

# *"FastPAD"* GAS & ELECTRIC

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## 1. ELECTRICAL DIAGRAMS

#### 1.1 GAS OVENS

LISTS OF ELECTRICAL PARTS

Ref.	DESIGNATION	CHARAG	CTERISTICS	QUANTITY	CODE
Af	FastPAD 2 screen card			1	309 634
Ar	FastPAD 2 maxi power assembly			1	309 665
-	Coder			1	309 644
B1	Cavity probe PT 100			1	301 485
Bd	Flow meter			1	314 404
Bsc	Core probe	Delicate produ	ct 2.5 Ø x 100mm	1	301 476
	Core probe		.5 Ø x 100mm	1	301 474
	Core probe terminal strip			1	401 477
	Silicone cover			1	366 554
Ea	Gas ignition			1	408 402
Ebgr	Electrode	Curveo	(ignition)	1	468 400
			ition/ionisation)		468 401
Ee	LED band	ettalgitt (igit		1	309 638
F1 – F5	Fuse 3.15 Amps			1	309 407
F2	Fuse 1 Amp			1	309 789
F3	Fuse 10 Amps			1	309 788
F4	Ultra fast 0.2 Amp fuse			1	300 787
Fc	320° reset thermostat			1	301 066
FPdn	+140°C thermostat	Cleaning	product pump	1	-
Ftco	2 Amp time delay fuse		ontrol	1	300 801
Fvb	2 Amp time delay fuse		ontrol	1	300 801
Ftmv	10 Amp fuse ATDR10	-	motor	1	300 793
Ks	Safety contactor		s (all models)	1	300 697
Kvb	Burner contacter		s (all models)	1	300 697
Kv	Wastewater drainage relay valve	Cas oven		1	300 282
Mpn	Cleaning pump			1	314 396
in pri	Cleaning pump condenser			1	304 311
Мо	Motorised vent valve motor			1	305 110
Mt1	Technical cooling fan			1	304 297
Mvn	Drain valve			1	314 395
Pdn	Dosing pump	Cleanir	ng product	1	314 379
Pdt	Dosing pump		ng product	1	304 312
Sp	Reed switch bulb (Flexible blade switch)		safety system	1	300 676
Ta	Supply interrupter		thing	1	308 350
Тсо	415VA Auto transformer		ontrol	1	308 499
Tmo	Transformateur Oura motorisé			1	308 492
Tmv	Transformateur moteur ventilation 830VA	120	V-480V	1	308 498
Tdt1 – Tdt2	Descaler pump transformer	120	v -400 v	2	308 492
Tva	Drainage valve transformer			1	308 492
Xa + Za	Supply terminals and interference suppressor			1	309 608
<u> </u>	Condenser solenoid valve			1	314 397
Yf - Yi	2 ways 2 x 10 L/min solenoid valve			1	314 397
Zs	Anti-parasitic filter for contacter			1	300 769
23		1		I I	300709
Ref.	DESIGNATION	7 GN1/1	10 GN1/1	10 GN2/1	CODE
Ap	Burner control card	1	1	1	309 704
Avr1	Flame control card	1	1	1	310 356
Cm	Condenser 20 µF	-	-	1	304 310
	Condenser 12.5 µF	1	1	-	304 296
Fm1	Fan motor sensor	1	1	1	-
M1	Ventilation motor	1	1	-	304 295
		· · · ·	· · ·	4	204 200

-

1



Centrifugal fan 120V

Mv1 - Mvb

-

1

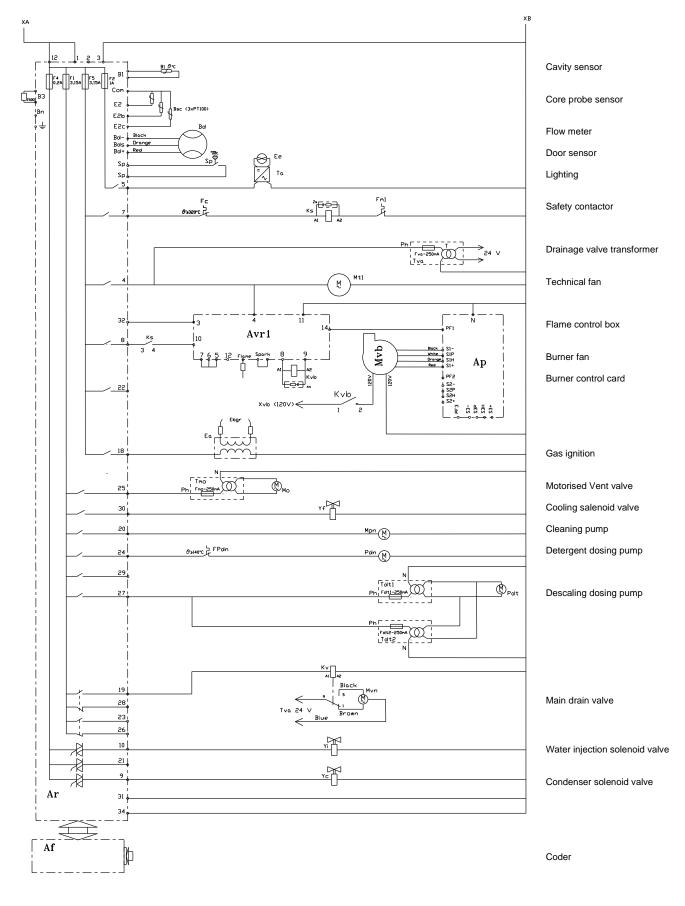
1

1

304 308

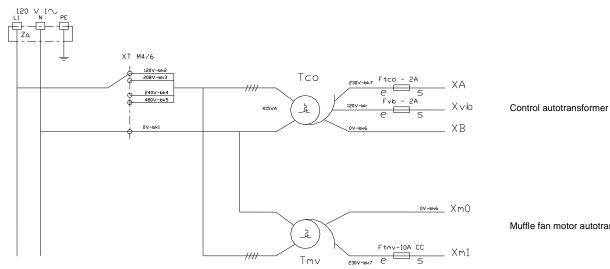
304 313

WIRING DIAGRAM



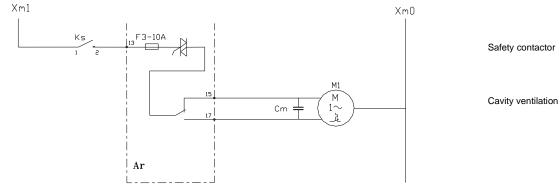


#### POWER DIAGRAM



Muffle fan motor autotransformer

#### CAVITY VENTILATION DIAGRAM



Cavity ventilation motor



## 1.2 ELECTRIC OVENS

#### LISTS OF ELECTRICAL PARTS

#### Designation of common parts

Ref.	DESIGNATION	CHARACTERISTICS	QUANTITY	CODE
Af	FastPAD 2 screen card		1	309 634
Ar	FastPAD 2 maxi power assembly		1	309 665
-	Coder		1	309 644
B1	Cavity probe PT 100		1	301 485
Bd	Flow meter		1	314 404
Bsc	Core probe	Delicate product 2.5 Ø x 100mm	1	301 476
	Core probe	Rotisserie 4.5 Ø x 100mm	1	301 474
	Core probe terminal strip		1	401 477
	Capot silicone		1	366 554
Ee	LED strip		1	309 638
F1 – F5	Fuse 3.15 Amps		1	309 407
F2	1 Amp time delay fuse		1	309 789
F3	Fuse 10 Amps		1	309 788
F4	Ultra fast 0.2 Amp fuse		1	300 787
Fc	320° reset thermostat		1	301 066
FPdn	+140°C thermostat	Cleaning product pump	1	-
Ftco	2 Amp time delay fuse	Control	1	300 801
Ftmv	10 Amp Fuse ATDR10	Ventilation motor	1	300 793
Κv	Wastewater drainage relay valve		1	300 282
Mpn	Cleaning pump		1	314 396
-	Cleaning pump condenser		1	304 311
Мо	Motorised vent valve motor		1	305 110
Mt1	Technical cooling fan	(1 <sup>st</sup> technical fan)	1	304 297
Mt2	Technical cooling fan	(2 <sup>nd</sup> technical fan)	1	304 297
Mvn	Drain valve		1	314 395
Pdn	Dosing pump	Cleaning product	1	314 379
Pdt	Dosing pump	Descaling product	1	304 312
Sp	Reed switch bulb (Flexible blade switch)	Door closing safety system	1	300 676
Та	Supply interrupter	Lighting	1	308 350
Тсо	415VA Autotransformer	Control	1	308 499
Tmo	Motorised damper transformer		1	308 492
Tmv	830VA fan motor transformer	480V	1	308 498
Tdt1 – Tdt2	Descaler pump transformer		2	308 492
Tva	Drainage valve transformer		1	308 492
Yc	Condenser solenoid valve		1	314 397
Yf - Yi	2 ways 2 x 10 L/min solenoid valve		1	314 398
Za	Supply Interference suppressor		1	309 639

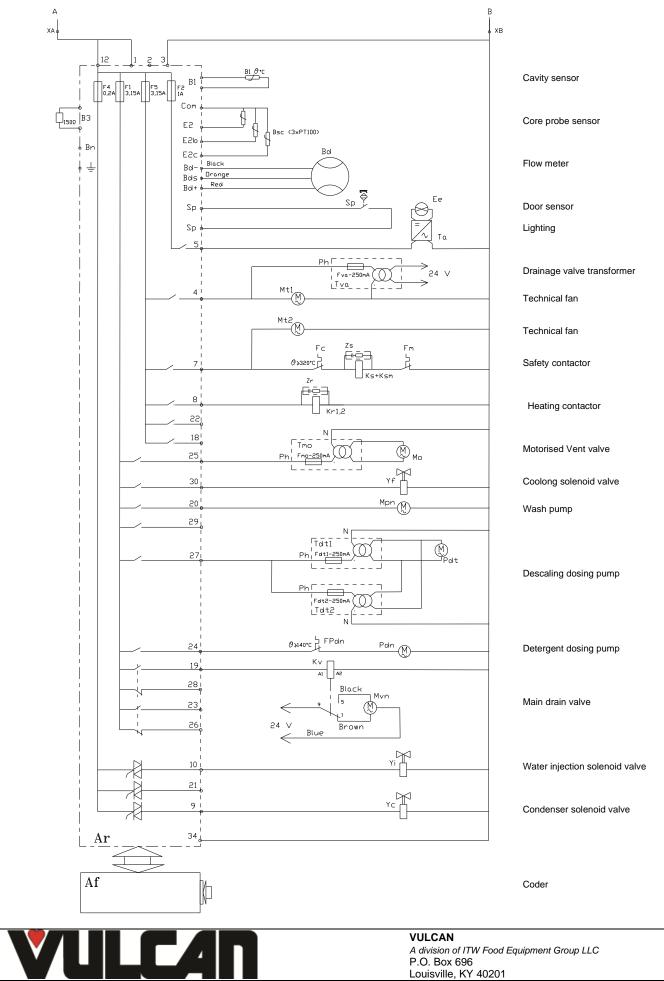
Ref.	DESIGNATION	7 GN1/1	10 GN1/1	10 GN2/1	CODE
Cm	Condenser 20 µF	-	-	1	304 310
	Condenser 12.5 µF	1	1	-	304 296
Fm	Ventilator motor sensor	1	1		-
M1	Fan motor	1	1	-	304 295
		-	-	1	304 308
Rc1, Rc2	Resistors 11.43 kW 208/240V	-	-	1 (240V)	148 096
	Resistors 11.43 kW 208/240V	1 (208/240V)	-	-	147 960
	Resistors 11 kW 480V	-	-	1 (480V)	148 098
	Resistors 19.6 kW 208/240V	-	1 (208/240V)	1 (208/240V)	147 961
	Resistors 19.3 kW 208V	-	-	1 (208V)	147 962
	Resistors 22 kW 480V	-	-	1 (480V)	147 097

