SERVICE REPORT PREVENTIVE MAINTENANCE PRECISION AIR CONDITIONING (PAC) PT. HM SAMPOERNA SUKOREJO

PLANT

			LANT		-			
		Model Unit :		Team Engineer List: tes			Date : 2024-08-03	
Code unit : 12		No. Seri }]			Start PM: 06:10	
Nomor Unit: 83		: 12 Periode :			+			Close PM : 08:10
	•	renoue .						Close Fivi. 00.10
CHECKLIST TEAM B						0		0
INTENSIVE SAFETY BE			<u> </u>			?	OK	?
A	Filter Section	Spec. Range /					Spec.	
!	Item Checked	Cond. Std.	Actual	Checked	Item (Checked	Spec. Range	Actual Checked
!	entone.		Clean		5. Clean co	ondensate	В	Clean
!	1. Check/Replace filters	Clean or Dirty			pan		Dirty	
!	2. Grille area	OK / Not OK	Ok		6. Clean tr		Clean or	Clean
!	unrestricted	UK/ NOLOK			condensat	e drain	Dirty	
!	3. Wipe section clean	Clean or Dirty	Clean		7. Check/I	Test filter-		Ok
1	4. Coil clean	Clean or Dirty			-1	h operation	Ok or No	
В	Blower Section							
		Spec. Range /	Blo	wer 1	Blo	wer 2	Blo	wer 3
1	Item Checked	Cond. Std.	Before	After	Before	After	Before	After
1	1. Mounting bolts tight	Ok or No	OK	OK	OK			OK (
1	2. Fan-guard bolts tight	011 01 110	OK	OK	OK		OK	OK 0
1	3. Impeller spins freely		OK	OK	OK		OK	OK (
!	4. Check/Test air sail	Ok or No	OK	OK	OK	OK	OK	OK
!	switch		<u> </u>					
!	5. Motor amp draw	12.121	L1	L1	L1	L1	L1	L1
!	Compare to nameplate	A FLA L2 =····	L2	L2	L2	L2	L2	L2
1	amps	FLA L2 =···· A	L	L-2	122	LL	L£	
!	ſ	FLA L3 =	L3	L3	L3	L3	L3	L3
1		A		ļ				
1	6. Check belt tension and	Ok or No	Ok	Ok	Ok	Ok	Ok	Ok
1	condition		~.	1	1			
	7. Check sheave/pulley	Ok or No	Ok	Ok	Ok	Ok	Ok	Ok
C	Reheat				Heater 2 Heater			
		Spec Range /	Hea	ater 1	Hea	oter 2	Hea	ator 3
	Item Checked	Spec. Range / Cond. Std.		ater 1 After				ater 3 After
		_	Hea Before	After 1	Hea Before	After 1	Hea Before	ater 3 After
	Item Checked 1. Reheat amp draw	Cond. Std.						
	Reheat amp draw Check Heater	Cond. Std. FLA =A						
	1. Reheat amp draw 2. Check Heater Resistance	Cond. Std. FLA = A 18-22 ohm	Before 1	After 1	Before 1	After 1	Before 1	After 1
	Reheat amp draw Check Heater	Cond. Std. FLA = A 18-22 ohm Ok or No	Before 1 Ok	After 1 Ok	Before 1 Ok	After 1 1 Ok	Before 1 Ok	After 1 Ok
	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements	Cond. Std. FLA = A 18-22 ohm Ok or No	Before 1	After 1	Before 1	After 1 Ok	Before 1	After 1
	1. Reheat amp draw 2. Check Heater Resistance	Cond. Std. FLA = A 18-22 ohm Ok or No	Before 1 Ok	After 1 Ok	Before 1 Ok	After 1 1 Ok	Before 1 Ok	After 1 Ok
D	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections	Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No	Before 1 Ok	After 1 Ok	Before 1 Ok	After 1 1 Ok	Before 1 Ok	After 1 Ok
D	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum	Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No	Before 1 Ok Ok	After 1 Ok Ok	Before 1 1 Ok Ok	After 1 1 Ok Ok	Before 1 1 Ok Ok	After 1 Ok Ok Spec.
D	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked	Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No	Before 1 Ok Ok	After 1 Ok	Before 1 Ok Ok	After 1 Ok Ok Ok Item Checker	Before 1 1 Ok Ok Ok	After 1 Ok Ok Spec. Range
D	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum	Cond. Std. FLA = ····· A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Before 1 Ok Ok	After 1 Ok Ok	Before 1 Ok Ok Ok 4. Check of	After 1 1 Ok Ok	Before 1 1 Ok Ok Ok	After 1 Ok Ok Spec.
D	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw	Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No	Before 1 Ok Ok Actual	After 1 Ok Ok	Before 1 Ok Ok	After 1 Ok Ok Ok Item Checker	Before 1 1 Ok Ok Ok	After 1 Ok Ok Spec. Range
D	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain	Cond. Std. FLA = ····· A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Before 1 Ok Ok	After 1 Ok Ok	Before 1 Ok Ok Ok 4. Check of hose	After 1 Ok Ok Ok Item Checker condition of	Before 1 1 Ok Ok Ok	After 1 Ok Ok Ok Spec. Range Ok or No
D	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap	Cond. Std. FLA = ····· A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Before 1 Ok Ok Actual	After 1 Ok Ok	Before 1 Ok Ok Ok 4. Check of	After 1 Ok Ok Ok Item Checker condition of	Before 1 1 Ok Ok Ok	After 1 Ok Ok Spec. Range
D	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap fordamage/clogs/leaks	Cond. Std. FLA = ····· A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Before 1 Ok Ok Actual	After 1 Ok Ok	Before 1 Ok Ok Ok 4. Check o hose 5. Clean st	After 1 Ok Ok Ok Item Checker condition of	Before 1 1 Ok Ok Steam	After 1 Ok Ok Ok Spec. Range Ok or No Ok or No
D	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap fordamage/clogs/leaks 3. Check water fill valve	Cond. Std. FLA = ····· A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Before 1 Ok Ok Actual Ok	After 1 Ok Ok	Before 1 Ok Ok Ok 4. Check o hose 5. Clean st	After 1 Ok Ok Ok Item Check condition of	Before 1 1 Ok Ok Steam	After 1 Ok Ok Ok Spec. Range Ok or No
D	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap fordamage/clogs/leaks 3. Check water fill valve and all supply	Cond. Std. FLA = ····· A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Before 1 Ok Ok Actual Ok	After 1 Ok Ok	Before 1 Ok Ok Ok 4. Check o hose 5. Clean st	After 1 Ok Ok Ok Item Check condition of	Before 1 1 Ok Ok Steam	After 1 Ok Ok Ok Spec. Range Ok or No Ok or No
D	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap fordamage/clogs/leaks 3. Check water fill valve	Cond. Std. FLA = ····· A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Before 1 Ok Ok Actual Ok	After 1 Ok Ok	Before 1 Ok Ok Ok 4. Check of hose 5. Clean st 6. Check h (Boiler tank)	After 1 Ok Ok Ok Item Check condition of trainer	Before 1 1 Ok Ok ok ed steam	After 1 1 Ok Ok Ok Spec. Range Ok or No Ok or No Ok or No
	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap fordamage/clogs/leaks 3. Check water fill valve and all supply lines/connection for leaks	Cond. Std. FLA = ····· A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Before 1 Ok Ok Actual 1 Ok	After 1 Ok Ok	Before 1 Ok Ok Ok 4. Check of hose 5. Clean st 6. Check h (Boiler tank)	After 1 Ok Ok Ok Item Check condition of	Before 1 1 Ok Ok ok ed steam	After 1 1 Ok Ok Ok Spec. Range Ok or No Ok or No Ok or No
D E	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap fordamage/clogs/leaks 3. Check water fill valve and all supply lines/connection for leaks Electrical Panel	Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Before 1 Ok Ok Actual 1 Ok	After 1 Ok Ok	Before 1 Ok Ok Ok 4. Check of hose 5. Clean st 6. Check h (Boiler tank)	After 1 Ok Ok Ok Condition of Trainer Chamidifier b	Before 1 1 Ok Ok ok ed steam ottle	After 1 1 Ok Ok Ok Spec. Range Ok or No Ok or No Ok or No
	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap fordamage/clogs/leaks 3. Check water fill valve and all supply lines/connection for leaks	Cond. Std. FLA = ····· A 18-22 ohm Ok or No Ok or No idiffier Spec. Range A Ok or No Ok or No	Before 1 Ok Ok Actual 1 Ok	After 1 Ok Ok Checked	Before 1 Ok Ok Ok 4. Check of hose 5. Clean st 6. Check h (Boiler tank)	After 1 Ok Ok Ok Item Check condition of trainer	Before 1 1 Ok Ok ok ed steam ottle	After 1 Ok Ok Ok Spec. Range Ok or No Ok or No Ok or No Ok or No
