ENGINEERING TOMORROW



Datasheets

Danfoss scroll compressors SM / SY / SZ / SH / WSH



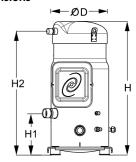




General Characteristics

Model number (on compressor nameplate)	SZ115S4RC	SZ115S4CC		
Code number for Singlepack*	SZ115-4RI	SZ115-4CAI		
Code number for Industrial pack**	SZ115-4RM	SZ115-4CAM		
Drawing number	8551121b	8551112b		
Suction and discharge connections	Rotolock	Brazed		
Suction connection	1-3/4 " Rotolock	1-3/8 " ODF		
Discharge connection	1-1/4 " Rotolock	7/8 " ODF		
Suction connection with supplied sleeve	1-1/8 " ODF			
Discharge connection with supplied sleeve	3/4 " ODF			
Oil sight glass	Threaded	Threaded		
Oil equalisation connection	3/8" flare SAE	3/8" flare SAE		
Oil drain connection	1/4" flare	1/4" flare		
LP gauge port	Schrader	Schrader		
IPR valve	None	None		
Swept volume	155 cr	m3/rev		
Displacement @ Nominal speed	27.0 m3/h @ 2900 rpm	- 32.5 m3/h @ 3500 rpm		
Net weight	78	kg		
Oil charge	3,8 litre, Po	OE - 160SZ		
Maximum system test pressure Low Side / High side	25 bar(g)	/ 32 bar(g)		
Maximum differential test pressure	24	bar		
Maximum number of starts per hour	1	2		
Refrigerant charge limit	11 kg			
Approved refrigerants	R407C, R134a,	R404A, R507A		

Dimensions



D=253 mm H=579 mm H1=180 mm H2=536 mm H3=- mm

Electrical Characteristics

Electrical characteristics	
Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-440 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25°C	1.16 Ω
Maximum Must Trip current (MMT)	25 A
Locked Rotor Amps (LRA)	120 A
Motor protection	Internal thermostat, ext. overload protector needed

Recommended Installation torques

Suction Rotolock nut or valve	110 Nm
Discharge Rotolock nut or valve	90 Nm
Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Terminal box cover screws	2,3 Nm
Mounting bolts	21 Nm

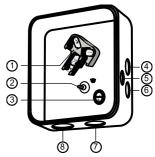
Parts shipped with compressor

Mounting kit with grommets, bolts, nuts, sleeves and washers
Initial oil charge
Installation instructions

Approvals: CE certified, UL certified (file SA6873), -

*Singlepack: Compressor in cardboard box

Terminal box



IP54 (with cable gland)

- 1: Power connection, 3 x 4.8 mm (3/16")
- 2: Earth M5
- 3: Thermostat connector
- 4: Knock-out Ø 22 mm (7/8") for 1/2" conduit
- 5: Knock-out Ø 16.5 mm (0.65")
- 6: Knock-out Ø 20.5 mm (0.81")
- 7: Double knock-out Ø 32.1 mm (1.26") & Ø 25.4 mm (1")
- 8: Double knock-out Ø 44 mm (1-3/4") for 1-1/4" conduit & Ø 34 mm (1-3/8") for 1" conduit

^{**}Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)



Datasheet, accessories and spare parts

Available for after sales service only, SZ115-4

Rotolock accessories, suction side	Code no.
Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Solder sleeve, P10 (1-3/4" Rotolock, 1-3/8" ODF)	8153003
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Rotolock valve, V10 (1-3/4" Rotolock, 1-3/8" ODF)	8168022
Gasket, 1-3/4"	8156132

Rotolock accessories, discharge side Code no. Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF) 8153008 Angle adapter, C04 (1-1/4" Rotolock, 3/4" ODF) 8168006 Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF) 8168029 Rotolock valve, V05 (1-1/4" Rotolock, 7/8" ODF) 8168030 Gasket, 1-1/4" 8156131

Rotolock accessories, sets Code no. Solder sleeve adapter set (1-3/4" Rotolock, 1-3/8" ODF), (1-1/4" Rotolock, 7/8" ODF) 7765006 Angle adapter set, C02 (1-3/4"~1-1/8"), C04 (1-1/4"~3/4") 7703014 Valve set, V02 (1-3/4"~1-1/8"), V04 (1-1/4"~3/4") 7703009 Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white 8156013

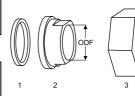
Oil / lubricants Code no. POE lubricant, 160SZ, 1 litre can 7754023 POE lubricant, 160SZ, 2.5 litre can 120Z0571

Crankcase heaters Code no. Surface sump heater + bottom insulation, 48 W, 24 V, CE mark, UL 120Z0363 Surface sump heater + bottom insulation, 48 W, 230 V, CE mark, UL 120Z0384 120Z0385 Surface sump heater + bottom insulation, 48 W, 400 V, CE mark, UL Surface sump heater + bottom insulation, 48 W, 460 V, CE mark, UL 120Z0386 Belt type crankcase heater, 65 W, 460 V, CE mark, UL 120Z0466 Belt type crankcase heater, 65 W, 230 V, CE mark, UL 7773107 Belt type crankcase heater, 65 W, 400 V, CE mark, UL 7773117 Belt type crankcase heater, 65 W, 400 V, CE mark, UL 120Z0039

Miscellaneous accessoriesCode no.Electronic soft start kit, MCI 25 C7705007Soft start kit with statoric resistors, prewired box, SCR037705001Acoustic hood for scroll compressor S115-S1257755009Bottom insulation for scroll compressor120Z0357Discharge thermostat kit7750009