#### List of contactors

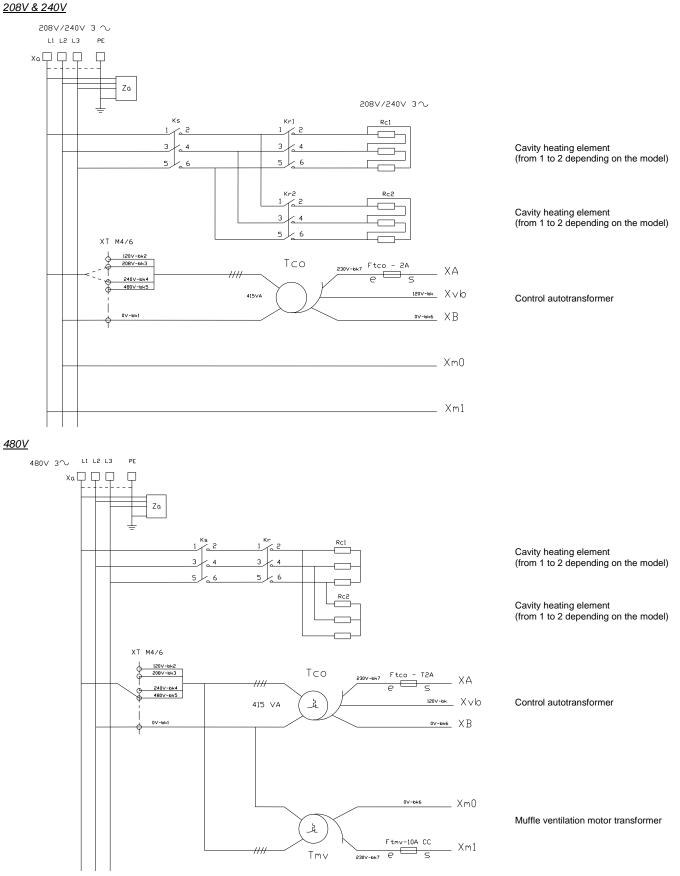
Rep.	DESIGNATION	7 GN1/1	10 GN1/1	10 GN2/1	CODE
Ks	Safety contactor	-	-	1 (480V)	300 700
		-	-	1 (208/240V)	300 798
		1 (208/240V)	1 (208/240V)	-	300 702
Ksm	Motor safety switch	1	1	1	300 697
Kr1, Kr2	Cavity heating contactor	-	-	2 (208V) / 1 (480V)	300 700
		1 (208/240V)	1 (208/240V)	2 (240V)	300 702
Zs	Interference suppressor	1	1	1 / 1 (480V)	300 769
		-	-	1 (208/240V)	300 799
		1	1	-	407 002
Zr	Interference suppressor	-	-	2 (208V) / 1 (480V)	300 769
		1	1	2 (240V)	407 002



WIRING DIAGRAM



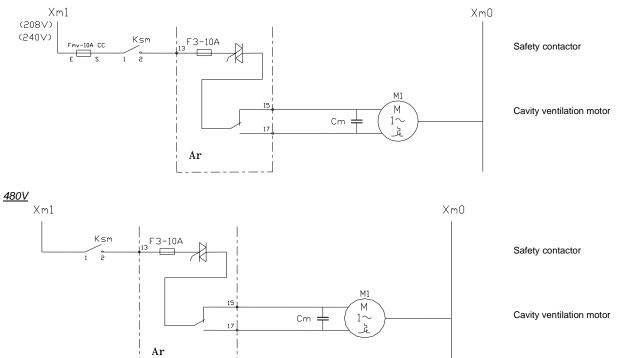
## POWER DIAGRAM THREE PHASE





#### CAVITY VENTILATION

#### <u>208V & 240V</u>





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#### 2. PROGRAMME DE PARAMETRAGE

This operation is required if there a change of either the power assembly, the screen card or a change of FastPad software. Before programming check the software is in the local language and change if necessary.

#### 2.1 SETTING THE SOFTWARE LANGUAGE

- Select the "TOOL BOX" menu
- Select the "Client parameters" screen
- Enter the password « CHEF » : Permanent password (lower or uppercase)
- Validate "V" : When finished, if the code is correct access the menu in not re-enter the PIN number.
- Modify the programme language if necessary (En : English by default)
  - \* Select the zone of the value to be changed
  - \* Adjust the value using the coder knob



#### 2.2 OVEN SETTINGS

- Select the "TOOL BOX" menu
- Select the "Technician parameters" screen
- Enter the password : « SAVB »
- Validate "V": When finished, if the code is correct access the menu in not re-enter the PIN number.
- Reconfigure the oven
  - \* Select the zone of the value to be changed
  - \* Adjust the value using the coder knob





**TOOL BOX** 

Q

Q

4100

YES NO

MANU

AUTO	MANU TOOL BOX	
Brand : Vulcan		•
Model : MINI	10 1/1 20 1/1	•
6 1/1	10 2/1 20 2/1	
	YES NO	
Energy : Gas	Elec	
Voltage : 240V	Power : 31.0kW	
Hz : 50 Hz	60 Hz	
Steam : Boiler	Inject	
Cleaning :	Simple With Recycling	
Default Display : DEFAUL	SETTING REAL	
Core probe:	Singlepoint Multipoint	
Core probe offset :		
Descaling :	YES NO	
Back Parameters	Update Next	
10/10/2020	12:00:00	

 Commercial brand of the oven
 Auto

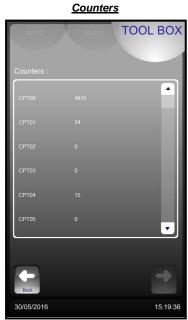
 Model : number of levels and size
 Error messages to USB stick

 Export historic error messages to USB stick (Excel compatible format)
 Error messages historic counter data to USB stick

 Export historic counter data to USB stick (Excel compatible format)
 Error messages historic counter data to USB stick

 Flowmeter frequency equal to 4100 Imp/L
 Flow meter frequency





Error message history

AUTO		TOOL BOX
Error messages	history :	
17/05/2016 09:34		
23/05/2016 11:48		
24/05/2016 12:37		
QOS : 99,96 %		
Back		
30/05/2016		15:19:36

 Displays the list of error messages in the order they appeared
 Counter listing 
 Communication signal quality screen card/power card
 For a QOS < 85% see error E46</li>
 Pressing « Return» takes you back to the previous screen

#### **Counters**

CPT00:	Total hours of operation
CPT01:	Hours in convection mode
CPT02:	Hours in steam mode
CPT03:	Hours in combination mode
CPT04:	Number of door openings
CPT05:	Number of gas safety activations (when error E67
	appeared)

Time that the electronics have operated at over 70°C in hours
Time output S21 has operated in hours
Time output S10 has operated in hours
Time output S30 has operated in hours
Total operating time cooling + cleaning
Number of litres remaining in the water treatment system



#### 2.3 WATER TREATMENT COUNTER

This only function if there are 2 separate supplies to the oven.

- Select the "TOOL BOX" menu
- Select the "Client parameters" screen
- Enter the password « CHEF »: Permanent password (lower or uppercase)
- Validate "V": When finished, if the code is correct access the menu in not re-enter the PIN number.



Water treatment capacity

- To modify or enter the value for the capacity of the water treatment system (in litres). Set to zero by default (if the oven does not have a dedicated water treatment system).
  - \* Select the zone to be changed
  - \* Adjust with the coder knob.
- After any regeneration of the water treatment, reset the counter as required.
  - \* Press « RESET » \* Confirm by pressing « YES ».
    - TOOL BOX MANU AUTO °C 0.000 0.000 0.000 9 YES NO YES NO YES NO Cooling of condens ontainer volume 5L aler container volume 5L RESET Water treatment capacity Auto screen lock YES NO Reset YES Modif PIN no. : 0000
- The water treatment system's capacity in litres. Reset.
  By default, set to zero (if there isn't dedicated treated water supply to the oven)

If the water treatment capacity meter is equal to or less than 0, error code i8 will be displayed.

#### 2.4 SCREEN CARD SETTINGS

These screens are common to several types of unit. After sales provide a non-product specific unit but it will be configured automatically when connected to the equipment in question.

This configuration is irreversible. Once a screen has been programmed to control an oven it cannot be fitted to any other type of equipment. If necessary it must be returned to the factory for re-initialisation.

Required for configuration: a blank FastPad USB stick, or blank USB stick with the following characteristics:

Max capacity = 32 Gb – Formatted for FAT32 (Default unit allocation size = 4096 bytes) or formatted for FAT (Default size = 32 Kb).
 The stick need not be empty but a minimum of 5 Mb of free space is required; Files already on the USB stick will not be erased (But always back up your personal data). Temporary files will be written but they can be erased afterwards.



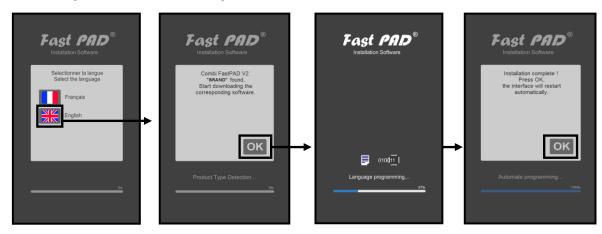
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Follow these steps after installing the new screen on the appliance by following the instructions in the paragraph "Screen board", and chapter "Component change procedure":

- Connect a USB stick (as defined above) to the USB port of the oven.
- Turn the appliance on.
- Select the language on the installation screens (2 available versions: French or English).
- Select which type of appliance the screen will be configured for and confirm by pressing "OK".
- \* If the appliance does not match, or no configuration is found, turn off the power and check the position of the "micro switches" located on the FastPAD 2 power unit (see "Position of the micro-switches" in the "Maintenance program" chapter).
  - \* If necessary, ensure that the power assembly and/or the communication between the various circuit boards is working properly (see "Maintenance program" chapter).
- Wait for the configuration phases to automatically run through.
- When the message « Installation complete" is displayed, press "OK" to start the interface.

- Remove the USB stick

- Follow the "Setting the oven" instructions to configure the interface.





#### 3. **MAINTENANCE PROGRAMMES**

#### **ELECTRONIC CARDS** 3.1

The state of the LEDs represent the communication between the electronic cards and helps with diagnostics in the event of a breakdown

Significance of the LEDs on the FastPAD 2 power assembly and the FastPAD screen card:



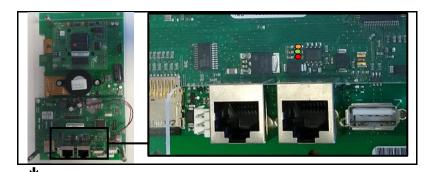
Power on LED Yellow/Orange → Emitting Receiving

LED steady

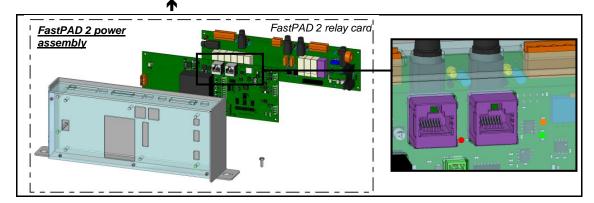
LED steady or flashing

A flashing LED is considered active as is a steady one.

