



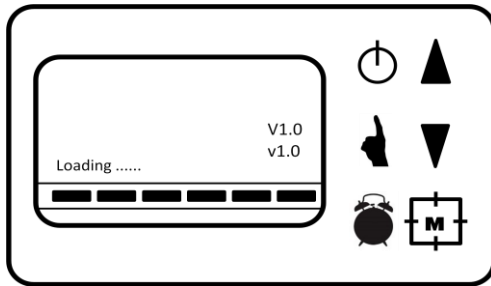
Contact number: 0861 50 35 50

AQUAHEAT HEAT PUMP OPERATING MANUAL

TF200/3 PC8001 Controller

USAGE AND OPERATION

1. Function of wire controller



Button	Name	Function
	ON / OFF	Press this button to start/shut off the unit, cancel current operation or back to upper interface
	HELP	Press this button to check button function or system state
	MODE	Press this button to change the current mode, page up or confirm current operation, enter or save
	CLOCK	Press the button to set the clock, the timer on or timer off
	UP	Press this key to select the upward option or increase the parameter value
	DOWN	Press this key to select the downward option or decrease the parameter value

2. Usage of wire controller

2.1 To set temperature

Press  (2 seconds) to turn unit off

Press  to set the temperature, press  to require temperature

Press  to set

Press  (2 seconds) to turn unit on

2.2 To enter system

Press  twice

TEMPERATURE: Press  to enter, press  to see temperature, press  to go back

SWITCH: Press , press  to enter,  to see switch, press  to go back

Default Switch:	1. CL	8. OP
	2. CL	9. CL
	3. CL	10. OP
	4. OP	11. CL
	5. CL	12. CL
	6. CL	13. CL
	7. CL	14. OP

OUTPUT: Press , press  to enter,  to see output, press  to go back

Default Output:	1. ON	9. OFF
	2. ON	10. OFF
	3. ON	11. OFF
	4. OFF	12. 35 ON
	5. ON	13. 35 ON
	6. OFF	14. 35 ON
	7. ON	15. 35 ON
	8. ON	

3. Usage of wire controller

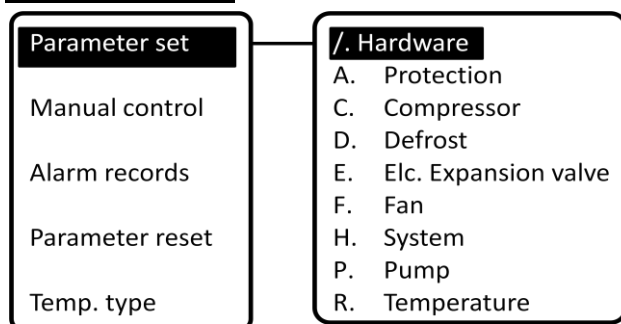
TO ENTER PARAMETER SETTING INTERFACE:

Turn unit off

Press and hold  until password shows, press  to 66 and press  to enter

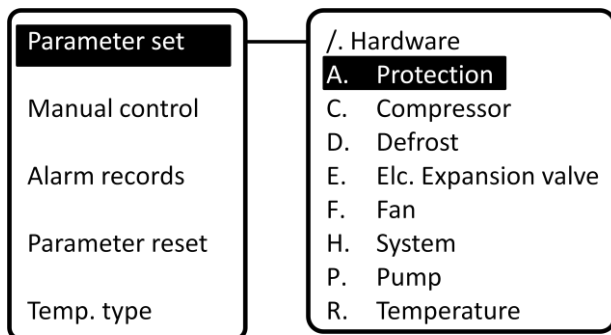
Display shows:

PARAMETER SET;



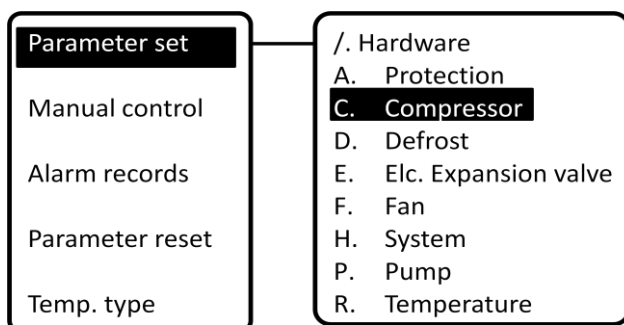
/. Hardware:

/01. System 1 HP	Yes	/17. Coil 4 probe	No
/02. System 2 HP	Yes	/18. Ambient probe	Yes
/03. System 3 HP	Yes	/19. Device 1 probe	No
/04. System 4 HP	NO	/20. Device 2 probe	No
/05. System 1 LP	Yes	/21. Device 3 probe	No
/06. System 2 LP	Yes	/22. Device 4 probe	No
/07. System 3 LP	Yes	/23. Suction 1 probe	No
/08. System 4 LP	NO	/24. Suction 2 probe	No
/09. Water flow	Yes	/25. Suction 3 probe	No
/10. Elc. Overload	NO	/26. Suction 4 probe	No
/11. Remote ON/OFF	Yes	/27. In-Out Δ^T prot	Yes
/12. System Protect	No	/28. Cooling mode	Yes
/13. Outlet probe	Yes	/29. ECO . Heating	Yes
/14. Coil 1 probe	Yes	/30. Auto mode	Yes
/15. Coil 2 probe	Yes	/31. Heating mode	No
/16. Coil 3 probe	Yes	/32. Rapid Heat	No



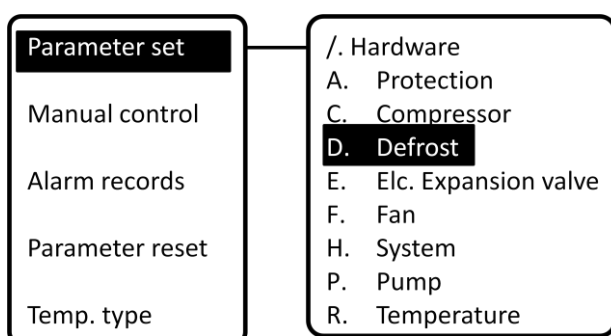
A. Protection:

A 01. HP delay	10 seconds	A 05. Deice diff	5.0°C
A 02. LP delay	300 seconds	A 06. ΔT setting	13.0°C
A 03. Comp. limit	- 15.0°C	A 07. Spray se	35.0°C
A 04. Deice temp	4.0°C		



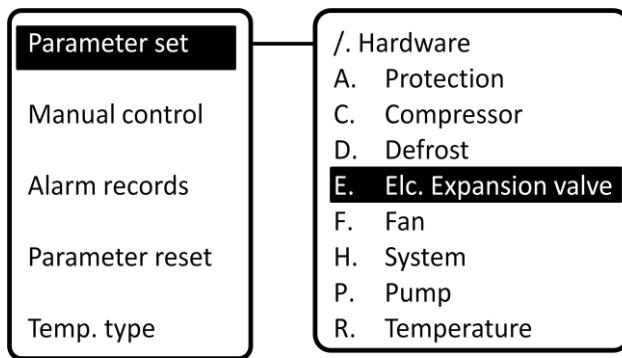
C. Compressor:

C 01. Min. on time	120 seconds	C 04. Capacity CTRL	3CA
C 02. Min. off time	180 seconds	C 05. Rotation	FIFO
C 03. Comp. delay	300 seconds		



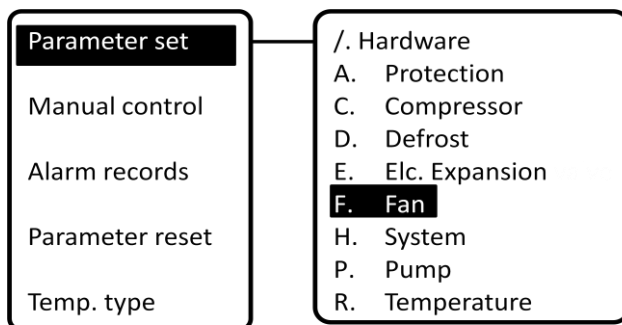
D. Defrost:

D 01. Start temp	- 7.0°C	D 05. Eco. min. time	3M
D 02. End temp	13.0°C	D 06. Defrost type	NOR
D 03. Def. cycle	45M	D 07. Heater CTRL	On
D 04. Max. duration	8M	D 08. Auto. set	4.0°C



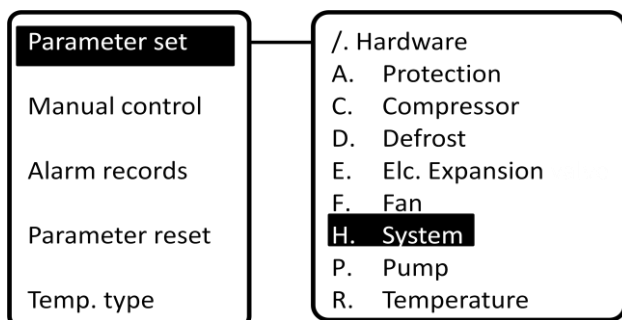
E. Elc Expansion valve:

E 01. EEV 1 mode	Auto	E 09. Init. place 3	350N
E 02. Super heat 1	5.0 ⁰ C	E 10. EEV 4 mode	Auto
E 03. Init. place 1	350N	E 11. Super heat 4	5.0 ⁰ C
E 04. EEV 2 mode	Auto	E 12. Init. place 4	350N
E 05. Super heat 2	5.0 ⁰ C	E 13. Min. place	100N
E 06. Init. place 2	350N	E 14. Defrost place	350N
E 07. EEV 3 mode	Auto	E 15. Cooling place	350N
E 08. Super heat 3	5.0 ⁰ C		



