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FORM NO.

SERVICE REPORT PREVENTIVE MAINTENANCE

PRECISION AIR CONDITIONING (PAC)

			T. HM SA LANT	MPOER	NA SUKC	OREJO			Tipe Form PM04
Lok	asi :	Model Unit:			Team Engi	neer List:		Date :	
Code unit :		No. Seri :			-			Start PM:	
Nor	nor Unit :	Periode :					Close PM:		
INT TE						?	OK	?	NOT OK
A	Filter Section Item Checked	Spec. Range / Cond. Std.	Actual	Checked	Item (Checked	Spec. Range	A	ctual Checked
	1. Check/Replace filters	Clean or Dirty	Clean		5. Clean co	ondensate	Clean or Dirty	Clean	
	2. Grille area unrestricted	OK / Not OK	Ok		6. Clean tr			Clean	
	3. Wipe section clean	Clean or Dirty	Clean		7. Check/I	Test filter-		Ok	
	4. Coil clean	Clean or Dirty				n operation	Ok or No		
В	Blower Section	,	l				ı		
	Itam Chaalaad	Spec. Range /	Blower 1		Blower 2		Blo	wer 3	Vatamamaan
	Item Checked	Cond. Std.	Before	After	Before	After	Before	After	Keterangan
	1. Mounting bolts tight	Ok or No	OK	OK	OK	OK	OK	OK	OK
	2. Fan-guard bolts tight	Ok or No	OK	OK	OK	OK	OK		OK
	3. Impeller spins freely	Ok or No	OK	OK	OK	OK	OK	OK	OK
	4. Check/Test air sail switch	Ok or No	OK	OK	OK	OK	OK	OK	OK
	5. Motor amp draw	FLA L1 =····	L1	L1	L1	L1	L1	L1	1
	• Compare to nameplate amps	FLA L2 =····	L2	L2	L2	L2	L2	L2	1
		FLA L3 =····	L3	L3	L3	L3	L3	L3	1
	6. Check belt tension and condition	Ok or No	Ok	Ok	Ok	Ok	Ok	Ok	Ok
	7. Check sheave/pulley	Ok or No	Ok	Ok	Ok	Ok	Ok	Ok	Ok
С	7. Check sheave/pulley Reheat								Ok
С	Reheat Item Checked	Spec. Range / Cond. Std.		Ok ater 1 After		Ok ater 2 After		Ok After	Ok Keterangan
C	Reheat Item Checked 1. Reheat amp draw	Spec. Range /	Неа	ater 1	Неа	ater 2	Hea	nter 3	
С	Reheat Item Checked	Spec. Range / Cond. Std. FLA =	Неа	ater 1	Неа	ater 2	Hea	nter 3	
С	Item Checked 1. Reheat amp draw 2. Check Heater	Spec. Range / Cond. Std. FLA = A	Hea Before	After 1 After 1 Ok	Hea Before	After 2 After I Ok	Hea Before 1	After 1 Ok	Keterangan 1 Ok
C	Item Checked 1. Reheat amp draw 2. Check Heater Resistance	Spec. Range / Cond. Std. FLA = A 18-22 ohm	Hea Before	After 1	Hea Before	After 1	Hea Before	After 1	Keterangan
	Item Checked 1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire	Spec. Range / Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No	Hea Before	After 1 After 1 Ok	Hea Before	After 2 After I Ok	Hea Before 1	After 1 Ok	Keterangan 1 Ok
	Item Checked 1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections	Spec. Range / Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No	Hez Before 1 1 Ok Ok	After 1 After 1 Ok	Hes Before 1 1 Ok Ok	After 2 After I Ok	Hea Before 1 1 Ok Ok	After 1 Ok Ok Spec. Range	Keterangan 1 Ok Ok Actual Checked
	Reheat Item Checked 1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked 1. Humidifier amp draw	Spec. Range / Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No	Hez Before 1 1 Ok Ok	After 1 After 1 Ok Ok	Hea Before	After 2 After 1 1 Ok Ok	Hea Before 1 1 Ok Ok	After 1 Ok Ok Spec.	Keterangan 1 Ok Ok Actual Checked
	Reheat Item Checked 1. Reheat amp draw 2. Check Heater Resistance 3. Inspect elements 4. Check wire connections Steam Generating Hum Item Checked	Spec. Range / Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Hez Before 1 1 Ok Ok	After 1 After 1 Ok Ok	Hea Before 1 Ok Ok 4. Check of	After 1 Ok Ok Ok Condition of	Hea Before 1 1 Ok Ok	After 3 After 1 Ok Ok Ok Spec. Range Ok or No	Keterangan 1 Ok Ok Ok Actual Checked Clean
