

MBSM.pro, Compressor, 13HP, Danfoss, Performer, Scroll Compressor, Sm160, Sm161t4vc, Refrigeration Chiller, 3 ph, 380 v, 38BB 055 – 240, 38bb-250 9e/k, 38BB 250, 250 = 250000 kBtu/hr, 30 Ton, r22, 19 Kg, suction 1-1/8"–2, refoulement 5/8"–2

Category: Archivation,compressor  
written by [www.mbsm.pro](http://www.mbsm.pro) | 19 April 2022

**Danfoss**  
MADE IN CHINA

Model no: **SM161T4VC**



Serial no: **GD2503110072**



M 380-400 V 3 ~ 50 Hz  
460 V 3 ~ 60 Hz  
LR 145 A MAX OPER. 31 A  
Thermally protected system  
P.E.D. LP side HP side  
Marking 25 bar 27.8 bar  
PS 63 °C 150 °C  
TS max -35 °C -35 °C  
TS min 17.6 L 20 L  
Volume 17.6 L 20 L  
Lubricant: MINERAL OIL 1600

CE C **UL** US EAC  
0062



2016 Refrigerant: R22 (UL rating) - R417A with 160SZ  
PROTECTED BY DOMESTIC AND FOREIGN PATENTS

**WARNING**

Installation and servicing shall be performed by trained personnel only. Failure to observe these safety warnings could result in serious injury or death.

**ELECTRIC SHOCK HAZARD:** Turn off power before servicing. Disconnect all conductors.

Press terminal cover to ground and properly bonded equipment prior to opening the compressor. Use the refrigerant unit's grounded system only.

**HIGH PRESSURE:** System contains refrigerant and oil under pressure. Service pressure from both the high and low side before servicing any safety device.

**FIRE HAZARD:** Use tubing cutter to remove refrigerant. Do not use torch or oil near torch fire.



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# Mbsm.pro, Danfoss, Compressor, SM160T4RC, SM-160, 13hp, 3ph, R22, 133500BTU

Category: compressor

written by www.mbsm.pro | 19 April 2022

SM160T4RC

## Basic Info.

Model NO.Sm160N.W.90kgTransport PackagePackage: Wooden Case/Pallet or as Your RequirementSpecificationSM series SM090TrademarkperformerOriginFranceHS Code8414301300Production Capacity50000 Sets/Year

## Product Description

SM-160 Performer Scroll compressor for R22

13HP Performer Scroll Compressor SM160

SPECIFICATIONS FOR SM160

Products Details	Models: SM160 Type	Hermetic	
Power	Phase	3	
Horse Power	HP	13	
Main performance parameters	Input Power	W	380-420/3/60
REFRIGRANT		R22	
SIZE		54.0/35.0	
Phyiscal parameters	Hight	MM	353
Weight	KG	90	
Q'ty / Pallet	PIECE	6	

Product Description

5.Techincal sheet as below:

50Hz

Data

Model	Nominal Cap.60HZ	Nominal cooling capacity	Power input	Cop	E.E.R.	Swept Volume	Displacement	Oil charge	N.W.
TR	W	Btu/h	KW	W/W	Btu/h/W	cm/rew	m/h	dm	kg
SM084	7	20400	69600	6.12	3.33	11.4	114.5	19.92	3.3 64
SM090	7.5	21800	74400	6.54	3.33	11.4	120.5	20.97	3.3 65
SM100	8	23100	79000	6.96	3.33	11.3	127.2	22.13	3.3 65
SM110	9	25900	88600	7.82	3.32	11.3	144.2	25.09	3.3 73
SM112	9.5	27600	94400	7.92	3.49	11.9	151.5	26.36	3.3 64
SM115	9.5	28000	95600	8.31	3.37	11.5	155	26.97	3.8 78
SM120	10	30100	102800	8.96	3.36	11.5	166.6	28.99	3.3 73

SM124	10	31200	106300	8.75	3.56	12.2	169.5	29.5	3.3	64
SM125	10	30100	102800	8.93	3.37	11.5	166.6	28.99	3.8	78
SM147	12	36000	123000	10.08	3.58	12.2	193.5	33.7	3.3	67
SM148	12	36100	123100	10.8	3.34	11.4	199	34.6	3.6	88
SM160	13	39100	133500	11.6	3.37	11.5	216.6	37.69	4	90
SM161	13	39000	133200	11.59	3.37	11.5	216.6	37.69	3.6	88
SM175	14	42000	143400	12.46	3.37	11.5	233	40.54	6.2	100