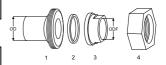
Spare parts	Code no.
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	8156138
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers,	8156146
2 rotolock nuts, 2 solder sleeves, 2 gaskets	
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (white teflon)	8156129
Terminal box 186 x 198 mm, incl cover	8156139
T block connector 60 x 75 mm	8173021

Gaskets, sleeves and nuts



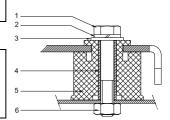
- 1: Gasket
 2: Solder sleeve
- 3: Rotolock nut

Solder sleeve adapter set



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

Mounting kit



1: Bolt (4x)
2: Lock washer (4x)
3: Flat washer (4x)
4: Sleeve (4x)
5: Grommet (4x)

6: Nut (4x)



Available for after sales service only. SZ115-4

Performance data at 50 Hz, EN 12900 rating conditions

R407C

Cond. temp. in	Evaporating temperature in °C (to)								
°C (tc)	-20	-15	-10	-5	0	5	10	15	
	_				_				
Cooling capacit	y in W	1		1	1	ı	1	1	
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	1	-	-	-	-	-	-	-	-
Power input in \		1		ı	ı	1	1	1	
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
urrent consun	nption in A	_	_	_	_	_	_	_	_
30		1					+	1	
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Mass flow in kg	/h								
30	-	_	_	-	-	_	-	_	_
35	_	-	-	-	_	_	-	-	_
40			-		-		_		_
45	-	-	-	-	-	-	-	-	-
							_		
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
coefficient of p	erformance (C.C	O.P.)							
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	_	-	_	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	_	_
	-	-	_	-	-	-	_	_	_
60		_	_		_				
60 65	-	-	_	-	-	-	-	-	_

Cooling capacity	-	W	
Power input	-	W	
Current consumption	-	Α	
Mass flow	-	kg/h	
C.O.P.	-		

to: Evaporating temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	dB(A)
With accoustic hood	69	dB(A)

All performance data +/- 5%

tc: Condensing temperature at dew point



Available for after sales service only. SZ115-4

Performance data at 50 Hz, ARI rating conditions

R407C

Cond. temp. in Evaporating temperature in °C (to)									
°C (tc)	-20	-15	-10	-5	0	5	10	15	
•									
Cooling capacity	in W								
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
			•		•	•	•	•	
Power input in W	,								
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	_	_	-	_	_	-
60	-	-	-	-	_	_	-	-	-
65	-	_	-	-	_	_	-	_	-
		I.	I	1	I	1	I	1	
Current consum	ntion in A								
30	-	-	-	_	_	-	-	_	-
35	_	-	-	-	_	-	-	-	_
40	_	-	-	-	_	-	_	-	_
45		-	-	-	_	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55		1		-	-	-	-	-	
	-	-	-						-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Mana flam in lan/h	_								
Mass flow in kg/h			I	1	I	T	I	ı	I
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
coefficient of per	rformance (C.O).P.)	1	1	1	1	1	1	1
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
ominal perform	ance at to = 7.2	2 °C, tc = 54.4 °C			_	Pressure switch	settings		
			147					00 =	

pooaoo at to	,	-	
Cooling capacity	-	W	
Power input	-	W	
Current consumption	-	Α	
Mass flow	-	kg/h	
C.O.P.	-		

to: Evaporating temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	dB(A)
With accoustic hood	69	dB(A)

All performance data +/- 5%

tc: Condensing temperature at dew point



Available for after sales service only. SZ115-4

Performance data at 50 Hz, EN 12900 rating conditions

R134a

Cond. temp. in Evaporating temperature in °C (to)									
°C (tc)	-15	-10	-5	0	5	10	15		
•		•		•	•	•	•	•	
Cooling capacity	/ in W								
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	=	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
1		•			•	1			
Power input in W	v								
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	_	-	-	-	-	-	-
50	-	-	-	_	_	_	_	-	_
55	-	-	-	-	-	-	-	-	-
60	_	-	_	_	_	-	_	-	_
65	_	-	-	-	_	-	-	-	_
70	_	-	_	_	_	_	_	_	_
7.0		1	I	1	1	I	1	1	
Current consum	ntion in A								
35	-	_	_	_	_	_	_	-	_
40	_	_	_	_	_	_	_	_	_
45	-	-	-	-	-	-	-	-	
-							i e		
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
Mass flow in kg/l		1	1	1	1		1	1	
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
Coefficient of pe	rformance (C.0	D.P.)							
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	_	-	-	-	-	-	-	-	-
65	_	-	_	-	-	_	-	-	-
70		-	_	-	_	-	-	-	
70	-			<u> </u>	<u> </u>		<u> </u>	-	-
Iominal perform	nance at to = 5	°C tc = 50 °C				Pressure switch	settings		
Cooling capacity		-	W			Maximum HP sw		20.5	bar(g)
Power input		-	W			Minimum LP swit		0.5	bar(g)

Cooling capacity	-	W	
Power input	-	W	
Current consumption	-	Α	
Mass flow	-	kg/h	
C.O.P.	-		

to: Evaporating temperature at dew point

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

All performance data +/- 5%

tc: Condensing temperature at dew point $% \left(1\right) =\left(1\right) \left(1\right)$

Rating conditions : Superheat = 10 K , Subcooling = 0 K



Available for after sales service only. SZ115-4

Performance data at 50 Hz, ARI rating conditions

R134a

Cond. temp. in Evaporating temperature in °C (to)									
°C (tc)	-15	-10	-5	0	5	10	15		
cooling capacity	in W								
35	-	-	-	-	-	-	_	_	_
40	-	-	-	-	-	-	-	<u> </u>	-
45	-	-	-	-	-	-	-	-	-
50		-		-	-			-	
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
Power input in W	,								
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	=	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
		•		•		•			
35	otion in A	_	1 -	_	_	_	_	_	_
40	_	-	_	-	_	_	_	_	_
45	_	-	-	-	_	-	_	-	_
50	-	-	-	-	_	-	-		-
55	-	-	-	-	-	-	-	<u>-</u>	-
60		-	-	-	-	-	-	-	-
65		-	-	-	_	-	-		_
70	-	-	-	-	-	-	-	-	-
70	<u> </u>	_	<u> </u>				<u> </u>	<u> </u>	
Mass flow in kg/h	1	1					,		
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
Coefficient of per	formance (C.O).P.)							
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	_	_	-	-	_	_	-	-
50	-	-	_	-	-	_	_	-	-
55	-	-	-	_	-	-	_	-	_
60	-	-	-	-	-	-	-	-	-
65		-	-	-	-	-	-	-	-
70		-	-	-	_	-	-		_
	-	1 -	1 -	1 -			1	-	1 -

monimum portormanoo at to	0,	U-1	
Cooling capacity		-	W
Power input		-	W
Current consumption		-	Α
Mass flow		-	kg/h
C.O.P.		-	

to: Evaporating temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

	Maximum HP switch setting	20.5	bar(g)
	Minimum LP switch setting	0.5	bar(g)
l	LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

All performance data +/- 5%

tc: Condensing temperature at dew point



Available for after sales service only. SZ115-4

Performance data at 50 Hz, EN 12900 rating conditions

R134a

Cond. temp. in Evaporating temperature in °C (to)									
°C (tc)	-15	-10	-5	0	5	10	15		
•		•		•	•	•	•	•	
Cooling capacity	/ in W								
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	=	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
1		•			•	1			
Power input in W	v								
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	_	-	-	-	-	-	-
50	-	-	-	_	_	_	_	-	_
55	-	-	-	-	-	-	-	-	-
60	_	-	_	_	_	-	_	-	_
65	_	-	-	-	_	-	-	-	_
70	_	-	_	_	_	_	_	_	_
7.0		1	I	1	1	I	1	1	
Current consum	ntion in A								
35	-	_	_	_	_	_	_	-	_
40	_	_	_	_	_	_	_	_	_
45	-	-	-	-	-	-	-	-	
-							i e		
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
Mass flow in kg/l		1	1	1	1		1	1	
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
Coefficient of pe	rformance (C.0	D.P.)							
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	_	-	-	-	-	-	-	-	-
65	_	-	_	-	-	_	-	-	-
70		-	_	-	_	-	-	-	
70	-			<u> </u>	<u> </u>		<u> </u>	-	-
Iominal perform	nance at to = 5	°C tc = 50 °C				Pressure switch	settings		
Cooling capacity		-	W			Maximum HP sw		20.5	bar(g)
Power input		-	W			Minimum LP swit		0.5	bar(g)

Cooling capacity	-	W	
Power input	-	W	
Current consumption	-	Α	
Mass flow	-	kg/h	
C.O.P.	-		

to: Evaporating temperature at dew point

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

All performance data +/- 5%

tc: Condensing temperature at dew point $% \left(1\right) =\left(1\right) \left(1\right)$

Rating conditions : Superheat = 10 K , Subcooling = 0 K



Available for after sales service only. SZ115-4

Performance data at 50 Hz, ARI rating conditions

R134a

Cond. temp. in Evaporating temperature in °C (to)									
°C (tc)	-15	-10	-5	0	5	10	15		
cooling capacity	in W								
35	-	-	-	-	-	-	_	_	_
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50		-		-	-			-	
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
Power input in W	,								
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	=	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
		•		•		•			
35	otion in A	_	1 -	_	_	_	_	_	_
40	_	-	_	-	_	_	_	_	_
45	_	-	-	-	_	-	_	-	_
50	-	-	-	-	_	-	-		-
55	-	-	-	-	-	-	-	<u>-</u>	-
60		-	-	-	-	-	-	-	-
65		-	-	-	_	-	-		_
70	-	-	-	-	-	-	-	-	-
70	<u> </u>	_	<u> </u>				<u> </u>	<u> </u>	
Mass flow in kg/h	1	1					,		
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
Coefficient of per	formance (C.O).P.)							
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	_	_	-	-	_	_	-	-
50	-	-	_	-	-	_	_	-	-
55	-	-	-	_	-	-	_	-	_
60	-	-	-	-	-	-	-	-	-
65		-	-	-	-	-	-	-	-
70		-	-	-	_	-	-		_
	-	1 -	1 -	1 -			1	-	1 -

monimum portormanoo at to	0,	U-1	
Cooling capacity		-	W
Power input		-	W
Current consumption		-	Α
Mass flow		-	kg/h
C.O.P.		-	

to: Evaporating temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

	Maximum HP switch setting	20.5	bar(g)
	Minimum LP switch setting	0.5	bar(g)
l	LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

All performance data +/- 5%

tc: Condensing temperature at dew point



Available for after sales service only. SZ115-4

Performance data at 50 Hz, EN 12900 rating conditions

R407C

Cond. temp. in	Evaporating temperature in °C (to)								
°C (tc)	-20	-15	-10	-5	0	5	10	15	
	_				_				
Cooling capacit	y in W	1		1	1	ı	1	1	
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	1	-	-	-	-	-	-	-	-
Power input in \		1		ı	ı	1	1	1	
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
urrent consun	nption in A	_	_	_	_	_	_	_	_
30		1					+	1	
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Mass flow in kg	/h								
30	-	_	_	-	-	_	-	_	_
35	_	-	-	-	_	_	-	-	_
40			-		-		_		_
45	-	-	-	-	-	-	-	-	-
							_		
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
coefficient of p	erformance (C.C	O.P.)							
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	_	-	_	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	_	_
	-	-	_	-	-	-	_	_	_
60		_	_		_				
60 65	-	-	_	-	-	-	-	-	_

Cooling capacity	-	W	
Power input	-	W	
Current consumption	-	Α	
Mass flow	-	kg/h	
C.O.P.	-		

to: Evaporating temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	dB(A)
With accoustic hood	69	dB(A)

All performance data +/- 5%

tc: Condensing temperature at dew point



Available for after sales service only. SZ115-4

Performance data at 50 Hz, ARI rating conditions

R407C

Cond. temp. in Evaporating temperature in °C (to)									
°C (tc)	-20	-15	-10	-5	0	5	10	15	
•									
Cooling capacity	in W								
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
			•		•	•	•	•	
Power input in W	,								
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	_	_	-	_	_	-
60	-	-	-	-	_	_	-	-	-
65	-	_	-	-	_	_	-	_	-
		I.	I	1	I	1	I	1	
Current consum	ntion in A								
30	-	-	-	_	_	_	-	_	-
35	_	-	-	-	_	-	-	-	_
40	_	-	-	-	_	-	_	-	_
45		-	-	-	_	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55		1		-	-	-	-	-	
	-	-	-						-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Mana flam in lan/h	_								
Mass flow in kg/h			I	1	I	T	I	ı	I
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
coefficient of per	rformance (C.O).P.)	1	1	1	1	1	1	1
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
ominal perform	ance at to = 7.2	2 °C, tc = 54.4 °C			_	Pressure switch	settings		
			147					00 =	

pooaoo at to	,	-	
Cooling capacity	-	W	
Power input	-	W	
Current consumption	-	Α	
Mass flow	-	kg/h	
C.O.P.	-		

to: Evaporating temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	77	dB(A)
With accoustic hood	69	dB(A)

All performance data +/- 5%

tc: Condensing temperature at dew point



Available for after sales service only. SZ115-4

Performance data at 60 Hz, EN 12900 rating conditions

R407C

°C (tc) Cooling capacity in 30 35 40 45	-20 1 W	-15	-10	-5	0	5	10	15	
30 35 40						•			
30 35 40									
35 40	-								
40		-	-	-	ı	-	-	•	-
	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
50	-	-	-	-	=	-	-	-	-
55	-	-	-	-	=	-	-	-	-
60	-	-	-	-	=	-	-	-	-
65	-	-	-	-	-	-	-	-	-
				•			•		
Power input in W									
30	-	-	-	-	-	_	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	_	-	-	-
45	-	_	-	-	-	_	-	-	_
50	-	-	-	-	-	_	-	-	-
55	_	-	-	-	-	-	-	-	_
60	-	-	_	_	-	-	_	-	_
65	_	<u> </u>	-	-	_	_	-	-	_
- 00				I		1	I		
Current consumpti	ion in A								
30	-	_	-	-	-	-	-	-	_
35	_	-	-	-	-	_	-	-	_
40	_	<u>-</u>	-	-	-	-	-	-	_
45	_	-	-	-	-		-	-	_
50	-		-	-	-	-	-	-	_
55				-	-	-	-	-	
	-	-	-			+			-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Mana flam in Ira/h									
Mass flow in kg/h			I	I		1	I		
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Coefficient of perfo			Т	Т		Т	Т		
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-

tronnia porto manos at to c, to			
Cooling capacity	-	W	
Power input	-	W	
Current consumption	-	Α	
Mass flow	-	kg/h	
C.O.P.	-		

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	81	dB(A)
With accoustic hood	73	dB(A)

All performance data +/- 5%



Available for after sales service only. SZ115-4

Performance data at 60 Hz, ARI rating conditions

R407C

Cond. temp. in	emp. in Evaporating temperature in °C (to)								
°C (tc)	-20	-15	-10	-5	0	5	10	15	
		•			•				
Cooling capacity	in W	1		1	ı	1	I	1	
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Power input in W		T	T	T	Т	1	Т	T	
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Current consum	ntion in A								
1	Puon III A	-	_		_	-	-	_	_
30				-		+			
35	-	-	-	-	-	-	-	-	-
40	-	-	-		-	-	-		-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Mass flow in kg/h	h								
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
0									
Coefficient of per			F	1		1	Ī	1	
30	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
Nominal perform	ance at to = 7.2	2 °C, tc = 54.4 °C				Pressure switch :	settings		

	-,	
Cooling capacity	-	W
Power input	-	W
Current consumption	-	Α
Mass flow	-	kg/h
C.O.P.	-	

to: Evaporating temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	81	dB(A)
With accoustic hood	73	dB(A)

