

Air-To-Water Heat Pump Servicing and Commissioning

** Not required for commissioning*

SYSTEM DETAILS

DATE	NAME OF SERVICE TECHNICIAN
HEAT PUMP SERIAL NO.	CUSTOMER
ADDRESS	

INITIAL CHECKS

HEAT PUMP CHECKS

- | | |
|---|---|
| 1. FAN GRILLS FREE FROM DEBRIS * | 2. ENSURE THE HEAT PUMP HAS FREE AIR SPACE (NO PLANTS OR EQUIPMENT WITHIN MIN. CLEARANCE) |
| <input type="checkbox"/> No debris <input type="checkbox"/> Cleaned | <input type="checkbox"/> OK <input type="checkbox"/> Cleaned |

SYSTEM WATER

- | | |
|--|--|
| 3. REMOVE WATER FILTER AND CLEAN * | 4. CHECK SYSTEM WATER PRESSURE * |
| <input type="checkbox"/> Done <input type="checkbox"/> No filter | BEFORE: AFTER TOPPING UP: |
| 5. CHECK FOR WATER LEAKS | 6. DROP SYSTEM PRESSURE AND ADD FERNOX REFILL SYSTEM TO 1.1 BAR (SYSTEM COLD) |
| <input type="checkbox"/> Leaks <input type="checkbox"/> No leaks | <input type="checkbox"/> Done |
| 7. CHECK EXTERNAL PIPEWORK INSULATION / PROTECTION FROM UV | 8. CHECK FOR CORROSION * |
| <input type="checkbox"/> Done <input type="checkbox"/> Repaired | <input type="checkbox"/> None <input type="checkbox"/> A little <input type="checkbox"/> Some <input type="checkbox"/> A lot |

CONTROL RESPONSE

9. CHECK THAT HEAT PUMP OR HEATING SYSTEM TURNS ON AND OFF IN RESPONSE TO CONTROLS
- OK Not OK

WHEN HEAT PUMP IS RUNNING

SYSTEM FLOW RATE

- | | |
|---|---|
| 10. CHECK FLOW ON UF MANIFOLD FLOW METERS
RECORD RESULT: | 11. HEAT PUMP FLOW METER IF UNIT HAS ONE
RECORD RESULT: <input type="checkbox"/> No flow meter |
|---|---|

REFRIGERANT CIRCUIT

- | | |
|---|--|
| 12. CHECK SIGHT GLASS WHEN HEAT PUMP IS RUNNING TO SEE IF REFRIGERANT CAN BE SEEN OR IF THERE ARE BUBBLES, BUBBLES? | 13. CHECK FOR EVIDENCE OF REFRIGERANT LEAKS IN COMPRESSOR AREA * |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Leak <input type="checkbox"/> No leak |
| BUBBLE COLOUR? | 14. MAKE SURE CAPS ARE TIGHT * |
| <input type="checkbox"/> Yellow <input type="checkbox"/> Green | <input type="checkbox"/> Done |

RECORD SENSOR VALUES WHEN THE HEAT PUMP IS RUNNING					
	ELIWELL CONTROLLER		NADI CONTROLLER		COMPRESSOR HOURS
RETURN WATER TEMP	AI L1	$\Delta T(L2-L1)$	0900	$\Delta T(L2-L1)$	RESET?
FLOW WATER TEMP	AI L2		0901		
OUTSIDE AIR TEMP	AI L3		0903		<input type="checkbox"/> Yes <input type="checkbox"/> No
REFRIGERANT PRESSURE	AI L4		0906		
DHW SENSOR TEMP	AI L5	<input type="checkbox"/> N/A	0902	<input type="checkbox"/> N/A	

VERIFICATION

15. CONFIRM THAT HEAT IS GETTING TO EACH ZONE (DHW, UNDERFLOOR (MANIFOLDS), RADIATORS, SWIMMING POOL)
 Yes No

ONGOING PROTECTION

16. FIT TAG TO POWER ISOLATOR WARNING OF NO FROST PROTECTION IF POWER ISOLATED <input type="checkbox"/> Done <input type="checkbox"/> Already fitted	17. CLEAN THE EXTERNAL CASE AND MAYBE USE KOIL KOTE ON SCREWS, BOLTS AND PIPE FITTINGS <input type="checkbox"/> Done
18. CHECK CONDENSATE DRAINS ARE NOT BLOCKED <input type="checkbox"/> Done	19. VACUUM OUT EVAPORATOR COIL AND DRAIN TRAY AREA * <input type="checkbox"/> Done
20. CLEAN THE MAGNETIC SYSTEM FILTER * <input type="checkbox"/> Done <input type="checkbox"/> No filter installed	

NOTES