

Commissioning expert technician

Expert technician:

Commissioning date:

OEG customer number:

Location/Customer address:

Serial number heat pump: AC _ _ _ _ _ DBP _ _ _ _ _

Construction year of building:

New building:

Existing building:

Building heating load
(in accordance with DIN EN 12831):

Heat distribution system
(underfloor heating, panel radiators,
radiators, convectors, wall heating):

DHW heating with heat pump: ☐ yes ☐ no

Free fax number:

EU 00 800-63 43 29 24

Email:

sales@oeg.net

Activity	Done	Remark
Heat pump connection application to electricity supplier	☐	
Electrical connection acc. to wiring diagram	☐	
Have the installation clearances been observed?	☐	
Have the safety clearances (R290!) been observed?	☐	
Visual inspection of heat pump for damages inside and outside	☐	
Which hydraulic diagram from the operating instructions has been chosen?		
1 st storage tank used		manufacturer, type:
2 nd storage tank used		manufacturer, type:
Solar system	yes ☐ no ☐	manufacturer, type:
Changeover valve heating/hot water	yes ☐ no ☐	manufacturer, type:
Changeover valve heating/cooling	yes ☐ no ☐	manufacturer, type:
Pre-charge pressure and size external expansion vessel	Bar	manufacturer, type, size:
Pre-charge pressure internal expansion vessel	Bar	
System pressure	Bar	
If required: Has an auxiliary pump been installed?	yes ☐ no ☐	manufacturer, type, size:
Has a strainer/dirt separator been installed?	yes ☐ no ☐	manufacturer, type, size:
Has the system been flushed?	yes ☐ no ☐	
Has the system been filled with antifreeze?	Vol. %	manufacturer, type:
Volume flow acc. to display at controller	l/min	
Nominal flow rate reached acc. to type plate	m ³ /h	
Visual heat pump inspection for leakages	☐	
Has the system been vented?	☐	

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Activity	Done	Remark
Piping supply/return heat pump, cross section	mm	total length, material:
Condensation drain connected	☐	
Have date and time been set?	☐	
Which operating mode has been selected?		
Design temperature supply	°C	
Design temperature return	°C	
Bivalence point	°C	
Activation Auto temperature and heating curve adjustment	☐	
Electrical booster heater	☐	manufacturer, type, output:
2 nd heat generator		manufacturer, type, output:
After 10-minute operating time:		
Supply heat pump	°C	
Return heat pump	°C	
Air inlet	°C	
Air outlet	°C	
High pressure refrigerant	Mpa	
Low pressure refrigerant	Mpa	
Has the installation company optimised the system parameters?	☐	
Have the modified system parameters been documented (list)?	☐	
Has a system diagram been created?	☐	
Have photos of the heat pump system been taken?	☐	
Have the documents been handed over to the final customer?	☐	
Briefing final customer	☐	
Miscellaneous		

The OEG heat pump has been connected and tested in accordance with the valid, accepted rules of technology (VDE 0100, 0701-0702, DIN EN 12828, 14336, 15450, 12831, VDI 2035, 4650, 4645) and OEG's installation and operating instructions.

