

شماره: ۰۰۷۸
تاریخ: ۱۴۰۰ فروردین ۱

شرکت محترم ساید بتن

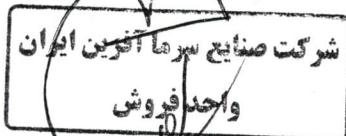
موضوع: قرارداد شماره ۹۹۱۶۲۸ مورخ ۹۹/۱۰/۱۷

با سلام

احتراماً، بازگشت به نامه شماره ۱۹/۱۹۹۵ و پیرو نامه شماره ۰۰۲۹ موضوع مستندات و مدارک مربوط به خرید کمپرسورها، تصویر مربوط به لیبل کمپرسورها و گزارش تست نهایی کارخانه بیتزر آلمان به پیوست تقدیم حضور می گردد.

با تشکر

مدیریت واحد فروش



اقدام کننده: خانم معینی



Bitzer Kühlmaschinenbau GmbH Sindelfingen

Screw/Scroll Compressor Test Certificate

Compressor model: CSH9573-240

SerialNo: 1098901131

Date: 9/23/2020 7 Time:

7:32

Tested by: Fikret

All mentioned data are measured with nitrogen and can not be transferred to refrigerant applications!

Motor winding resistances

PW	S/D	3P / 9P		
U1 - U2	U1 - V2	U1 - V2	Ohm:	0.047
U1 - V2	V1 - W2	U1 - V2	Ohm:	0.048
U1 - W2	W1 - U2	W1 - U2	Ohm:	0.048
V1 - U2			Ohm:	
V1 - V2			Ohm:	
V1 - W2			Ohm:	
W1 - U2			Ohm:	
W1 - V2			Ohm:	
W1 - W2			Ohm:	
Thermistor			Ohm:	383

Insulation (1000V DC)

1.2.3 S/D - 4.5.6 PW, 3P/9P, S/D		
Winding1 / Winding2	MOhm:	>6
Winding1 / Winding3	MOhm:	>6
Winding2 / Winding3	MOhm:	>6
Winding / Thermistor	MOhm:	>6
Winding / Body	MOhm:	>6
Body / Thermistor	MOhm:	>6

Measured values at 50 Hz

Measured values at 50 Hz		Full load	
Voltage L1/L2	V: 401.00	Full current L1	A: 202.90
Voltage L1/L3	V: 401.00	Full current L2	A: 217.30
Voltage L2/L3	V: 398.00	Full current L3	A: 206.00
		Part current L1	A:
		Part current L2	A:
		Part current L3	A:

Measured values at		Full load	Part load 1	Part load 2	Part load 3
Total power	kW:	124.60	93.20	73.30	57.70
Displacement	m ³ /h:	643.50	453.70	331.20	149.90
Oil flow	l/min:				
Gas LP	bar(abs):	2.98	2.87	3.10	3.12
Gas HP	bar(abs):	10.05	10.15	10.01	9.91
Bearing chamber	bar(abs):				

Product released after successful test.



Bitzer Kühlmaschinenbau GmbH Sindelfingen

Screw/Scroll Compressor Test Certificate

Compressor model: CSH9573-240

SerialNo: 1098901132

Date: 9/22/2020 3 Time:

15:05

Tested by: Fischer

All mentioned data are measured with nitrogen and can not be transferred to refrigerant applications!

Motor winding resistances

PW	S/D	3P / 9P	
U1 - U2	U1 - V2	U1 - V2	Ohm: 0.048
U1 - V2	V1 - W2	U1 - V2	Ohm: 0.048
U1 - W2	W1 - U2	W1 - U2	Ohm: 0.048
V1 - U2			Ohm:
V1 - V2			Ohm:
V1 - W2			Ohm:
W1 - U2			Ohm:
W1 - V2			Ohm:
W1 - W2			Ohm:

Insulation (1000V DC)

1.2.3 S/D - 4.5.6 PW, 3P/9P, S/D	
Winding1 / Winding2	MOhm: >6
Winding1 / Winding3	MOhm: >6
Winding2 / Winding3	MOhm: >6
Winding / Thermistor	MOhm: >6
Winding / Body	MOhm: >6
Body / Thermistor	MOhm: >6

Thermistor Ohm: 381

Measured values at 50 Hz

Full load

Voltage L1/L2	V: 399.00	Full current L1	A: 199.40	Part current L1	A:
Voltage L1/L3	V: 400.00	Full current L2	A: 213.70	Part current L2	A:
Voltage L2/L3	V: 398.00	Full current L3	A: 205.50	Part current L3	A:

Measured values at		Full load	Part load 1	Part load 2	Part load 3
Total power	kW:	123.80	92.70	74.50	58.70
Displacement	m ³ /h:	636.90	454.80	339.80	149.40
Oil flow	l/min:				
Gas LP	bar(abs):	2.98	2.85	3.10	3.14
Gas HP	bar(abs):	10.05	10.13	10.04	9.90
Bearing chamber	bar(abs):				

Product released after successful test.