All performance data +/- 5%

tc: Condensing temperature at dew point



Available for after sales service only. SZ115-4

Performance data at 60 Hz, EN 12900 rating conditions

R134a

Cond. temp. in				Evapora	ting temperature	e in °C (to)			
°C (tc)	-15	-10	-5	0	5	10	15		
I.	-	1	-		-		1	L	
Cooling capacity	in W								
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	_
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
<u> </u>				· •	•	1		· ·	
Power input in W	,								
35	-	-	-	-	_	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	_	-	_	-	-	-	_	-
50	-	_	_	-	_	-	-	_	_
55	_	_	-	_	_	-	_	-	_
60	_	_	_	_	_	_	-	-	_
65	_	_	-	_	_	-	_	-	_
70	_	_	-	-	-	-	_	-	
70	_		_			_		_	
Current consump	ntion in A								
35	-	-	_	-	_	-	-	-	_
40	_	-	-	-	_	-	-	-	_
45	-	-	-	-	-	-	-	-	-
50		_	-		_	-	-	-	
			-			-	-	-	
55 60	-	-	-	-	-	-	-	-	-
65 70	-	-	-	-	-	-	-	-	-
70		-	-	-	-	-	-	-	-
Mass flow in kg/h									
		1							
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
Coefficient of per			1	1	1		 	Т	
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
Nominal perform	ance at to = 5 °					Pressure switch	settings		
Cooling capacity		-	W	1		Maximum HP swi	tch setting	20.5	bar(g)

to: Evaporating temperature at dew point

Power input Current consumption Mass flow

C.O.P.

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)	
With accoustic hood	0	dB(A)	

All performance data +/- 5%

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W

kg/h



Available for after sales service only. SZ115-4

Performance data at 60 Hz, ARI rating conditions

R134a

Cond. temp. in	Evaporating temperature in °C (to)								
°C (tc)	-15	-10	-5	0	5	10	15		
oling capacity i		1				1	ı ı		1
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
ower input in W									
35	_	-	_	-	_	_	_	-	_
40	_	_	_	-	_	_	_	-	_
45	-	_	-	-	_	_	_	-	_
50	_	_	-	-	_	_	_	-	_
55	_	-	-	-	_	_	_	-	_
60	_	-	_	-	_	_	_	-	_
65	_	-	_	-	_	_	_	-	_
70	_	_	-	-	_	_	_	-	_
70		1	l			1	I I		I
rrent consump	tion in A	Т	T				T T		T
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
ass flow in kg/h									
35	_	_	_	_	_	<u> </u>	_	_	_
40	_	_	-	-	_	-	_	<u>-</u>	_
45	_	-	-	_	-	_	_	_	_
50	-	-	-	-	-	-	-	-	_
55	-	_	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	<u> </u>	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	_	<u>-</u>	_
70	<u>-</u>		1		<u>-</u>		<u> </u>		
efficient of perf			1			1	· · · · · · · · · · · · · · · · · · ·		T
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
minal performa	nce at to = 7.2	2 °C, tc = 54.4 °C		_		Pressure switch	settings		

Cooling capacity	-	W	
Power input	-	W	
Current consumption	-	Α	
Mass flow	-	kg/h	
C.O.P.	-		

to: Evaporating temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

All performance data +/- 5%

tc: Condensing temperature at dew point



Available for after sales service only. SZ115-4

Performance data at 60 Hz, EN 12900 rating conditions

R134a

Cond. temp. in				Evapora	ting temperature	e in °C (to)			
°C (tc)	-15	-10	-5	0	5	10	15		
I.	-	1	-		-		1	L	
Cooling capacity	in W								
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	_
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
<u> </u>				· •	•	1		· ·	
Power input in W	,								
35	-	-	-	-	_	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	_	-	-	-	_	-
50	-	_	_	-	_	-	-	_	_
55	_	_	-	_	_	-	_	-	_
60	_	_	_	_	_	_	-	-	_
65	_	_	-	_	_	-	_	-	_
70	_	_	-	-	-	-	_	-	
70	_		_			_		_	
Current consump	ntion in A								
35	-	-	_	-	_	-	-	-	_
40	_	-	-	-	_	-	-	-	_
45	-	-	-	-	-	-	-	-	-
50		_	-		_	-	-	-	
			-			-	-	-	
55 60	-	-	-	-	-	-	-	-	-
65 70	-	-	-	-	-	-	-	-	-
70		-	-	-	-	-	-	-	-
Mass flow in kg/h									
		1							
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
Coefficient of per			1	1	1		 	Т	
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
Nominal perform	ance at to = 5 °					Pressure switch	settings		
Cooling capacity		-	W	1		Maximum HP swi	tch setting	20.5	bar(g)

to: Evaporating temperature at dew point

Power input Current consumption Mass flow

C.O.P.

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)	
With accoustic hood	0	dB(A)	

All performance data +/- 5%

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W

kg/h



Available for after sales service only. SZ115-4

Performance data at 60 Hz, ARI rating conditions

R134a

Cond. temp. in	Evaporating temperature in °C (to)								
°C (tc)	-15	-10	-5	0	5	10	15		
oling capacity i		1				1	ı ı		1
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
ower input in W									
35	_	-	_	-	_	_	_	-	_
40	_	_	_	-	_	_	_	-	_
45	_	_	-	-	_	_	_	-	_
50	_	_	-	-	_	_	_	-	_
55	_	-	-	-	_	_	_	-	_
60	_	-	_	-	_	_	_	-	_
65	_	-	_	-	_	_	_	-	_
70	_	-	-	-	_	_	_	-	_
70		1	l			1	I I		I
rrent consump	tion in A	Т	T				T T		T
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
ass flow in kg/h									
35	_	_	_	_	_	<u> </u>	_	_	_
40	_	_	-	-	_	-	_	<u>-</u>	_
45	_	-	-	_	-	_	_	_	_
50	-	-	-	-	-	-	-	-	_
55	-	_	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	<u> </u>	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	_	<u>-</u>	_
70	<u>-</u>		1		<u>-</u>		<u> </u>		
efficient of perf			1			1	· · · · · · · · · · · · · · · · · · ·		T
35	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-
minal performa	nce at to = 7.2	2 °C, tc = 54.4 °C		_		Pressure switch	settings		

Cooling capacity	-	W	
Power input	-	W	
Current consumption	-	Α	
Mass flow	-	kg/h	
C.O.P.	-		

to: Evaporating temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Maximum HP switch setting	20.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.5	bar(g)

Sound power data

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

All performance data +/- 5%

tc: Condensing temperature at dew point



Available for after sales service only. SZ115-4

Performance data at 60 Hz, EN 12900 rating conditions

R407C

°C (tc) -20 Cooling capacity in W 30 - 35 - - 40 - - 45 - - 50 - - 60 - - 65 - - Power input in W 30 - - 40 - - 45 - - 50 - - 65 - - Current consumption in A 30 - 30 - - 40 - - 45 - - 50 - - 55 - - 60 - - 65 - - **Coefficient of performance** **Coefficient of performance** **Coefficient of performance** **Coefficient of performance** **Total Policy in the performance** **Coefficient of performance** **Total Policy in the performance** **Total Policy in the performance** **Total Policy in the performance** **Total Poli	-15 -15 -15 -17 -17 -17 -17 -17 -17 -17 -17 -17 -17	-10 -10 -10 -10 -10 -10 -10 -10 -10 -10	-5		5			
30		- - - - - - - -	- - - - - - -	-	-			- - - - -
30		- - - - - - - -	- - - - - - -	-	-			- - - - -
35 - 40 - 45 - 50 - 60 - 65 - Power input in W 30 - 35 - 40 - 55 - 60 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 - Mass flow in kg/h 30 - 35 - 40 - 65 - Mass flow in kg/n 30 - 55 - 60 - 65 - Mass flow in kg/n 30 - 55 - 60 - 65 - Mass flow in kg/n 30 - 55 - 60 - 65 - 60 - 65 -		- - - - - - - -	- - - - - - -	-	-			- - - - -
40 - 45 - 50 - 55 - 60 - 65 - Power input in W 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 - Mass flow in kg/h 30 - 35 - 40 - 65 - Mass flow in kg/h 30 - 55 - 60 - 65 -		- - - - - - -	- - - - - -	-	-			
45 - 50 - 55 - 60 - 65 - Power input in W 30 - 35 - 40 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 65 - Mass flow in kg/n 30 - 35 - 60 - 65 - Mass flow in kg/n 30 - 55 - 60 - 65 -		- - - - - - -	- - - - -	-	-		-	
50 - 55 - 60 - 65 - Power input in W 30 - 35 - 40 - 55 - 60 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 65 - Wass flow in kg/h 30 - 35 - 40 - 65 - Mass flow in kg/h 30 - 55 - 60 - 65 - Mass flow in kg/h 30 - 55 - 60 - 65 - 65 - 66 - 65 - 67 - 68 - 68 - 68 - 68 - 68 - 68 - 68 - 68			- - - - -	-	-		- - -	-
55 - 60 - 65 - Power input in W 30 - 35 - 45 - 50 - 65 - Current consumption in A 30 - 35 - 60 - 65 - Current consumption in A 30 - 45 - 60 - 45 - Current consumption in A 30 - 45 - 50 - 55 - 60 - 65 - Mass flow in kg/h 30 - 35 - 40 - 65 - Mass flow in kg/n 30 - 55 - 60 - 65 - 65 -	- - - - - -	- - - - -	- - - -	-	-		-	
60 - 65 - Power input in W 30 - 35 - 40 - 50 - 55 - 60 - 45 - 55 - 60 - 65 - Mass flow in kg/h 30 - 35 - 40 - 65 - Mass flow in kg/h 30 - 55 - 60 - 65 - 65 - 66 - 65 -			- - - -		-	-	-	-
65 - Power input in W 30 - 35 - 40 - 45 - 55 - 60 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 65 - Wass flow in kg/h 30 - 35 - 40 - 65 - Wass flow in kg/h 30 - 55 - 60 - 65 - 65 - 66 - 65 - 67 - 68 - 68 - 69 - 69 - 69 - 69 - 69 - 69 - 69 - 69				-	-	-	-	-
Power input in W 30					-	-		1
30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 65 - Wass flow in kg/h 30 - 35 - 40 - 65 - Wass flow in kg/h 30 - 55 - 60 - 65 -			-	-		1	-	
30 - 35 - 40 - 45 - 50 - 65 - 60 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 65 - Wass flow in kg/h 30 - 35 - 40 - 65 - Mass flow in kg/h 30 - 55 - 60 - 65 - 65 - 66 - 65 - 67 - 68 - 68 - 68 - 68 - 68 - 68 - 68 - 68			-	-		1	-	T
30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 65 - Wass flow in kg/h 30 - 35 - 40 - 65 - Wass flow in kg/h 30 - 55 - 60 - 65 -			-	-		1	-	
35 - 40 - 45 - 50 - 55 - 60 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 65 - Mass flow in kg/h 30 - 35 - 40 - 65 - Mass flow in kg/h 50 - 55 - 60 - 65 - 65 - 66 - 65 -		-	-					
40 - 45 - 50 - 55 - 60 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 65 - Mass flow in kg/h 30 - 35 - 40 - 65 - Mass flow in kg/h 30 - 55 - 60 - 65 - 65 -	-	-			_	-	-	-
45 - 50 - 55 - 60 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 65 - Mass flow in kg/h 30 - 35 - 40 - 65 - Mass flow in kg/h 50 - 55 - 60 - 65 -	-	+		-	-	-	-	-
50 - 55 - 60 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 65 - Mass flow in kg/h 30 - 35 - 40 - 55 - 60 - 55 - 60 - 65 - 65 -	-	+	-	-	-	-	-	-
55 - 60 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 65 - Mass flow in kg/h 30 - 35 - 40 - 55 - 60 - 55 - 60 - 65 - 65 -	+	1	-	-	-	-	-	-
60 - 65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 65 - Mass flow in kg/h 30 - 35 - 40 - 55 - 60 - 55 - 60 - 65 -		-	-	_	-	_	-	-
65 - Current consumption in A 30 - 35 - 40 - 45 - 50 - 65 - Mass flow in kg/h 30 - 35 - 40 - 55 - 60 - 55 - 60 - 65 -	-	_	-	_	-	_	-	-
Current consumption in A 30	_	-	-	-	-	-	-	_
30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 - Mass flow in kg/h 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 -		_ I	L	1	ı			1
30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 - Mass flow in kg/h 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 -								
35 - 40 - 45 - 50 - 55 - 60 - 65 - Mass flow in kg/h 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 -	_	-	-	_	-	_	-	_
40 - 45 - 50 - 55 - 60 - 65 - Mass flow in kg/h 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 -	_	_	-	_	-	-	-	_
45 - 50 - 55 - 60 - 65 - Mass flow in kg/h 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 -	-	-	-	-	-	-	-	_
50 - 55 - 60 - 65 - Mass flow in kg/h 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 -	-	-	-	-	_	-	-	_
55 - 60 - 65 - Mass flow in kg/h 30 - 35 - 40 - 45 - 50 - 65 - 60 -	-	-	-	_	-	-	-	_
60 - 65 - Mass flow in kg/h 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 -	-	-	-	-	-	-	<u> </u>	-
65 - Mass flow in kg/h 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 -	-	-	-	-	-	-	-	-
Mass flow in kg/h 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 -	-		+			1		
30 - 35 - 40 - 45 - 50 - 55 - 60 -	-	-	-	-	-	-	-	-
30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 -								
35 - 40 - 45 - 50 - 55 - 60 - 65 -		_	_		_	_		_
40 - 45 - 50 - 55 - 60 - 65 -	-		1	-	+	1	-	
45 - 50 - 55 - 60 - 65 -	-	-	-	-	-	-	-	-
50 - 55 - 60 - 65 -	-	-	-	-	-	-	-	-
55 - 60 - 65 -	-	-	-	-	-	-	-	-
60 - 65 -	-	-	-	-	-	-	-	-
65 -	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
Coefficient of performance	-	-	-	-	-	-	-	-
Coefficient of performance	(2.2.2.)							
	(C.O.P.)		1	1	1	<u> </u>	Γ	
30 -		-	-	-	-	-	-	-
35 -	-	-	-	-	-	-	-	-
40 -	-	-	-	-	-	-	-	-
45 -	-	-	-	-	-	-	-	-
50 -	-	-	-	-	-	-	-	-
55 -	-	-	-	-	-	-	-	-
60 -	-	_	-	-	-	-	-	-
65 -	-		-	-	-	-	-	-

