	Definition	Range	R290									
			6KW	9KW	9KW-3T	12KW	12KW-3T	16KW	16KW-3T	19KW	19KW-3T	22KW-3T
P00	ON/OFF	0: Off 1: On	0	0	0	0	0	0	0	0	0	0
P01	Working mode	0: DHW 1: Heating 2: DHW+Heating 3: Cooiling 4: DHW+Cooling	2	2	2	2	2	2	2	2	2	2
P02	Heating target temp	25-75ºC	45	45	45	45	45	45	45	45	45	45
P03	Cooling target temp	7-25ºC	12	12	12	12	12	12	12	12	12	12
P04	DHW target temp	25-70ºC	45	45	45	45	45	45	45	45	45	45
P05	Room target temp	18-35ºC	21	21	21	21	21	21	21	21	21	21
P06	A/C temperature difference	1-15ºC	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
P07	DHW temperature difference	1-15ºC	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
P08	A/C heating AU curve max temp value	15-70ºC	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
P09	A/C heating AU curve offset value	-10~10ºC	0	0	0	0	0	0	0	0	0	0
P10	Sterilisation Interval days	1~99Days	7	7	7	7	7	7	7	7	7	7
P11	Sterilisation start time	0~23h	23	23	23	23	23	23	23	23	23	23
P12	Sterilisation running time	5~99mins	10	10	10	10	10	10	10	10	10	10
P13	Sterilisation temperature	50~70ºC	70	70	70	70	70	70	70	70	70	70
P14	Sterilisation mode select	0：Auto 1: Manual 2: invalid	2	2	2	2	2	2	2	2	2	2
P15	Night mode starting point	0~23h	22	22	22	22	22	22	22	22	22	22
P16	Night mode ending point	0~23h	6	6	6	6	6	6	6	6	6	6
P17	Night mode validation	0: invalid 1: valid	0	0	0	0	0	0	0	0	0	0
P18	Reserve	0: invalid 1: valid	0	0	0	0	0	0	0	0	0	0
P19	A/C AU validation	0: invalid 1: valid	0	0	0	0	0	0	0	0	0	0
P20	Water pump working mode	0: Non-stop 1: Stop when reach temp 2: Stop 15mins/open 1min	0	0	0	0	0	0	0	0	0	0
P21	Water pump anti-freeze interval	5~50mins	30	30	30	30	30	30	30	30	30	30
P22	Ambient temp to activate the backup energy source for heating (E2)	-30~20ºC	0	0	0	0	0	0	0	0	0	0
P23	Ambient temp to activate the backup energy source for DHW (E1)	-30~20ºC	0	0	0	0	0	0	0	0	0	0
P24	Electrical heater active temp offset value	1~15ºC	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
P25	A/C anti-freeze temperature	-15~5ºC	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
P26	Water Flow Meter Model	0-5	2	2	2	2	2	3	3	3	3	3
P27	First Defrost interval	15~99mins	50	50	50	50	50	50	50	50	50	50
P28	Defrost selection	0: Auto defrost 1: Force Defrost	0	0	0	0	0	0	0	0	0	0
P29	Coil temperature to active defrost	-8~5ºC	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0	-3.0
P30	Coil temperature to stop defrost	5~30ºC	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0

P31	The max defrost time	2~20mins	12	12	12	12	12	12	12	12	12	12
P32	EEV control mode	0: Non 1: Check 2: Manual 3: Return air superheat 4: Exhaust superheat	3	3	3	3	3	3	3	3	3	3
P33	EEV manually initial open steps (heating)	50~480	400	400	400	400	400	400	400	400	400	400
P34	EEV manually initial open steps (cooling)	50~480	400	400	400	400	400	400	400	400	400	400
P35	In DHW mode, highest water temperature for compressor running	0~70ºC	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
P36	Time interval between compressor and E1 startup (reserved)	0~999mins	5	5	5	5	5	5	5	5	5	5
P37	Temperature difference for adjustable DC fan speed (heating)	2~15ºC	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
P38	Temperature difference for adjustable DC fan speed (cooling)	3~18ºC	8.0	8.0	8.0	8.0	8.0	8.0	8.0	4.0	4.0	8.0
P39	Choose compressor model （Reserve）	0~999	358	59	21	60	73	79	69	81	78	206