Bitzer Kühlmaschinenbau GmbH Sindelfingen

Screw/Scroll Compressor Test Certificate

Compressor model: CSH9573-240

SerialNo: 1098901133

Date: 9/22/2020 3 Time:

15:45

Tested by: Fischer

All mentioned data are measured with nitrogen and can not be transferred to refrigerant applications!

Motor winding resistances

Insulation (1000V DC)

PW S/D 3P / 9P

1.2.3 S/D - 4.5.6 PW, 3P/9P, S/D

U1 - U2	U1 - V2	U1 - V2	Ohm: 0.048	Winding1 / Winding2	MOhm: >6
U1 - V2	V1 - W2	U1 - V2	Ohm: 0.048	Winding1 / Winding3	MOhm: >6
U1 - W2	W1 - U2	W1 - U2	Ohm: 0.048	Winding2 / Winding3	MOhm: >6
V1 - U2			Ohm:	Winding / Thermistor	MOhm: >6
V1 - V2			Ohm:	Winding / Body	MOhm: >6
V1 - W2			Ohm:	Body / Thermistor	MOhm: >6
W1 - U2			Ohm:		
W1 - V2			Ohm:		
W1 - W2			Ohm:		
Thermistor			Ohm: 358		

Measured values at 50 Hz

Full load

Voltage L1/L2	V: 404.00	Full current L1	A: 202.40	Part current L1	A:
Voltage L1/L3	V: 404.00	Full current L2	A: 214.10	Part current L2	A:
Voltage L2/L3	V: 402.00	Full current L3	A: 206.80	Part current L3	A:

Measured values at		Full load	Part load 1	Part load 2	Part load 3
Total power	kW:	124.60	92.00	67.90	56.10
Displacement	m ³ /h:	642.60	450.30	303.00	146.90
Oil flow	l/min:				
Gas LP	bar(abs):	2.95	2.87	3.14	3.13
Gas HP	bar(abs):	10.04	10.15	9.96	9.90
Bearing chamber	bar(abs):				

Product released after successful test.



Bitzer Kühlmaschinenbau GmbH Sindelfingen

Screw/Scroll Compressor Test Certificate

Compressor model: CSH9563-210

SerialNo: 1098800335

Date: 8/12/2020 8 Time:

8:04

Tested by: polat

All mentioned data are measured with nitrogen and can not be transferred to refrigerant applications!

Motor winding resistances

PW	S/D	3P / 9P	
U1 - U2	U1 - V2	U1 - V2	Ohm: 0.049
U1 - V2	V1 - W2	U1 - V2	Ohm: 0.049
U1 - W2	W1 - U2	W1 - U2	Ohm: 0.050
V1 - U2			Ohm:
V1 - V2			Ohm:
V1 - W2			Ohm:
W1 - U2			Ohm:
W1 - V2			Ohm:
W1 - W2			Ohm:

Insulation (1000V DC)

1.2.3 S/D - 4.5.6 PW, 3P/9P, S/D

Winding1 / Winding2	MOhm: >6
Winding1 / Winding3	MOhm: >6
Winding2 / Winding3	MOhm: >6
Winding / Thermistor	MOhm: >6
Winding / Body	MOhm: >6
Body / Thermistor	MOhm: >6

Thermistor Ohm: 294

Measured values at 50 Hz

Full load

Voltage L1/L2	V: 397.00	Full current L1	A: 191.70	Part current L1	A:
Voltage L1/L3	V: 397.00	Full current L2	A: 204.10	Part current L2	A:
Voltage L2/L3	V: 396.00	Full current L3	A: 191.00	Part current L3	A:

Measured values at

Full load

Part load 1

Part load 2

Part load 3

Total power	kW:	112.20	86.30	63.70	55.50
Displacement	m ³ /h:	579.70	425.50	281.40	150.70
Oil flow	l/min:				

Gas LP	bar(abs):	2.96	2.92	3.20	3.13
Gas HP	bar(abs):	10.09	10.18	10.00	9.95
Bearing chamber	bar(abs):				

Product released after successful test.



