Rotary heat exchangers

Commissioning record | Maintenance record

Hoval

Project

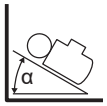
Company	
Address	
Contact	

Rotary heat exchanger

Hoval order No.	
Serial number	
Type code	

Checks during commissioning and maintenance to ensure efficient and trouble-free operation		OK
Visual check	There is no visible damage due to transport or handling.	☐
Assembly check	Airflow through the rotary exchanger corresponds to the arrows on the casing.	☐
	The wheel is aligned vertically and horizontally in the casing. (If necessary, readjust.)	☐
	The exchanger is properly secured in the ventilation unit and anti-vibration mounts are installed.	☐
	The cables are properly installed and do not rub against the wheel.	☐
	The casing stands on a horizontal, stable base (usually on the base of the AHU).	☐
	For horizontal installation: ■ The casing is supported over a wide area with additional support for the shaft.	☐
	For segmented wheel construction: ■ The wheel is mounted correctly according to the instructions.	☐
	The V-belt is properly tensioned and does not rub against the casing. For motors installed on a bracket: ■ Check the angle of the bracket and, if necessary, shorten the belt.	☐
	The wheel can be turned easily by hand.	☐
	The brush seals fit tightly on the wheel or the end wall of the casing over the entire length. (If necessary, readjust the seals.)	☐
	The purge sector is installed in the correct position.	☐
Function check	The wheel's direction of rotation corresponds to the direction indicated by the arrow. (If necessary, correct the electrical connection.)	☐
	The wheel reaches the optimum speed: ■ max. 12 min^{-1} for design ST1 / ST3 / SC1 / SE3 ■ max. 20 min^{-1} for design SH1 / HM1 (If necessary, correct the setting in the controller.)	☐
	The rotation guard is functioning properly.	☐

Drive system	K1, K3, K5, V0, V1	V6	V7
Ø ≤ 1000 mm	α = 10°-15°	α = 10°-15°	firmly installed
Ø 1001-1479 mm	firmly installed		
Ø ≥ 1480 mm	α = 30°-35°		



Enclose this record to the review documents.

Test run	Perform a test run with fans switched on. ■ The drive is functioning without problems. ■ The brush seals fit tightly over the entire length. (If necessary, adjust the inclination of the wheel in the casing.) Remove any production chips blown out during the test run.	☐
	Check that the rotary heat exchanger is operating within the specified limits: ■ Is the volume flow rate within the specified range? ■ Is the pressure drop within the permissible range? Measure and record both values. Volume flow _____ m³/h Pressure drop _____ Pa	☐
Monitoring work after 4 hours of operation	■ For segmented wheel construction: – Retighten the clamping screws of the peripheral plates (torque 40 Nm, always tighten 2 diagonally opposite screws one after the other) ■ Check and adjust the seals and drive belt if necessary. ■ Additional cleaning may be necessary. Remove production chips and abrasion.	☐

Place	*Date*	*Signature*