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	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap fordamage/clogs/leaks 3. Check water fill valve and all supply lines/connection for leaks Electrical Panel Item Checked 1. Check fuses	Cond. Std. FLA = ····· A 18-22 ohm Ok or No Ok or No idiffer Spec. Range A Ok or No Ok or No Spec. Range / Cond. Std. Ok or No	Before 1 Ok Ok Actual 1 Ok Clean	After 1 Ok Ok Checked	Before 1 Ok Ok Ok 4. Check of hose 5. Clean st 6. Check h (Boiler tank)	After 1 Ok Ok Ok Item Check condition of trainer umidifier b peration of Actual Che	Before 1 1 Ok Ok ok ed steam ottle	After 1 1 Ok Ok Ok Spec. Range Ok or No Ok or No Ok or No Ok or No
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	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap fordamage/clogs/leaks 3. Check water fill valve and all supply lines/connection for leaks Electrical Panel Item Checked 1. Check fuses 2. Check contactors for pitting (Replace if pitted) 2. Check contactors for	Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. Range A Ok or No	Before 1 1 Ok Ok Ok Actual 1 Ok Clean Ok Ok Ok Ok	After 1 Ok Ok Checked	Before 1 Ok Ok Ok 4. Check of hose 5. Clean st 6. Check h (Boiler tank)	After 1 Ok Ok Condition of trainer numidifier b operation of Actual Che Ok Ok	Before 1 1 Ok Ok ok ed steam ottle	After 1 1 Ok Ok Ok Spec. Range Ok or No Ok or No Ok or No Ok or No
E	1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw 2. Check drain valve/drain lines/trap fordamage/clogs/leaks 3. Check water fill valve and all supply lines/connection for leaks Electrical Panel Item Checked 1. Check fuses 2. Check contactors for pitting (Replace if pitted) 2. Check contactors for	Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Before 1 1 Ok Ok Ok Actual 1 Ok Clean Ok Ok Ok Ok	After 1 Ok Ok Checked	Before 1 1 Ok Ok 4. Check of hose 5. Clean st 6. Check h (Boiler tank) 7. Check of	After 1 Ok Ok Condition of trainer numidifier b operation of Actual Che Ok Ok	Before 1 1 Ok Ok ok ed steam ottle	After 1 Ok Ok Ok Spec. Range Ok or No

E	Electrical Panel								
	Item Checked	Spec. Range / Cond. Std.	Actu Checl						Keterangan
				Before			After		
	4. Voltage Line to Neutral Ground	220 + 10%	L1/L2/L3 =1		V	L1/L2/L3 =1		V	1
	5. Voltage Line to Line	380 + 10%	L1L2/L2L3/L	1L3 = 1		L1L2/L2L3/L1L3 = 1 V			1
	6. Frequency	50 + 10%	F=1		Hz	F=1		Hz	1
F	Controls								
	Item Checked	Spec. Range / Cond. Std.	Actual Checked		Item Checked			Spec. Range	Actual Checked
	1. Check/Verify control operation	Ok or No	Ok		3. Check/Test water- detectiondevice			Ok or No	Ok
	2. Check/Test changeover device	Ok or No	Ok		4. Check/Test CAN connection between indoor and outdoor units			Ok or No	Ok
G	Refrigeration Piping				1			~	
	Item Checked	Spec. Range	Actual	Checked]	Item Check	ed	Spec. Range	Actual Checked
	1. Check refrigerant lines (clamps secure/no rubbing/no leaks)	Ok or No	Ok		3. Check for restriction temperature drop across			Ok or No	Clean
	2. Check for moisture	Ok or No	Ok		filterdrier				
101	(sight glass) Compressor Section								
	·	Spec. Range /	Cor	np. 1	Cor	mp. 2	Cor	np. 3	
ı	Item Checked	Cond. Std.	Before	After	Before	After	Before	After	Keterangan
	1. Ampere draw	OA··· A	1	1	1	1	1	1	1
	2. Check oil level	55 - 90 PsiG	1	1	1	1	1	1	1
	3. Check for oil leaks	200 - 300 PsiG	1	1	1	1	1	1	1
	4. Check compressormounts (springs/bushings)	Ok or No	Ok	Ok	Ok	Ok	Ok	Ok	Ok
	5. Cap tubes (not rubbing)	Ok or No	Ok	Ok	Ok	Ok	Ok	Ok	Ok
	6. Check/Re-torque wireconnections (inside compressor box)	Ok or No	Ok	Ok	Ok	Ok	Ok	Ok	Ok
	7. Compressor operation (vibration/noise)	Hz dB	1	1	1	1	1	1	1
	8. Check crank-case heater fuses/operation	Ok or No	Ok	Ok	Ok	Ok	Ok	Ok	Ok
	9. Check for refrigerantleaks	Ok or No	Ok	Ok	Ok	Ok	Ok	Ok	Ok