Bitzer Kühlmaschinenbau GmbH Sindelfingen

Screw/Scroll Compressor Test Certificate

Compressor model: CSH9563-210

SerialNo: 1098800336

Date: 8/11/2020 8

Time:

20:28

Tested by: Jagenteufel

All mentioned data are measured with nitrogen and can not be transferred to refrigerant applications!

Motor winding resistances

PW	S/D	3P / 9P	
U1 - U2	U1 - V2	U1 - V2	Ohm: 0.050
U1 - V2	V1 - W2	U1 - V2	Ohm: 0.050
U1 - W2	W1 - U2	W1 - U2	Ohm: 0.050
V1 - U2			Ohm:
V1 - V2			Ohm:
V1 - W2			Ohm:
W1 - U2			Ohm:
W1 - V2			Ohm:
W1 - W2			Ohm:
Thermistor			Ohm: 243

Insulation (1000V DC)

1.2.3 S/D - 4.5.6 PW, 3P/9P, S/D	
Winding1 / Winding2	MOhm: >6
Winding1 / Winding3	MOhm: >6
Winding2 / Winding3	MOhm: >6
Winding / Thermistor	MOhm: >6
Winding / Body	MOhm: >6
Body / Thermistor	MOhm: >6

Measured values at 50 Hz

			Full load		
Voltage L1/L2	V: 402.00	Full current L1	A: 191.20	Part current L1	A:
Voltage L1/L3	V: 402.00	Full current L2	A: 203.60	Part current L2	A:
Voltage L2/L3	V: 400.00	Full current L3	A: 192.40	Part current L3	A:

Measured values at		Full load	Part load 1	Part load 2	Part load 3
Total power	kW:	111.20	87.60	62.90	55.90
Displacement	m ³ /h:	578.90	432.30	282.20	153.80
Oil flow	l/min:				
Gas LP	bar(abs):	2.98	2.91	3.19	3.11
Gas HP	bar(abs):	10.06	10.17	9.99	9.93
Bearing chamber	bar(abs):				

Product released after successful test.



Bitzer Kühlmaschinenbau GmbH Sindelfingen

Screw/Scroll Compressor Test Certificate

Compressor model: CSH9563-210

SerialNo: 1098800338

Date: 8/12/2020 1 Time: 11:22

Tested by: polat

All mentioned data are measured with nitrogen and can not be transferred to refrigerant applications!

Motor winding resistances

PW	S/D	3P / 9P	
U1 - U2	U1 - V2	U1 - V2	Ohm: 0.049
U1 - V2	V1 - W2	U1 - V2	Ohm: 0.049
U1 - W2	W1 - U2	W1 - U2	Ohm: 0.049
V1 - U2			Ohm:
V1 - V2			Ohm:
V1 - W2			Ohm:
W1 - U2			Ohm:
W1 - V2			Ohm:
W1 - W2			Ohm:

Thermistor Ohm: 273

Insulation (1000V DC)

1.2.3 S/D	4.5.6 PW, 3P/9P, S/D	
Winding1 / Winding2		MOhm: >6
Winding1 / Winding3		MOhm: >6
Winding2 / Winding3		MOhm: >6
Winding / Thermistor		MOhm: >6
Winding / Body		MOhm: >6
Body / Thermistor		MOhm: >6

Measured values at 50 Hz

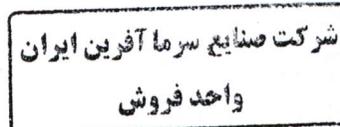
Voltage L1/L2	V: 396.00
Voltage L1/L3	V: 397.00
Voltage L2/L3	V: 395.00

Full load

Full current L1	A: 189.50	Part current L1	A:
Full current L2	A: 202.40	Part current L2	A:
Full current L3	A: 191.20	Part current L3	A:

Measured values at		Full load	Part load 1	Part load 2	Part load 3
Total power	kW:	111.30	85.50	65.00	55.90
Displacement	m³/h:	571.60	416.90	299.60	152.20
Oil flow	l/min:				
Gas LP	bar(abs):	2.94	2.94	3.16	3.11
Gas HP	bar(abs):	10.08	10.18	10.02	9.94
Bearing chamber	bar(abs):				

Product released after successful test.





