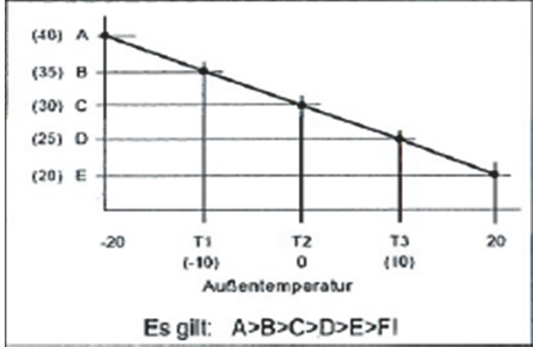
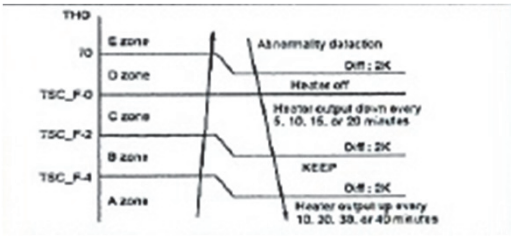


ESTIA Series 3: Function Code List

		Function & FC Num				After Commissioning
FC Description		Hydro	RC	Range	Default	
Setting Water Temperature Range	Heating Upper Limit - Zone 1	1A	-	37~55°C	55	Min. and Max. Setting range remote controller
	Heating Lower Limit - Zone 1	1B	-	20~37°C	20	
	Heating Upper Limit - Zone 2	1C	-	37~55°C	55	
	Heating Lower Limit - Zone 2	1D	-	20~37°C	20	
	Cooling - Upper Limit	18	-	20~30°C	25	
	Cooling - Lower Limit	19	-	10~20°C	10	
	Hot Water - Upper limit	1E	-	60~75°C	75	
	Hot Water - Lower limit	1F	-	40~60°C	40	
Hot Water Operation	Heat Pump Start Temperature	20	-	20~45°C	38	At which temperature the Heat Pump starts
	Heat Pump Stop Temperature	21	-	40~50°C	45	At which temperature the Heat Pump stops
Hot Water Temperature Compensation	Temperature Compensation Outside Air Temperature (°C)	24	-	-20~10°C	0	
	Compensation Temperature (°C)	25	-	0~15°C	3	
Hot Water Boost	Operation Time (x10 min)	08	-	3~18	6	How long the unit remains in this mode after pressing the boost button.
	Setting Temperature (°C)	09	-	40~75°C	75	Max. Temperature of the boost mode
Anti Bacteria	Setting Temperature (°C)	0A	-	65~80°C	75	Temperature of the Anti Bacteria mode
	Start Cycle (Day)	-	0D	1~10	7	Cycle after the Anti Bacteria mode repeats in days!
	Start Time (Hour)	-	0C	0~23	22	Start time of the mode
	Operation Time (min)	0B	-	0~60	30	
Priority Mode	Hot Water & Heating Switching Temperature (°C)	22	-	-20~20°C	0	At deep outside temperatures the priority is heating
	Boiler & Heat Pump Switching Temperature (°C)	23	-	-20~20°C	-10	Only in combination with the board TCB-PCIN3E
	Hot Water & Cooling priority selection: 0 = Cooling priority. Hot water produced by electric heater 1 = Hot water priority. Hot water produced by HP	0F	-	0~1	0	The hot water priority in the cooling mode can be generated with WP or an electric heater
Heating Auto Curve Settings	Outside Temperature T1 (°C)	29	-	-15~0°C	-10	
	Outside Temperature T2 (°C)	-	-	0	0	
	Outside Temperature T3 (°C)	2B	-	0~15°C	10	
	Setting Temperature A @ OAT -20°C (°C)	2C	-	20~55°C	40	
	Setting Temperature B @ OAT T1 (°C)	2D	-	20~55°C	35	
	Setting Temperature C @ OAT T2 (°C)	2E	-	20~55°C	30	
	Setting Temperature D @ OAT T3 (°C)	2F	-	20~55°C	25	
	Setting Temperature E @ OAT 20°C (°C)	30	-	20~55°C	20	
	Ratio Of Zone 2 In Zone 1 Auto Mode (%)	31	-	0~100%	80	
	Auto Curve - Temperature Shift (°C)	27	-	-5~5°C	0	
Frost Protection	Function 0=Invalid; 1=Valid	3A	-	0~1	1	Function 0=Invalid; 1=Valid
	Frost Protection Setting Temperature (°C)	3B	-	10~20°C	15	Setting temperature frost mode
	Schedule end day	-	12	0~20	0	How many days the mode is working
	Schedule end time	-	13	0~23	0	Daytime when the mode stops working
Back Up Heater Control	Downtime Back Up Heater 0=5min; 1=10min; 2=15min; 3=20min	33	-	0~3	1	
	Uptime Back Up Heater 0=10min; 1=20min; 2=30min; 3=40min	34	-	0~3	0	
Night Setback	Change Setback Temperature (°C)	26	-	3~20°C	5	Setback Temperature
	Zone selection 0=Zone 1 & 2; 1= Zone 1 Only	58	-	0~1	0	Selected Zones
	Start Time (Hour)	-	0E	0~23	22	At which time the mode starts
	End Time (Hour)	-	0F	0~23	6	At which time the mode ends
Room Temperature Remote Controller	Room temperature control: 0 = Invalid; 1 = valid	40	-	0~1	0	Second remote controller, temperature settings 0 = water temperature 1 = room temperature
	Setting room temperature range: Cooling room temperature upper limit	92	-	15~30	29	
	Setting room temperature range: Cooling room temperature lower limit	93	-	15~30	18	
	Setting room temperature range: Heating room temperature upper limit	94	-	15~30	29	
	Setting room temperature range: Heating room temperature lower limit	95	-	15~30	18	
	Room temperature offset: Heating room temperature offset value (sensor temp - control temp, K)	-	02	-10~10	-1	Balances the difference between the room temperature on the remote controller and the external room thermometer
	Room temperature offset: Cooling room temperature offset value (sensor temp - control temp, K)	-	03	-10~10	-1	Balances the difference between the room temperature on the remote controller and the external room thermometer
	Initial target water temperature in cooling with either room temperature controller or external room thermostat	96	-	10~25	20	
	Initial target water temperature in heating with either room temperature controller or external room thermostat	9D	-	20~55	40	