Diagnostic of electronic faults:



FastPAD 2 screen card	Ensemble puissance FastPAD 2	Diagnostic	Actions
		- FastPad 2 Power assembly OK - FastPad screen OK	- Fonctioning normally
	• •	- Supply fault	- Check the voltage between terminals 1 and 3 on the relay card
	R	<ul> <li>Problem communicating with the FastPAD screen</li> </ul>	- Replace the FastPAD screen card and or the interconnecting cable
		- FastPad 2 UC power card defective	- Replace FastPAD 2 power assembly
R	R	- Screen non function	- Replace the FastPAD screen
	R	<ul> <li>Interconnecting Cable between the screen and power assembly faulty</li> </ul>	- Replace the interconnecting cable

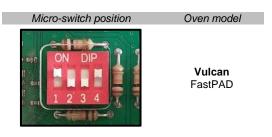




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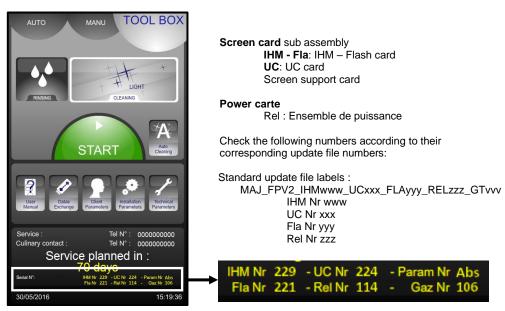
#### 3.2 POSITION OF THE MICRO SWITCHES ON A FASTPAD 2 POWER UNIT

The position of these micro-switches ensure the automatic recognition by the interface of the type of unit so appropriate software is installed (after sales or initialization)



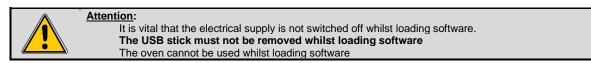
#### 3.3 CHECKING THE SOFWARE VERSION

The version of software can be seen in the "TOOLBOX" tab next to the serial number of the unit. Each card is identified by its assigned software number :



#### 3.4 UPDATING THE SOFTWARE

Regular software updates ensure that the customer and/or technician can access the latest product developments and improvements. The technician will be alerted when an update is available via the "WebAstech" software, or through distribution of "software info". Before updating, check that the software is in the appropriate language and change if necessary.



#### 3.4.1 USB STICK

Required for configuration: a blank FastPad USB stick, or blank USB stick, with the following characteristics :

Max capacity = 32 GB -Formatted in FAT32 (Default allocation size = 4096 bytes) or formatted in FAT (Default allocation unit size = 32 kilobytes).

#### 3.4.2 SOTWARE FILE UPDATE

Download the software update file "CVxxx-SW.zip" from the WebAstech Vulcan maintenance site. Unzip the file. Copy the file to the USB stick and run it:

ex : "MAJ\_FPV2\_IHM229\_UC224b\_FLA221\_REL114\_GTW016.exe"

The files will be created automatically on the USB stick. The USB stick must only contain:



utils	?					
	Graver	Nouveau	dossier			
			Nom	Modifié le	Туре	Taille
			🕌 MAJ	09/05/2019 11:28	Dossier de fichiers	
			E2 MAJ_FPV2_IHM223UC222FLA217REL111.exe	28/05/2019 17:37	Application	3 772 Ko
			UPDATE.SSA	25/04/2019 11:33	Fichier SSA	1 Ko

#### 3.4.3 PROCEDURE



Update in progress please wait... Switch the appliance on. If necessary, stop preheating. Put the USB stick (with the new software version) into the USB port. The USB port has a protective silicone cover. It is located under the control panel



Attention ! Refit the protective cover if the socket is not being used.

When connecting the USB stick the "UPDATE" request window will appear
 If no window appears it means that the appliance is already running the same software version as the USB stick.
 Validate the update by pressing "YES" and the software will begin to load.

Your appliance may restart one or more times during the update. Depending on the settings of your oven, one or more updates may be installed. Answer yes to each update request,

Wait for the update to complete. The update is complete when the screen returns to the standard display.

Remove the USB stick from the USB port.

Run the software control procedure to check that the new software has loaded correctly, refer to the previous chapter "Software version control".



#### 4. MAINTENANCE SCREENS

Once you are sure the 2 electronic cards are functioning and with information from the client and the error messages displayed activate the diagnostic assistance module which consists of 3 screens.

This will allow you to control the input and output appliances and peripherals feeding the cards:

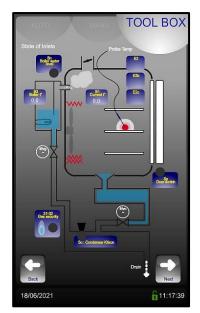
- Screen 1 gives control of temperature, door, water level.
- Screen 2 gives control of outputs to ventilation, heating, lighting, safety contactor, the vent outlet ....
- Screen 3 gives control of the hydraulics outputs, solenoids, wash pump and wash tank.

#### 4.1 ACCESS TO THE MAINTENANCE SCREENS

- Go into the "TOOL BOX" screen
- Select the "Technical parameters" screen
- Enter the password "SAVB" password
- Validate "V": if the code is correct the menu can be accessed if not return to inputting the PIN
- Press "Next". Scroll through the different screens using the "Next" button



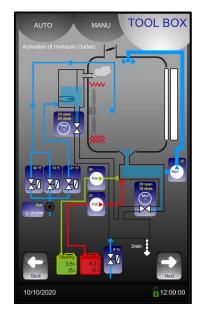
#### 4.1.1 ENTRY SCREEN



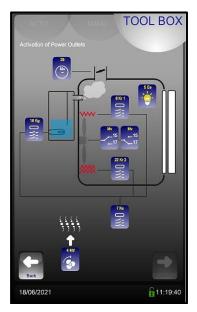
Entries	Normal state	Remarks
B1	Cavity temperature	-
B3	Boiler temperature (availability	-
	depending on model)	
Sp	0 = door open	-
	1 = door closed	
31-32	0 = normal operation	
	1 = gas safety activated	



#### 4.1.2 HYDRAULIC OUTPUT ACTIVATION SCREEN



4.1.3 ELECTRIC OUTPUT ACTIVATION SCREEN



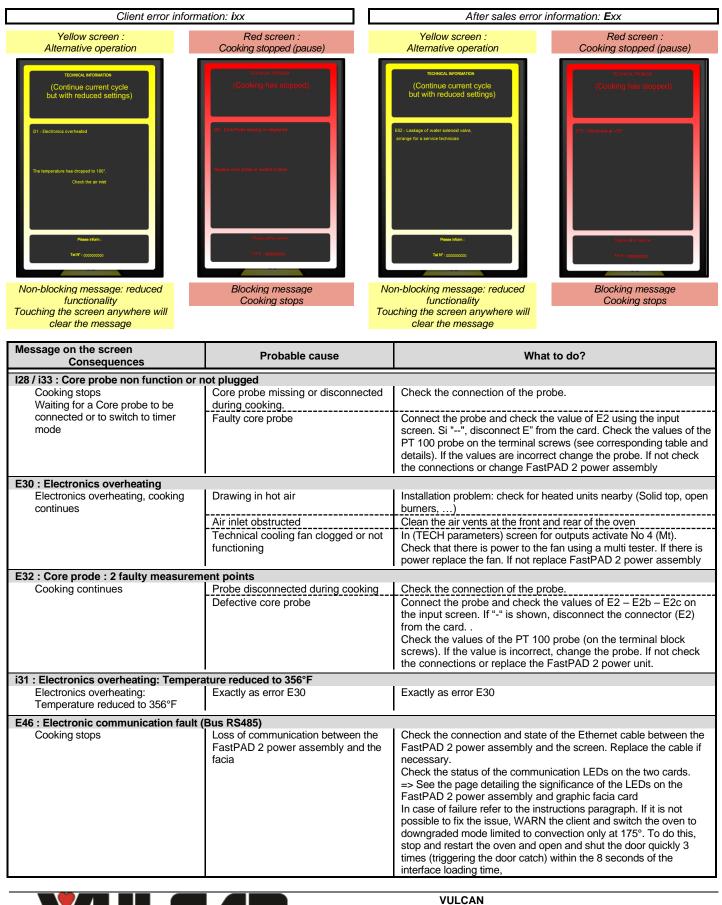
Touch	Power card output no.	Components	Function
Pdn	24	Detergent pump	one press= 0.5s of operation
Pdt	27	Descaling pump	one press= 0.5s of operation
Yf	30	Cooling solenoid	one press= 1min of operation
Yi	10	Water injection solenoid	one press= 1min of operation
Bds	Bds	Flow meter	Indicates actual flow rate
Yc	9	Condenser solenoid	one press= 1min of operation
M∨g	23-26	Boiler solenoid (availability depending on model)	-
Mpn	20	Wash pump	one press= 0.5s of operation

Touch	Power card output no.	Components	Function
Мо	25	Vent motor	
Ee	5	Lighting	one press= start / one press= stop
Kr1	8	Contactor	one press= 0.5s of
Kr2	22		operation
M∨	15	Fan	one press= 0.5s clockwise
M∨	17	Fan	one press= 0.5s anti clockwise
Kg	18	Boiler (availability depending on model)	-
Ks	7	Safety contactor + technical ventilation 2	one press= 0.5s of operation
Mt	4	Technical ventilation	one press= start / one press= stop



#### 5. ERROR MESSAGES

#### 5.1 IDENTIFICATION MESSAGES D'ERREURS





Message on the screen Consequences	Probable cause	What to do?			
E53 : Short circuit of coil or motor	or ventilation non function				
Arrêt de la cuisson		F5 blown			
	Short circuit or fault in the technical ventilation fan	Check the state of the LED near to the fuse. If it is not on check outputs S4, S7 and S8 on the card using an ohmmeter to find the short circuit. If this is the case replace the defective component (technical fan or contactor). Replace fuse F5 and check the fault has cleared by activating the outputs in (Technician parameters).			
		F3 blown			
	Fan motor defective	Check the state of the LED near to the fuse. If it is not on check the motor, measure the resistance and coil insulation. Replace if necessary and change fuse F3.			
	F5 and F3 n	ot blown and E53 permanently displayed			
	Contactor Ks does not hold in during	Motor klixon disengaged: Test the klixon with an ohmmeter when			
	the oven initialisation when the door is closed	the fault appears, replace the motor if necessary. Check for power to the coil on contactor Ks. If there is power replace the contactor or the FastPAD 2 power assembly			
	Contactor Ks <b>holds in</b> during the oven initialisation when the door is closed	Check for power to terminal 13 on the relay card: If there is power connect wires 13 and 15 restart the oven, the motor should start when the oven is switched on. If so, change the FastPAD 2 power assembly if not check all connections to the motor or change the motor.			
		Safety thermostat tripped			
	Safety thermostat tripped	Check the safety thermostat			
	E53 ag Motor klixon opens when hot (Defective motor)	Check that the motor turns freely (no rubbing or abnormal noise). Check that the motor turns freely (no rubbing or abnormal noise). Check current and resistance to the coils. Replace the motor if necessary. Motor klixon disengaged: Test the klixon with an ohmmeter when the fault appears, replace the motor if necessary.			
E61 : Ambient probe short circuit					
Cooking stop	Probe short circuited	Check what temperature the probe is reading in the inputs screen (Technician parameters) Disconnect (B1) from the card. Check the value of the PT 100 prol on the terminal screws (see the table for corresponding values). If incorrect change the probe, if the probe is functioning replace the FastPAD 2 power assembly Oven restart required to clear the fault.			
E62 : Ambient probe faulty or poo	rly connected				
Arrêt de la cuisson	Cavity temperature probe poorly connected (connection the FastPAD 2 power assembly)	Check what temperature the probe is reading in the inputs screen (Technician parameters) Check the wires are tightened on connection B1 on the FastPAD 2 power assembly			
	Probe wiring broken	Check what temperature the probe is reading in the inputs screen (TECH parameters) Disconnect (B1) from the card. Check the value of the PT 100 probe on the terminal screws (see the table for corresponding values). If incorrect change the probe, if the probe is functioning replace the FastPAD 2 power assembly Oven restart required to clear the fault.			
E67 : Gas safety activated					
Cooking stops	Gas safety inlet to the power assembly incorrect Gas safety inlet to the power assembly incorrect	Check the gas valve and the inlet pressure with the whole kitchen operational (low pressure?). Check the ionisation probe circuit in the inlet screen (TECH parameters). Disconnect the wire from terminal 32 on the power assembly: the screen continues to display Gas safety = 0. Reconnect 32 to a control phase (connection, 12 for example): Gas safety = 1. If not change the FastPad 2 relay card.			
	Gas ignition problem	Check gas ignition			
	Ionisation flame control problem	Check the ionisation at ignition probe. Burner ventilation. Change the control box.			
	Gas fan not working	Ensure the fan is powered (voltage on the power supply terminals -3-point terminal block) => If powered but not spinning, change the fan. => If not powered, check the 120V power supply chain (connections, contactor, transformer fuse etc.)			
	Ignition not working	Check the ignition function: Disconnect the ignition electrode wire and activate output "18" of the power card from the technician menu: you should see a spark at the igniter outlet. If not, check the 230V voltage on output 18. If there's no voltage, check the 230V electrical circuit.			



