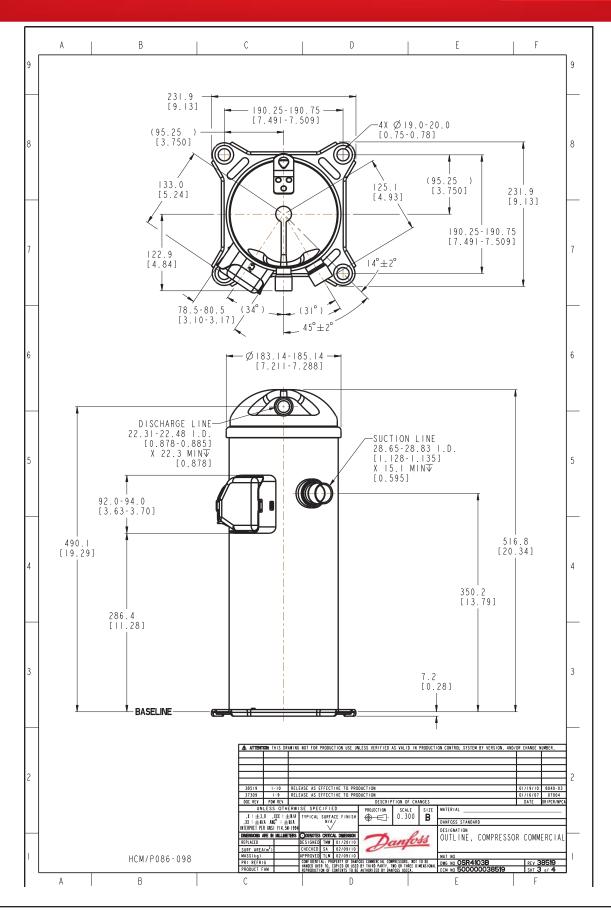
Miscellaneous accessories	Code no.
Acoustic hood	120Z5045
Discharge thermostat kit	7750009

Spare parts	Code no.
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005
Mounting kit, including 1 bolt, 1 sleeve, 1 washer	120Z5031



- 1: Rotolock adapter (Suc & Dis)
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)





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