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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
Lokasi :		Model Unit:			Tourn Engineer Eise.			Date : Start PM :	
Code unit:		No. Seri :							
Nor	nor Unit :	Periode :			1			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	V
	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 1 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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J.	Electrical Panel								
	Item Checked	Spec. Range / Cond. Std.	Actual Checked					Keterangan	
i		condi stai		Before			After		
	4. Voltage Line to Neutral Ground	220 + 10%	L1/L2/L3 = 1 L1L2/L2L3/L1L3 = 1 V F = 1		V			V	1
	5. Voltage Line to Line	380 + 10%							1
	6. Frequency	50 + 10%			Hz	F = 1		Hz	1
F	Controls								
	Item Checked	Spec. Range / Cond. Std.	Ok		3. Check/Test water-detectiondevice 4. Check/Test CAN connection between indoor and outdoor units		Spec. Range	Actual Checked	
	1. Check/Verify control operation	Ok or No					Ok or No	Ok	
	2. Check/Test changeover device	Ok or No					Ok or No	Ok	
G	Refrigeration Piping								
	Item Checked	Spec. Range	Actual	Checked	1	tem Check	ed	Spec. Range	Actual Checked
	1. Check refrigerant lines		Ok						Clean
	(clamps secure/no	Ok or No			3 Check fo	or restrictio	n		
	rubbing/no leaks)	OK OI NO			3. Check for restriction temperature drop across				
			Ok		filter drier	ic drop aci	OSS	Ok or No	
	2. Check for moisture	Ok or No	OK						
	(sight glass)	011 01 1 10							
H	Compressor Section								
	Item Checked	Spec. Range /		np. 1	Comp. 2 Con		np. 3	Keterangan	
	Tiem Checked	Cond. Std.	Before	After	Before	After	Before	After	Keterangan
ı	1. Ampere draw	OA··· A		1					
l	A C1 1 11 1								
	2. Check oil level	55 - 90 PsiG							
	3. Check for oil leaks	55 - 90 PsiG 200 - 300 PsiG							
	3. Check for oil leaks 4. Check compressormounts	200 - 300 PsiG							
	3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box)	200 - 300 PsiG Ok or No							
	3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (vibration/noise)	Ok or No Ok or No							
	3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (vibration/noise) 8. Check crank-case heater fuses/operation	Ok or No Ok or No Ok or No Ok or No Hz							
	3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (vibration/noise) 8. Check crank-case	Ok or No Ok or No Ok or No							
	3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for	Ok or No							
	3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for refrigerantleaks 10. Suction	Ok or No							
	3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for refrigerantleaks 10. Suction pressure Circuit 11. Discharge	Ok or No							
	3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (vibration/noise) 8. Check crank-case heater fuses/operation 9. Check for refrigerantleaks 10. Suction pressure Circuit 11. Discharge Pressure Circuit	Ok or No Ok or No Ok or No							
	3. Check for oil leaks 4. Check 4. Check 4. Check 4. Check 5. Compressormounts 6. Check/Re-torque 6. Check/Re-torque 7. Compressor 7. Compressor 7. Compressor 7. Compressor 8. Check crank-case 8. Check crank-case 9. Check for 7. Check for 7. Compressor 9. Check for 8. Check crank-case 8. Check crank-case 8. Check crank-case 9. Check for 8. C	200 - 300 PsiG Ok or No Ok or No Ok or No							
	3. Check for oil leaks 4. Check compressormounts (springs/bushings) 5. Cap tubes (not rubbing) 6. Check/Re-torque wireconnections (inside compressor box) 7. Compressor operation (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	200 - 300 PsiG Ok or No Ok or No Ok or No Hz dB Ok or No Ok or No 200 - 300 PsiG 200 - 300 PsiG ?C Ok or No							