ESTIA Series 3: Function Code List

Hydro 2 Way Valve Operation Control	Cooling 2 Way Valve - Operation Logic 0=Activated during cooling; 1=Not activated during cooling	3C	-	0~1	0	0 = Aktiv , 1 = Inaktiv
Hydro 3 Way Diverting Valve Operation Control	3 Way Diverting Valve Operation Logic 0=Activated during hot water operation; 1=not activated during hot water operation	54	-	0~1	0	0 = Normal , 1 = Logic reverse
2 Zone Mixing Valve Drive Time	Specified Drive Time for Mixing Valve (x10sec)	0C	-	3~24	6	Current time of the valveengine between fully open and closed, must be set before using.
	Mixing valve OFF (control time - mins)	59	-	1~30	4	Interval in which the valve adjusts
Boiler/Heat Pump Synchronisation	External Boiler/Heat Pump Synchronisation 0=Synchronised, external boiler stops as temperature reaches the hydro unit's temperature setting ; 1=Not synchronised	3E	-	0~1	0	0 = Synchr. , 1 = Not Synchr. In synchr. mode the Hydronikmodul stops the external heating if the set value is reached.
	System Operation during low ambient conditions: 0 = HP + boiler operation 1 = Boiler only operation 2 = Electric heater only operation	5B	-	0~2	0	Which functions should be paired
Maximum Operation Time Of Hot Water Heat Pump	Maximum Heat Pump Operation Time In Hot Water Operation Priority Mode (minutes)	07	-	1~120	30	Max. time for the WP to generate hot water
Cooling Operation	0=Cooling & Heating Operation; 1=Heating Only Operation	02	-	0~1	1	To lock the cooling mode if it's needed
Remote Controller Indication	24h or 12h Time Indication 0= 24h; 1=12h	-	05	0~1	0	12 or 24 hours mode on the remote controller
CDU Night Time Low Noise Operation	Low Noise Operation 0=Invalid; 1=Valid	-	09	0~1	0	Sound reduction for no problems with the neighbours
	Start Time (Hour)	-	0A	0~23	22	
	End Time (Hour)	-	0B	0~23	6	
Alarm Tone	Tone Switching 0=OFF; 1=ON	-	11	0~1	1	Alarm tone at error
Pump Synchronisation	Synchronises pump P1 with room temperature control: 0 = P1 runs continuously 1 = P1 synchronised with room temperature control. When using the room temperature controller or the external room thermostat P1 will stop when HP in thermo OFF mode	65	-	0~1	0	If roomthermostat exists
	Pump P2 operation in cooling mode: 0 = P2 continuous operation 1 = P2 stops in cooling operation	64	-	0~1	0	
	Pump P1 operation: OAT temperature contro in heating mode: P1 stops when TO > set value in FC9E with DPSW 10_2 ON (heating mode only)	9E	-	10~30	20	Additive setting for SW Nr. 02 / DIP Nr. 2
Pump P2 Remote Controller Display	0=Not Shown; 1=Shown	42	-	0~1	0	Pump on or off
Stop Switch Logic	0 = Contacts low > high system stop. System restart with remote controller 1 = Contacts high > low system stop. System restart with remote controller 2 = Contacts high > low system stop. Contacts low > high system restart 3 = Contacts low > high system stop. Contacts low > high (second time) system restart	52	-	0~3	0	
	0 = System restart in heating and hot water mode 1 = Systemrestart in the last mode prior to stopping 2 = System restart in heating mode 3 = System restart in hot water mode 4 = TEMPO control 1: no electrical heaters 5 = TEMPO control 2: no HP or electrical heaters	61	-	0~5	0	
A02 Error Detection With Boiler Output Enabled	Allows A02 error detection to be activated / deactivated when boiler output is enabled 0000 = A02 activated then boiler output OFF 0001: A02 deactivated and boiler output stays ON	62	-	0~1	0	
Function Change for optional output PCB (connected to CN209)	0000: EMG terminals - output ON during defrost Operation terminals - output ON when compressor is running 0001: EMG terminals - output ON when error detected OPERATION terminals - output ON during operation (remote controller ON)	67	-	0~1	0	
Hydro Unit Capacity Setting	0012 = 802XWH**E 0017 = 1402XWH**E Factory set but function code is needed for PCB replacement	01	-	0012 or 0017	Depends on Hydro Unit	If the board has to be changed, set the type of the outdoor unit with DN-codes before using.

Date: