		Refrigerant Cir	cuit T	est	R	ecor	·d			gi	Z	PROKLIMA		
Pr	ocessin	g No:	Date:											
Kli	ent:		Company	Company:										
Ad	dress:			Name:										
Fa	cility:			Contact:										
Re	frigeraı	nt type: R Charge a	amount r			kg Eval. filling dergree								
1	p _{eV1}	Pressure at compressor inlet		bar	2	t _{V1}			rre of refrigerant at compressor erted vom pressure)					
3	p _{eV2}	Pressure at compressor outlet		bar	4	t _{V2}	Tempera		igerant at	t compressor		°C	_	
5	p _{eB1-2}	Pressure at receiver B1 outlet		bar	6	t _{B1-2}	Temperature of sat. liquid refrigerant at receiver outlet (converted from pressure)					°C	_	
7	p _{e02}	Pressure of saturated vapour refrigerant at evaporator outlet		bar	8	t ₀₂	Tempera	ature of sat.		°C	_			
9	t _{02h}	Temperature of superheated vapour at		°C	10	t E1u	evaporator outlet (converted from press.) Temperature of subcooled liquid at throttling device inlet (TXV)					°C	_	
11	Δt _{02h}	evaporator outlet Calculated superheat at evaporator outlet		K	12		Pressure	difference o		bar	_			
13	t _{V1h}	$\Delta t_{02h} = t_{02h} - t_{02}$ (TXV superheat) Temperature of superheated refrigerant		°C	14			of oil-pump ature of supe		°C				
		vapour at compressor inlet						at compresso ed superhea	<u>+</u>		_			
15	t _{oil}	Temperature of oil Colour of oil within the compressor sight		°C	16	Δt _{V1h}	$\Delta t_{v1h} = t_{v1h} - t_{v1}$					K	_	
17	colour	glass			18	level	Oil level	within the c			_			
19	t amb1	Outside air temperature		°C	20	02		ery room ten	-			°C		
21	t room	Cooling position temperature		°C	22	Room ventil.	Conditio system	n of machin	ery room	ventilation				
23	t cL1/W1	Temerature of condenser air/water inlet		°C	24	t _{cL2/W2}	Temerat	cure of conde	enser air,	water outlet		°C		
25	t _{0L1/K1}	Temerature of evaporator air/water inlet		°C	26	t _{0L2/K2}	Temerat	ure of evapo	orator air	/water outlet		°C		
27	HP-G	High pressure guard cut off temperature		°C	28	PC	Condens	ser fan press	ure regul	ator cut off	Ī	°C		
29	HP-L	High pressure limiter cut off temperature		°C	30	PC		ser fan press	ure regul	ator cut on		°C	_	
31	HP-SL	High pressure safety limiter cut off temperature		°C	32	TZ		otection tern	nostat cu	t off		°C		
33	LP-G	Low pressure guard cut off pressure		bar	34	FZ	Water fl	ow protectic ture / check				°C	_	
35	LP-L	Low pressure limiter cut off pressure		bar	36	HGB	Hot-gas	bypass activ $p_{e02} > t_{02}$	ation ten	npreratur		°C	_	
37	S	Sight glass / > pimles > clear >			38	S	Sight-gla	ss humidity		·/> wet > dry	 		=	
39	F	Filter-drier temperature pattern between		K	40		> margir Filter dri	er signs of c	orrosion		1		_	
41	Vibr.	inlet and outle Condition of vibration eliminator			42	Vibr.	Condidio	on of compre	essor spri	ng elements			_	
43	Lines	Condition of refrigerand transfer lines / suction, discharge, liquid,			44	Cond.	Conditio	n of conden	sate tray	and drain	1		_	
45	TXV	Condition of expansion valve			46	Solen.	Conditio	n of solenoi	d valve				_	
47	Insul.	Condition of Insulation / suction-line, injection line, liquid-line		48	Siffer	Carry out leak check using an appropriate gas sniffer								
Ok	servati	ons and Findings:					gas siiii	Ci					_	
													_	
													_	
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													_	
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									Ţ	echnitian	Sign	atur <u>e</u>		

	Current Draw Record & Motor Insulation Resistance Test Giz																						
Pro	Processing No:													Date:									
Kli	Client: Co														Company:								
Ad	Address:														Name:								
Fa	Facility:													Contact:									
#	Contactor designation	Consum	er load name				Manufacturer and Type				ated irrent @ oltage	L1	I L2 I L3 I			rload ector	I Set point		Circuit breaker				
1																							
2					1					4													
3														_									
4										_				<u> </u>									
5					╁					+				_									
7					+					+				<u> </u>									
8					t					+				 									
9					+					+				<u> </u>									
10										+													
Motor Insulation Resistance Testing (corrected for temperature) according to IEEE43 at 500 VDC																							
	T_R is the reference temperature (°C) to which all measurtements are corrected > T_R = 40 °C																						
	T_A is the actual test temperature / K_T is the temperature correction factor at T_A Equation to determine TAIR below > TAIR = MIR x K_T																						
Measured Insulation							1							rature .	•	ed	Temperature						
	Date / T	Resistance Value / MIR (MΩ)						measured (T _A)					tion Re e / TAIF		e	Compensation Factor (K _T)							
		T _A			T _A °C	K _T	T _A °C	K _T	T _A °C	K _T	T _A °(T _A °C	K _T	T _A °C	K _T	T _A °C	K _T					
1	To determine the			0,0	80	14 15 16	0,16 0,18 0,19	27 28 29	0,41 0,44 0,47	40 41 42	1,07 1,15		2,46 2,64 2,83	67	6,06 6,5 7	79 80 81	14,93 16 17,15	92 93 94	36,76 39,4 42,22				
Temperature Compensation			5	0,0	08 09	17 18	0,2 0,22	30 31	0,5 0,54	43 44	1,23 1,32	56 57	3,03 3,25	69 70	7,46 8	82 83	18,38 19,7	95 96	45,26 48,5				
Factor K _T please			7	0,	1	19 20 21	0,23 0,25 0,27	32 33 34	0,57 0,62 0,66	45 46 47	1,41 1,52 1,62	59	3,48 3,73 4		8,57 9,19 9,85	84 85 86	21,11 22,63 24,25	97 98 99	52 55,71 59,71				
refer the table to the			1	0,	12 13	22 23	0,29 0,31	35 36	0,71 0,76	48 49	1,74 1,87	61 62	4,29 4,59	74 75	10,56 11,31	87 88	26 27,86	100 101	64 68,59				
right! >>		1 1:	2 0,	14	24 25 26	0,33 0,35 0,38	37 38 39	0,81 0,87 0,93	50 51 52	2 2,14 2,3	63 64 65	5,28 5,66	3 77	12,13 13 13,93	90 91	29,86 32 34,3	102 103 104	73,52 78,79 84,45					
													Technitian Signature										