

Maintenance Schedule

WP07050642

Page 1 of 2

Title:

Maintenance Schedule of KONVEKTA Heat pumps R744 (CO2)

Date: 21.09.2021

Scope of application:

Maintenance personnel

Ablage: WP07050642-R01 WP Wärmepumpe R744_englisch

Item	Maintenance- / Repair Features	Approx. expenditure of time in minutes	Test values / -settings - Comments	Maintenance Intervals					
				A	B	C	D		
WK									
1.	Check all air filters (including Frontbox) for contamination	10 min.	Visual check, clean, replace if necessary	X					
2.	Check compressor oil level (sight glass). No oil change required in the hermetic system!	10 min.	The oil level must be visible in the sight glass after 5 minutes of equipment start-up (Bock HRX40-2 no oil change required) (BITZER 4MTE-10Z-40S no oil change required)		X				
3.	Check screw connections of the compressor and bracket for tightness	5 min.			X				
4.	Check the evaporator and gas cooler heat exchanger for potential contaminations	15 min.	Visual check, if necessary clean and align fins			X			
5.	Check the operation of all air flaps (incl. Frontbox)	10 min.	Visual and functional check			X			
6.	Check the operation of all water valves	15 min.	Visual and functional check			X			
7.	Check all water pumps for proper operation	10 min.	Visual and functional check			X			
8.	Check the operation of all solenoid valves (refrigeration circuit), including electronic expansion valves	15 min.	Visual and functional check			X			
9.	Check the operation of all fans and blowers (including front box)	10 min.	Visual and functional check			X			
10.	Check cooling and heating lines for leaks and position	15 min.	Visual inspection for abrasions and leaks			X			
11.	Functional check of the additional heater	15 min.	Visual and functional check			X			
12.	Check function of the high pressure switch	5 min.	OFF: 126 bar / ON: 80 bar +/-6bar			X			

Pos.	Maintenance- / Repair Features	Approx. expenditure of time in minutes	Test values / -settings - Comments	Maintenance Intervals				
				A	B	C	D	
WK								
13.	Check the electric cables, plug-in connections, fuses and sensors	15 min.	Visual inspection for corrosion and abrasion. Check plug connections and electrical connections for tight fit.			X		
14.	Functional check (heating – cooling) including diagnosis. Reading error memory	30 min.	Functional check of the entire system			X		
15.	Clean the filter strainer in the roof system and replace the sealing. At initial setup (at the factory), then only necessary after soldering within the circuit	15 min	Use new sealing rings, corresponding ET number according ET list.					(X)
A	Quarterly maintenance							
B	Half-yearly maintenance							
C	Annual maintenance							
D	3 years maintenance							

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