Condensor Section				
Item Checked	Spec. Range	Before	After	Keterangan

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1. Coil clean of debris (Clean coil ifrequired)		Clean or Dirty					
	2. Fans free of debris		Clean or Dirty				
	3. Fans securely mounted						
	4. Motor bearings in good						
	5. Check all refrigerant lin						
	vibration		Ok or No				
	isolation. Support as nece	essary	İ				
	6. Check for refrigerant leaks		Ok or No				
	7. Check surge-protection (ifinstalled) status-indicat	n device	Ok or No				
	8. Check/Re-torque wire o		Ok or No				
	9. Check/Re-torque wire connections 9. Check contactors for pitting (replace ifpitted)		Ok or No				
	10. Verify operation seque	ence/set points					
	11. Charge verification:	•					
	a. Outdoor Ambient Tem	perature					
	b. Subcooling	permunt					
	c. Indoor-unit Return-air	Temperature					
	d. Sight-glass level (if Lee-						
$oxed{oxed}$	orpumped refrigerant)			11/12/12	T 1/T 2	27.2	
	12. Motor amp draw		FLA = A	L1/L2/L3 =		2/L3 =	
	•			Amp		 mp	
Ą	General Function			Allip	71	mp	
J	General Function					Spac	
	Item Checked Spec. Range		Actual	Item Checke	Spec. Range		Actual
		Speet Tuninge	Checked			Kange	Checked
	1. Cooling Test	Ok or No	Checked	4. Dehumidification T	est	Ok or No	Checked
	1. Cooling Test 2. Heating Test	Ok or No Ok or No	Checked	4. Dehumidification T 5. Alarm Test	est	Ü	Checked
	1. Cooling Test 2. Heating Test 3. Humidification Test	Ok or No	Checked		est	Ok or No	Checked
K	1. Cooling Test 2. Heating Test	Ok or No Ok or No	Checked		est	Ok or No Ok or No	Checked
K	1. Cooling Test 2. Heating Test 3. Humidification Test	Ok or No Ok or No	Checked Actual Checked			Ok or No	Checked Actual Checked
K	1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition	Ok or No Ok or No Ok or No	Actual	5. Alarm Test		Ok or No Ok or No Spec.	Actual
K	1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked	Ok or No Ok or No Ok or No Spec. Range	Actual Checked	5. Alarm Test Item Checke 2. Humidity		Ok or No Ok or No Spec. Range	Actual
	1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature	Ok or No Ok or No Ok or No Spec. Range	Actual	5. Alarm Test Item Checke 2. Humidity		Ok or No Ok or No Spec. Range	Actual
Ten	1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature	Ok or No Ok or No Ok or No Spec. Range	Actual Checked	5. Alarm Test Item Checke 2. Humidity		Ok or No Ok or No Spec. Range	Actual
Ten	1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature	Ok or No Ok or No Ok or No Spec. Range	Actual Checked NOT	5. Alarm Test Item Checke 2. Humidity ES		Ok or No Ok or No Spec. Range	Actual
Ten	1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature	Ok or No Ok or No Ok or No Spec. Range	Actual Checked	5. Alarm Test Item Checke 2. Humidity ES		Ok or No Ok or No Spec. Range	Actual
Ten	1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature	Ok or No Ok or No Ok or No Spec. Range	Actual Checked NOT	5. Alarm Test Item Checke 2. Humidity ES	ed	Ok or No Ok or No Spec. Range	Actual
Ten	1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature muan: comendasi:	Ok or No Ok or No Ok or No Spec. Range	Actual Checked NOT	5. Alarm Test Item Checke 2. Humidity ES	ed	Ok or No Ok or No Spec. Range	Actual
Ten	1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature muan: comendasi:	Ok or No Ok or No Ok or No Spec. Range	Actual Checked NOT RESU ? NO, please check on	5. Alarm Test Item Checke 2. Humidity ES ME NOTES	ed	Ok or No Ok or No Spec. Range	Actual
Ten	1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature muan: comendasi:	Ok or No Ok or No Ok or No Spec. Range	Actual Checked NOT	5. Alarm Test Item Checke 2. Humidity ES ME A NOTES	ed	Ok or No Ok or No Spec. Range	Actual
Ten	1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature muan: comendasi:	Ok or No Ok or No Ok or No Spec. Range	Actual Checked NOT RESU ? NO, please check on	5. Alarm Test Item Checke 2. Humidity ES ME A NOTES OVAL ING	ed	Ok or No Ok or No Spec. Range%	Actual
Ten	1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature muan: comendasi: JOB COMPLETED ?	Ok or No Ok or No Ok or No Spec. Range	Actual Checked NOT RESU ? NO, please check on APPRO SIGNI Verified B	5. Alarm Test Item Checke 2. Humidity ES ME NOTES OVAL ING	ed	Ok or No Ok or No Spec. Range%	Actual Checked
Ten	1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature muan: comendasi: JOB COMPLETED ?	Ok or No Ok or No Ok or No Spec. Range	Actual Checked NOT RESU ? NO, please check on APPRO SIGNI	5. Alarm Test Item Checke 2. Humidity ES ME NOTES OVAL ING	ed	Ok or No Ok or No Spec. Range%	Actual Checked
Ten	1. Cooling Test 2. Heating Test 3. Humidification Test Room Condition Item Checked 1. Temperature muan: comendasi: JOB COMPLETED ?	Ok or No Ok or No Ok or No Spec. Range	Actual Checked NOT RESU ? NO, please check on APPRO SIGNI Verified B	5. Alarm Test Item Checke 2. Humidity ES ME NOTES OVAL ING	ed	Ok or No Ok or No Spec. Range%	Actual Checked

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