P40	Compressor frequency setting	0: Manual 1: Auto	1	1	1	1	1	1	1	1	1	1
P41	Compressor oil return frequency	10~100Hz	50	50	50	50	50	50	50	50	50	50
P42	Compressor frequency limiting current	1~50A	11.0	14.0	5.0	16.0	6.0	30.0	9.0	30.0	11.0	20.0
P43	Compressor frequency reduction current	1~50A	13.0	16.0	7.0	17.5	8.0	32.0	11.0	32.0	13.0	22.0
P44	Compressor shutdown current	1~50A	15.0	18.0	8.0	19.0	9.0	35.0	13.0	35.0	15.0	24.0
P45	Maximum running frequency	50~120Hz	90	85	85	90	85	85	85	75	75	85
P46	Minimum running frequency	0~90Hz	35	35	35	35	35	35	35	35	35	35
P47	Defrost running frequency	30~90Hz	65	65	65	65	65	65	65	65	65	65
P48	DHW maximum frequency	2~10Hz	10	10	10	10	10	10	10	10	10	10
P49	Discharge superheat percentage coefficient	0~10	2	2	2	2	2	2	2	2	2	2
P50	Discharge superheat differential coefficient	0~20	1	1	1	1	1	1	1	1	1	1
P51	High pressure value to limit compressor frequency rising	20- 45bar	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
P52	High pressure value to cancel compressor frequency limit	20- 45bar	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
P53	Protection pressure (High)	20- 45bar	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
P54	Protection pressure (Low)	0.1-1.0bar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
P55	High pressure protection recovery pressure difference	1- 10bar	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
P56	Low pressure protection recovery Pressure difference	0.1-5bar	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
P57	Discharge protection temperature	100-125ºC	105	105	105	105	105	105	105	105	105	105
P58	Temperature differential for Adjustable water pump C1 speed	3~8ºC	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
P59	PWM water pump minimum running speed	2~8	8	8	8	8	8	8	8	8	8	8
P60	DC motor maximum running speed	400~1500rpm (*10)	60	63	63	60	60	63	63	63	63	63
P61	minimum water flow	3~80L/min	6	8	8	11	11	14	14	22	22	22
P62	Definition of A/C function	0: Heating & Cooling 1: Cooling only 2: Heating only	0	0	0	0	0	0	0	0	0	0
P63	DHW validation	0: invalid 1: valid	1	1	1	1	1	1	1	1	1	1

P64	EEV minimum open step	0-480	90	90	90	85	85	90	90	90	90	90
P65	Function definition for water pump C2	0: Auxiliary pump 1: Indoor circulation pump	0	0	0	0	0	0	0	0	0	0
P66	Selected heat source	0-1	0	0	0	0	0	0	0	0	0	0
P67	Room temperature control	0: invalid 1: valid	0	0	0	0	0	0	0	0	0	0
P68	Flow switch selection	0-5	1	1	1	1	1	1	1	1	1	1
P69	Fan motor type	0: AC 1: One DC 2: Second DC 3: Two DC	1	1	1	1	1	3	3	3	3	3
P70	Power-off memory	0: invalid 1: valid	1	1	1	1	1	1	1	1	1	1
P71	DC motor speed control	0: Manual 1: Auto	1	1	1	1	1	1	1	1	1	1
P72	DC motor fixed speed	400-1500rpm (*10)	0	0	0	0	0	0	0	0	0	0
P73	Pressure controller type	0: Pressure Sensor 1: Pressure Switch	0	0	0	0	0	0	0	0	0	0
P74	EVI EEV control mode	0: Non 1: Check 2: Manual 3: Auto	0	0	0	0	0	0	0	0	0	0
P75	EVI EEV manually initial open steps(heating)	40~480	40	40	40	40	40	40	40	40	40	40
P76	EVI EEV manually initial open steps(cooling)	40~480	40	40	40	40	40	40	40	40	40	40
P77	EVI Target superheat (heating)	-5~10ºC	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
P78	EVI Target superheat (cooling)	-5~10ºC	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
P79	WIFI data upload interval	30-9999	300	300	300	300	300	300	300	300	300	300
P80	Calculate the lowest operating frequency coefficient of the compressor(Reserve)	0-10	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
P81	E1/E2 function definition	0: Auxiliary electric heating 1: Second heating source 2: Combined with electric heater 3: Combined with boiler	0	0	0	0	0	0	0	0	0	0
P82	Ambient temp to activate the backup energy source in auxiliary mode (E2, E1)	-30~20ºC	-25.0	-25.0	-25.0	-25.0	-25.0	-25.0	-25.0	-25.0	-25.0	-25.0
P83	DHW circulation pump mode （C3 pump P88=1）	0: Disable 1: Timing 2: Temperature difference 3: Timing+Temperature difference	3	3	3	3	3	3	3	3	3	3
P84	Temp Difference For DHW Pump(C3 pump P88=1,P83=2 or P83=3)	4~20ºC	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
P85	Defrost ambient temperature	0℃~20ºC	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
P86	Defrost ambient temperature and coil temperature difference ΔT1 (Ambient temperature ≥-7℃)	0℃~20ºC	8.0	8.0	8.0	8.0	8.0	5.0	5.0	8.0	8.0	8.0
P87	Restore factory settings (effective when the device is powered off)	0-1	0	0	0	0	0	0	0	0	0	0
P88	C3 pump selection	0: DHW auxiliary water pump 1: DHW return water pump	0	0	0	0	0	0	0	0	0	0
P89	Suction superheat percentage coefficient	0~20	3	3	3	3	3	3	3	3	3	3
P90	Suction superheat differential coefficient	0~20	1	1	1	1	1	1	1	1	1	1
P91	Defrost ambient temperature and coil temperature difference ΔT2 (Ambient temperature < -7℃)	0℃~20ºC	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0

P92	Target suction superheat （Heating） (Ambient temperature ≤ -5)	-5-10ºC	3.0	2.5	0.5	2.0	2.0	1.5	0.5	1	1	0.5
P93	Target suction superheat （Heating） (-5 ≥ Ambient temperature > +5)	-5-10ºC	3.0	2.5	0.5	2.0	2.0	1.0	0.5	1	1	0.5
P94	Target suction superheat （Heating） (+5 ≥ Ambient temperature > +25)	-5-10ºC	2.5	2.0	0.5	2.0	2.0	0.5	0.5	2	2	0.5
P95	Target suction superheat （Cooling）	-5-10ºC	3.0	3.0	3.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0
P96	Target suction superheat （Heating） (+45 ≥ Ambient temperature > +25)	-5-10ºC	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.5
P97	When P40=0, compressor frequency set value	10~100Hz	50	50	50	50	50	50	50	50	50	50
P98	The control signal of G1 valve is reversed	0: Normal 1: Reversal	0	0	0	0	0	0	0	0	0	0
P99	The control signal of G2 valve is reversed	0: Normal 1: Reversal	0	0	0	0	0	0	0	0	0	0
P100	The control signal of G3 valve is reversed	0: Normal 1: Reversal	0	0	0	0	0	0	0	0	0	0
P101	EEV steps for defrosting	0~480	480	480	480	480	480	480	480	480	480	480
P102	Temperature difference protection value of inlet and outlet water	8-20ºC	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
P103	EEV initial opening hold time	0-300s	60	60	60	60	60	60	60	60	60	60
P104	Initial compressor frequency for AC heating/cooling capacity calculation	20-60	50	50	50	50	50	50	50	50	50	50
P105	Compressor starting frequency A	20-60Hz	30	30	30	30	30	30	30	30	30	30
P106	Compressor starting frequency A running time	0-300s	60	60	60	60	60	60	60	60	60	60
P107	PRt calculation valume	1-100	3	3	3	3	3	3	3	3	3	3
P108	R485 monitoring address	1-16	1	1	1	1	1	1	1	1	1	1
P109	Discharge temp. value 1 to limit compressor frequency	80-125ºC	100	100	100	100	100	100	100	100	100	100
P110	Discharge temp. value 2 to limit compressor frequency	80-125ºC	97	97	97	97	97	97	97	97	97	97
P111	Discharge temp. value 3 to limit compressor frequency	80-125ºC	95	95	95	95	95	95	95	95	95	95
P112	EEV adjustment temp. when discharge temp. is too high	80-125ºC	100	100	100	100	100	100	100	100	100	100
P113	EEV adjustment time when discharge temp. is too high	1-120s	30	30	30	30	30	30	30	30	30	30
P114	Compressor frequency reduction percentage after set temp. reached.	0- 60%	2	2	2	2	2	2	2	2	2	2
P115	Outlet temp. too high protection value	70-90ºC	83	83	83	83	83	83	83	83	83	83
P116	Electrical Heater Calculation Switch	0~1	0	0	0	0	0	0	0	0	0	0
P117	E0 Power of Electrical Heater	0~20.0kw	0	0	0	0	0	0	0	0	0	0
P118	E1 Power of Electrical Heater	0~20.0kw	0	0	0	0	0	0	0	0	0	0
P119	E2 Power of Electrical Heater	0~20.0kw	0	0	0	0	0	0	0	0	0	0
P120	Reserve											
P121	PV activation	0~1	0	0	0	0	0	0	0	0	0	0
P122	Floor drying function activation	0~1	0	0	0	0	0	0	0	0	0	0
P123	First Period	1~15days	10	10	10	10	10	10	10	10	10	10
P124	First Period Start Temperature	10~60ºC	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0

P125	First Period End Temperature	10~60ºC	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
P126	Second Period	1~15days	5	5	5	5	5	5	5	5	5	5
P127	Second Period Start Temperature	10~60ºC	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
P128	Second Period End Temperature	10~60ºC	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
P129	Third Period	1~15days	10	10	10	10	10	10	10	10	10	10
P130	Third Period Start Temperature	10~60ºC	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
P131	Third Period End Temperature	10~60ºC	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
P132	Fourth Period	1~15days	5	5	5	5	5	5	5	5	5	5
P133	Fourth Period Start Temperature	10~60ºC	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
P134	Fourth Period End Temperature	10~60ºC	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
P135	AU heating limiting temperature	15~25ºC	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
P136	AU heating recovery temperature	3~13ºC	5.0	5.0	5.0	5.0	5.0	5.0	5.0	10.0	10.0	10.0
P137	Resonance frequency point 1	0-120Hz	0	0	0	0	0	0	0	0	0	0
P138	Resonance frequency point 2	0-120Hz	0	0	0	0	0	0	0	0	0	0
P139	Resonance frequency point 3	0-120Hz	0	0	0	0	0	0	0	0	0	0
P140	Resonance frequency point 4	0-120Hz	0	0	0	0	0	0	0	0	0	0
P141	Resonance frequency point 5	0-120Hz	0	0	0	0	0	0	0	0	0	0
P142	Resonance frequency point 6	0-120Hz	0	0	0	0	0	0	0	0	0	0
P143	Resonance frequency point 7	0-120Hz	0	0	0	0	0	0	0	0	0	0
P144	Resonance frequency point 8	0-120Hz	0	0	0	0	0	0	0	0	0	0
P145	Refrigerant concentration detection enable	0: Off 1: On	0	0	0	0	0	0	0	0	0	0
P146	OTC minimum setting value (P08 ≤50)	10.0-25.0ºC	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
P147	Low temperature high frequency switch	0: Off 1: On	0	0	0	0	0	0	0	0	0	0
P148	Dual temperature zone setting temperature	18.0-35.0ºC	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
P201	SG Ready activation	0: Off 1: On	0	0	0	0	0	0	0	0	0	0
P202	Heating Switch-on recommendation target temp.	OFF 25-75ºC	0	0	0	0	0	0	0	0	0	0
P203	Heating Switch-on command target temp.	OFF 25-75ºC	0	0	0	0	0	0	0	0	0	0
P204	Cooling Switch-on recommendation target temp.	OFF 7-25ºC	0	0	0	0	0	0	0	0	0	0
P205	Cooling Switch-on command target temp.	OFF 7-25ºC	0	0	0	0	0	0	0	0	0	0
P206	DHW Switch-on recommendation target temp.	OFF 25-70ºC	0	0	0	0	0	0	0	0	0	0
P207	DHW Switch-on command target temp.	OFF 25-70ºC	0	0	0	0	0	0	0	0	0	0
P208	Heating device for DHW and Heating modes for SGReady	OFF 0: Heat Pump+E1/E2 1: E1/E2 2: Heat Pump	0	0	0	0	0	0	0	0	0	0