Controller for bread and pizza deck ovens







I ENGLISH

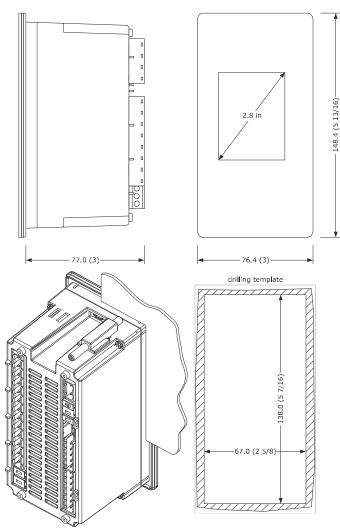
- power supply 115... 230 VAC or 24 VAC (according to the model)
- built-in clock
- chamber probe or top and floor probes (J/K or Pt 100 2-wire)
- multi-purpose input
- steam generator relay, 16 A res. @ 250 VAC
- alarm buzzer
- TTL MODBUS slave port for programming key or for BMS
- INTRABUS master/slave port (deck centralized management)
 USB port (set up recipe book)
- USB port (Set up recipe book)
- on-off/PI control
- independent regulation of the power or the top and floor temperature

Models available

models availab					
Purchasing code	Power supply	Type of analogue inputs	Number of digital outputs	Type of digital outputs for top and floor	
EV8318J9	115 230 VAC	for J/K thermo- couples or Pt 100 2-wire probes	8	electro- mechanical relay	
EV8318J4	24 VAC	for Pt 100 2-wire probes and J/K thermocou- ples	8	electro- mechanical relay	

MEASUREMENTS AND INSTALLATION

Measurements in mm (inches). To be fitted to a panel, screwed-in brackets provided.



The tolerance of the measurements of the drilling template is +0.2 -0 mm.

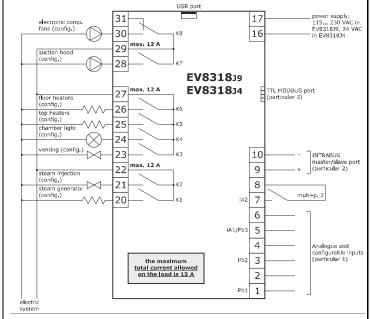
INSTALLATION PRECAUTIONS

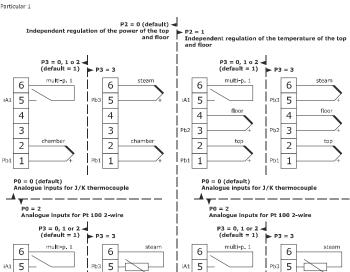
- the thickness of the panel must be between 0.8 and 5.0 mm (1/32 and 1/16 in)
- the maximum clamping torque applicable to the screwed-in brackets is 10 cNm
 ensure that the working conditions are within the limits stated in the TECHNICAL SPECIFICATIONS section
- do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations or shocks
- in compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them.

2 ELECTRICAL CONNECTION

N.B.

- use cables of an adequate section for the current running through them
- ensure that the thermocouple is properly insulated from contact with metal parts or use already insulated thermocouples
- if necessary, extend the thermocouple cables using compensating cables
- where they are two multi-purpose inputs, multi-purpose input 1 has priority ove multi-purpose input 2
- the TTL MODBUS port can be used as an alternative to the USB port and vice versa
 to reduce any electromagnetic interference locate the power cables as far away as possible from the signal cables.





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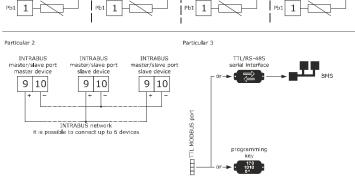
2

Pb2 3

4

2

Pb2 3



PRECAUTIONS FOR ELECTRICAL CONNECTION

4

3

2

- if using an electrical or pneumatic screwdriver, adjust the tightening torque
- if the device is moved from a cold to a warm place, humidity may cause condensation to form inside. Wait for about an hour before switching on the power
- make sure that the supply voltage, electrical frequency and power are within the set limits. See the section TECHNICAL SPECIFICATIONS
- disconnect the power supply before carrying out any type of maintenance
- do not use the device as a safety device
- for repairs and for further information, contact the EVCO sales network

3 FIRST-TIME USE

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3

2

- Carry out the installation following the instructions given in the section MEASUREMENTS AND INSTALLATION.
- Power up the device as set out in the section ELECTRICAL CONNECTION: an interna test will start up.
- The test normally takes a few seconds; when it is finished the display will switch off.

 Configure the device as shown in the section Setting configuration parameters.

Recommended configuration parameters for first-time use:

	Recom	nended configuration parameters for firs	t-time use:					
PAR.	DEF.	PARAMETER	MIN MAX.					
PO	0	type of probe	0 = J 1 = K					
			2 = Pt 100 2-wire					
P1	0	unit of measurement	0 = °C 1 = °F					
P2	0	operating logic	o = independent regulation of the top and floor power i = independent regulation of the top and floor temperature					
r3	130	default chamber setpoint when con-	r1 r2					
		figuring a phase	if P2 = 1, top setpoint					
r6	130	3.	r4 r5					
	I	ing a phase						

Then check that the remaining settings are appropriate; see the section CONFIGURA TION PARAMETERS.