tronnia porto manos at to c, to			
Cooling capacity	-	W	
Power input	-	W	
Current consumption	-	Α	
Mass flow	-	kg/h	
C.O.P.	-		

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

Sound power data

Sound power level	81	dB(A)
With accoustic hood	73	dB(A)

All performance data +/- 5%



Available for after sales service only. SZ115-4

Performance data at 60 Hz, ARI rating conditions

R407C

°C (tc) -20 -15 -10 -5 0 5 10 15	Cond. temp. in Evaporating temperature in °C (to)									
30		-20	-15	-10				10	15	
30	<u>'</u>		•	•	•		•	•	•	
35	Cooling capacity in W									
440		-	-	-	-	-	-	-	-	-
45	35	-	-	-	-	-	-	-	-	-
So	40	-	-	-	-	-	-	-	-	-
55	45	-	-	-	-	-	-	-	-	-
60	50	-	-	-	-	-	-	-	-	-
Power input in W 30	55	-	-	-	-	-	-	-	-	-
Power input in W 30	60	-	-	-	-	1	-	-	-	-
S0	65	-	-	-	-	-	-	-	-	-
S0										
35	Power input in W	ı								
40	30	-	-	-	-	-	-	-	-	-
45	35	-	-	-	-	-	-	-	-	-
SO	40	-	-	-	-	-	-	-	-	
65	45	-	-	-	-	-	-	-	-	-
60	50	-	-	-	-	-	-	-	-	-
60	55	-	-	-	-	-	-	-	-	-
Current consumption in A 30		-	-	-	-	-	-	-	-	-
30		-	-	-	-	-	-	-	-	-
30	1		•	1	•				•	
35	Current consum	ption in A								
35	30	-	-	-	-	-	-	-	-	-
40		-	-	-	-	-	_	-	-	-
45		-	-	-	-	-	_	-	-	-
50		-	_	_	_	_	_	_	_	_
55										
60							+			
Mass flow in kg/h 30							1		1	
Mass flow in kg/h 30				<u> </u>	1					
30		<u> </u>								
30	Mass flow in kg/l	h								
35			_	_	_	_	_	_	_	_
40			1	1						
45										
50 -							+			
55 -			+		1		+		1	
60										
65 -			+	<u> </u>					1	
Coefficient of performance (C.O.P.) 30										
30 - - - - - - 35 - - - - - - - 40 - - - - - - - - 45 - - - - - - - - 50 - - - - - - - - 55 - - - - - - - - 60 - - - - - - - - 65 - - - - - - - -	00	_		_				_	_	
30 - - - - - - 35 - - - - - - - 40 - - - - - - - - 45 - - - - - - - - 50 - - - - - - - - 55 - - - - - - - - 60 - - - - - - - - 65 - - - - - - - -	Coefficient of ne	rformance (C.C).P.)							
35 - - - - - - - 40 - - - - - - - 45 - - - - - - - 50 - - - - - - - 55 - - - - - - - 60 - - - - - - - 65 - - - - - - -				_	_	_	_	_	_	_
40 -	-		+		1		+		1	
45 - - - - - - - 50 - - - - - - - - 55 - - - - - - - - 60 - - - - - - - - 65 - - - - - - - -										
50 - - - - - - - 55 - - - - - - - 60 - - - - - - - 65 - - - - - - -			1							
55 -										
60 65			+	<u> </u>	1					
65				<u> </u>						
Naminal performance at to = 7.2 °C to = 54.4 °C	65	-	-	_	-	-	_	-	-	-
	Namelmal f -		200 4 54 400				Dunnanus	44!		