EFF : Ges safety activated (conta)         No.gas, or gas for present or to low         Check that gas is present at the inter of the device.           Cooking stops         No.gas, or gas for pressure to low         Check that gas is present at the inter of the device.           Ges valve not working         Set only at each that the gas pressure at the value of gas is present at the inter of the device.           The interpret of the device.         Check that gas is present at the inter of the device.           Check the destance of colls EVI and EX2.         Set only at each fact that the gas pressure at the value of gas.           The interpret of the device.         Check the destrobe (adjustment, connection, wire)           detect the filme.         At the end of the ignition sequence. Cut the gas pressure at the value of gas.           F1 we value to the colls of the ignition sequence. Cut the gas pressure at the value of gas.         Set film value control unit is working.           F2 Electronics at over + 167 F         Cooking stop         Fear value control unit is working.           Cooking stop         Exactly as error E30         Exactly as error E30           E72 Electronics at over + 167 F         Cooking value control unit is working.         Check the dump is normal gall the time after the over is turned on. It is replace the FastPAD 2 power assembly is stock or or detaction electronics in turning.           Cooking stop         Exactly as error E30         Exactly as error E30           E73 Electronics a	Message on the screen Consequences	Probable cause	What to do?
Cooking stops       No gas, or gas. Rowpressure to box       Check the stass is present at the line of the device.         Gas valve not working       Check the stass is one construction of Constructions of construction of Constructions of Constructing and the time after the ovenen is turned on.	E67 : Gas safety activated (contd.)		
For values other than 0, check that the burner is ignited, if the burner     advance is correct where is control where is ignited, if the burner     advance is correct where is control where is control where     advance is control where is control where is control     detect the flame     Flame control unit not working     Flame control unit not working     The ionization electronic does not     Deck the electronic equations, where     advance is control where is control where     advance is control where     advance is control where is control where     advance is control where is control where is control     advance     advance is control     advance is control     advance is control     advance is control     advance     advan		No gas, or gas flow/pressure too low	Check that gas is present at the inlet of the device
If it water free problem      Cooking stop      If an excel of all error during a cleaning cycle with detergent in the source of chemicals and the prove of		Gas valve not working	Check the resistance of coils Ev1 and Ev2.
des not ignite, the valve is out of order.		-	
If the value is 0, the va			
If the invitation electroide does not detect the filtering.     Check the electroide (ciglustment, connection, wires)       E68: Contry at +554°F     Cooking top       Cooking stop     Heating contactor welded shut     Power of check the commandity and control unit is out of ord ord check the output room message, the fame control unit is out of ord ord check the output room message, the fame control unit is out of ord ord check the output room message, the fame control unit is out of ord ord check the output from the FastPAD 2 power assembly.       E72: Electronics at over + 107°F     Exactly as error E30       E73: Detergent pump faulty or on permanently cooking stop     Exactly as error E30       E73: Detergent pump faulty or on permanently cooking stop     Exactly as error E30       E74: Electronics at over + 107°F     Exactly as error E30       E73: Detergent pump faulty or on permanently stuck on or detection electronics not working using the output activation in (Technician parameters) if K esativation and the startPAD 2 power assembly.       Cooking stop     Check the composition for Phase and Neutral to the pump.       The fastPAD 2 power assembly is stuck on or detection electronics not working using a the time stort the ooken is turned on. If so replace the FastPAD 2 power assembly.       Check the competitions for Phase and Neutral to the pump.       Pump biody connected     Check the competitions for Phase and Neutral to the pump.       The interface is locked in wash mode if a mase cycle is not possible (rks) chemicals and the maining in the cooking cavity.     It is replace the FastPAD 2 power assembly.			
Identify the server is a supply start         Figure control unit not working       At the end of the ignition sequence. Cut the gas supply, start         Cocking stop       Particle of the oven shows "Gas error", the filme control unit is working the oven stows "Gas error", the filme control unit is out of order the oven stows "Gas error", the filme control unit is out of order the oven stows "Gas error", the filme control unit is out of order the oven stows "Gas error", the filme control unit is out of order the oven stows "Gas error", the filme control unit is out of order the oven stows "Gas error", the filme control unit is out of order the oven stower assembly control the oven stower assembly or the the oven stower assembly or the control error or the fastPAD 2 power assembly or the trend the institute or or error methy the fastPAD 2 power assembly or the fastPAD 2 power assembly.         Cooking stop       Exactly as error E30         E73: Electronics at over + 167*F       Cooking stop         Cooking stop       Exactly as error E30         E73: Detergent pump faulty or on permanently       Pump is on whon a cleaning cycle is not running.         Cooking stop       The fastPAD 2 power assembly is stack on or detection electronics not working.         Cooking stop       The fastPAD 2 power assembly is stack on or detection electronics or during a cleaning cycle with detergent in the cooking cavity. It isn't possible to stack on or stop present "Gas mignows or and neutral to the pump.         Pump bady connected       Check the control could at stower assembly or the fastPAD 2 power assembly.         Noting will be degraded.       T			
Finne control unit not working       At the end of the ignition sequence. Cut the gas supply, start - control; unit is working - > If the own shows "Gas error", the finame control unit is working - check the other components> If the own shows "Gas error", the finame control unit is working - check the other components> If there is no error message, the finame control unit is out of order the own is supply finame to explore assembly at the own is engaged place the finame control unit is out of order own sequences of the control to explore assembly at the own is engaged related to the finame control unit is out of order own sequences of the control to explore assembly at the finame control unit is out of order own is supply problem.         EF2: Electronics at over + 167*F       Exactly as error E30       Exactly as error E30         EF3: Detergent pump faulty or on permanently       Pump is on when a cleaning cycle is not running.         Cooking stop       It the fastPAD 2 power assembly is stured on or detection electronics not working.         Working with be degraded. The fastPAD 2 power assembly is stured on or detection electronics not working.       Check the connections for Phase and Neutral to the pump.         Eist Where flow problem.       In the event of a 181 error during a cleaning cycle with detergent in the cooking cavity, it isn't possible to model in a merged in the cooking cavity.         Topsable (is det orbits cavity)       In the event of a 181 error during a cleaning cycle with detergent in the cooking cavity, it isn't possible to model in a merged in the cooking cavity.         Topsable (is det orbits cavity)       In the event of a 181 error during a cleaning cycle with detergent in the cookin			Check the electrode (adjustment, connection, wires)
Cooking: <ul> <li>Cooking:</li></ul>			
Bit : Water flow problem     Cooking stop     Bit : Water flow problem     Bit : Mater flow problem     Bit : Mater flo		Flame control unit not working	
Cavity at +554'F Cooking stop     Heating contactor weided shut     Power off, check if Kr is permanently engaged. If so replace it.     If not check the output from the FastPAD 2 power assembly car     If not check the output activation in (Technicina parameters) If K remains engaged replace the FastPAD 2 power assembly.      E72: Electronics at over +167'F Cooking stop     Exactly as error E30     Exactly as er			
E69 : Cavity at +554"F       Power off, check if Kr is permanently engaged. If so replace it. If not check the output from the FastPAD 2 power assembly can be used in a check of Kr is permanently engaged. If so replace it. If not check the output activation in (Technician parameters) if K         E72 : Electronics at over +167"F       Exactly as error E30       Exactly as error E30         E73: Detergent pump faulty or on permentity       Pump is on when a cleaning cycle is not running.         Cooking stop       The FastPAD 2 power assembly is stuck on or detection electronics not working.         Cooking stop       The FastPAD 2 power assembly is stuck on or detection electronics not working.         The FastPAD 2 power assembly is stuck on or detection electronics not working.       Check if the pump is numing all the time after the own is turned on. If so replace the FastPAD 2 power assembly.         Mining       The FastPAD 2 power assembly is stuck on or detection electronics not working.       Check if the pump is numing all the time after the own is turned on. If so replace the FastPAD 2 power assembly.         Mining       The instance is locked in wash mode is locked on electronics not working.       Check the connectors for Phase and Neutral to the pump.         Pump badly connected       The new robust is numed a list error during a cleaning cycle with detergent in the cooking cavity, it isn't possible to sposible (risk of chemicals and the fine to cooking cavity).       Isn't for order ASTC > .         Pump badly connected       In the event of a list error during a cleaning tools an an enter the PN tood + RSTC > .			
Cooking stop       Heating contactor weided shut       Power off, check if Kr is permanently engaged. If so replace it.         E72: Electronics at over + 167*F       Cooking stop       Exactly as error E30         E73: Detergent pump faulty or on permanently       Pump is on when a cleaning cycle is not running.         Cooking stop       Exactly as error E30       Exactly as error E30         E73: Detergent pump faulty or on permanently       Pump is on when a cleaning cycle is not running.         Cooking stop       Image: Star Star Star Star Star Star Star Star			=> If there is no error message, the name control unit is out of order.
If not check the output from the FasHAD 2 power assembly.         E72 : Electronics at over + 167'F Cooking stop       Exactly as error E30         E73: Detergent pump faulty or on permanently Cooking stop       Exactly as error E30         E73: Detergent pump faulty or on permanently Cooking stop       Pump is on when a cleaning cycle is not running. The FasHAD 2 power assembly is stuck on or detection electronics not working.         E13: Detergent pump faulty or on permanently Cooking stop       The FasHAD 2 power assembly is stuck on or detection electronics not working.         E14: Exactly as error E30       Exactly as error E30         E25: Detergent bit is stuck on or detection electronics not working.       Check it the pump is nunning all the time after the oven is turned on. If so replace the FasHAD 2 power assembly.         E15: Water flow problem       Check the connections for Phase and Neutral to the pump.         Pump badly connected       Check the connections for Phase and Neutral to the pump.         E16: Water flow problem       To force a cycle to stop press < Cleaningtools × and enter the PIN code			
If it water flow problem Cooking site is locked in wash model if a frise cycle is not maken by it is on the cooking cavity, it isn't possible to stop the cooking cavity is the determine is locked in wash model if a frise cycle is not maken remaining in the cooking cavity Is the determine is locked in wash model is in the cooking cavity Is the determine is locked in wash model is not explaned remaining in the cooking cavity Is the determine is locked in wash model is not explaned remaining in the cooking cavity Is the frast blown  Fise F4 blown  Fise	Cooking stop	Heating contactor welded shut	
Image: Control is at over 167°F         Cooking stop       Exactly as error E30         E73: Electronics at over 167°F         Cooking stop       Exactly as error E30         E73: Detergent pump faulty or on permanently       Pump is on when a cleaning cycle is not running.         Cooking stop       the FastPAD 2 power assembly is stock on or detection electronics no working.         Check if the pump is running all the time after the oven is turned on. If so replace the FastPAD 2 power assembly.         Check if the pump is running all the time after the oven is turned on. If so replace the FastPAD 2 power assembly.         On. If so replace the FastPAD 2 power assembly is stock on or detection electronics no or . If so replace the FastPAD 2 power assembly.         Pump badly connected       Check if the pump is running all the time after the oven is turned on. If so replace the FastPAD 2 power assembly is stock on or detection electronics no or . If so replace the FastPAD 2 power assembly.         Pump badly connected       Check the connections for Phase and Neutral to the pump.         Cooking will be degraded.       The interface is locked in wash mode if a rinse cycle is not explace the orgel directy.         To force a cycle to stop press + Cleaning cycle with detergent in the cooking cavity, it isn't possible to find the orginal cause of the problem.         Fuse F1 blown       Use an ohmmeter to check whether outputs 524. S25. S27. S29. S30 of the card have short circulate. If so, replace the fastPAD 2 power assembly cuput corinto board.         <			
E72 : Electronics at over + 167'F Cooking stop       Exactly as error E30       Exactly as error E30         E73: Detergent pump faulty or on permanently       Pump is on when a cleaning cycle is not running.         Cooking stop       the FastPAD 2 power assembly is stuck on or detection electronics not working.       Check if the pump is running all the time after the oven is turned on. If so replace the FastPAD 2 power assembly.         181 : Water flow problem       Check if the pump is running all the time after the oven is turned on. If so replace the FastPAD 2 power assembly.         281 : Water flow problem       Check if the pump is running all the time after the oven is turned on. If so replace the FastPAD 2 power assembly.         281 : Water flow problem       Check the connections for Phase and Neutral to the pump.         Pump badly connected       Pompe fonctionnelle         Pump badly connected       Check the connections for Phase and Neutral to the pump.         To force a cycle to stop press < Cleaning cycle with detergent in the cooking cavity, it isn't possible to stop the cycle directly.       To force a cycle to stop press < Cleaning tools > and enter the PIN code < RSTC >.         Manually undertake a thorough rinse of the cooking cavity so as to crewe all traces of chemicals and the ind the original cause of the problem.       Use an ohmmeter to check whether the S10 output of the card has short-circuited. If so, replace the FastPAD 2 power assembly output corntol board.         Fuse F1 blown       Use an ohmmeter to check whether the S10 output of the card has short-circuited. If so, r			
Cooking stop       Exactly as error E30       Exactly as error E30         E73: Detergent pump faulty or on permanently       Pump is on when a cleaning cycle is not running.         Cooking stop       The FasiPAD 2 power assembly is suck on or detection electronics not working.         The start of the pump is unning all the time after the oven is turned on. Its or replace the FasiPAD 2 power assembly.       Check if the pump is running all the time after the oven is turned on. Its or replace the FasiPAD 2 power assembly.         If is replaced on or detection electronics not working.       Check if the pump is running all the time after the oven is turned on. Its or replace the FasiPAD 2 power assembly.         If is water flow problem       Check if the pump is running all the time after the oven is turned on. Its or replace the FasiPAD 2 power assembly.         If is water flow problem       Check if the pump is running all the time after the oven is turned on. Its or replace the FasiPAD 2 power assembly.         If is water flow problem       Check the connections for Phase and Neutral to the pump.         Cooking will be degraded.       The interface is locked in wash mode if a rinse cycle is not concling cavity. It isn't possible to stop trees a Cleaning cycle with detergent in the cooking cavity, it isn't possible to stop trees a Cleaning roots a net error beneve all traces of chemicals and the orginal cause of the problem.         Fuse F1 blown       Use an ohrmeter to check whether output scivation screen (technician parameters). If necessary, replace the FastPAD 2 power assembly output corint board.         Fuse F1 bl			remains engaged replace the FastPAD 2 power assembly.
E73: Detergent pump faulty or on permanently       Pump is on when a cleaning cycle is not running.         Cooking stop       The FastPAD 2 power assembly is stuck on or detection electronics not working.       Check if the pump is running all the time after the oven is turned on. If so replace the FastPAD 2 power assembly.         Creat our or detection electronics not working.       Check if the pump is running all the time after the oven is turned on. If so replace the FastPAD 2 power assembly.         Working.       Creat ouvert         The FastPAD 2 power assembly is stuck on or detection electronics not working.       Check if the pump is running all the time after the oven is turned on. If so replace the FastPAD 2 power assembly.         Working.       Pump bady connected       Check if the pump is running all the time after the oven is turned on. If so replace the FastPAD 2 power assembly.         81 : Water flow problem       Check the connections for Phase and Neutral to the pump.         Cooking will be degraded.       The interface is locked in wash model is a first excepted in the cooking cavity. It isn't possible to stop the cycle directly.         To first except is not the cooking cavity:       The event of a l81 error during a cleaning cycle with detergent in the cooking cavity. It isn't possible to stop the cycle directly.         To first except is not manaly undertake a thorough first of the cooking cavity os as to remove all traces of chemicals and th first except is the organic cavity of the cycle directly.         The interface is locked in wash model is a first except of the cycle directly. <t< td=""><td></td><td>Evently on error E20</td><td>Evently on error E20</td></t<>		Evently on error E20	Evently on error E20
Cooking stop       Pump is an when a cleaning cycle is not running.         the FasiPAD 2 power assembly is stuck on or detection electronics not working.       Check if the pump is running all the time after the oven is turned on. If so replace the FasiPAD 2 power assembly.         the FasiPAD 2 power assembly is stuck on or detection electronics not working.       Circuit ouvert         The FasiPAD 2 power assembly.       Circuit ouvert         Water flow problem       Cocking will be degraded.         Cooking will be degraded.       Pump is adly connected         The instract is locked in wash mode if a rinse cycle is not possible (risk of chemicals remaining in the cooking cavity).       In the event of a i81 error during a cleaning cycle with detergent in the cooking cavity, it isn't possible to stop the cycle directly.         To force a cycle to stop press < Cleaningtools » and enter the PIN code < KSTC >.       Manual yundertake a thorough rinse of the cooking cavity so as to remove all traces directly defective.         Fuse F1 blown       Use an ohrmeter to check whether outputs S24, S25, S27, S29 S30 of the card have short circuited. If so, replace the fastPAD 2 power assembly output control board.         Fuse F4 blown       Use an ohrmeter to check whether the S10 output of the card has short-circuited. If so, replace the FastPAD 2 power assembly output control board.	•		Exactly as error E30
Image: Second			n when a cleaning cycle is not running
stuck on or detection electronics not working       on. If so replace the FastPAD 2 power assembly.         Working       Circuit ouvert         the FastPAD 2 power assembly is stuck on or detection electronics not working       Circuit ouvert         Ibe FastPAD 2 power assembly is stuck on or detection electronics not working       Circuit ouvert         Water flow problem       Check the connections for Phase and Neutral to the pump.         Ibe additional problem       Check the connections for Phase and Neutral to the pump.         Cooking will be degraded.       The interface is locked in wash mode if a rinse cycle is not possible (rinsk of chemicals and thing the cooking cavity), it isn't possible to stop the cycle directly.         To force a cycle to stop press * Cleaningtools * and enter the PIN code * RSTC *.       To force a cycle to stop press * Cleaningtools * and enter the PIN code * RSTC *.         Fuse F1 blown       Use an ohrmeter to check whether outputs S24, S25, S27, S29, S30 of the card have short circuited. If so, replace the detective component(s).         Fuse F1 blown       Use an ohrmeter to check whether the S10 output of the card has short-circuited. If so, replace the fastPAD 2 power assembly output control board.         Water supply problem       Check the water supply to the unit: minimum flow 5 littersminute and minimum pressure 1, 5 bars. Check the state of the pressure limiter.         Fuse F4 blown       Use an ohrmeter to check whether the S10 output of the card has short-circuited. If so, replace the fastPAD 2 power assembly output control board.	Booking stop		
Working.       Crickit overt         the FastPAD 2 power assembly is stuck on or detection electronics not working.       Check if the pump is running all the time after the oven is turned on. If so replace the FastPAD 2 power assembly.         Pump badly connected       Check if the connections for Phase and Neutral to the pump.         Pump badly connected       Check the connections for Phase and Neutral to the pump.         Cooking will be degraded. The interface is locked in wash model if a rise cycle is not proceed electry.       In the event of a i81 error during a cleaning cycle with detergent in the cooking cavity, it isn't possible to stop the cycle directly.         Possible (risk of chemicals remaining in the cooking cavity) or detection of the corking cavity is as to remove all traces of chemicals and the original cause of the problem.       Use an ohrmeter to check whether output s524, 525, 527, 529, 530 of the card have short circuited. If so, replace the defective component(s).         Fuse F1 blown       Use an ohrmeter to check whether output s524, 525, 527, 529, 530 of the card have short circuited. If so, replace the defective component(s).         Fuse F4 blown       Use an ohrmeter to check whether the S10 output of the card has short-circuited. If so, replace the FastPAD 2 power assembly output control board.         Water supply problem       Check the vater supply to the unit: minimum flow 5 litras/minute and the flow meter in the input situation screen (technician parameters). If necessary, replace the FastPAD 2 power assembly output control board.         Water supply problem       Check keudene supply to the unit: minimum flow 5 litras			
Circuit ouvert         the FastPAD 2 power assembly is stuck on or detection electronics not working       Check if the pump is truning all the time after the oven is turned on. If so replace the FastPAD 2 power assembly.         Pump badly connected       Pompe fonctionnelle         Pump badly connected       Check if the pump is the maint and Neutral to the pump.         Image: State of the pump is the degraded. The interface is locked in wash mode if a nine cycle is no the occupied directly.       To force a cycle to stop press < Cleaning/tools > and enter the PIN code < RSTC >.         Manually undertake a thorough nose of the corport of the corport of the corport of the corport of stop press < Cleaning/tools > and enter the PIN code < RSTC >.         Fuse F1 blown       Use an ohrmmeter to check whether outputs S24, S25, S27, S29, S29, S29, S29, S29, S29, S29, S29			
In the FastPAD 2 power assembly is used on or detection electronics not working.       Check if the pump is running all the time after the oven is turned on. If so replace the FastPAD 2 power assembly.         Pump badly connected       Pompe fonctionnelle         Pump badly connected       Check the connections for Phase and Neutral to the pump.         Ist : Water flow problem       Cooking will be degraded.         Cooking will be degraded.       The interface is locked in wash mode if a rinse cycle is not possible (risk of chemicals remaining in the cooking cavity).         remaining in the cooking cavity)       In the event of a l81 error during a cleaning cycle with detergent in the cooking cavity, it isn't possible to stop the cycle directly.         remaining in the cooking cavity)       In the event of a l81 error during a cleaning to the cooking cavity so as to remove all traces of chemicals and the original cause of the problem.         Fuse F1 blown       Use an ontimeter to check whether outputs 524, 525, 527, 522         S30 of the card have short circuited. If so, replace the defective component(s).         Check the output activation screen (technician parameters). If necessary, replace the FastPAD 2 power assembly output control board.         Fuse F4 blown       Use an ohmmeter to check whether the S10 output of the card have short-circuited. If so, replace the fastPAD 2 power assembly output control board.         Fuse F4 blown       Use an ohmmeter to check whether the S10 output of the card has short-circuited. If so, replace the fastPAD 2 power assembly output control board.			Circuit ouvert
stuck on or detection electronics not working       on. If so replace the FastPAD 2 power assembly.         Pump badly connected       Penpe fonctionnelle         Pump badly connected       Check the connections for Phase and Neutral to the pump.         Image: State of the state of the problem       Check the connections for Phase and Neutral to the pump.         Image: State of the state of the problem       Check the connections for Phase and Neutral to the pump.         Cooking will be degraded. The interface is locked in wash mode if a rinse cycle is not possible (risk of chemicals remaining in the cooking cavity).       In the event of a i81 error during a cleaning cycle with detergent in the cooking cavity, it isn't possible to stop the cycle directly.         Fuse F1 blown       Use an ohmmeter to check whether outputs S24, S25, S27, S29, S30 of the card have short circuited. If so, replace the FastPAD 2 power assembly output control board.         Fuse F1 blown       Use an ohmmeter to check whether the S10 output of the card have short circuited. If so, replace the fastPAD 2 power assembly output control board.         Fuse F4 blown       Use an ohmmeter to check whether the S10 output of the card have short circuited. If so, replace the fastPAD 2 power assembly output control board.         Water supply problem       Check the water supply to the unit: minimum flow 5 litres/minute and minimum pressure 1.5 bars. Check that the filter is not clogged and the state of the pressure limiter. Check the state of the flow limiters.         Solenoid has failed       Check the amort being recorded by the flow meter in the input.		the EastPAD 2 power assembly is	
working         Pompe fonctionnelle           Pump badly connected         Check the connections for Phase and Neutral to the pump.           Image: State of the problem         Cocking will be degraded.           Cooking will be degraded.         In the event of a i81 error during a cleaning cycle with detergent in the cooking cavity, it isn't possible to stop the cycle directly.           To force a cycle is not possible (risk of chemicals and the original cause of the problem.         To force a cycle to stop press * Cleaning/tools * and enter the PIN code « RSTC *.           To social (risk of chemicals and the original cause of the problem.         Use an ohrmmeter to check whether output S24, S25, S27, S29 S30 of the card have short circuited. If so, replace the defective component(s).           Fuse F1 blown         Use an ohrmmeter to check whether output S24, S25, S27, S29 S30 of the card have short circuited. If so, replace the defective component(s).           Check the outputs from the output activation screen (technician parameters).         Fuse F4 blown           Use an ohrmmeter to check whether to S10 output of the card have short-circuited. If so, replace the solenoid valve.           Check output S10 from the output activation screen (technician parameters).           If necessary, replace the FastPAD 2 power assembly output control board.           Water supply problem         Check the water supply to the unit: minimum flow 5 litres/minute and minimum pressure 1.5 bars. Check the state of the forw line is not clogged and the state of the pressure line.           Solenoid has failed<			
Bar is water flow problem         Check the connections for Phase and Neutral to the pump.           Image: Construct the state of the problem         Check the connections for Phase and Neutral to the pump.           Image: Construct the state of the problem         Cooking will be degraded.           The interface is locked in wash mode if a rinse crycle is not possible (risk of chemicals remaining in the cooking cavity). It isn't possible to stop to crycle to stop press * Cleaning/tools * and enter the PIN code * RSTO *.           Manually undertake a thorough rinse of the cooking cavity so as to remove all traces of chemicals and the ind the original cause of the problem.           Fuse F1 blown         Use an ohrmmeter to check whether outputs S24, S25, S27, S29, S30 of the card have short circuited. If so, replace the defective component(s).           Fuse F1 blown         Use an ohrmmeter to check whether the S10 output of the card have short circuited. If so, replace the defective component (s).           Fuse F4 blown         Use an ohrmmeter to check whether the S10 output of the card have short circuited. If so, replace the card have short circuited.           Water supply problem         Check output S10 from the output activation screen (technician parameters).           If necessary, replace the FastPAD 2 power assembly output control board.         Check solenoid valve.           Vater supply problem         Check solenoid valve.         Check solenoid valve.           If necessary, replace the FastPAD 2 power assembly output control board.         Check solenoid valve.         Check sol			
B1: Water flow problem       Check the connections for Phase and Neutral to the pump.         Cooking will be degraded. The interface is locked in wash mode if a rinse cycle is not possible (risk of chemicals remaining in the cooking cavity)       In the event of a I81 error during a cleaning cycle with detergent in the cooking cavity, it isn't possible to stop the cycle directly. To force a cycle to stop press « Cleaning/tools » and enter the PIN code « RSTC ».         Waually undertake a through rinse of the cooking cavity so as to remove all traces of chemicals and th find the original cause of the problem.         Fuse F1 blown       Use an ohmmeter to check whether outputs 524, 525, 527, 529 S30 of the card have short circuited. If so, replace the defective component(s). Check the outputs from the output activation screen (technician parameters). If necessary, replace the FastPAD 2 power assembly output control board.         Fuse F4 blown       Use an ohmmeter to check whether the S10 output of the card has short-circuited. If so, replace the S00 output activation screen (technician parameters). If necessary, replace the FastPAD 2 power assembly output control board.         Water supply problem       Check the water supply to the unit: minimum flow 5 litres/minute and minimum pressure 1.5 bars. Check the state of the flow imiters.         Solenoid has failed       Check the anount being recorded by the flow meter in the input status screen in (Technician parameters) Measure the volume of water recovered in 1 minute.         Flow meter non function       Check in the Technician parameters). Haspitare flow flow meter in the input status screen in (Technician parameters) Measure the volume of water recovered in 1 minute.		working	Pompe fonctionnelle
Image: Second		Pump badly connected	Check the connections for Phase and Neutral to the nump
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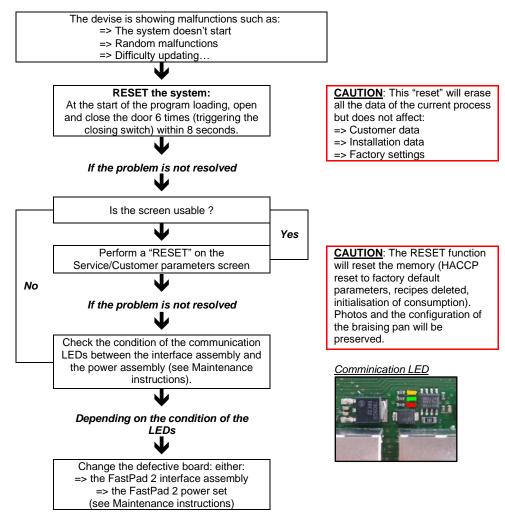


Message on the screen Consequences	Probable cause	What to do?
E82 : Solenoid letting by		
Cooking will be degraded	Solenoid letting by	Check solenoids Yi S10, Yf, S30, and Yn S27, replace them if necessary.
	Flow meter non function	Check the amount being recorded by the flow meter in the input status screen in (TECH parameters). Replace it if necessary.
	FastPAD 2 power assembly not working	Check the voltage on outputs S10, S27 and S30. If voltage is detected outside the cooking cycle, replace the relay strip of the FastPAD 2 power unit.
i83 : Water treatment capacity reach	ned 0	
Risk of damaging the oven	The capacity of the water treatment system has been reached or exceeded	The water treatment system meter has reached 0L. Check the water treatment system and replace/recharge if required, then reset the meter in customer settings. See paragraph 2.3.
i84 : Number of maintenance days a	it 0	
Risk of damaging the oven	The countdown to the next service has been reached and exceeded	Carry out the planned preventative maintenance operations (see paragraph 8) then reset the counter in the installation parameters (§ $8.4$ )
i97 : Connectivity error		
Connectivity not working	Identification data incorrect (the data contained in the GATEWAY configuration doesn't match the data on the screen)	If the GATEWAY was previously configured on another oven: follow the GATEWAY configuration procedure and scan the QR code which corresponds to the oven. If the screen has been changed and it is necessary to fill in the oven's technical data.
i98 : Connectivity error		
No consequence	Connected appliance: technical parameters cannot be changed	The Pop-Up will simply inform the technician why they cannot change the parameters.



#### 5.2 INSTRUCTIONS IN CASE OF SOFTWARE ANOMOLY

#### 5.2.1 SOFTWARE PROBLEM OR SOFTWARE UPDATE FAILURE



#### 5.2.2 CONNECTIVITY PROBLEM: DATA ON SMARTCONNECT365.COM ABSENT

The client is no longer receiving data from smartconnect356.com: check the technician's "ITW COOKING APP" for the possible causes in "Connection states" (Application downloadable from WebAstech)

#### Connection to the client's network "Disconnected":

- Ensure that the line to the customer's "box" is operational; check that the passwords, SSID have not changed.
  - If the Gateway is connected via WiFi, make sure the signal strength is good (The intensity received by the module should be between -30dBm and -67dBm, Below this level [-70dBm and under] the WiFi connection is not reliable).
  - If the Gateway is connected via ethernet, Ensure that there are no interruptions on the wire link between the oven and the client's "box".

#### ⇒ Cloud connection "Disconnected" :

0

The issue lies between the customer's "box" and the internet. Refer to the customer's network administrator.

#### ➡ <u>Connection to the equipment "Disconnected":</u> Check that the "orange" and "green" communication LEDs are flashing:



If not :

Check that the cable connecting the module to the appliance is fully inserted.
 Switch the oven off and on again at the power supply.



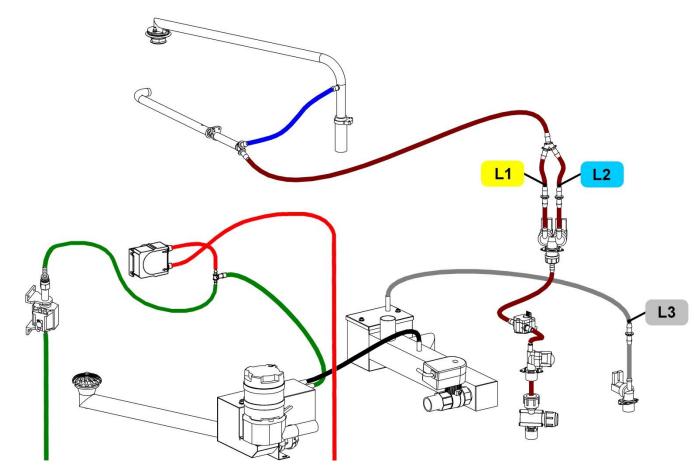
#### 5.3 INSTRUCTIONS FOR GAS BURNER ANOMALIES

Issue	Probable causes	What to do
The burner does not light	The gas fan does not work	Ensure the fan is powered (voltage on the power supply terminals -3-point terminal block) => If powered but not spinning, change the fan. => If not powered, check the 120V power supply chain (connections, contactor, transformer fuse etc.)
	Ignition not working	Check the ignition function: Disconnect the ignition electrode wire and activate output "18" of the power card from the technician menu: you should see a spark at the igniter outlet. If not, check the 230V voltage on output 18. If there's no voltage, check the 230V electrical circuit.
	No gas, or gas flow/pressure too low Gas valve not working	Check that gas is present at the inlet of the device Check the resistance of coils Ev1 and Ev2. => For values other than 0, check that the gas pressure at the valve inlet is correct when the burner is ignited, if the burner does not ignite, the valve is out of order. => If the value is 0, the valve is out of order.
	The ionization electrode does not detect the flame Flame control unit not working	
Burner makes a detonation at ignition	Ignition spark fault. The electrode is adjusted incorrectly.	Check the adjustment of the electrodes: Insulation of the earth wires (parasitic sparks), ensure that the electrode soapstone is not broken.
Burner makes a humming noise	Problem with air supply	Check that the air inlet tube is connected correctly to the venturi inlet. Ensure that that the tube's air inlet is not blocked.
	Incorrect valve setting	Check the CO2 level -For adjustment refer to the paragraph: "changing/adjusting the gas valve"
	Incorrect oven settings (model, gas type)	Check the technician parameters (oven configuration)
	Incorrect gas type supplied to the oven	Ensure that the gas type supplied to the appliance complies with the furnace plate -if not, refer to chapter "Adapting the appliance from one gas to another"
	Silicone tube connecting venturi/valve disconnected or defective	Reconnect or change the silicone tube.
The burner emits an intermittent whistle	When the burner first lights, especially when cold, it may make a slight hissing noise for a few seconds.	This is not a malfunction. It should quickly disappear when the burner heats up.
The burner pollutes	Incorrect gas valve setting	Check the CO2 level -For adjustment refer to the paragraph: "changing/adjusting the gas valve"
	Incorrect gas type supplied to the oven	Ensure that the gas type supplied to the appliance complies with the furnace plate -if not, refer to chapter "Adapting the appliance from one gas to another"
	Incorrect gas type setting	Check the gas type in the technical parameters.
The motor of the burner operate at high speed	The FastPAD 2 power card has stopped communicating with the gas card	Check the LEDs on the gas card. If the LEDs are off, check the Ethernet cable and replace if necessary, otherwise replace the gas card. If the LEDs are lit or flashing on the gas card, check the electrical connection (wires and terminal tightening) from the gas card to the fan.
Ignition firing continuously	The flame does not stay lit	Gas unit/gas card connection fault: check the wires and terminal tightening. Gas card/FastPAD power card link fault: check the LEDs on the gas card: If the LEDs are off, check the Ethernet cable and replace it if necessary, otherwise replace the gas card. Relays on the FastPAD 2 power board stuck: disconnect the RJ45 Ethernet cable from the gas board, check the voltage between output 33 and a neutral terminal.
The burner only operates at low power	The fan remains at low speed.	Gas card incorrectly configured : check the position of the switches on the gas card. Refer to the paragraph "Position of the FastPAD2 power assembly micro-switches".



## 6. HYDRAULIC DIAGRAMS





		6 GN 1/1	6 GN 1/1	10 GN 1/1	10 GN 1/1	10 GN 2/1	10 GN 2/1
Flow restrictors	5	électrique	gaz	électrique	gaz	électrique	gaz
Injection	L1	0.25 l/min	0.25 l/min	0.5 l/min	0.5 l/min	0.8 l/min	0.8 l/min
Cooling	L2	1.2 l/min	1.2 l/min	1.2 l/min	1.2 l/min	1.2 l/min	1.2 l/min
Condenser	L3	1.2 l/min	1.2 l/min	1.2 l/min	1.2 l/min	1.2 l/min	1.2 l/min



#### 7. CHANGING THE EQUIPMENT FROM ONE GAS TO ANOTHER

The change of gas type can only be carried out by a technician authorised and trained by Vulcan, or by our local representative.

Before any intervention, check with the owner which gas is currently in use in the kitchen.

Ensure that you are equipped with suitable measuring instruments (product analysis, gas water column pressure gauge, gas leak detector etc.) and that they are in full working order. Without these instruments it is prohibited to carry out any gas-related maintenance or adjustment.

<u>NB</u>: Connection/disconnection of the gas supply, as well as any maintenance or interventions are subject to the local legislation in force.

#### <u>General :</u>

In the following chapters, the different gases are designated by their international codification:

Gas A	NATURAL GAS
Gas E	PROPAN (G31)

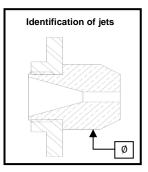
#### 7.1 GAS FLOW RATES AND POWERS

									Gas	flow		Di	mensions (in	ch)
CODE	Designation	Energy		U	Lib	KwE	lmax (A)	BTU/h	Gas A ft3/h	Gas E Ib/h	Weight (kg)	Depth	Width	High
VPJ071G	vulcan:Combi Max 7 levels GN1/1 (Gas)	Gas		120	a.c.	0.5	4.4	55959	55.09	-	146	33.30"	36.22"	35.40"
VPJ071G	vulcan:Combi Max 7 levels GN1/1 (Gas)	Gas		208	a.c.	0.5	2.5	55959	55.09	-	146	33.30"	36.22"	35.40"
VPJ071G	vulcan:Combi Max 7 levels GN1/1 (Gas)	Gas		240	a.c.	0.5	2.2	55959	55.09	-	146	33.30"	36.22"	35.40"
VPJ071G	vulcan:Combi Max 7 levels GN1/1 (Gas)	Gas		120	a.c.	0.5	4.4	54253	-	2.58	146	33.30"	36.22"	35.40"
VPJ071G	vulcan:Combi Max 7 levels GN1/1 (Gas)	Gas		208	a.c.	0.5	2.5	54253	-	2.58	146	33.30"	36.22"	35.40"
VPJ071G	vulcan:Combi Max 7 levels GN1/1 (Gas)	Gas		240	a.c.	0.5	2.2	54253	-	2.58	146	33.30"	36.22"	35.40"
VPJ101G	vulcan:Combi Max 10 Levels GN1/1 (Gas)	Gas		120	a.c.	0.5	4.4	93151	91.57	-	161	33.30"	36.22"	42.08"
VPJ101G	vulcan:Combi Max 10 Levels GN1/1 (Gas)	Gas		208	a.c.	0.5	2.5	93151	91.57	-	161	33.30"	36.22"	42.08"
VPJ101G	vulcan:Combi Max 10 Levels GN1/1 (Gas)	Gas		240	a.c.	0.5	2.2	93151	91.57	-	161	33.30"	36.22"	42.08"
VPJ101G	vulcan:Combi Max 10 Levels GN1/1 (Gas)	Gas	1	120	a.c.	0.5	4.4	90080	-	4.27	161	33.30"	36.22"	42.08"
VPJ101G	vulcan:Combi Max 10 Levels GN1/1 (Gas)	Gas		208	a.c.	0.5	2.5	90080	-	4.27	161	33.30"	36.22"	42.08"
VPJ101G	vulcan:Combi Max 10 Levels GN1/1 (Gas)	Gas	1	240	a.c.	0.5	2.2	90080	-	4.27	161	33.30"	36.22"	42.08"
VPJ102G	vulcan:Combi Max 10 Levels GN2/1 (Gas)	Gas		120	a.c.	1	8.1	155594	152.91	-	191	46.10"	36.22"	42.08"
VPJ102G	vulcan:Combi Max 10 Levels GN2/1 (Gas)	Gas		208	a.c.	1	4.7	155594	152.91	-	191	46.10"	36.22"	42.08"
VPJ102G	vulcan:Combi Max 10 Levels GN2/1 (Gas)	Gas		240	a.c.	1	4.0	155594	152.91	-	191	46.10"	36.22"	42.08"
VPJ102G	vulcan:Combi Max 10 Levels GN2/1 (Gas)	Gas		120	a.c.	1	8.1	150810	-	7.16	191	46.10"	36.22"	42.08"
VPJ102G	vulcan:Combi Max 10 Levels GN2/1 (Gas)	Gas		208	a.c.	1	4.7	150810	-	7.16	191	46.10"	36.22"	42.08"
VPJ102G	vulcan:Combi Max 10 Levels GN2/1 (Gas)	Gas		240	a.c.	1	4.0	150810	-	7.16	191	46.10"	36.22"	42.08"

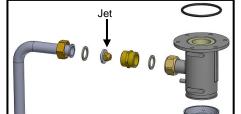
#### 7.2 CHART OF GAS JETS

#### 7 and 10 levels ovens

		GAS		JETS			
	Designation		Pressure	Qty	Ø	Code	
	Family	Туре	(mbar) / (inch w.c.)		(1/100 <sup>th</sup> mm)		
Burner	Natural gas	А	16 - 25 / 6.5 - 10	1	580	148 798	
	Propan	E (G31)	25 - 38 / 10 - 15	1	390	148 799	



#### Position of jet



#### 7.3 CHANGEOVER FROM ONE GAS TO ANOTHER:

#### PROCEDURE :

- 1) Check which gas is used/present in the kitchen
- 2) Configure the oven with the new gas.
  - Switch the oven on and turn on the control screen without heating
    - Select the "TOOL BOX" menu
    - Select the "Technician parameters" screen
- Enter the password: « SAVB »

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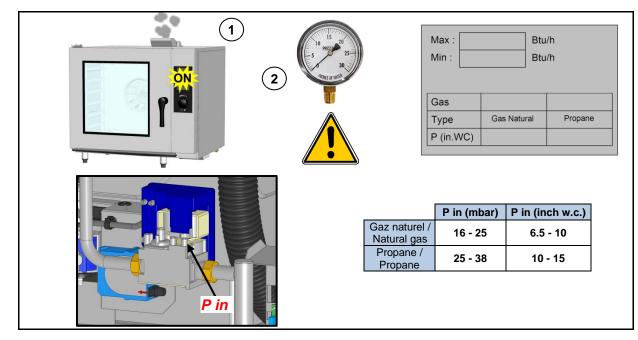
- Validate "V": When finished, if the code is correct access the menu in not re-enter the PIN number..

- Changing the type of the gas

- Select the zone of the value to be changed
- Adjust the gas type with the coder knob (Gas A or Gas E)
- Validate the value



- Switch the equipment off and on again and check that the setting has saved correctly
- 3) Change the gas injector with the correct injector for the new gas, see the above "Table of injectors"
- 4) Connect the oven to the gas pipe
  - Tightly connect the appliance to the gas supply pipe by interposing a shut-off valve to isolate the appliance from the rest of the installation.
  - Check for leaks: This is essential and is the responsibility of the installer. Gas leak = danger for the user.
    - Using leak/spray detectors, check the gas lines to ensure there are no leaks.
  - Pressure test point on the gas valve -supply side:
    - Loosen the pressure screw by 2 to 3 turns, open the gas valve
    - Connect the water column pipe to the pressure outlet, close the gas valve
    - Check the water column level for 1 minute. Reading unchanged at -1mbar
- 5) Check the pressure :
  - Static pressure (appliance not in operation)
    - Control the pressure using a water column
    - The measurement taken must be equal to or greater than the correct pressure for this gas
  - Connection pressure/dynamic (appliance in operation)
    - Connect a water column manometer to the pressure tap with the burner operating (oven is heating). (All gas appliances in operation, burners on).
      - The gas pressure recorded from this test must be within the correct range for the gas used.



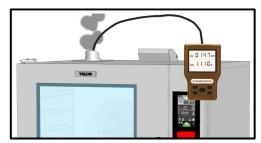


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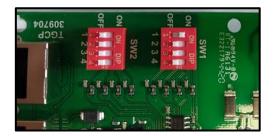
6) Carry out a burnt gas analysis and if necessary, adjust the CO2 screw of the gas valve The evacuation of combustion gases must comply with local regulations.

#### - Procedure :

- Set the gas combustion testing appliance to show "CO2 rate in %"
  - Place the probe of the gas testing appliance in the oven chimney



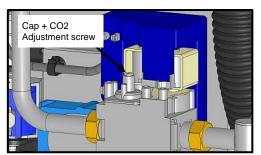
Put switch SW1 of the gas card to adjustment mode: put switch 1 of switch SW1 to "ON"



- Switch the oven on :
- Set the oven to "Dry Mode", "Temperature 250°C" and press "Start"
- Take the sample (always take the sample with the oven burner in operation) The percentage of CO2 measured must correspond to the required value within +/- 0.2% for the gas type in the table below.

	CO2 (%)
Natural gas A	11.1
Propan E	11.4

- If the percentage of CO2 measured does not correspond to the required value for the gas type in the table shown, adjust the CO2 adjustment screw on the gas valve.
  - Remove the protective cap from the adjustment screw
  - Adjust the setting by screwing/unscrewing the screw a maximum of a quarter turn at a time.
  - After adjustment replace the protective cap.



