ENGINEERING



Datasheets

Danfoss scroll compressors **H series**





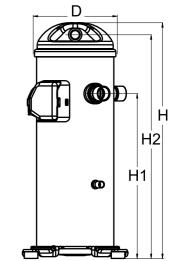
Datasheet, technical data

Danfoss scroll compressor, HLM072T4

General Characteristics

| Model number (on compressor nameplate) | HLM072T4LC6 |
|---|---|
| Code number for Singlepack* | 120U1751 |
| Code number for Industrial pack** | 120U1748 |
| Drawing number | 0XR6089B-1 |
| Suction and discharge connections | Brazed |
| Suction connection | 7/8 " ODF |
| Discharge connection | 1/2 " ODF |
| Oil sight glass | None |
| Oil equalisation connection | None |
| Oil drain connection | None |
| LP gauge port | None |
| IPR valve | Yes |
| Swept volume | 98,57 cm3/rev |
| Displacement @ Nominal speed | 17.1 m3/h @ 2900 rpm - 20.7 m3/h @ 3500 rpm |
| Net weight | 37,2 kg |
| Oil charge | 1,57 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 | 5,44 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 | 1.852 Ω |
| Winding resistance between phases 1-3 +/- 7% at 25°C | 1.827 Ω |
| Winding resistance between phases 2-3 +/- 7% at 25°C | 1.867 Ω |
| Rated Load Amps (RLA) | 9.6 A |
| Maximum Continuous Current (MCC) | 15 A |
| Locked Rotor Amps (LRA) | 82 A |
| Motor protection | Internal overload protector |

D=183,5 mm H=455 mm H1=280 mm H2=422 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



Datasheet, accessories and spare parts

Danfoss scroll compressor, HLM072T4

| Rotolock accessories, suction side | Code no. |
|---|----------|
| Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF) | 8168030 |
| Gasket, 1-1/4" | 8156131 |

 Rotolock accessories, discharge side
 Code no.

 Solder sleeve, P06 (1" Rotolock, 1/2" ODF)
 8153007

 Angle adapter, C06 (1" Rotolock, 1/2" ODF)
 8168007

 Rotolock valve, V06 (1" Rotolock, 1/2" ODF)
 8168031

 Gasket, 1"
 8156130

| Rotolock accessories, sets | Code no. |
|--|----------|
| Solder sleeve adapter set (1-1/4" Rotolock, 7/8" ODF), (1" Rotolock, 1/2" ODF) | 120Z0127 |
| Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white | 8156009 |

Solder sleeve adapter set



| 1: Rotolock ada | nter (Suc & Dis) |
|-----------------|------------------|
| 1. HOLOIOCK ada | pici (Suc & Dis) |

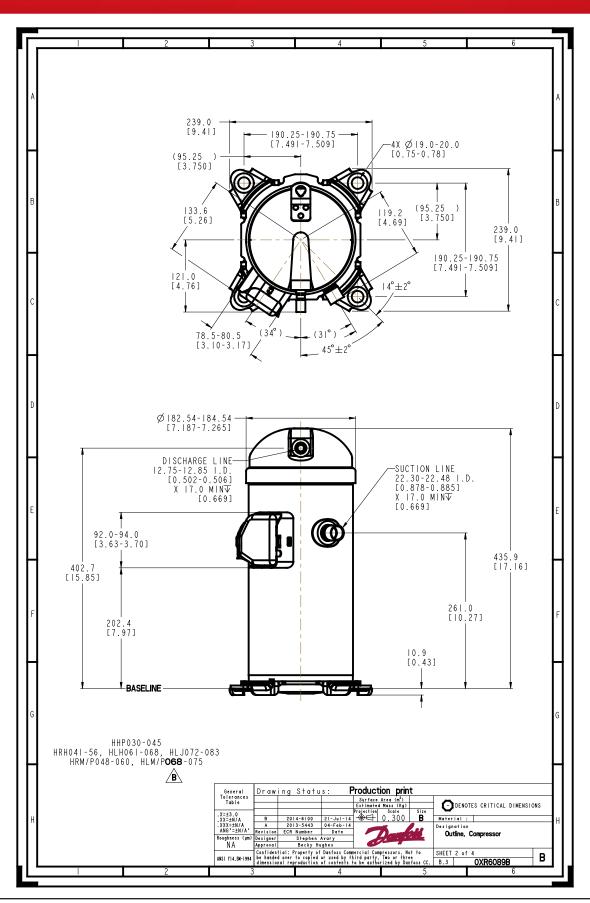
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

| Code no. |
|----------|
| Code no. |
| 120Z0057 |
| 120Z0058 |
| |

| Miscellaneous accessories | Code no. |
|---------------------------|----------|
| Acoustic hood | 120Z5044 |
| 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 |





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Datasheet, technical data

Danfoss scroll compressor, HLM072T4

General Characteristics

| Model number (on compressor nameplate) | HLM072T4LC8 |
|---|---|
| Code number for Singlepack* | 120U2067 |
| Code number for Industrial pack** | 120U2064 |
| Drawing number | 0XR6049B-2 |
| Suction and discharge connections | Brazed |
| Suction connection | 7/8 " ODF |
| Discharge connection | 1/2 " ODF |
| Oil sight glass | None |
| Oil equalisation connection | 1/2" |
| Oil drain connection | None |
| LP gauge port | None |
| IPR valve | Yes |
| Swept volume | 98,57 cm3/rev |
| Displacement @ Nominal speed | 17.1 m3/h @ 2900 rpm - 20.7 m3/h @ 3500 rpm |
| Net weight | 37,2 kg |
| Oil charge | 1,57 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 | 5,44 kg |
| Approved refrigerants | R22 |

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℃ | 1.852 Ω |
| Winding resistance between phases 1-3 +/- 7% at 25℃ | 1.827 Ω |
| Winding resistance between phases 2-3 +/- 7% at 25℃ | 1.867 Ω |
| Rated Load Amps (RLA) | 9.6 A |
| Maximum Continuous Current (MCC) | 15 A |
| Locked Rotor Amps (LRA) | 82 A |
| Motor protection | Internal overload protector |

Recommended Installation torques

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

Parts shipped with compressor

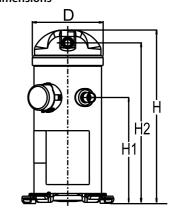
| 1 arts shipped with compressor | |
|--|--|
| Mounting kit with grommets and sleeves | |
| Initial oil charge | |
| Installation instructions | |

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

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

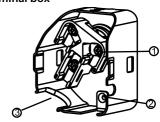
**Industrial pack: 12 or 16 Unboxed compressors on pallet

Dimensions



D=183,5 mm H=455 mm H1=280 mm H2=422 mm H3=- mm

Terminal box



IP22 1:

2:

3:

Screw connectors 10-32 UNF x 9.5

Earth connection

Power cable passage



Datasheet, accessories and spare parts

Danfoss scroll compressor, HLM072T4

| Rotolock accessories, suction side | Code no. |
|---|----------|
| Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF) | 8168030 |
| Gasket, 1-1/4" | 8156131 |

 Rotolock accessories, discharge side
 Code no.

 Solder sleeve, P06 (1" Rotolock, 1/2" ODF)
 8153007

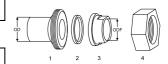
 Angle adapter, C06 (1" Rotolock, 1/2" ODF)
 8168007

 Rotolock valve, V06 (1" Rotolock, 1/2" ODF)
 8168031

 Gasket, 1"
 8156130

| Rotolock accessories, sets | Code no. |
|--|----------|
| Solder sleeve adapter set (1-1/4" Rotolock, 7/8" ODF), (1" Rotolock, 1/2" ODF) | 120Z0127 |
| Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white | 8156009 |

Solder sleeve adapter set



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|-----------------|-----------------|----|
| 1. HOLOIOCK dad | ptci (Suc a Dis | " |

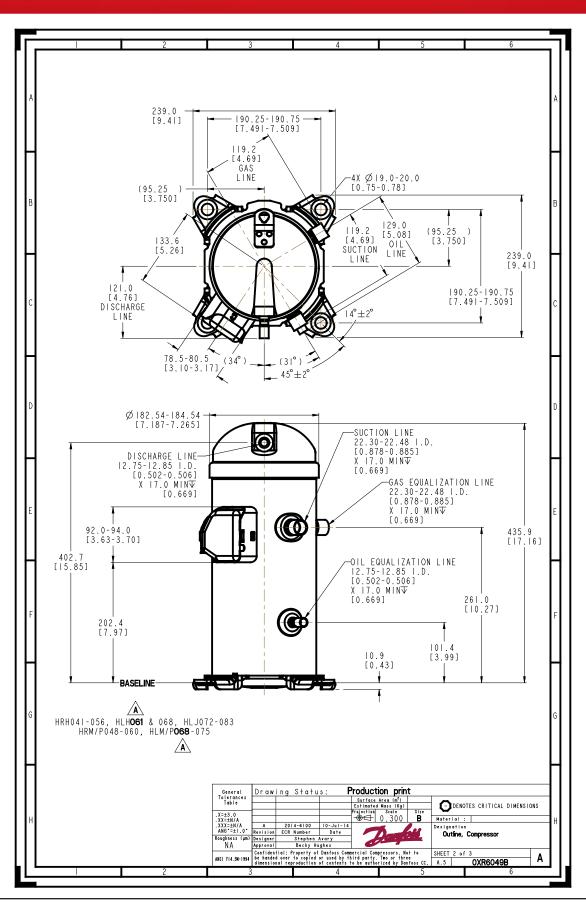
- 2: Gasket (Suc & Dis)
- 3: Solder sleeve (Suc & Dis)
- 4: Rotolock nut (Suc & Dis)

| Oil / lubricants | Code no. |
|--|----------|
| Crankcase heaters | Code no. |
| Belt type crankcase heater, 50 W, 230 V, CE mark, UL | 120Z0057 |
| Belt type crankcase heater, 50 W, 400 V, CE mark, UL | 120Z0058 |
| Self type dialinease fleatery so Wy 100 Vy e2 maily 02 | 1202000 |

| Miscellaneous accessories | Code no. |
|---------------------------|----------|
| Acoustic hood | 120Z5044 |
| 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 |





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