- Disconnect the device from the mains.
- Make the electrical connection as shown in the section ELECTRICAL CONNECTION without powering up the device.
- When connecting to an RS-485 network, connect the EVIF22TSX interface. See the relative instruction sheets.
- Power up the device.

STAND-BY STOP (b)(c)(d) 0 ► INTERACTIVE 1 0 ► INTERACTIVE 2 display -0 ► INTERACTIVE 3 0 INTERACTIVE 4 STEAM INJECTION STEAM ➤ ENERGY SAVING GENERATOR

.1 Switching the device on/off

To switch the device on:

1. Touch the ON/STAND-BY key.

To switch the device off:

1. Touch the ON/STAND-BY key for 3 s.

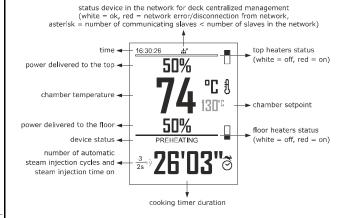
CHAMBER

LIGHT

If the device is on and the operating logic has independent regulation of the top and floor power (P2 = 0, default), the display will show:

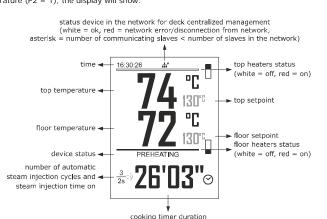
VENTING

SUCTION



If the chamber setpoint has been reached, the status of the device will show "READY", if not, it will show "PRE-HEATING".

If the device is on and the operating logic has independent regulation of the top and floor temperature (P2 = 1), the display will show:



If the top and floor setpoints have been reached, the status of the device will show "READY", if

If the device is switched off, the display will show the time. If the weekly programmed switchon function is activated, the display will also show the day and time of the next switch-on and the programme that will start.

If the status of the device shows an alarm code, see the section ALARMS.

4.2 Starting up/interrupting the cooking cycle

To start up a cooking cycle:
- make sure that the device is switched on

To interrupt the cooking cycle:

make sure that the device is switched on
 make sure that the cooking timer is set

1. Touch the START/STOP key: the cooking timer will start up and the status of the device will show "COOKING". When the timer stops, it will show "END".

1. Touch the START/STOP key for 1 s.

4.3 Setting the cooking timer

Make sure that the device is switched on.

1. O Touch the INTERACTIVE 4 key: the display will show the minutes in yellow.

1. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within

2. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value.

3. Touch the INTERACTIVE 3 key: the display will show the seconds in yellow.

Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within

4. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value.