F. Fan:

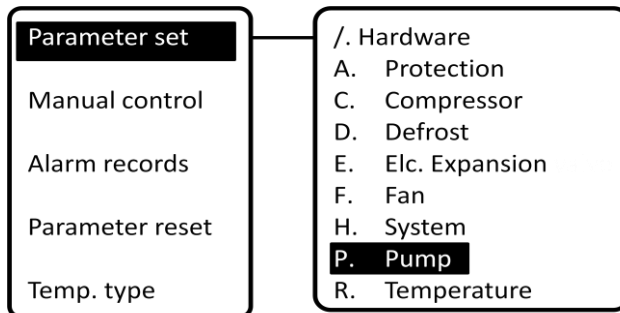
F 01. Speed	High	F 06. Min. Heat	20.0 ⁰ C
F 02. Max. Cool	40.0 ⁰ C	F 07. Stop Heat	30.0 ⁰ C
F 03. Min. Cool	15.0 ⁰ C	F 08. Min. Start time	0H
F 04. Stop Cool	10.0 ⁰ C	F 09. Min. Stop time	8H
F 05. Max. Heat	10.0 ⁰ C	F 10. CTRL . Probe	Coil



H. System:

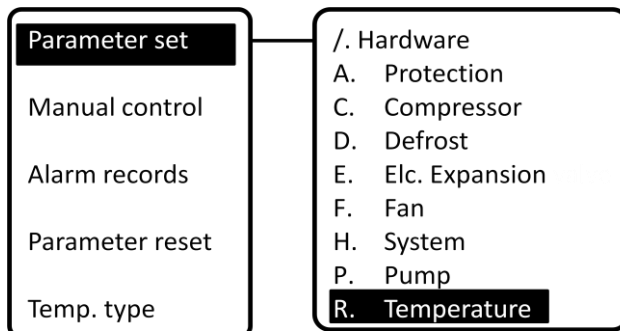
H 01. Restart	Yes	H 07. Class	Master
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H 02. Num. system	3	H 08. Coil use	Deice
H 03. 4V logic	H-On	H 09. Address	1
H 04. 4V order	Advance	H 10. Baud rate	9600
H 05. Mode type	Heat PUPP	H 11. Parity	0
H 06. Type	Swimming	H 12. Stop bit	1



P. Pump:

P 01. Mode	Interval	P 06. Start filter 1	10H
P 02. Interval	30M	P 07. Stop filter 1	12H
P 03. Duration	3M	P 08. Start filter 2	15H
P 04. Advance	1M	P 09. Stop filter 2	17H
P 05. Filter	No		



R. Temperature:

R 01. Cooling set	8.0°C	R 13. Elec. AMB	15.0°C
R 02. Heating set	27.0°C	R 14. Elec. delay	30M
R 03. Auto set	30.0°C	R 15. Elec. force	5.0°C
R 04. Cool diff	1.0°C	R 16. Compensation	No
R 05. Cool stop	1.0°C	R 17. Compens Max	5.0°C
R 06. Heat diff	1.0°C	R 18. Constant	-8.0°C
R 07. Heat stop	1.0°C	R 19. Cool AMB	35.0°C
R 08. Min. cool	8.0°C	R 20. Heat AMB	5.0°C
R 09. Max cool	28.0°C	R 21. Heater type	Sanitary water
R 10. Min heat	15.0°C	R 22. Deice start	3.0°C
R 11. Max heat	35.0°C	R 23. Deice diff.	3.0°C
R 12. Elec. diff	2.0°C		

MANUAL CONTROL;

Parameter set

Manual control

Alarm records

Parameter reset

Temp. type

Compressor 1	OFF
Compressor 2	OFF
Compressor 3	OFF
Compressor 4	OFF
Fan high speed	OFF
Fan low speed	OFF
Circulate pump	OFF
4-way Valve	OFF
Elec. Heater	OFF
Spray valve	OFF
Alarm	OFF

ALARM RECORDS;

Parameter set

Manual control

Alarm records

Parameter reset

Temp. type

Example of error:

1. E03 28/06/2013 14:00

PARAMETER RESET;

Parameter set

Manual control

Alarm records

Parameter reset

Temp. type

Reset the settings to factory default values

Press  to confirm

TEMP. TYPE;

Parameter set

Manual control

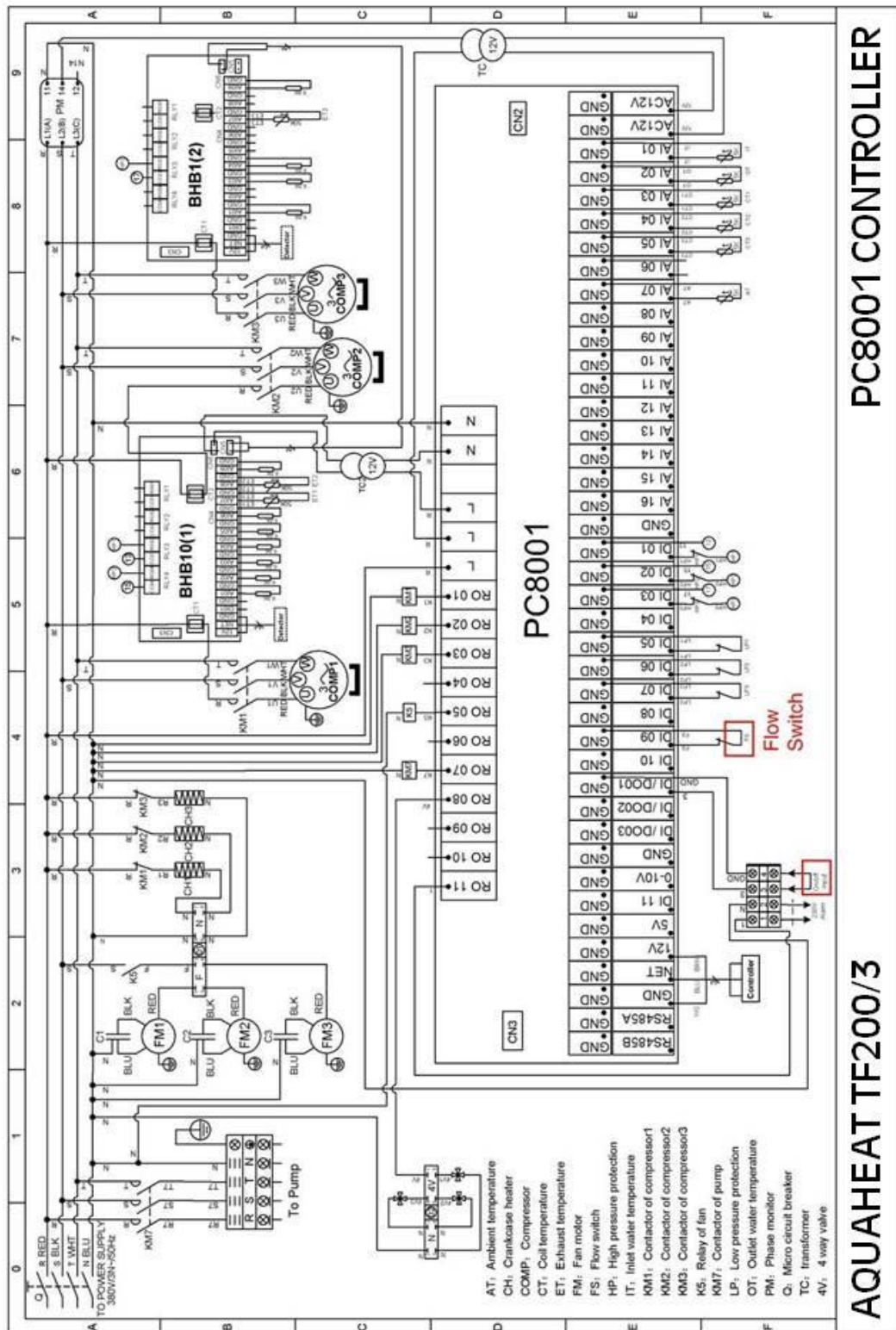
Alarm records

Parameter reset

Temp. type

Celsius degree

Fahrenheit degree



Sample images





PD95005-31019613030049

EEV2 CN3

485B	GND
485A	GND
GND	GND
NET	GND
12V	GND
5V	GND
DI11	GND
0-10V	GND
GND	GND
DI0003	GND
DI0002	GND
DI0001	GND
DI10	GND
DI09	GND
DI08	GND
DI07	GND
DI06	GND
DI05	GND
DI04	GND
DI03	GND
DI02	GND
DI01	GND
GND	GND
AI16	GND
AI15	GND
AI14	GND
AI13	GND
AI12	GND
AI11	GND
AI10	GND
AI09	GND
AI08	GND
AI07	GND
AI06	GND
AI05	GND
AI04	GND
AI03	GND
AI02	GND
AI01	GND
12VAC	GND
12VAC	GND

PC8001

RO11	●	RO11
RO10	●	RO10
RO09	●	RO09
RO08	●	RO08
RO07	●	RO07
RO06	●	RO06
RO05	●	RO05
RO04	●	RO04
RO03	●	RO03
RO02	●	RO02
RO01	●	RO01
RUNNING	●	L
POWER	●	L
		L

CN1 EEV1 CN2

CN4

95005-310196
2012-12-27 V1.4