



Maintenance and Inspection Report

AHU 02 · Air handling unit · EQ-00076

Report no.	WP-2026-151	Date	8 Sep 2026
Customer	Riverside DC GmbH	On site	08:30–15:30
Site	Production South, Giessen	Ticket	TK-2026-151
Equipment	AHU 02 (EQ-00076) · Ventilation	Performed by	Technician, JuKoTech GmbH
Service	Six-monthly maintenance to VDMA 24186-1 with visual hygiene check to VDI 6022 Part 1		

1 Equipment data

Design	Supply/extract unit with heat recovery, indoor installation	Fans	EC direct drive, supply and extract
Airflow	Supply 6,500 m³/h · extract 6,200 m³/h	Heat recovery	Plate heat exchanger with bypass damper
Coils	LPHW heating coil · chilled-water cooling coil	Filters	Supply ISO ePM1 55% · extract ISO ePM10 50%
Humidifier	none	Controls	Existing controller – upgrade under proposal 2041 in progress

2 Checklist and measured values

No.	Check	Target / limit	Measured / finding	Result
Filters				
1	Filter differential pressure, supply, ISO ePM1 55%	Final 250 Pa	236 Pa before · 92 Pa after replacement	replaced
2	Filter differential pressure, extract, ISO ePM10 50%	Final 200 Pa	171 Pa before · 64 Pa after replacement	replaced
3	Filter frames, seals, bypass tightness	tight, undamaged	tight; access door seal on supply filter section slightly brittle	Note
Fans and drives				
4	Fan current, supply (EC)	max. 4.6 A (rated)	3.8 / 3.9 / 3.8 A (L1/L2/L3)	OK
5	Fan current, extract (EC)	max. 4.1 A (rated)	3.4 / 3.4 / 3.5 A (L1/L2/L3)	OK
6	Bearings, running noise, vibration	smooth running, no imbalance	no findings	OK

No.	Check	Target / limit	Measured / finding	Result
7	V-belt	—	n/a – EC direct drive	n/a
Air-side measurements				
8	Supply air temperature	Setpoint 20.0 °C ±1 K	20.3 °C	OK
9	Extract air temperature	—	23.1 °C	Info
10	Outdoor air temperature	—	17.8 °C	Info
11	Airflow, supply	6,500 m³/h ±10%	6,470 m³/h (after filter replacement)	OK
12	Airflow, extract	6,200 m³/h ±10%	6,150 m³/h	OK
Hygiene, heat exchangers, condensate				
13	Visual hygiene check to VDI 6022 Part 1 (sections, silencers, coils)	no soiling, no visible microbial growth	no findings	OK
14	Condensate tray, drain, trap	drain clear, trap filled	cleaned, disinfected, trap refilled	OK
15	Plate heat exchanger, bypass damper	clean, damper moves freely	no findings, end positions checked	OK
16	Heating and cooling coils (fins, valves)	clean, valve stroke OK	no findings	OK
Safety and controls				
17	Frost protection, heating coil	trips at 5.0 °C	tripped at 5.2 °C; fan off, valve open, outdoor air damper closed	OK
18	Dampers and actuators	end positions reached	outdoor and exhaust air dampers checked	OK
19	BMS signals: run, fault, filter, frost, temperatures	transmitted to BMS and JuKo platform	all signals checked, values plausible	OK
20	Control panel, terminals, isolators	visual check, terminals tight	terminals re-tightened	OK

3 Findings and actions

1. The increased filter pressure drop reported by the anomaly detection on 14 Aug 2026 was confirmed. Supply and extract filters were replaced; the differential pressure is back in the normal range.
2. The access door seal on the supply filter section is slightly brittle. Replacement recommended at the next service; no effect on operation.
3. The controls upgrade (proposal 2041) is in progress. All measurements were taken with the existing controller.
4. A hygiene inspection to VDI 6022 Part 1 was not part of this visit; the visual hygiene check was carried out as part of the maintenance.

Result: Unit handed back ready for operation – no safety-relevant defects.

4 Replaced parts

Item	Part	Class (ISO 16890)	Size	Qty
1	Bag filter, supply	ISO ePM1 55%	592 × 592 × 600 mm	3 pcs
2	Bag filter, extract	ISO ePM10 50%	592 × 592 × 600 mm	3 pcs

Old filters disposed of properly; filter change marked with the date on the filter sections.

5 Next service

Due	8 Mar 2027	Interval	six-monthly
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6 Confirmation

Approved in the client portal on 8 Sep 2026.

Technician – JuKoTech GmbH

Customer – Riverside DC GmbH (site management)

Giessen, 8 Sep 2026
Name, signature

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Name, signature