	,	
Cooling capacity	-	W
Power input	-	W
Current consumption	-	Α
Mass flow	-	kg/h
C.O.P.	-	

to: Evaporating temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Maximum HP switch setting	29.5	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	1	bar(g)

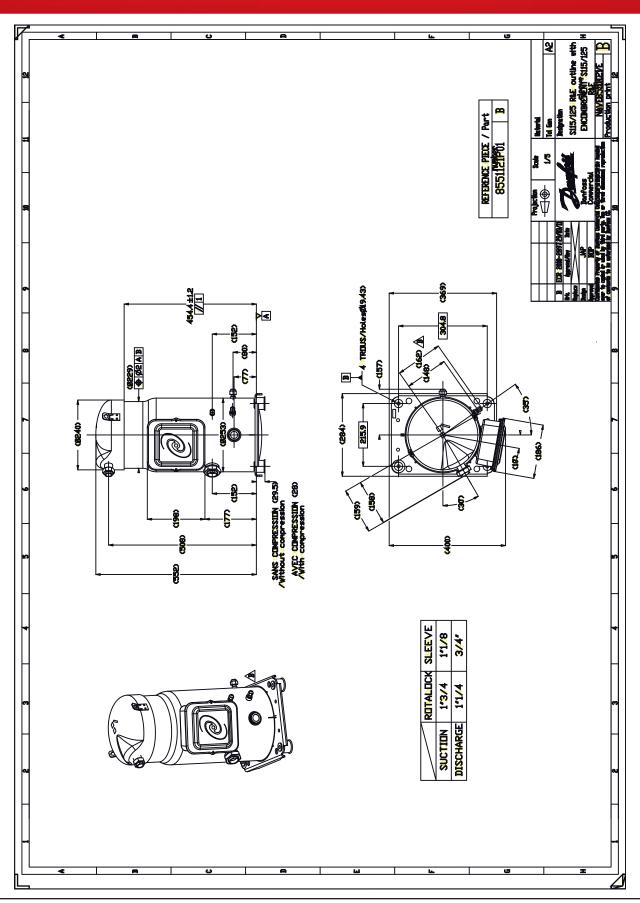
Sound power data

Sound power level	81	dB(A)
With accoustic hood	73	dB(A)

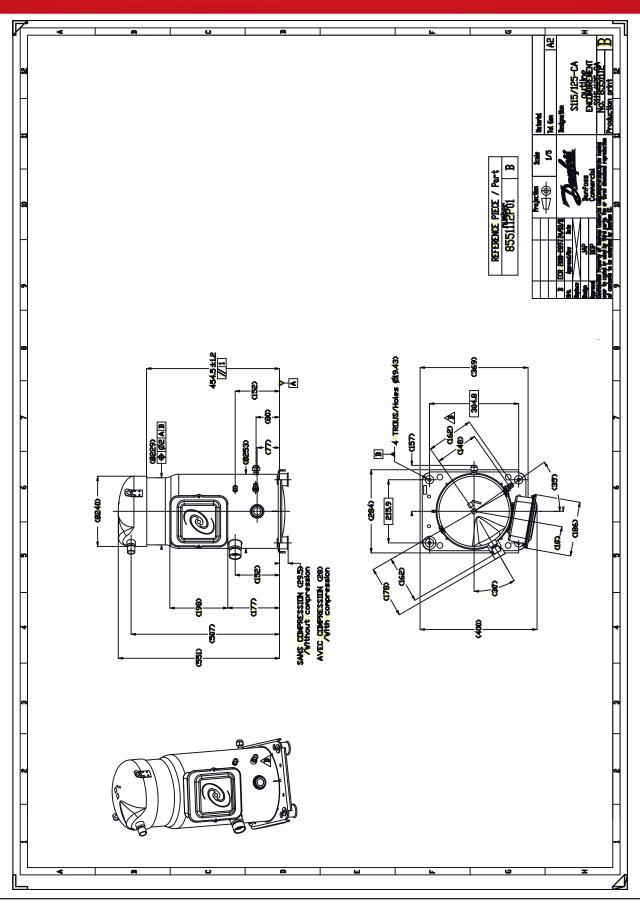
All performance data +/- 5%

tc: Condensing temperature at dew point









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