	Reheat Item Checked 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	Spec. Range / Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Hea Before 1 Ok Ok Actual	After 1 After 1 Ok Ok	Hea Before 1 Ok Ok Ok 4. Check of hose 5. Clean st	After 1 Ok Ok Ok Condition of	Hea Before 1 1 Ok Ok	After 3 After 1 Ok Ok Spec. Range Ok or No	Keterangan 1 Ok Ok Ok Actual Checked Clean Clean
	Reheat Item Checked 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	Spec. Range / Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Hea Before 1 1 Ok Ok Actual 1	After 1 After 1 Ok Ok	Hea Before 1 Ok Ok Ok 4. Check of hose 5. Clean st 6. Check h (Boiler tank)	After 2 After 1 Ok Ok Ok Item Check condition of	Hea Before 1 1 Ok Ok ed	After 3 After 1 Ok Ok Spec. Range Ok or No Ok or No	Keterangan 1 1 Ok Ok Ok Actual Checked Clean Clean Clean
D	Item Checked 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	Spec. Range / Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Hea Before 1 1 Ok Ok Actual 1	After 1 After 1 Ok Ok	Hea Before 1 Ok Ok Ok 4. Check of hose 5. Clean st 6. Check h (Boiler tank)	After After Ok Ok Condition of	Hea Before 1 1 Ok Ok ed	After 3 After 1 Ok Ok Spec. Range Ok or No Ok or No	Keterangan 1 1 Ok Ok Ok Actual Checked Clean Clean Clean
D	Reheat Item Checked 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	Spec. Range / Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. Range	Hea Before 1 1 Ok Ok Actual 1	After 1 After 1 Ok Ok Checked	Hea Before 1 Ok Ok Ok 4. Check of hose 5. Clean st (Boiler tank) 7. Check of Act	After 2 After 1 Ok Ok Ok Item Check condition of	Hea Before 1 1 Ok Ok ed steam	After 3 After 1 Ok Ok Spec. Range Ok or No Ok or No	Keterangan 1 1 Ok Ok Ok Actual Checked Clean Clean Clean
D	Reheat Item Checked 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	Spec. Range / Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. RangeA Ok or No Ok or No Spec. Range / Cond. Std.	Hea Before 1 Ok Ok Actual Clean	After 1 After 1 Ok Ok	Hea Before 1 Ok Ok Ok 4. Check of hose 5. Clean st (Boiler tank) 7. Check of Act	After After Ok Ok Ok Item Check condition of crainer numidifier b	Hea Before 1 1 Ok Ok ed	After 3 After 1 Ok Ok Spec. Range Ok or No Ok or No	Keterangan 1 1 Ok Ok Ok Actual Checked Clean Clean Clean Ok Keterangan
D	Reheat Item Checked 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	Spec. Range / Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. RangeA Ok or No Ok or No	Hea Before 1 1 Ok Ok Clean	After 1 After 1 Ok Ok Checked	Hea Before 1 Ok Ok Ok 4. Check of hose 5. Clean st (Boiler tank) 7. Check of Act	After After Ok Ok Ok Item Check condition of crainer numidifier b operation of tual cked	Hea Before 1 1 Ok Ok ed steam	After 3 After 1 Ok Ok Spec. Range Ok or No Ok or No	Keterangan 1 1 Ok Ok Ok Actual Checked Clean Clean Clean Ok Keterangan Ok
D	Reheat Item Checked 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	Spec. Range / Cond. Std. FLA = A 18-22 ohm Ok or No Ok or No idiffer Spec. RangeA Ok or No Ok or No Spec. Range / Cond. Std.	Hea Before 1 Ok Ok Actual Clean	After 1 After 1 Ok Ok Checked	Hea Before 1 Ok Ok Ok 4. Check of hose 5. Clean st (Boiler tank) 7. Check of Act	After After Ok Ok Ok Item Check condition of crainer numidifier b	Hea Before 1 1 Ok Ok ed steam	After 3 After 1 1 Ok Ok Spec. Range Ok or No Ok or No Ok or No	Keterangan 1 1 Ok Ok Ok Actual Checked Clean Clean Clean Ok Keterangan

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	Electrical Panel								
	Item Checked	Spec. Range / Cond. Std.	Actual Checked					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 V	1L3 =1	L1L2/L2L3/L1L3 = 1 V			1	
	6. Frequency	50 + 10%	F=1		Hz	F = 1		Hz	1
R	Controls								
	Item Checked	Spec. Range / Cond. Std.	Ok		Item Checked		Spec. Range	Actual Checked	
	1. Check/Verify control operation	Ok or No			detectiond	3. Check/Test water- detectiondevice		Ok or No	Ok
	2. Check/Test changeover device	Ok or No			4. Check/Test CAN connection between indoor and outdoor units			Ok or No	Ok
\mathbf{G}	Refrigeration Piping								
	Item Checked	Spec. Range	Actual	Checked		Item Checked		Spec. Range	Actual Checked
	1. Check refrigerant lines (clamps secure/no	Ok or No	Ok		3. Check for restriction				Clean
	rubbing/no leaks) 2. Check for moisture (sight glass)	Ok or No	Ok		temperature drop across filterdrier		Ok or No		
Ħ	Compressor Section								
		Spec. Range /	Cor	mp. 1	Co	Comp. 2 Cor		np. 3	
	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	Hz	4		1				
	(vibration/noise)	dB		1	1	1	1	1	1
			Ok	1 Ok	1 Ok	1 Ok	1 Ok	1 Ok	l Ok
	(vibration/noise) 8. Check crank-case	dB	Ok	Ok	1 Ok Ok	Ok	Ok		Ok
	(vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for	Ok or No							
	(vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for refrigerantleaks 10. Suction pressure Circuit 11. Discharge Pressure Circuit	dB Ok or No Ok or No 55 - 90 PsiG 200 - 300 PsiG	Ok 1						
	(vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for refrigerantleaks 10. Suction pressure Circuit 11. Discharge	Ok or No Ok or No 55 - 90 PsiG	Ok 1	Ok 1 1 1 1			Ok 1 1 1 1	Ok 1 1	Ok 1
	(vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for refrigerantleaks 10. Suction pressure Circuit 11. Discharge Pressure Circuit	dB Ok or No Ok or No 55 - 90 PsiG 200 - 300 PsiG	Ok 1 1 Ok	Ok 1 1 1 Ok	Ok 1 1 1 Ok	Ok 1 1 1 Ok	Ok 1 1 1 Ok	Ok 1 1 Ok	Ok 1 1 Ok
	(vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for refrigerantleaks 10. Suction pressure Circuit 11. Discharge Pressure Circuit 12. Superheat Circuit 13. Low-pressure	Ok or No Ok or No 55 - 90 PsiG 200 - 300 PsiG	Ok 1 1	Ok 1 1 1 1	Ok 1 1 1 1	Ok 1 1 1 1	Ok 1 1 1 1	Ok 1 1 Ok	Ok 1 1
	(vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for refrigerantleaks 10. Suction pressure Circuit 11. Discharge Pressure Circuit 12. Superheat Circuit 13. Low-pressure switchcut out Circuit 14. Low pressure cut	dB Ok or No Ok or No 55 - 90 PsiG 200 - 300 PsiG	Ok 1 1 Ok	Ok 1 1 1 Ok	Ok 1 1 1 Ok	Ok 1 1 1 Ok	Ok 1 1 1 Ok	Ok 1 1 Ok Ok Ok	Ok 1 1 Ok

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

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1. Coil clean of debris (Clean coil ifrequired)			Clean Clean or Dirty		Clean		
\vdash	2. Fans free of debris		Clean or Dirty	Clean Clean			
H	3. Fans securely mounted		1	1	1		
H	4. Motor bearings in good		1	11	1		
H	5. Check all refrigerant lin			Ok	Ok		
	vibration	105 101	Ok or No	JOK .			
	isolation. Support as neces	ssary					
	6. Check for refrigerant le		Ok or No	Ok	Ok		
	7. Check surge-protection	device	OI N	Ok	Ok		
Ш	(ifinstalled) status-indicat		Ok or No				
	8. Check/Re-torque wire c		Ok or No	Ok	Ok		
	9. Check contactors for pi 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 Tem	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 amp draw	_	FLA = A	L1/L2/L3 =	L1/L2	2/L3 =	
	12. Mow amp way		FLA A				
				Amp	A	mp	
J	General Function					C	
	Item Checked	Spec. Range	Actual Checked	Item Check	ed	Spec. Range	Actual Checked
	1. Cooling Test	Ok or No		4. Dehumidification T	`est	Ok or No	
				5. Alarm Test		Ok or No	
	2. Heating Test	OK or No					
	3. Humidification Test	Ok or No Ok or No					
K							
K	3. Humidification Test		Actual Checked	Item Check	ed	Spec. Range	Actual Checked
K	3. Humidification Test Room Condition Item Checked	Ok or No			ed		
K	3. Humidification Test Room Condition	Ok or No		Item Check 2. Humidity	ed	Range	
	3. Humidification Test Room Condition Item Checked 1. Temperature	Ok or No Spec. Range		2. Humidity	ed	Range	
Ten	3. Humidification Test Room Condition Item Checked 1. Temperature nuan :	Ok or No Spec. Range	Checked	2. Humidity	ed	Range	
Ten	3. Humidification Test Room Condition Item Checked 1. Temperature	Ok or No Spec. Range	Checked NO1	2. Humidity	ed	Range	
Ten	3. Humidification Test Room Condition Item Checked 1. Temperature nuan :	Ok or No Spec. Range	Checked	2. Humidity	ed	Range	
Ten	3. Humidification Test Room Condition Item Checked 1. Temperature nuan: comendasi:	Ok or No Spec. Range ?C	Checked NOT RESU	2. Humidity TES JME		Range %	
Ten	3. Humidification Test Room Condition Item Checked 1. Temperature nuan :	Ok or No Spec. Range ?C	Checked NO1	2. Humidity TES JME		Range	
Ten	3. Humidification Test Room Condition Item Checked 1. Temperature nuan: comendasi:	Ok or No Spec. Range ?C	NOT RESU ? NO, please check or	2. Humidity TES UME n NOTES		Range %	
Ten	3. Humidification Test Room Condition Item Checked 1. Temperature nuan: comendasi:	Ok or No Spec. Range ?C	Checked NOT RESU ? NO, please check of	2. Humidity TES UME n NOTES		Range %	
Ten	3. Humidification Test Room Condition Item Checked 1. Temperature nuan: comendasi: JOB COMPLETED ?	Ok or No Spec. Range ?C	NOT RESU ? NO, please check or	2. Humidity TES UME n NOTES DVAL ING		Range % GHOURS:	
Ten	3. Humidification Test Room Condition Item Checked 1. Temperature nuan: comendasi: JOB COMPLETED ?	Ok or No Spec. Range ?C	Checked NOT RESU ? NO, please check of APPRO SIGN Verified B	2. Humidity TES UME n NOTES DVAL UING By		Range % GHOURS:	Checked Service By
Ten	3. Humidification Test Room Condition Item Checked 1. Temperature nuan: comendasi: JOB COMPLETED ?	Ok or No Spec. Range ?C	Checked NOT RESU ? NO, please check of APPRO	2. Humidity TES UME n NOTES DVAL UING By		Range % GHOURS:	Checked
Ten	3. Humidification Test Room Condition Item Checked 1. Temperature nuan: comendasi: JOB COMPLETED ?	Ok or No Spec. Range ?C	Checked NOT RESU ? NO, please check of APPRO SIGN Verified B	2. Humidity TES UME n NOTES DVAL UING By		Range % GHOURS:	Checked Service By
Ten	3. Humidification Test Room Condition Item Checked 1. Temperature nuan: comendasi: JOB COMPLETED ?	Ok or No Spec. Range ?C	Checked NOT RESU ? NO, please check of APPRO SIGN Verified B	2. Humidity TES UME n NOTES DVAL UING By		Range % GHOURS:	Checked Service By

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