5. Touch the INTERACTIVE 3 key (or take no action for 15 s).

EVCO S.p.A. EV8318 Ins	struction sheet ver. 3.2 Code 1048318E323 Page 2 of 4 PT 51/19	ı			•		
6. × o	Touch the INTERACTIVE 4 key to exit the procedure beforehand (any changes made will not be saved).		opn	DESCRIPTION vent open during the cooking cycle and for time u1 at the end of	6.4 1.	Temporary exclus	sion of a device from the deck centralized management Touch the ENERGY SAVING key for 3 s.
4.4.1 Setting the cha	mber setpoint (if P2 = 0) e is switched on.		clo	the cycle vent closed during the cooking cycle and at the end of the cycle	7	PROGRAMS	·
1. 1 • • • • • • • • • • • • • • • • • • •	Touch the INTERACTIVE 2 key: the display will show the value in yellow.	4.	√ · · · · · · · · · · · · · · · · · · ·	Touch the INTERACTIVE 3 key: the display will show the seconds in yellow. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within	7.1	Initial informatio	n 50 programs. To start up the cooking cycle with the settings stored
2.	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value within the limits r1 and r2 (default "0	5.	f A	15 s to set the value.	Each p	-	START/STOP key. of one or two cooking phases.
3.	300°). Touch the INTERACTIVE 3 key (or take no action for 15 s).	7.	× •	Touch the INTERACTIVE 3 key (or take no action for 15 s). Touch the INTERACTIVE 4 key to exit the procedure beforehand	To add	I the second phase: make sure that the	device is switched on
4. × °	Touch the INTERACTIVE 4 key to exit the procedure beforehand (any changes made will not be saved).	4.9		(any changes made will not be saved). amber light on/off (if u1c u8c = 3)	2.		Touch the CHAMBER LIGHT key for 3 s: the display will show the "Expert" menu. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Add phase".
4.4.2 Setting the top To set the floor setpoint:	and floor setpoints (if P2 = 1)	1.	♀	Touch the CHAMBER LIGHT key.	3.	✓ ·	Touch the INTERACTIVE 3 key.
·	he device is switched on Touch the INTERACTIVE 1 key: the display will show the value in		Switching the suc	ction hood on/off (if u1c u8c = 7) is switched on.	4.	× ·	Touch the INTERACTIVE 4 key to exit the procedure (or take no action for 60 s).
	yellow. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within	1.	🔒	Touch the SUCTION HOOD key.	To con	figure a phase:	
2.	15 s to set the value within the limits r1 and r2 (default "0 300").			aximum for the time u2. ON HOOD again to switch the hood off.	1.	make sure that the	device is switched on Touch the CHAMBER LIGHT key for 3 s: the display will show the "Expert" menu.
3. 0	Touch the INTERACTIVE 3 key (or take no action for 15 s). Touch the INTERACTIVE 4 key to exit the procedure beforehand	4.11	Keypad lock (clea	aning the device)	2.	f	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select a phase.
4. × °	(any changes made will not be saved).	1.	🔐	"Cleaning controller" and the remaining count of the time c10.	3.	√ °	Touch the INTERACTIVE 3 key.
To set the floor setpoint: - make sure that t 1.	he device is switched on Touch the INTERACTIVE 3 key: the display will show the value in yellow.	Touch	illencing the buzze a key. u8c = 10, the buz		4. To dele	Configure the devi	ice as shown in the previous paragraphs.
2.	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within		ADDITIONAL FUN Activating/deacti	CTIONS vating overheating	- 1.	·	device is switched on Touch the CHAMBER LIGHT key for 3 s: the display will show the
3. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	300°). Touch the INTERACTIVE 3 key (or take no action for 15 s).	-	make sure that par	device is switched on ameter P2 is set to 0 (default)	2.		"Expert" menu. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se-
4. X •	Touch the INTERACTIVE 4 key to exit the procedure beforehand	-		poking cycle is not active energy saving function is not active	3.	√ · · ·	lect "Delete phase". Touch the INTERACTIVE 3 key.
4.5 Setting the pow	(any changes made will not be saved).	1. When	overheating is activ	Touch the INTERACTIVE 4 key for 3 s. ated, the top and floor heaters remain on in continuous mode until	4.	√ °	Touch the INTERACTIVE 3 key again.
	ver delivered to the top and floor (if P2 = 0) wans the switch-on time of the top and floor heaters, calculated as a time r8.		each the threshold c		5.	× ·	Touch the INTERACTIVE 4 key to exit the procedure (or take no action for 60 s).
To set the power deliver	ed to the top: he device is switched on	5.2 -	make sure that the	vating the energy saving function device is switched on	7.2	Storing a program	
1.	Touch the INTERACTIVE 1 key: the display will show the value in yellow.	1.	make sure that the	overheating function is not active Touch the ENERGY SAVING key.	Config 1.		own in the previous paragraphs. $\begin{tabular}{lll} \begin{tabular}{lll} \begin{tabular}{l$
2.	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value.			Independent regulation of the top and floor power (P2 = 0, default), nction is active, the switch-on time of the top and floor heaters is re-			"Programs" menu, "Programs" appears in yellow. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se-
3. 🗸 💿	Touch the INTERACTIVE 3 key (or take no action for 15 s). Touch the INTERACTIVE 4 key to exit the procedure beforehand	duced	ne energy saving fu by the percentage c ckly set the percenta	9.	2.		written.
4. X o	(any changes made will not be saved).	-	make sure that the	device is switched on Touch the ENERGY SAVING key for 3 s: the display will show the	3.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Touch the INTERACTIVE 3 key: "Programs" will become white. Touch the INTERACTIVE 4 key to exit the procedure (or take no
To set the power deliver	ed to floor: he device is switched on	2.		value in yellow Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within	4.	×	action for 60 s).
1.	Touch the INTERACTIVE 3 key: the display will show the value in yellow.	3.	√ °	15 s to set the value. Touch the INTERACTIVE 3 key (or take no action for 15 s).	7.3 Make s	Starting a progra	is switched on.
2.	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value.	If the	operating logic has	I independent regulation of the top and floor temperature ($P2 = 1$),	1.		Touch the PROGRAMS key: the display will show the "PRO-GRAMS" menu.
3. 🗸 💿	Touch the INTERACTIVE 3 key (or take no action for 15 s). Touch the INTERACTIVE 4 key to exit the procedure beforehand	when t		unction is active, the switch-on time of the top and floor heaters is	2.	1	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select a program. Touch the INTERACTIVE 3 key: the program will start up, the
4.	(any changes made will not be saved).	The en	ergy saving function	remains active at maximum for the time c8.	3.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	status of the device will show the name of the program. Touch the INTERACTIVE 4 key to exit the procedure (or take no
4.6 Switching the s	team generator on/off (if u1c u8c = 4) e is switched on.		Setting the langu	s switched off.	4.	X [•]	action for 60 s).
1. € }1 ^{ON} OFF	Touch the STEAM GENERATOR key.	1.	*	Touch the INTERACTIVE 4 key: the display will show the "Configuration" menu. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se-	7.4 Make s	Deleting a progra	
4.7 Steam injection If a cooking cycle is not	o (if u1c u8c = 5)	2.	1	lect "Language". Touch the INTERACTIVE 3 key: the display will show the "Lan-	1.		Touch the PROGRAMS key: the display will show the "Programs" menu.
- make sure that t	active. he device is switched on he steam generator is switched on	3.		guage" menu. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se-	2.	1	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select a program.
1.	Touch the STEAM INJECTION key without releasing it.	5.		lect a language. Touch the INTERACTIVE 3 key.	3.	×	Touch the INTERACTIVE 4 key for 3 s.
	ated for as long as they key is held down.	6.	× [°]	Touch the INTERACTIVE 4 key to exit the procedure (or take no	4.	× •	Touch the INTERACTIVE 3 key. Touch the INTERACTIVE 4 key to exit the procedure (or take no
If a cooking cycle is active make sure that t	re: he steam generator is switched on	5.4	Display of device	action for 60 s).	5.		action for 60 s).
1.	Touch the STEAM INJECTION key. cically be activated for the time t8 (remaining off for the time t9) multi-		sure that the device		8.1	Initial informatio	MMED SWITCH-ON n 9 weekly programmed switch-ons. A program will start up when the
plied by the number of c		1. 2.		"Expert" menu. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se-	device		start up the cooking cycle with the settings stored in the program
If P3 = 3, the injector w	n" (i1 or $i4=6$) and that the input is active. ill be activated provided the temperature of the steam is no lower than	3.	√ · · · · ·	lect "Internal values" or "Alarms". Touch the INTERACTIVE 3 key.	8.2	Storing a switch-	
the threshold t3.	e the injector at start-up of cooking cycle:	4.	×	Touch the INTERACTIVE 4 key to exit the procedure (or take no	-	make sure that at I	ameter C5 is set to 1 (default) east one program has been stored
- make sure that t	e nie injector at stat eup or cooking cycle. he device is switched on he steam generator is switched on	6	DECK CENTRALIZ	action for 60 s).	1.	make sure that the	device is switched off Touch the INTERACTIVE 3 key.
1.	Touch the STEAM INJECTION key.	6.1	Initial informatio	•	2.	1 1 1 1 1 1 1 1 1 1	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Add switch-on".
2. Start up the coo	king cycle.	decks	and priority in the m	electric system. At the same time, an evenly distributed use of all anagement of the interconnected loads are both ensured.	3.	✓ ○	Touch the INTERACTIVE 3 key.
	9 and the number of cycles t10: he device is switched on	1.	Steam generator, o	t of the interconnected loads: chamber light and suction hood (immediate priority).	4.	f	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Day".
1. make sure that t	Touch the STEAM GENERATOR key for 3 s: the display will show the "Steam" menu.	2. 3. 4.	Loads of devices wi	mporarily excluded by the centralized management. Ith overheating function active. Government devices. The priority depends on the error between the working	5.	√ °	Touch the INTERACTIVE 3 key: the display will show the day in yellow.
2.	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within	It is po	point and the meas		6.		Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value.
LABEL	parameter t7). DESCRIPTION	6.2	Deck centralized		7.	✓ ·	Touch the INTERACTIVE 3 key (or take no action for 15 s). Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se-
T On T Off	t8 (steam injection time on) t9 (steam injection time off)	For all		ice is connected to the network as shown in the section ELECTRICAL	8.		louch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Time". Touch the INTERACTIVE 3 key: the display will show the time in
Cycles Steam gen.	t10 (number of steam injection automatic cycles) status of steam generator at start-up of cooking cycle (on, off,	-		"RABUS address (parameter MS1); it is possible to connect 1 master and up to 5 slave devices (MS1 = 2 6)	9.		yellow. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within
3. 🗸 💿	man. = the same status as the previous phase) Touch the INTERACTIVE 3 key: the display will show the value in yellow.	-	enable the deck cer	ntralized management (parameter MS2 = 1) entralized mnagement after power-on (parameter MS3 = 1)	11.	√ · · · · ·	15 s to set the value. Touch the INTERACTIVE 3 key: the display will show the minutes
4.	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value.	-	set the power abso	rbed from top (parameter Pt) rbed from floor (parameter Pf)	12.		in yellow. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value.
5. 🗸 💿	Touch the INTERACTIVE 3 key (or take no action for 15 s).	For the	master device:	rbed by the chamber light (parameter PbI). devices in the network (parameter MS6)	13.	√ °	Touch the INTERACTIVE 3 key (or take no action for 15 s).
6. × •	Touch the INTERACTIVE 4 key to exit the procedure beforehand (any changes made will not be saved).	-	set the available po	wer in the network (parameter MSG) wer in the electric system (parameter Pow) rbed from the suction hood (parameter Ph)	14.		Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Program".
4.8 Opening/closin Make sure that the device	g the vent (if u1c u8c = 6)	-	set the power abso	rbed from the steam generator (parameter Pb) um generator (parameter Pbt)	15.	√ °	Touch the INTERACTIVE 3 key: the display will show the program in yellow.
1.	e is switched on. Touch the VENTING key.	-	set the interval for set the difference b	interval for power distribution recalculation (parameter MS5) setween the number of slave in the network and the number of those	16.		Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value.
To set the amount of time	e for the vent to open in advance at the end of the cooking cycle:	For #	communicating (pa master (loads switce slave devices:	rameter MS7) such as to provoke the activation of protections in the ch off).	17.	√ °	Touch the INTERACTIVE 3 key (or take no action for 15 s).
- make sure that t	ne device is switched on cooking cycle is not active	- ror the	set the consecutive	e time without communication without communication with the mas- oke the independent regulation (parameter MS4).	18.		Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Save".
1. [#]	Touch the VENTING key for 3 s: the display will show the "Venting" menu.	6.3		ntralized management	19.	✓ • • • • • • • • • • • • • • • • • • •	Touch the INTERACTIVE 3 key. Touch the INTERACTIVE 4 key to exit the procedure (or take no
2.	Touch the INTERACTIVE 3 key: the display will show the minutes in yellow. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within	1.		Touch the ENERGY SAVING key.	20.	X [•]	action for 60 s).
3.	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value or a label.						
		-					

	ce.		1			(the reset will not be carried out).						jection cycles default	-1 = until generator switched off
	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select a switch-on.	10	CON	FIGUR	ATION	PARAMETERS							if t7 = 0 or 1, number automatic cycles
IOI	Touch the START/STOP key: the display will show the day and time of the next switch-on and the program that will start.		N. 1	PAR.	DEF.	ANALOGUE INPUTS type of probe	MIN MAX. 0 = J		N. 43	PAR.	DEF.	ALARMS temperature alarm switch off dif-	MIN MAX. 1 99 °C/°F
ΙΟΙ	Touch the ON/STAND-BY key to switch the device off without activating the switch-ons.		2	P1	0	unit of measurement	2 = Pt 100 2-wire 0 = °C 1 = °F		44			ferential high temperature alarm thresh-	
1			3	P2	0	operating logic	0 = independent regulation			A1	0	old	
Changing a switch							of the top and floor power		45	A2	0	high temperature alarm delay and delay after modifying set-	0 240 min
· · ·	Touch the INTERACTIVE 3 key.						1 =independent regulation of the top and floor	S	46	A3	0	point high temperature alarm type	0 = disabled
√ ^ · · ·	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Switch-ons".		4	P3	1	type of steam injection	temperature 0 = disabled						1 = absolute
	Touch the INTERACTIVE 3 key: the display will show the switch-		-		'	type of steam injection	1 = manual and automatic		47	A4	70	0 '	2 = relative to setpoint 0 88 °C/175 °F
	ons in yellow. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se-	Q					(with t8, t9 and t10) if generator is on		48	A5	240	alarm threshold power failure duration due to in-	0 = disabled 0 240 min
	lect a switch-on.						2 = manual and automatic (with t8, t9 and t10),		N.	PAR.	DEF.	terruption of cooking cycle DIGITAL INPUTS	0 = disabled MIN MAX.
	Touch the INTERACTIVE 3 key. Touch the INTERACTIVE 4 key to exit the procedure (or take no						with digital input active and if generator is on		49	iO	0	activation multi-purpose input 1	0 = with contact closed
\times	action for 60 s).						3 = manual and automatic		50	i1	4	multi-purpose input 1 function	1 = with contact open 0 = disabled
Deleting a switch	-on						(with t8, t9 and t10), thermoregulated (with					(option 6 effective only if P3 = 2)	1 = suction hood on open alarm)
sure that the device i							t1, t2 and t3) and if generator is on					,	2 = steam injection off, and floor heaters
	Touch the INTERACTIVE 3 key.		5	CA1	0	chamber probe offset	-25 25 °C/°F if P2 = 1, top probe offset						suction hood on
	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Switch-ons".		6	CA2	0	floor probe offset	-25 25 °C/°F						open alarm) 3 = switches device on/o
✓ □	Touch the INTERACTIVE 3 key: the display will show the switchons in yellow.		7 N.	CA3	O DEF.	steam probe offset REGULATION	-25 25 °C/°F MIN MAX.						4 = steam generator off and floor heaters
	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se-		8	r0	5	setpoint chamber differential	1 99 °C/°F						(thermal switch ala
/ ·	lect a switch-on.						if P2 = 1, top setpoint and floor setpoint differential						5 = energy saving a tion/deactivation
	Touch the INTERACTIVE 3 key. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se-		9	r1	0	minimum chamber setpoint	effective if r10 = 0 0 °C/°F r2						6 = enable steam inject7 = steam injection
	lect "Delete switch-on".						if P2 = 1, minimum top set-		51	i2	0	door open alarm delay and ther-	0 120 s
✓ □	Touch the INTERACTIVE 3 key.		10	r2	300	maximum chamber setpoint	r1 999 °C/°F	3		L		mal switch alarm delay from multi-purpose input 1	
✓ ·	Touch the INTERACTIVE 3 key again.						if P2 = 1, maximum top set- point	1	52	i3	0	multi-purpose input 2 activation	0 = with contact closed 1 = with contact open
× 「	Touch the INTERACTIVE 4 key to exit the procedure (or take no		11	r3	130		r1 r2		53	i4	6	multi-purpose input 2 function	0 = disabled
	action for 60 s).		12	r4	0	configuring a phase minimum floor setpoint	if P2 = 1, top setpoint 0 °C/°F r5					(option 6 effective only if P3 = 2)	1 = suction hood on open alarm)
SETTINGS Setting configura	tion necessators		13	r5	300	maximum floor setpoint default floor setpoint when con-	r4 999 °C/°F						2 = steam injection of and floor heaters
	tion parameters		14	r6	130	figuring a phase							suction hood on
N.B. Changing paramet	er P2 causes the value of the parameters whose unit of measure-	*	15	r7	0	constraint between top and floor powers	0 = disabled 1 = changing a power						open alarm) 3 = switches device on.
	be changed automatically.						causes the other to be changed automatically						4 = steam generator of and floor heater
re that the device i	s switched off.						so that the sum of the						(thermal switch ala
* •	Touch the INTERACTIVE 4 key: the display will show the "Configuration" menu.		16	r8	80	cycle time for top and floor heat-	two is always 100						5 = energy saving a tion/deactivation
√ \ • • •	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se-					ers on	if P2 = 1, cycle time for top and floors heaters on in en-						6 = enable steam inject7 = steam injection
✓ [•]	lect "Service". Touch the INTERACTIVE 3 key: the display will show "Password"						ergy saving mode		54	i5	0	door open alarm delay and ther-	0 120 s
	in yellow. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within						if P2 = 1 and r10 > 0, cycle time PI					mal switch alarm delay from multi-purpose input 2	
	15 s to set "-19".		17	r9	0	minimum time top and floor heaters on and off	0 240 s we recommend > 10 s		N. 55	PAR. u0	DEF.	DIGITAL OUTPUTS opening vent	MIN MAX. 0 = with contact closed
✓ □	Touch the INTERACTIVE 3 key: the display will show the "Service" menu.		18	r10	50	proportional band	0 99 °C/°F					, ,	1 = with contact open
	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select a parameter.						0 = on-off control effective only if P2 = 1		56	u1	10	time vent open from end of cook- ing cycle	0 600 s -1 = open until close
<u> </u>	Touch the INTERACTIVE 3 key: the display will show the parame-		19	r11	80	integral action time	0 999 s		57	u2	10	time suction hood on	pressing key 0 999 s
	ter in yellow. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within						0 = P control effective only if P2 = 1			u2	10	time suction nood on	0 = switching on/off by
†	15 s to set the value.		N. 20	PAR.	DEF.	GENERAL SETTINGS time buzzer on from end of cook-	MIN MAX. -1 120 s		58	u3	0	switch the chamber light on switching the device on	0 = yes $1 = no$
✓ <u>•</u>	Touch the INTERACTIVE 3 key (or take no action for 15 s).					ing cycle	-1 = until silencing		59	u4	0	switch the chamber light off	0 = yes $1 = no$
\times \Box	Touch the INTERACTIVE 4 key to exit the procedure (or take no action for 60 s).		21	c1	0	activate buzzer for 1 s at end of the cooking phase	0 = no 1 = yes		60	u6	60	switching the device off operating temperature threshold	20 65 °C/65 150 °F
Satting the time :	· and day of the week		22	c2	60	keyboard inactivity time to	0 240 min 0 = disabled					when electronics compartment fans on and device off	fans always on with dev and device sensor in
_	45, 6, 11, 11, 11, 11, 11, 11, 11, 11, 11,	1				switch off the device from weekly programmed switch-on activation			61	u7	10	u6 differential	mode 1 99 °C/°F
N.B. Do not disconnect	the device from the mains in the two minutes after setting the time	1	23	с3	10	high chamber temperature	0 99 °C/°F		62	u8	0	activate chamber light flashing	
and day of the wee	ek.					threshold for locked display (relative to chamber setpoint)	chamber setpoint + c3 0 = disabled					for 10 s at end of the cooking cy- cle	
ire that the device i	T. Control of the con		24	с4	10	low chamber temperature	0 99 °C/°F		63	u1c	4	K1 output configuration	0 = disabled 1 = top heaters
* •	Touch the INTERACTIVE 4 key: the display will show the "Configuration" menu.					threshold for locked display (relative to chamber setpoint)	chamber setpoint - c4 0 = disabled						2 = floor heaters
√ \ . · · · · · · · · · · · · · · · · · ·	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Clock".		25	с5	1	enable weekly programmed switch-on	0 = no 1 = yes						3 = chamber light 4 = steam generator
	Touch the INTERACTIVE 3 key.	Ç _o	26	с6	0	activate overheating at power-on							5 = steam injection 6 = venting
	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se-	~	27	с7	150	chamber temperature threshold	effective only if P2 = 0 0 999 °C/°F						7 = suction hood
	lect "Time".					for end of overheating	0 = on reaching the working setpoint						8 = electronics compar fans
✓ <u>•</u>	Touch the INTERACTIVE 3 key: the display will show the time in yellow.		2.	_		moving at 11 o	effective only if P2 = 0						9 = on/stand-by 10 = sound
	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value.		28	c8	60	maximum duration of energy saving	0 240 min 0 = until manual deactiva-		64	u2c	5	K2 output configuration	0 = disabled
<u></u> √ □	Touch the INTERACTIVE 3 key: the display will show the minutes						tion not effective if activated by	×					1 = top heaters2 = floor heaters
	in yellow. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within			<u> </u>	-		digital input						3 = chamber light4 = steam generator
	15 s to set the value.		29	с9	50	percentage reduction time top and floor heaters on in energy							5 = steam injection
<u> </u>	Touch the INTERACTIVE 3 key (or take no action for 15 s).		30	c10	10	saving mode duration of controller cleaning	1 120 s						6 = venting 7 = suction hood
	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Day".		31	c10	0	setting used at end of the cook-	0 = setting phase 1						8 = electronics compar fans
✓ □	Touch the INTERACTIVE 3 key: the display will show the day in yellow.		32	c12	0	ing phase deactivate the energy saving	1 = last settings 0 = yes 1 = no						9 = on/stand-by
	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within		N.	PAR.	DEF.	switching the device off STEAM INJECTION	MIN MAX.		65	u3c	6	K3 output configuration	10 = sound 0 = disabled
	15 s to set the value.		33	t1	100	steam setpoint	0 500 °C/°F						1 = top heaters 2 = floor heaters
<u> </u>	Touch the INTERACTIVE 3 key (or take no action for 15 s). Touch the INTERACTIVE 4 key to exit the procedure (or take no		34 35	t2	5 50	steam setpoint differential steam temperature threshold for	1 99 °C/°F						3 = chamber light
\times \circ	action for 60 s).					injection stoppage (relative to	steam setpoint - t3						4 = steam generator 5 = steam injection
Restoring factory	settings (default)					steam setpoint)	injection available on reach- ing steam setpoint						6 = venting 7 = suction hood
N.B.		1	36	t4	1	activate automatic steam injection cycles at start-up of cooking	0 = no 1 = yes						8 = electronics compar fans
	tory settings are appropriate; see the section CONFIGURATION PA-	1	2-	15	<u> </u>	cycle	0 - no 1						9 = on/stand-by
Check that the fac			37	t5	1	deactivate automatic steam injection cycles at end of cooking	0 = no 1 = yes		66	u4c	3	K4 output configuration	10 = sound 0 = disabled
	1	2	38	t6	0	cycle steam generator on at power-on	0 = no 1 = yes					a, a see a s	1 = top heaters
Check that the face RAMETERS.	Touch the INTERACTIVE 4 key: the display will show the "Configuration" menu.	િંદ	39	t7	2	time available with quick setting	0 = injection time on						2 = floor heaters 3 = chamber light
Check that the face RAMETERS.		1	1			of automatic steam injection cycles	1 = injection time on and in- jection time off						4 = steam generator 5 = steam injection
Check that the face RAMETERS.	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Service".						·	1	1			i .	
Check that the fac RAMETERS.	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Service". Touch the INTERACTIVE 3 key: the display will show "Password"						2 = injection time on, injec-						6 = venting
Check that the fac RAMETERS.	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Service".						tion time off and number of automatic cycles						7 = suction hood
Check that the fac RAMETERS.	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Service". Touch the INTERACTIVE 3 key: the display will show "Password" in yellow. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set "149".						tion time off and number						7 = suction hood 8 = electronics compar fans
Check that the fac RAMETERS.	Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Service". Touch the INTERACTIVE 3 key: the display will show "Password" in yellow. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within		40	t8	2	steam injection default time on	tion time off and number of automatic cycles 3 = injection time on and number of automatic cycles						7 = suction hood 8 = electronics compar

100.0		E1/0040	Literature	. N	20 D 4 . 6 4 DT 54 /40
v00 3.	67	u5c	1	ction sheet ver. 3.2 Code 1048318E32	0 = disabled 1 = top heaters 2 = floor heaters 3 = chamber light 4 = steam generator 5 = steam injection 6 = venting 7 = suction hood 8 = electronics compartment fans 9 = on/stand-by
					10 = sound
	68	u6c	2	K6 output configuration	0 = disabled 1 = top heaters 2 = floor heaters 3 = chamber light 4 = steam generator 5 = steam injection 6 = venting 7 = suction hood 8 = electronics compartment fans 9 = on/stand-by 10 = sound
	69	u7c	7	K7 output configuration	0 = disabled 1 = top heaters 2 = floor heaters 3 = chamber light 4 = steam generator 5 = steam injection 6 = venting 7 = suction hood 8 = electronics compartment fans 9 = on/stand-by 10 = sound
	70	u8c	8	K8 output configuration	0 = disabled 1 = top heaters 2 = floor heaters 3 = chamber light 4 = steam generator 5 = steam injection 6 = venting 7 = suction hood 8 = electronics compartment fans 9 = on/stand-by 10 = sound
	N.	PAR.	DEF.	MODBUS	MIN MAX.
Id	71	LA Lb	3	MODBUS address MODBUS baud rate	1 247 0 = 2,400 baud 1 = 4,800 baud 2 = 9,600 baud 3 = 19,200 baud
	N. 73	PAR. MS1	DEF.	CENTRALIZED MANAGEMENT INTRABUS address	MIN MAX.
	74	MS2	0	enable deck centralized man-	1 = dispositivo master 0 = no 1 = yes
	75	MS3	0	agement activate deck centralized man-	0 = no $1 = yes$ $0 = no$ $1 = yes$
	76	MS4	30	agement after power-on consecutive time without communication with master for inde-	10 240 s
	77	MS5	30	pendent regulation interval for power distribution re- calculation	5 999 s
	78	MS6	1	number of devices in the network	1 6
4 0,	79	MS7	1	difference between number of slaves in the network and num- ber of slaves communicating for master protections (master loads off)	if number of communicating slaves < MS6, the master as- signs the not communicating slaves a power equivalent to its own
	80	Pow	999	available power in the electric system	0 999 KW
	81	Pt	0	absorbed power from top	0 9999 W x 10 for its deck
	82	Pf	0	absorbed power from floor	0 9999 W x 10 for its deck
	83	Ph	0	absorbed power from the suction hood	
		Pb	0	absorbed power from the steam	
	84	FD		· '	
	85	Pbt	0	generator steam generator type	for its deck or in common 0 = for its deck 1 = in common

11 ALARMS		
LABEL	RESET	TO CORRECT
Chamber probe	automatic	- check P0
Top probe	automatic	- check the integrity of the probe
Floor probe	automatic	- check electrical connection
Steam probe	automatic	
Board probe	automatic	check operating temperature
time flashing	manual	set time and day of the week
Chamber high temp.	automatic	check A1 and A3
Top high temp.	automatic	check A1 and A3
Floor high temp.	automatic	check A1 and A3
Controller high temp.	automatic	check A4
Door	automatic	check i0, i1, i3 and i4
Power failure	manual	- touch a key
		- check A5
		- check electrical connection
Thermal switch	manual	check i0, i1, i3 and i4
Top thermal switch	manual	check i0, i1, i3 and i4
Floor thermal switch	manual	check i0, i1, i3 and i4

86 Pbl O absorbed power from chamber 0... 9999 W x 10 for its deck

12 TECHNICAL SPECIFICATIONS				
Purpose of the control device:	function controller.			
Construction of the control device:	built-in electronic device.			
Housing:	black, self-extinguishing.			
Category of heat and fire resistance:	D.			
Measurements:	76.4 x 148.4 x 77.0 mm (3 x 5 13/16 x 3 in).			
Mounting methods for the control device:	to be fitted to a panel, screwed-in brackets provided.			
Degree of protection provided by the covering:	IP65 (front).			
Connection method:				
plug-in screw terminal blocks Pico-Blade of for wires up to 2.5 mm ²	nnector female Micro USB connector.			
Maximum permitted length for connection cal	oles:			
power supply: 10 m (32.8 ft)	analogue inputs: 10 m (32.8 ft)			
digital inputs: 10 m (32.8 ft)	digital outputs: 10 m (32.8 ft)			
Operating temperature:	from 0 to 60 °C (from 32 to 140 °F).			
Storage temperature:	from -25 to 70 °C (from -13 to 158 °F).			
Operating humidity:	relative humidity without condensate from 10 to 90%.			

	Pollution status of	of the control de	evice:	3.				
	Compliance:							
	RoHS 2011/65/E	C	WEEE 2012/19	9/EU REACH (EC) Regulation N. 1907/2006				
	EMC 2014/30/EL	J		LVD 2014/35/EU.				
	Power supply:			115 230 VAC (+10% -15%), 50/60 Hz (±3				
				Hz), max. in EV8318J9				
				24 VAC (+10% -15%), 50/60 Hz (±3 Hz),				
				max. in EV8318J4				
ı	Earthing method	s for the contro	I device:	none.				
ı	Rated impulse-w	ithstand voltage	e:	2.5 KV				
ı	Over-voltage cat	egory:		H.				
	Software class a	nd structure:		A.				
	Clock:			built-in seconda	ary lithium battery.			
ı	Clock drift:			≤ 60 s/month a	at 25 °C (77 °F).			
1	Clock battery au	utonomy in the	absence of a	> 24 h at 25 °C	C (77 °F).			
ı	power supply:							
1	Clock battery cha	arging time:			ery is charged by the power			
1				supply of the de				
ı	Analogue inputs:			2 for J/K thermocouples or Pt 100 2-wire				
ı				probes (chamber probe or top and floor				
			C 11	probes).				
	J thermocou-		field:	from 0 to 700 °C (from 32 to 999 °F).				
	ples:	Resolution:		1 °C (1 °F).				
	K thermocou-	Measurement	rieia:	from 0 to 999 °C (from 32 to 999 °F). 1 °C (1 °F). from 0 to 650 °C (from 32 to 999 °F).				
	ples:	Resolution:	C 11					
	Pt 100 probes:	Measurement	neia:					
	Digital inputs	Resolution:	1 deu contact	1 °C (1 °F).				
	Digital inputs: Dry contact:		Contact type:	t (multi-purpose 2).				
	Dry contact:		Protection:	3.3 V, 1 mA none.				
	Other inputs:			urod for analogu				
	Other inputs.			jured for analogue input (steam probe) or digi- lti-purpose input 1).				
	Digital outputs:				ay (K1K8 relays).			
1	g.ta. oatpats.				rent permitted for loads is			
1			15 A.					
	K1 relay:		•	SPST, 16 A res. @ 250 VAC.				
	K2K7 relay :			SPST, 8 A res.				
1	K8 relay:			SPDT, 8 A res.	@ 250 VAC.			
	Type 1 or Type 2	2 actions:		Type 1.				
	Additional featur	res of Type 1	or Type 2 ac-	C.				
	tions:							
	Displays:			2.8 inch TFT colour graphic display.				
1	Alarm buzzer:			built-in.				
1	Built-in sensors:			1 (operating temperature).				
1	Communications							
1	1 TTL MODBUS		1 INTRABUS		1 USB port (set up recipe			
	programming ke	-		ntralized man- book).				
		I.	agement)	I				
- 1								

N.B.
The device must be disposed of according to local regulations governing the collection of electrical and electronic equipment. of electrical and electronic equipment.

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