	10. Suction pressure Circuit	55 - 90 PsiG	1	1	1	1	1	1	1
	11. Discharge PressureCircuit	200 - 300 PsiG	1	1	1	11	1	1	1
	12. Superheat Circuit	?C		1	1	1	1	1	1
	13. Low-pressure switchcut out Circuit	Ok or No	Ok	Ok	Ok	Ok	Ok	Ok	Ok
	14. Low pressure cut in Circuit	Ok or No	Ok	Ok	Ok	Ok	Ok	Ok	Ok
	15. High pressure cut out Circuit	Ok or No	Ok	Ok	Ok	Ok	Ok	Ok	Ok
L	16. Sight Glass	Ok or No	Ok	Ok	Ok	Ok	Ok	Ok	Ok
				-		-	•		

Ι	Condensor Section				
	Item	Spec. Range	Before	After	Keterangan
Ш	Checked				

	1. Coil clean of debris (Clean coil ifrequired)		Clean or Dirty	Clean	Clean	llean		
Н	2. Fans free of debris		Clean or Dirty	Clean Clean				
	3. Fans securely mounted		1	1	1			
Н	4. Motor bearings in good		1	1	1			
Н	5. Check all refrigerant lin		1	Ok	Ok			
	vibration	105 101	Ok or No	OK	O.K			
	isolation. Support as necessary							
	6. Check for refrigerant le		Ok or No	Ok	Ok	Ok		
	7. Check surge-protection device (ifinstalled) status-indicator lights		Ok or No	Ok	Ok			
	8. Check/Re-torque wire connections		Ok or No	Ok	Ok			
	9. Check contactors for pitting (replace ifpitted)		Ok or No	Ok	Ok			
	10. Verify operation seque	ence/set points	1	1	1			
	11. Charge verification:		1	1	1			
	a. Outdoor Ambient Temp	perature	1	1	1			
	b. Subcooling		1	1	1			
	c. Indoor-unit Return-air		1	1	1			
	d. Sight-glass level (if Lee- orpumped refrigerant)	Тетр	1	1	1			
	12 Motor omn draw		FLA = 1 A	L1/L2/L3 =	L1/L2			
	12. Motor amp draw		FLA - 1 A	1 Amp	1 A	mp		
J	General Function							
	Item Checked	Spec. Range	Actual Checked	Item Check	æd	Spec. Range	Actual Checked	
	1. Cooling Test	Ok or No	Ok	4. Dehumidification T	est	Ok or No	Ok	
	2. Heating Test	Ok or No	Ok	5. Alarm Test		Ok or No	Ok	
	3. Humidification Test	Ok or No	Ok					
K	Room Condition							
				Item Checked		Spec. Range	Actual	
	Item Checked	Spec. Range	Actual Checked			Kange	Checked	
	Item Checked 1. Temperature	Spec. Range	Checked	2. Humidity		1 %	Checked 1	
	1. Temperature		Checked	2. Humidity		Ü	Checked 1	
Ten	1. Temperature muan : tes		Checked	2. Humidity		Ü	Checked	
Ten	1. Temperature		Checked 1 NOT	2. Humidity		Ü	Checked 1	
Ten	1. Temperature muan : tes		Checked	2. Humidity		Ü	Checked 1	
Ten	1. Temperature muan : tes komendasi : tes JOB COMPLETED		Checked 1 NOT	2. Humidity TES UME	RUNNING	1 %	Checked 1	
Ten	1. Temperature muan : tes komendasi : tes		Checked NOT RESU NO, please check on N	2. Humidity TES UME NOTES		1 %	Checked 1	
Ten	1. Temperature muan : tes komendasi : tes JOB COMPLETED		Checked I NOT RESU NO, please check on N APPRO	2. Humidity TES UME NOTES		1 %	Checked 1	
Ten	1. Temperature muan : tes komendasi : tes JOB COMPLETED ?		Checked NOT RESU NO, please check on N APPRO SIGN	2. Humidity TES UME NOTES OVAL HING		1 % GHOURS:	1	
Ten	1. Temperature muan : tes komendasi : tes JOB COMPLETED ? Approved by		Checked I NOT RESU NO, please check on M APPRO SIGN Verified B	2. Humidity TES UME NOTES OVAL UING By		1 % GHOURS:	Service By	
Ten	1. Temperature muan : tes komendasi : tes JOB COMPLETED ?		Checked NOT RESU NO, please check on N APPRO SIGN	2. Humidity TES UME NOTES OVAL UING By		1 % GHOURS:	1	
Ten	1. Temperature muan : tes komendasi : tes JOB COMPLETED ? Approved by		Checked I NOT RESU NO, please check on M APPRO SIGN Verified B	2. Humidity TES UME NOTES OVAL UING By		1 % GHOURS:	Service By	
Ten	1. Temperature muan : tes komendasi : tes JOB COMPLETED ? Approved by		Checked I NOT RESU NO, please check on M APPRO SIGN Verified B	2. Humidity TES UME NOTES OVAL UING By		1 % GHOURS:	Service By	
Ten	1. Temperature muan : tes komendasi : tes JOB COMPLETED ? Approved by		Checked I NOT RESU NO, please check on M APPRO SIGN Verified B	2. Humidity TES UME NOTES OVAL UING By		1 % GHOURS:	Service By	

Keterangan : Lembar 1 untuk Teknisi; Lembar 2 untuk User; Lembar 3 Arsip Kantor