## Product details

**Gross weight** 102 kg

**Net weight** 90 kg

**EAN** 5702428980432

<b>Approval standard</b>	CE UL
<b>Brand technique</b>	After sale
<b>Capacity control</b>	Fixed speed
<b>Colour</b>	Blue
<b>Compressor power supply [V/Ph/Hz]</b>	400/3/50 460/3/60
<b>Configuration code</b>	Single
<b>Connection type</b>	Rotolock
<b>Description</b>	SM160-4
<b>Diameter [mm]</b>	266 mm
<b>Discharge connection height [mm]</b>	596 mm
<b>Discharge connection mounting torque [Nm]</b>	110 Nm
<b>Discharge connection pipe size [in]</b>	7/8 in
<b>Discharge connection rotolock size [in]</b>	1 3/4 in
<b>Discharge connection size [in]</b>	1 3/4 in
<b>Discharge connection sleeve pipe size [in]</b>	7/8 in
<b>Drawing number</b>	8551120b
<b>Economizer</b>	No
<b>Factory HP [bar]</b>	33 bar
<b>Factory LP [bar]</b>	25 bar
<b>Fitting remark</b>	(shipped with rotolock version only)
<b>Fitting sleeve</b>	ODF
<b>Fitting standard</b>	Rotolock
<b>Frequency [Hz]</b>	50/60
<b>Gauge port HP</b>	None
<b>Gauge port LP</b>	Schrader
<b>Generation code</b>	C
<b>Glass mounting</b>	Threaded
<b>Glass torque [Nm]</b>	50 Nm
<b>GP LP torque [Nm]</b>	15 Nm

High side max pressure (Ps)	30.2 bar
High Side TS Max	150 °C
High Side TS Min	-35 °C
High Side Volume	1.7 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
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	63 °C
Low Side TS Min	-35 °C
Low Side Volume	16.5 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	150 A
Maximum Operating Current [MOC]	29 A
MMT	29 A
Model number	SM160T4RC
Motor protection	Internal thermostat, ext. overload protector needed
Mounting torque [Nm]	21 Nm
Nominal cooling capacity 60 kBTU/h	163.14 kBTU/h
Nominal cooling capacity at 50Hz	35.3 kW
Nominal cooling capacity at 60Hz	47.8 kW
Number of starts per hour [Max]	12
Oil charge [L]	4 L
Oil drain	1/4" flare
Oil drain torque [Nm]	35 Nm
Oil equalization	3/8" flare SAE
Oil equalization torque [Nm]	48 Nm
Oil reference	160P
Oil type	Mineral
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	R22
Refrigerant charge [kg] [Max]	12.5 kg
Relief valve	None

Rotational speed at 50Hz [rpm]	2900 rpm
Rotational speed at 60Hz [rpm]	3500 rpm
Segment usage	Air conditioning
Shipped fittings	Suction and discharge solder sleeves, rotolock nuts and gaskets
Shipped instructions	Installation instructions
Shipped mounting	Mounting kit with grommets, bolts, nuts, sleeves and washers
Shipped oil	Initial oil charge
Suction connection height [mm]	180 mm
Suction connection mounting torque [Nm]	130 Nm
Suction connection pipe size [in]	1 3/8 in
Suction connection rotolock size [in]	2 1/4 in
Suction connection size [in]	2 1/4 in
Suction connection sleeve pipe size [in]	1 3/8 in
Swept volume [cm <sup>3</sup> ]	216.6 cm <sup>3</sup>
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 Ebox cover [Nm]	2.3 Nm
Torque power [Nm]	3 Nm
Total height [mm]	631 mm
Type	SM
Type designation	Compressor
Viscosity [cP]	32 cP
Winding resistance for three-phase compressors with identical windings [Ohm]	0.94 Ohm

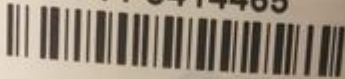
 **Performer**  
SCROLL COMPRESSOR

MODEL: SM160T4RC

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SERIAL: TC11 5414465



THERMALLY PROTECTED SYSTEM

SYSTEME DE PROTECTION THERMIQUE

460 V 3 ~ 60 Hz  
29 A Max

380-400 V 3 ~ 50 Hz  
LR 150 A



P.E.D.  
Marking  
L.P. side

Ps = 25 bar  
Ts max = 63 °C  
Ts min = -35 °C

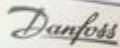


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LUBRICANT: MINERAL OIL 160P

**CAUTION** Use of hydrocarbons is not approved by the manufacturer  
**ATTENTION** L'utilisation d'hydrocarbures n'est pas autorisée par le fabricant

REFRIGERANT: R22



Danfoss Commercial  
Compressors

MADE IN FRANCE 8907

Manufactured under one or more of the following US or French patents  
and foreign counterparts thereto.  
US: 4840545, 4415317 French: 8906292, 8202323

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