Place | Date

Customer signature

Expert technician signature

Appendix 1: Parameter list

Appendix 2: System drawing / Hydraulic diagram

Appendix 1: Parameter list

No	Description	Range	Standard 6KW 650 001 330	Standard 9KW 650 001 331	Standard 12KW 650 001 332	Standard 18KW 650 001 333	modified
P00	ON/OFF	0: OFF 1: ON	0	0	0	0	
P01	Working mode	1: DHW heating 2: A/C heating 3: Hot water + A/C heating 4: A/C cooling 5: Hot water + A/C cooling	2	2	2	2	
P02	Heating target temperature	10~75 °C	45	45	45	45	
P03	Cooling target temperature	7~25 °C	12	12	12	12	
P04	DHW target temperature	10~70 °C (Value $\geq$ P35, only electric booster heater operation)	45	45	45	45	
P05	Room target temperature	10~35 °C	21	21	21	21	
P06	A/C Temperature difference	1~15 °C	5	5	5	5	
P07	DHW temperature difference	1~15 °C	5	5	5	5	
P08	A/C heating OTC curve max. temp. value (weather-compensated OTC curve)	35~70 °C	45	45	45	45	
P09	A/C heating OTC curve parallel shifting value (weather-compensated OTC curve)	-10~10 °C	0	0	0	0	
P10	Thermal sterilisation cycle	1~99 days	7	7	7	7	
P11	Thermal sterilisation start time	0~23 (time)	23	23	23	23	
P12	Thermal sterilisation run time	5~99 min.	10	10	10	10	
P13	Thermal sterilisation temperature	50~70 °C	70	70	70	70	
P14	Thermal disinfection mode selection	0-Auto 1-manual 2-OFF	2	2	2	2	
P15	Night mode start	0-23 (time)	22	22	22	22	
P16	Night mode end	0-23 (time)	6	6	6	6	
P17	Night mode OFF/ON	0-OFF 1-ON	0	0	0	0	
P18	Hot water AU OFF/ON	0-OFF 1-ON	0	0	0	0	
P19	A/C AU OFF/ON	0-OFF 1-ON	0	0	0	0	
P20	Working mode circulation pump	0: no stop. 1: stop when temp. reached 2: runtime: 1 min. every 15 min.	0	0	0	0	
P21	Frost protection interval circulation pump	5~50 min.	30	30	30	30	
P22	Ambient temp. to activate booster heater for heating (E2)	-30~20 °C	0	0	0	0	
P23	Ambient temp. to activate second energy source for DHW (E1)	-30~20 °C	0	0	0	0	
P24	Electrical booster heater to activate temperature parallel shift value	1~15 °C	5	5	5	5	
P25	A/C frost protection temperature	-15~5 °C	3	3	3	3	
P26	Multi-control defrost interval	0~4 0: no defrost 1-4 defrost interval time multiple rate	1	1	1	1	
P27	First defrost interval	15~99 min.	50	50	50	50	
P28	Defrost selection	0: Auto 1: Manual defrost (after defrost back to default 0)	0	0	0	0	
P29	Evaporator temperature to activate defrost	-8~5 °C	-3	-3	-3	-3	
P30	Evaporator temperature to de-activate defrost	5~30 °C	20	20	20	20	
P31	Max. defrost time	2~20 min.	12	12	12	12	
P32	EEV control mode	0: no 1: test chart 2: manual 3: suction gas superheat 4: discharge gas superheat	3	3	3	3	
P33	EEV manually initiate opening steps (heating)	50~480 (only valid if P32=2)	400	400	400	400	
P34	EEV manually initiate opening steps (cooling)	50~480	400	400	400	400	
P35	In DHW mode, highest water temperature for running compressor	0~70 °C	70	70	70	70	
P36	Time interval between compressor and E1 commissioning (reserved)	0~999 min.	5	5	5	5	
P37	Temperature difference for variable DC fan speed (heating)	2~15 °C	6	6	6	6	
P38	Temperature difference for variable DC fan speed (cooling)	3~18 °C	8	8	8	8	
P39	Selection of compressor model (reserved)	0~999	358	59	73	69	
P40	Setting of compressor frequency	0: manual 1: auto	1	1	1	1	
P41	Compressor oil return frequency	10~100 Hz	50	50	50	50	
P42	Compressor frequency limiting current	1~50A	11	14	6	9	