Certificate No.: 9190.C308

شرکت صنایع سرما آفرین ایران (کریترتوموفریک) «سهامی عام»



تهران، خیابان خرمشهر غربی، شماره ۱۹۴، کد پستی ۱۵۳۳۷-۴۴۹۱۶

تلفن: ۸۸۷۶۲۰۳۱ فاکس: ۸۸۷۶۲۰۳۳

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شماره: ۰۰۷۸

تاریخ: ۳۱ فروردین ۱۴۰۰

BITZER
Type CSH9563-210-40D
S.No. 1098800336

BITZER KÜHLMASCHINENBAU GMBH
Made in Germany

Nominal Voltage		Frequ. Hz	Max. Operat. C.		Locked Rotor C.		Displacem. m³/h	Speed RPM
V Δ 3Ph~	V Y 3Ph~		A (Δ)	A (Y)	A (Δ)	A (Y)		
380-415		50	370		1853	586	615	2900
440-480		60	370		1853	586	742	3500

P 54 LPH max 19 / 28 bar




BITZER
Type CSH9573-240-40D
S.No. 1098901132

BITZER KÜHLMASCHINENBAU GMBH
Made in Germany

Nominal Voltage		Frequ. Hz	Max. Operat. C.		Locked Rotor C.		Displacem. m³/h	Speed RPM
V Δ 3Ph~	V Y 3Ph~		A (Δ)	A (Y)	A (Δ)	A (Y)		
380-415		50	420		2029	650	700	2900
440-480		60	420		2029	650	845	3500

P 54 LPH max 19 / 28 bar




BITZER
Type CSH9573-240-40D
S.No. 1098901133

BITZER KÜHLMASCHINENBAU GMBH
Made in Germany

Nominal Voltage		Frequ. Hz	Max. Operat. C.		Locked Rotor C.		Displacem. m³/h	Speed RPM
V Δ 3Ph~	V Y 3Ph~		A (Δ)	A (Y)	A (Δ)	A (Y)		
415		50	420		2029	650	700	2900
440		60	420		2029	650	845	3500

P 54 LPH max 19 / 28 bar




شرکت صنایع سرما آفرین ایران
واحد فروش



Certificate No.: 9190.C308

شرکت صنایع سرما آفرین ایران (کریترتوموفریک) «سهامی عام»



تهران، خیابان خرمشهر غربی، شماره ۱۹۴، کد پستی ۱۵۳۳۷-۴۴۹۱۶

تلفن: ۸۸۷۶۲۰۳۱ فاکس: ۸۸۷۶۲۰۳۳

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شماره: ۰۰۷۸

تاریخ: ۳۱ فروردین ۱۴۰۰

Bitzer
BITZER KÜHLMASCHINENBAU GMBH
Made in Germany

Type CSH9563-210-40D
S.No. 1098800338

Nominal Voltage		Frequ. Hz	Max. Operat. C.		Locked Rotor C.		Displacem. m³/h	Speed RPM
V Δ 3Ph~	V Y 3Ph~		A (Δ)	A (Y)	A (Δ)	A (Y)		
380-415		50	370			1853	615	2900
440-480		60	370			1853	742	3500

IP 54 LP/HP max 19 / 28 bar




Bitzer
BITZER KÜHLMASCHINENBAU GMBH
Made in Germany

Type CSH9573-240-40D
S.No. 1098901131

Nominal Voltage		Frequ. Hz	Max. Operat. C.		Locked Rotor C.		Displacem. m³/h	Speed RPM
V Δ 3Ph~	V Y 3Ph~		A (Δ)	A (Y)	A (Δ)	A (Y)		
380-415		50	420			2029	700	2900
440-480		60	420			2029	845	3500

IP 54 LP/HP max 19 / 28 bar




Bitzer
BITZER KÜHLMASCHINENBAU GMBH
Made in Germany

Type CSH9563-210-40D
S.No. 1098800335

Nominal Voltage		Frequ. Hz	Max. Operat. C.		Locked Rotor C.		Displacem. m³/h	Speed RPM
V Δ 3Ph~	V Y 3Ph~		A (Δ)	A (Y)	A (Δ)	A (Y)		
380-415		50	370			1853	615	2900
440-480		60	370			1853	742	3500

IP 54 LP/HP max 19 / 28 bar




شرکت صنایع سرما آفرین ایران
واحد فروش