COMMISSIONING RECORD

KTS Water Heater - cascade heater 1 - 4

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Process number | Order number

Date	
Project	
KEMPER employees	
Manufacturer	
Operator	

Water heater serial number	
H 1	
H 2	
H 3	
H 4	

H = Heater

No. 1 Water heater general function

	H 1	H 2	H 3	H 4	Comment
	OK				
// Correct electric connections	☐	☐	☐	☐	
// Check pump function	☐	☐	☐	☐	
// Temperature sensor - values plausible	☐	☐	☐	☐	
// Volume flow sensor - value plausible	☐	☐	☐	☐	
// Temperature sensor set (S8 + S9) installed (only Heater 1)	☐	☐	☐	☐	
// Check water heater for leaks	☐	☐	☐	☐	
// Check function of quarter turn stop valve actuator	☐	☐	☐	☐	
// Pressure relief valve connected to drain	☐	☐	☐	☐	

No. 2 ThermoTank/heat generation

	OK	Comment
// Expansion vessel installed	☐	
// Heating system vented	☐	
// Magnetic/sludge separator installed	☐	
// Temperature sensor correctly installed	☐	
// Temperatures in tank plausible	☐	
// reverse return/hydraulic circuit OK	☐	

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No. 3 Commissioning wizard

// Plant type Single unit or heater (heater number)		
	Yes	**Comment**
// Circulation	☐	
// Re-loading	☐	
// Return stratification	☐	
// Flushing function	☐	
// Set date and time	☐	

No. 4 Water heater controller function

	Yes				**Comment**
// Check if latest software version installed	☐	☐	☐	☐	
// Tank re-loading - check function (only Heater 1)	☐	☐	☐	☐	
// Fault message contact - check function (only Heater 1)	☐	☐	☐	☐	
// Check internal bus communication	☐	☐	☐	☐	
// Check cascade rotation (if present)	☐	☐	☐	☐	
// Read out and check SD card (only Heater 1)	☐	☐	☐	☐	

No. 5 Extended controller settings

						Comment
// Module type L or M						
// External ModBus ID						
// Cascade rotation after hours (h)						
// Tank re-loading switching function:						
$\Delta\vartheta$ On (K)						
$\Delta\vartheta$ Off (K)						
// Optimisation:						
rev. speed						
Interval						
// PW generation approved	☐	☐	☐	☐	**OK**	
// Controller settings plausible	☐	☐	☐	☐	**OK**	
// PWH temperature (°C)					**60**	

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No. 6 Circulation pump

	OK	Comment
// Circulation pump - check control (Heater 1 or 2)	☐	
// Circulation pump in operation	☐	
// Pump mode: Check constant pressure setting	☐	
// Timer program ☐ // Continuous operation ☐		

No. 7 3-directional reversing valve/Return stratification

	OK	Comment
// Check function andinstallation position	☐	
// Type: Thermostat ☐ or difference ☐		
// T on		
// Hysteresis (T off; with difference)		

No. 8 Flush point

	OK	Comment
// Overflow sensor activated	☐	
// Check functioning	☐	
// Flushing interval (h)		
// Flushing duration (min.)		

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No. 9 **Water analysis application limits**
Plate heat exchanger

Limit values	Fig. 915 Copper-soldered	Fig. 925 Stainless steel
// ph value	7 - 9	6 - 10
// Total hardness (°dH)	6 - 15	6 - 15
// Electrical conductivity (µS/cm)	10 - 500	-

Measured values drinking water	Fig. 915 Copper-soldered	Fig. 925 Stainless steel	Comment
// ph value			
// Total hardness (°dH)			
// Electrical conductivity (µS/cm)			

Measured values heating water	Fig. 915 Copper-soldered	Fig. 925 Stainless steel	Comment
// ph value			
// Total hardness (°dH)			
// Electrical conductivity (µS/cm)			

Comments

According to DIN EN 806, Part 5, it is necessary to conduct the necessary maintenance and repair work on water heaters at annual intervals. Failure to do so will invalidate the warranty!

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No. 10 Instruction on KTS System carried out correctly

First name	Name	Company	Signature

No. 11 KTS System handed over correctly functioning

☐ incl. cascade heater 5 - 8 (signature valid for both protocols)

Town, date

Place, date

Client – name in block letters

Service technician – name in block letters

Client's signature

Service technician's signature

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Gebr. Kemper GmbH + Co. KG | Harkortstraße 5 | D-57462 Olpe | Tel. +49 2761 891-0 | info@kemper-group.com| www.kemper-group.com