Topic:	**Short reference list CPC / CM - Key code, Diagnostic, Funktion test**
Units:	**All CPC line units**

Please forward this information to all members of your service department!

Please find enclosed the short reference list CPC / CM as you should know it already covering the SCC product line
You can order this document (english version) under article number 80.51.043.
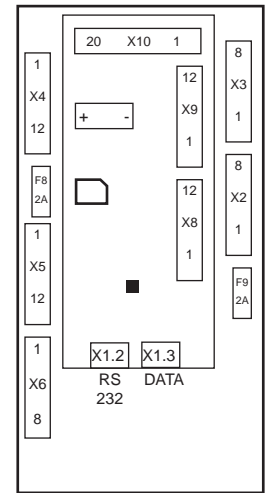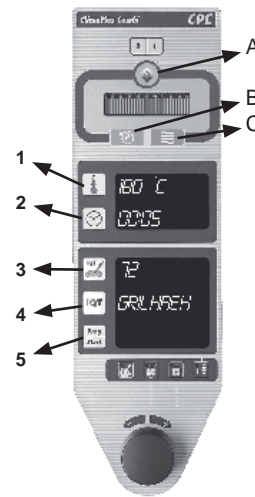

Please add this document to your CPC manual!

With best regards
Your RTS Service Team

Please note that any technical information concerning above mentioned products
shall NOT be forwarded to any third party.

CPC Service Reference

Key Code CPC

a:	**Empty steam generator**
	Close water tap Close cabinet door and press steam key (B) Press key 1 and select 31°C (88°F) Open cabinet door Press key B until steam generator is empty
b:	**Setting time, language, °C -°F, CleanJet**
	Switch unit on Press key 1 and 2 until display changes to 24:00 or AM/PM Select time format with central dial Press key 1 - display changes to language Select language with central dial Press key 1 - display changes to °C-°F Select temperature format with central dial Press key 1 - display changes to CleanJet options Select CleanJet setting with central dial Confirm changes with key 5
c:	**Select diagnostic program**
	Switch unit on Select any mode (B or C) Press key 1, 3 and 4 until „Version" is shown in window 4 Select position with central dial press key 5 to show corresponding values
d:	**Select function test**
	Select position 43 of diagnostic program (procedure see above) Press key 5 until „0:00" is shown in window 2. Keep key 5 pressed and select 11:11 with central dial (form software version XS5.xx also 1:11 posible) Release key 5 and press once again STEAM 1 is displayed in window 4, select position with central dial; To activate press key 5; To quit from function test press key 1,3 and 4
e:	**Total Reset 1 (all cooking programs are erased)**
	Switch unit on Press key 3, 4 and 5 and switch off simultaneously Wait at least 4 seconds before switching on again.
f:	**Total Reset 2 (memory reset, all cooking programs + SRAM are erased)**
	Switch unit on Activate program lock (see below) Press key A, B and C and switch off simultaneously Wait at least 4 seconds before switching on again. NOTE: Humidity calibration must be performed!
g:	**Activate program lock**
	Switch unit on Open door and select any mode (B or C) Press key 4 - Delta Off is displayed Press key 5 and enter Password „Rational" (_ go to next character with key 2) Switch from „Lock off" to „Lock on" with key 1 and confirm with key 5.
h:	**Humidity calibration** (to be performed after: Changing Eprom, Total reset 2, fan wheel, air baffle, installation, changing P1-B4-M1)
	Software up to XS4_xx: cabinet must be below 40°C (104°F) (Index CA) Software from XS5_xx: abinet must be above 105°C (221°F) (from Index CB) In Diagnostic mode (see above) select Position 38 x-kalibr or Calibrate Press key 1 and 5 and close door
i:	**Service 1**
	Pump steam generator not functional (blocked, electrical fault etc)
j:	**Service 3, 4**
	IQT Sensor defectice
k:	**Service 5, 6**
	5: CleanJet error; rinse program was started 3x without completion 6: Detection of cleanJet arms not working Remedy: Close cabinet door, press keys 1,2 and 3 simultaneously
l:	**Abort** (only up to software version XS 5_03)
	To bring back unit to operator mode: Insert CleanJet Arm, press key 1, 2 and 3 until display changes to „X-1-**" Now press key 4 until display shows „CleanJet active"
m:	**Calccheck 1 - 4**
	1 - Check valve above team generator is leaking water during filling; 2, 3, 4 - not enough or no pulses from CDS Sensor; check sensor for scale deposits, check wiring;

