

**SZ161-4VAI****Scroll compressor, SZ161T4VC**

Refrigerant: R134a; R404A; R407C; R513A, Segment usage: Air conditioning,
Compressor power supply [V/Ph/Hz]: 400/3/50 460/3/60

PRODUCT DETAILS

| | |
|--|-------------------|
| Gross weight | 105 kg |
| Net weight | 89.2 kg |
| EAN | 5702428582773 |
| Approval standard | CE UL |
| Brand technique | Scroll compressor |
| Capacity control | Fixed speed |
| Colour | Blue |
| Compressor power supply [V/Ph/Hz] | 400/3/50 460/3/60 |
| Configuration code | Single |
| Connection type | Brazed |
| Description | SZ161-4 |
| Diameter [mm] | 266 mm |
| Discharge connection height [mm] | 556 mm |
| Discharge connection pipe size [in] | 7/8 in |
| Discharge connection size [in] | 7/8 in |
| Drawing number | 8551106b |
| Economizer | No |
| Factory HP [bar] | 33 bar |
| Factory LP [bar] | 25 bar |
| Fitting standard | ODF |
| Frequency [Hz] | 50/60 |
| Gauge port HP | None |
| Gauge port LP | Schrader |
| Generation code | C |
| Glass mounting | Threaded |
| Glass torque [Nm] | 50 Nm |
| GP LP torque [Nm] | 15 Nm |
| High side max pressure (Ps) | 34.3 bar |
| High Side TS Max | 150 °C |
| High Side TS Min | -35 °C |
| High Side Volume | 1.6 L |
| High value of nominal voltage at 50Hz [V] | 400 V |
| High value of nominal voltage at 60Hz [V] | 460 V |
| High value of voltage range at 50Hz [V] | 440 V |

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Product Detail | Scroll compressor, SZ161T4VC

PRODUCT DETAILS

| | |
|--|--|
| High value of voltage range at 60Hz [V] | 506 V |
| IP protection class | IP54 (with cable gland) |
| Low side max pressure (Ps) | 25 bar |
| Low Side TS Max | 54 °C |
| Low Side TS Min | -35 °C |
| Low Side Volume | 14.7 L |
| Low value of nominal voltage at 50Hz [V] | 380 V |
| Low value of nominal voltage at 60Hz [V] | 460 V |
| Low value of voltage range at 50Hz [V] | 342 V |
| Low value of voltage range at 60Hz [V] | 414 V |
| LRA | 145 A |
| Maximum Operating Current [MOC] | 31 A |
| MCC | 32 A |
| Model number | SZ161T4VC |
| Motor protection | Internal overload protector |
| Mounting torque [Nm] | 21 Nm |
| Nominal cooling capacity at 50Hz | 33.9 kW |
| Nominal cooling capacity at 60Hz | 46 kW |
| Nominal heating capacity at 50Hz | 32.3 kW |
| Number of starts per hour [Max] | 12 |
| Oil charge [L] | 3.6 L |
| Oil equalization | 3/8" flare SAE |
| Oil equalization torque [Nm] | 48 Nm |
| Oil reference | 160SZ |
| Oil type | POE |
| Packaging height [mm] | 671 mm |
| Packaging length [mm] | 470 mm |
| Packaging weight [Kg] | 671 kg |
| Packaging width [mm] | 370 mm |
| Packing format | Single pack |
| Packing quantity | 1 |
| Phase | 3 |
| Power connections | Screw 4.8 mm |
| Refrigerant | R134a R404A R407C R513A |
| Refrigerant charge [kg] [Max] | 12.5 kg |
| Relief valve | None |
| RLA | 22.9 A |
| Rotational speed at 50Hz [rpm] | 2900 rpm |
| Rotational speed at 60Hz [rpm] | 3500 rpm |
| Segment usage | Air conditioning |
| Shipped instructions | Installation instructions |
| Shipped mounting | Mounting kit with grommets, bolts, nuts, sleeves and washers |
| Shipped oil | Initial oil charge |