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P43	Compressor frequency reduction current	1~50A	13	16	8	11	
P44	Compressor frequency shutdown current	1~50A	15	18	9	13	
P45	Maximum running frequency	50~120 Hz	90	90	85	85	
P46	Minimum running frequency	0~90 Hz	35	35	35	35	
P47	Defrost running frequency	30~90 Hz	65	65	65	65	
P48	Maximum frequency DHW	2~10 (max. frequency x 20~100%)	10	10	10	10	
P49	DHW maximum frequency	0~99	0.2	0.2	0.2	0.2	
P50	Discharge superheat differential coefficient. desired superheat degree in percent	0~99	1	1	1	1	
P51	High pressure value to limit compressor frequency rising	2.0~4.5MPa (display value multiply 0.1)	29.5	29.5	29.5	29.5	
P52	High pressure value to cancel compressor frequency limit	2.0~4.5MPa (display value multiply 0.1)	26	26	26	26	
P53	Protection pressure (high)	2.5~5.0MPa (display value multiply 0.1)	32	32	32	32	
P54	Protection pressure (low)	0.01~1.0MPa (display value multiply 0.1)	0.3	0.3	0.3	0.3	
P55	Pressure difference for high pressure protection recovery	0.2~1.5MPa (display value multiply 0.1)	5	5	5	5	
P56	Pressure difference for low pressure protection recovery	0.01~1.0MPa	0.15	0.15	0.15	0.15	
P57	Discharge gas protection temperature	100~125 °C	105	105	105	105	
P58	Temperature difference for variable	3~8 °C	5	5	5	5	
P59	circulation pump 1-stage	2~8 (stands for 20% to 80% of the speed)	8	8	8	8	
P60	Min. running speed of PWM circulation pump	500-1.500 rpm	800	850	900	850	
P61	Max. running speed of DC motor	3~80 l/min. step 1	6	8	11	14	
P62	Minimum water flow	0: Cooling + heating 1: Only cooling 2: Only heating	0	0	0	0	
P63	Definition of A/C function	0: No 1: Yes	1	1	1	1	
P64	DHW heating ON/OFF	0-480	90	90	90	90	
P65	EEV minimum open step	0: Auxiliary pump 1: Circulation pump for DHW circulation	0	0	0	0	
P66	Function definition for circulation pump C2	0: Air 1: Water (reserved)	0	0	0	0	
P67	Selected heat source	0: OFF 1: ON	0	0	0	0	
P68	Room thermostat (reserved)	0: Water flow switch 1: Water flow sensor	1	1	1	1	
P69	Flow switch selection	0: AC motor 1: First DC motor 2: Second DC motor 3: Two DC motors	1	1	1	3	
P70	Fan motor type	0:OFF 1: ON	1	1	1	1	
P71	Automatic restart	0: Manual 1: Auto	1	1	1	1	
P72	DC motor speed control	0-1.500 rpm (display value multiply 10)	0	0	0	0	
P73	DC motor fixed speed	0: Pressure sensor 1: Pressure switch	0	0	0	0	
P74	EVI EEV control mode	0: no 1: checking 2: manual 3: auto	0	0	0	0	
P75	EVI EEV manually initial open steps (heating)	40~480	40	40	40	40	
P76	EVI EEV manually initial open steps(cooling)	40~480	40	40	40	40	
P77	EVI Target superheat (heating)	-5~10 °C	3	3	3	3	
P78	EVI Target superheat (heating)	-5~10 °C	3	3	3	3	
P79	WIFI data upload interval	30~9999 s	300	300	300	300	
P80	Reserved	0-10 (display value multiply 0.1)	10	10	10	10	
P81	E2 function definition	0: Electrical booster heater 1: Second heating source 2: Combined together with electrical booster heater 3: Combined with a boiler	0	0	0	0	
P82	Ambient temperature to activate the second energy source in auxiliary mode (E2, E1)	-30~20 °C	-25	-25	-25	-25	
P83	DHW heating circulation pump mode (C3 pump P88=1)	0: No 1: Timer 2: Temperature 3: Timer + temperature	3	3	3	3	

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P84	Temperature difference for DHW heating pump (C3 pump P88=1)	4~20 °C	5	5	5	5	
P85	Ambient defrost temperature	0~20 °C	5	5	5	5	
P86	Difference ambient defrost temperature and coil temperature ΔT_1	0~20 °C	8	8	8	8	
P87	Factory default	0: No 1: Timer 2: Temperature 3: Timer + temperature	0	0	0	0	
P88	C3 pump selection	0: DHW auxiliary pump 1: DHW circulation pump	0	0	0	0	
P89	Discharge gas superheat percentage coefficient. desired superheat degree in percent	0.1~2	0.3	0.3	0.3	0.3	
P90	Discharge gas superheat differential coefficient. difference between actual and desired superheat	0~20	1	1	1	1	
P91	Difference defrost ambient temperature and evaporator temperature ΔT_2 (ambient temperature < -7 °C)	0~20°C	8	8	8	8	
P92	Target suction superheat (heating) (ambient temperature < -5)	-20~50°C	0.5	0	0.5	0.5	
P108	R485 monitoring address	1	1	1	1	1	
P109	Discharge gas temperature value 1 to limit compressor frequency	80~125	100	100	100	100	
P110	Discharge gas temperature value 2 to limit compressor frequency	80~125	97	97	97	97	
P111	Discharge gas temperature value 2 to limit compressor frequency	80~125	95	95	95	95	
P112	EEV adjustment temperature when discharge gas temperature is too high	80~125	100	100	100	100	
P113	EEV adjustment time when discharge gas temperature is too high	1~120	30	30	30	30	
P114	Compressor frequency reduction percentage after set temperature reached.	0~60 %	2	2	2	2	
P115	Protection value outlet temperature too high	70~90	83	83	83	83	
P116	Calculation booster heater	0~1	0	0	0	0	
P117	E0 reserviert	0~20.0kw	0	0	0	0	
P118	E1 capacity booster heater DHW	0~20.0kw	0	0	0	0	
P119	E1 capacity booster heater space heating	0~20.0kw	0	0	0	0	
P120	reserved		0	0	0	0	
P121	PV activation	0=OFF 1=ON	0	0	0	0	
P122	PV activation	0=OFF, 1=ON. After the entire process automatic reset to „0“	0	0	0	0	
P123	1st period	1~15 Tage	10	10	10	10	
P124	1st period start temperature	10~60 °C	20	20	20	20	
P125	1st period end temperature	10~60 °C	20	20	20	20	
P126	2nd period	1~15 Tage	5	5	5	5	
P127	2nd period start temperature	10~60 °C	20	20	20	20	
P128	2nd period end temperature	10~60 °C	50	50	50	50	
P129	3rd period	1~15 days	10	10	10	10	
P130	3rd period start temperature	10~60 °C	50	50	50	50	
P131	3rd period end temperature	10~60° C	50	50	50	50	
P132	4th period	1~15 days	5	5	5	5	
P133	4th period start temperature	10~60 °C	50	50	50	50	
P134	4th period end temperature	10~60 °C	20	20	20	20	
P135	OTC heating limiting temperature	15~25 °C	17	17	17	17	
P136	OTC heating recovery temperature	3~13 °C	5	5	5	5	
P201	SG Ready activation	ON/OFF	OFF	OFF	OFF	OFF	
P202	Heating switch-on recommendation target temperature	OFF 10 °C~70 °C	OFF	OFF	OFF	OFF	
P203	Heating switch-on command target temperature	OFF 10 °C~70 °C	OFF	OFF	OFF	OFF	

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P204	Cooling switch-on recommendation target temperature	OFF 10 °C~30 °C	OFF	OFF	OFF	OFF	
P205	Cooling switch-on command target temperature	OFF 10 °C~30 °C	OFF	OFF	OFF	OFF	
P206	DHW switch-on recommendation target temperature	OFF 10 °C~70 °C	OFF	OFF	OFF	OFF	
P207	DHW switch-on command target temperature	OFF 10 °C~70 °C	OFF	OFF	OFF	OFF	
P208	Heating device for DHW heating and heating modes	0: Heat Pump+E1/E2 1: E1/E2 only 2: Heat Pump only	OFF	OFF	OFF	OFF	