Diagnostic mode CPC

Cabinet display	Time display	Cabinet display	Time display
Version	Software version		
Temp B1	Temperature B1 Actual Temperature (5537 = defekt)	Y1 FILLING	Running time in minutes
Temp B1	Temperature B2	Y2 QUENCH	Running time in minutes
Temp B1	Temperature B3	3 MOISTUR	Running time in minutes
Temp B4	Temperature B4	M4 / Y1 SC	Running time in minutes
Temp B5	Temperature B5	X8-1/2	open - Electric unit short - Gas unit
Temp B6	IQT	X8-3/4	open - EB50-small motor, 1 CleanJet Arm short - EB100-big motor, 2 CleanJet arms
Temp B7	IQT	X8-8/9	free
Temp B8	IQT	OPTINPUT	free
Temp B9	IQT	RPM	Index CD: 61, 101, 201-1450rpm 102,202 - 1740rpm
Temp B10	IQT	ST Mode	steam mode in hrs
Temp PCB	max 75°C (167°F)	HA Mode	hot air mode in hrs
S3	door contact 1= closed	Combi Mode	combi mode in hrs
S2	water level 1= ok	Clean Prog	CLEAN (99) mode in hrs
P1	pressure sensor Offset: ca 0,5V Hot air 60°C: ca 3V Combi 160°C: ca 1,5V	Lamps	Function test all LED
Clima	humidity in %	AC-Prog	CleanJet: window 1 - Progr. interrupt window 2- Number of CJ programs and run time in hrs
Clima FA	Standard: 00 P1, B4, Hall-Sensor	Calibrate	Start humidity calibration (refer to key code #g)
M3	humidity motor	Type	Select unit type by key 1 and confirm by key 5
HA-HEAT	1=Hot air 50% 2=Hot air 100%	Volume	Nominal and descaling volume steam generator; press key 1 and 5 after manual descaling for reference measuring;
ST-HEAT	1=Steam 50% 2=Steam 100%	Limescale	CDS no. of pulses /liter - 1060
SC-AUTO	Standard: 60min steam time	S/N	set index after total reset CB - with IQT from 02-99 CC - CleanJet from 03-00 CD - Motor control
SC-LENGTH	Standard: 45 Sek	FuncTest	Start Function test (refer to key code #d)

CD / CM Service Referenz (CPC Linie)

Error code

Cabinet display	Time display	Core probe display	
c1		Software Version (C1_06 actual)	
c2	Temperature B1	Actual temp. B1	
c3	Temperature B2	Actual temp. B2	
c4	Temperature B3	Actual temp. B3	
c5	Temperature B4	Actual temp. B4	
c6	Temperature B5	Actual temp. B5	
c7 - c11	no info		
c12	Temperatur PCB max	Actual temperature PCB	
c13	Türkontakt S3	no. of door openings	
c14	Solenoid Y1 Filling, 0=off; 1=on	0=no water at level electrode; 1= water at level electrode;	
c15 - c18	no info		
c19	Hot Air heating	0=off; 1=50%; 2=100% Gas: 1=100%	
c20	Steam heating	0=off; 1=50%; 2=100% Gas: 1=100%	
c21	Time since last SC-Automatic		
c22	Run time SC-Automatic in seconds		
c23	Run time Y1 filling		
c24	Run time Y2 quenching		
c25	Run time Y3 moistening		
c26	Run time M4 SC-pump	c - continuous running t - pulsing	
c27	1= type 61-101-201; 2=type 102-202 (control fan motor)		
c28	Gas; Ele(ctric)		
c29 - c31	no info		
c32	Run time steam (hrs)		
c33	Run time hot air (hrs)		
c34	Run time combi (hrs)		
c35	Run time Clean mode (hrs)		
c36	Activating all Displays		
c37 - 39	no info		
c40	entry position for function test (pls refer to key code list)		

Key code CD /CM (CPC Line)

a:	**Empty steam generator CD**
	Close water tap Cool cabinet below 70°C (158°F) Switch unit off Place magnet 2 seconds across „Cool Down" symbol Select „Steam" mode
b:	**Empty steam generator CM**
	Close water tap Close cabinet door Select hot air Set cabinet temperature to 32°C (90°F) Open cabinet door Switch over to Steam mode
c:	**Select Diagnostic Program CM**
	Select any mode Press program arrow and start key for 4 seconds until „c1" is displayed, Release program arrow and start key Select desired position (c1 - c40) with program arrow key Press Start key to read information
d:	**Select Function Test CM**
	Select last position (c40) in diagnostic program (see above); Hold „Start" key pressed until time display appears without .dot and set „111" with timer dial; Release start key and press once again Display changes to „C1" - other positions can be selected with program arrow key Activate position with „Start" key; To quit Function Test press program arrow and start key or switch unit off
e:	**Total Reset**
	Select any mode Press keys: program arrow, program start and cabinet temperature and Switch unit off at the same time; Wait at least 4 seconds befoe switching on again;
f:	**Changing °C - °F**
	Select any mode Open cabinet door Press cabinet temperature and Cool Down key until display changes from °C to °F
g:	**Changing quenching temperature**
	Select cooking mode where you intend to change the quenching temperature Press cabinet temperature and core probe key for 10 sec. until set temperature is indicated. Keep cabinet temperature and core probe keys pressed, turn core probe dial to zero before changing display to the desired quenching temperature (50-120°C)

Function test

Warning: Safety elements are bypassed		
	Time display	Actor
C1	S2=1: water level ok	Steam 50% (Gas=100%)
C2	S2=1: water level ok	Steam 100% (Gas=frei)
C3		Hot air 50%
C4		Hot air 100% (Gas=frei)
C5		Fan motor direction 1
C6		Fan motor direction 2
C7		Steam burner on
C8		Hot air burner on
C9		cabinet light on
C10		Solenoid Y2 (quenching)
C11		free
C12		Solenoid Y3 (moistening)
C13	1/0 - water at level electrode	Solenoid Y1 (filling)
C14		SC-pump
C15-16		free
C17		Buzzer
C18-20		Relais on pcb
C21		Show mode