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Product Detail | Scroll compressor, SZ161T4VC
PRODUCT DETAILS

| | |
|---|-----------------------|
| Suction connection height [mm] | 180 mm |
| Suction connection pipe size [in] | 1 3/8 in |
| Suction connection size [in] | 1 3/8 in |
| Swept volume [cm³] | 216.6 cm ³ |
| Technology | Scroll |
| Test dif [bar] [Max] | 24 bar |
| Test HP [bar] [Max] | 32 bar |
| Test LP [bar] [Max] | 25 bar |
| Torque earth [Nm] | 2 Nm |
| Torque power [Nm] | 3 Nm |
| Total height [mm] | 591 mm |
| Type | SZ |
| Type designation | Compressor |
| Viscosity [cP] | 32 cP |
| Winding resistance for three-phase compressors with identical windings [Ohm] | 0.94 Ohm |

For Documents, Software, Visuals and more information, please use this link to visit the product page on Danfoss Product Store [🔗](#)

Accessories

7755017 [🔗](#)
Acoustic hood for scroll compressor S148-S161 (except code 3)

Acoustic hood for scroll compressor S148-S161 (except code 3)


7750009 [🔗](#)
Discharge thermostat kit

Discharge thermostat kit


8153003 [🔗](#)
Adaptor

Solder sleeve, P10 (1-3/4" rotolock, 1-3/8" ODF)


7765006 [🔗](#)
Adaptor

Solder sleeve adaptor set (1-3/4" rotolock, 1-3/8" ODF), (1-1/4" rotolock, 7/8" ODF)


8156138 [🔗](#)
Mounting kit

Mounting kit for one-scroll compressor, including 4 grommets, 4 sleeves, 4 bolts, 4 washers

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Accessories



8156132 [🔗](#)
Gasket, 1-3/4"
 Gasket, 1-3/4"



8156135 [🔗](#)
Service kit for terminal box 96 x 115 mm, including 1 cover, 1 clamp
 Service kit for terminal box 96 x 115 mm, including 1 cover, 1 clamp



8156013 [🔗](#)
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black and white
 Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black and white



8173230 [🔗](#)
T block connector 52 x 57 mm
 T block connector 52 x 57 mm

Spare Parts



8156019 [🔗](#)
Oil sight glass with gaskets (black and white)
 Oil sight glass with gaskets (black and white)



120Z0466 [🔗](#)
Belt type crankcase heater, 65 W, 460 V, CE mark, UL
 Belt type crankcase heater, 65 W, 460 V, CE mark, UL



120Z0381 [🔗](#)
Surface sump heater + bottom insulation, 48 W, 400 V, CE mark, UL
 Surface sump heater + bottom insulation, 48 W, 400 V, CE mark, UL



120Z0039 [🔗](#)
Belt type crankcase heater, 65 W, 400 V, CE mark, UL
 Belt type crankcase heater, 65 W, 400 V, CE mark, UL



8168030 [🔗](#)
Rotolock valve, V05 (1-1/4" rotolock, 7/8" ODF), Service kit
 VALVE SETS V05 1 1/4"-7/8"

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Spare Parts

**8156129** [🔗](#)**Gasket for oil sight glass (white teflon)**

Gasket for oil sight glass (white teflon)

**7703392** [🔗](#)**Valve set**

Packing format: Multi pack, Packing quantity: 6

**7773117** [🔗](#)**Belt type crankcase heater, 65 W, 400 V, CE mark, UL**

Belt type crankcase heater, 65 W, 400 V, CE mark, UL

**7773107** [🔗](#)**Belt type crankcase heater, 65 W, 230 V, CE mark, UL**

Belt type crankcase heater, 65 W, 230 V, CE mark, UL

**120Z0361** [🔗](#)**Surface sump heater + bottom insulation, 48 W, 24 V, CE mark, UL**

Surface sump heater + bottom insulation, 48 W, 24 V, CE mark, UL

**120Z0382** [🔗](#)**Surface sump heater + bottom insulation, 48 W, 460 V, CE mark, UL**

Surface sump heater + bottom insulation, 48 W, 460 V, CE mark, UL

**7754023** [🔗](#)**POE lubricant, 160SZ, 1-litre can**

POE lubricant, 160SZ, 1-litre can

**120Z0380** [🔗](#)**Surface sump heater + bottom insulation, 48 W, 230 V, CE mark, UL**

Surface sump heater + bottom insulation, 48 W, 230 V, CE mark, UL

**8168022** [🔗](#)**Rotolock valve, V10 (1-3/4" rotolock, 1-3/8" ODF), Service kit**

VALVE SETS V10 1 3/4"-1 3/8"

**7705007** [🔗](#)**MCI**

Electronic soft start kit, MCI 25 C

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