- Switch off the oven and allow it to cool down.
- Take a second sample of the combustion gases by following the above procedure and checking that the CO2 % value is within +/- 0.2% of the level required in the above table for the corresponding gas type. Repeat the adjustment procedure as many times as necessary to obtain the required value.
- If the CO2 level is correct, put switch SW1 of the gas card back to operating mode: put switch 1 of switch SW1 to "OFF"
- 7) Ensure that the CO2 rate is less than 150ppm
- 8) Stick the new gas plate in place with the corresponding gas for which the appliance has been adjusted.

Max : Min :		Btu/h Btu/h		
Gas				
Туре	Gas Natural	Propane		
P (in.WC)				



#### 7.4 CHANGING/ADJUSTING GAS VALVE

When replacing a gas valve, the length of the CO2 screw must first be pre-set (see values in the table). To do this position the screw 1mm beyond the required value, then reduce it to the desired length.

This first setting can change from + OR – 0.5mm. It will be modified further when adjusting the combustions.

#### Valve adjustment

Adjust the length of the CO2 adjustment valve on the gas valve to the correct length for the supply gas

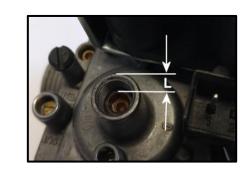
- Remove the protective cap from the adjustment screw

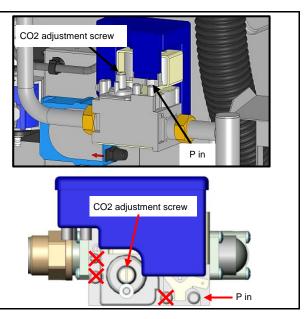
- Adjust the setting by tightening/loosening the screw to obtain the correct setting value for the type of gas.

Carry out a burned gas analysis and adjust the CO2 screw of the gas valve if necessary, for a CO<150ppm. (refer to point 6 in the paragraph "switching from one gas to another")

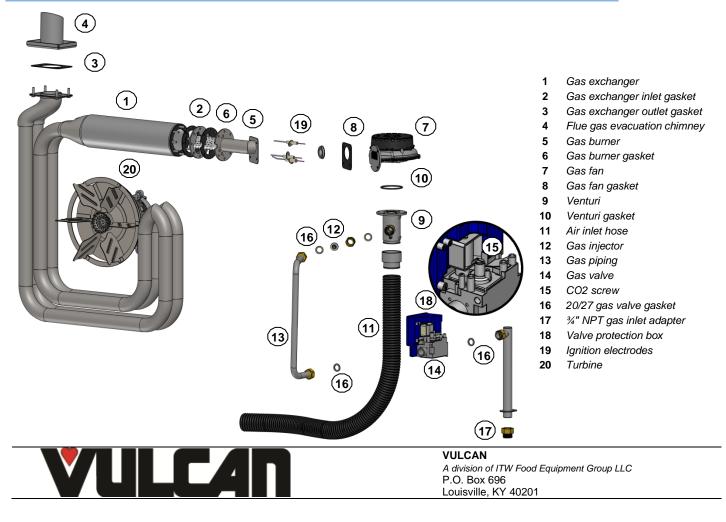
The evacuation of combustion gases must comply with local legislation.

	L (mm)	L (Inch)
Natural gas	4	0.15
Propan	4	0.15





#### 7.5 GAS COMPONENTS IDENTIFICATION DIAGRAM



#### **PREVENTIVE MAINTENANCE** 8.

To ensure the proper, long-lasting and safe functioning of the equipment, it should be serviced by qualified personnel from our company. The customer will be automatically informed when service is needed. The service counter is a calculated function of the frequency of use and of the number of hours between 2 services.

These values must be entered by the technician when installing the oven and must be verified after every maintenance operation.

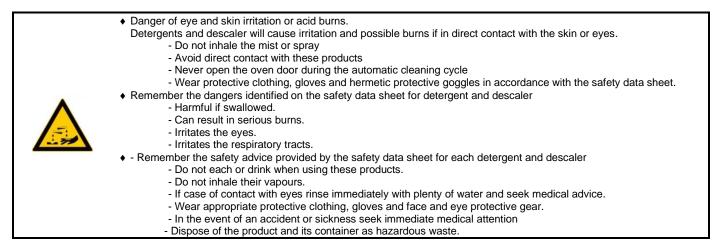
## 8.1 LIST OF ACTIONS

Caution: The appliance must be isolated electrically during cleaning or maintenance and when replacing parts.

Subject	Recommendations (Every year or Every 3000 h)					
0.4	Preparing for maintenance					
Software version errors	Is the equipment running the latest software version? If not, update.					
Errors	Establish the error history. If the recorded electronics temperatures are too high (E30, i21; E37), check that					
	the air inlet vents and technical fan are clean -ensure that the technical fan is working.					
	If there are water flow errors (E82, i81), check the water solenoid valves, the flowmeter and the water inlets.					
	General					
Electrical connection	Complies with local standards					
Earthing	Check earth continuity					
Levelling	Levelling - Height of the loading threshold					
Floor fixing	If fixing to the ground is required, check that it is functional.					
	Facia / Screen					
Control facia seal	No trace of water leakage or humidity inside the control facia and on electronic card protections; Replace					
	the control facia seal if necessary					
Electronics screen	No dirt or dust deposit on components					
screen connections	No oxidation on USB / RJ45 plug terminals					
Coder	No trace of water leakage or oxidation - Check correct operation					
	Technical compartment					
Ventilation openings / Technical fan	Cleaning the openings - Cleaning the fan blades					
Supply terminals	No trace of overheating - Tighten connections					
Fuse-holders (if any)	No trace of overheating - Tighten connections					
Contactors	No trace of overheating - Tighten connections					
The FastPad Power assembly	General dusting - No oxidation on outlet contacts - Check Fuse condition (Visual inspection of LEDs status)					
Vent	General sealing - Check gasket - Cleaning - Operation					
	Heating					
Ventilation Motor	Systematic replacement of drive shaft gasket - Check tightness of fixings - Lubrication of shaft (High					
	temperature lubricant)					
Direction of rotation	Check that the motor changes direction of rotation every 4 min in convection mode					
Heating elements	No trace of overheating on connections - Tightening electric connections - Measurement of intensities					
Steam generator / muffle connection	The silicone pipe should be in good condition (watertight, non-porous) -clamps correctly positioned.					
eteam generator / mane connection	Hydraulics					
Water connection	Complies with local standards					
Water quality	Check the water quality according to our recommendations (see installation manual)					
Water treatment appliance	Check the level, regenerate the appliance or change the filter cartridge if necessary					
General sealing	Visual inspection					
	Check the wastewater drainage, ensure that there are no grease/dirt plugs and clean if necessary					
Drainage Water inlet	Check the wastewater dramage, ensure that there are no grease/dift plugs and clean in necessary Cleaning of the filter					
Spray (Accessory)	The spray head is working and is watertight; the automatic return is working.					
Flow sensor	No trace of leakage - No oxidation on electrical harness contacts - If necessary, thighten the hydraulic					
Colonaiduchuca	clamps and clean the electrical contacts.					
Solenoid valves	No indication of overheating on coils (Possible colour change) - Check its operation					
Cleaning product circuit	Check the condition of the different components: container base valve, pump fitting, pump, cleaning of					
De se ster sins it	the container base valve - Replace the product suction PVC hose and other components if necessary.					
Descaler circuit	Check the condition of the different components: container base valve, pump fitting, pump, cleaning of					
	the container base valve - Replace the product suction PVC hose and other components if necessary.					
O an and a set diff.	Cavity					
General condition	No rust stain - Cleaning efficiency - Descaling					
Seal	Cleaning - General condition - Replacement if necessary					
Core probre	General condition (tip, cable) - Check the tightness of the bulkhead grip and its seal					
Damper valve	Check that the valve flaps freely. Check the condition of the seal and change it if necessary.					
Ventilation turbines	General cleanliness -no limescale or corrosion -fins in good condition					
Heating resistors	General cleanliness -no limescale					
Sprinkler / Wash arm	Operation; free rotation of the arm; cleaning the nozzles; mechanical fixation					
Water injection nozzle	Internal cleaning - Possible descaling - Replacement of the gasket - Mechanical fixation					
Drain	Cleanliness - Fixation of grid - Sealing; Replace the seal if necessary					
Collection channel under door	Sealing - Cleanliness of the drain					
Cavity drain valve	Good operation - Internal sealing					
	Door					
General	Door assembly / door adjustment / screw tightness					
Lighting	Lighting functioning					
Top and bottom hinges	Check general condition (Wear); Lubrication					
Inner door	Condition and presence of inner door stops (Complete if necessary); Check good rotation and efficiency					
	of locking spring (Adjust if necessary)					
Lighting strip label	Check condition of the label (it must ensure water tightness) - Cleaning - Replace if necessary					
Door closing mechanism	Check gaps and general fastening - Wear status of parts subject to friction					
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	Louisville, KY 40201					

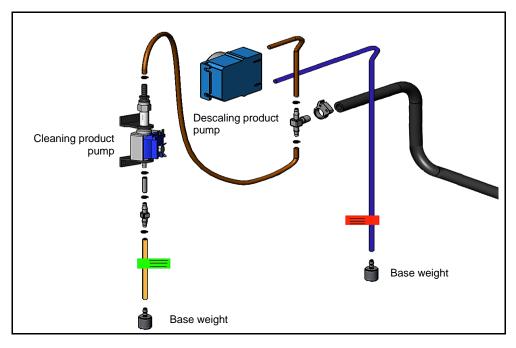
Charging trolley	Charging trolley is in good condition -adjustment of the stacking height/floor is correct -check the caste (wear/swivelling movement)			
	Only gas oven			
Gas connection	The gas connection complies with local standards -If connected via a flexible hose, ensure its suitability for use (date, condition etc.)			
Air replacement	The air replacement in the room complies with local standards -the air inlets are not obstructed			
Gas connection	If the connection is made with a hose, check it suitability for use (Date, condition,)			
Gas pressure	Checking the "static" and "dynamic" pressures at the appliance inlet			
Burners	Disassemble - Condition of metal fibre - Cleanliness of jet - Condition and position of electrodes - Sealing of the assembly			
Heating exchangers	Visual inspection of the general condition - Sealing of the flanges with technical compartment - Check fastening points			
Flame security control	Dusting - Visual inspection of connections			
Gas circuit sealing	During burner operation, check the seal of the circuit at every fitting			
Control of safeties	During burner operation, turn off gas supply - The burner safety must activate			
Combustion hygiene check	Measure the CO/CO2 level (following the instructions in "Switching from one gas to another".			

#### 8.2 WORKING ON THE DETERGENT PUMPS



#### 8.2.1 CLEANING AND DESCALING PRODUCTS PUMPS

The internal pipe of the descaling pump must be changed at least once a year (Voir paragraphe « Pompe de produit détartrant » dans le chapitre « Procédures de changement des composant s ».





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#### 8.3 ADJUSTING FREQUENCY INTERVENTION MAINTENANCE, USAGE RATE PER DAY

<u>**REMINDER**</u>: The frequency between two maintenance visits and the rate of use per day have been entered according to information (number of hours per day/type of cooking) provided by the customer during installation.

During maintenance it is the responsibility of the technician to check these settings against the actual use of the oven and modify them if necessary (according to the table below) :

		Adjusting the installation parameters (To be entered in Installation Parameters)			
Type of use (Client information)	Hours of use/day informati		Maintenance regularity (in hours)	Hours per day (in hours)	
	LIGHT	< 7 h	2000	6	
NORMAL USE (General	STANDARD	7-12 h	3000	8	
Restaurant)	INTENSIVE	12-17 h	3000	16	
	VERY INTENSIVE	17-24 h	3000	24	
COOKING >220°C	STANDARD	< 7 h	3000	8	
and / or	INTENSIVE	7-12 h	3000	16	
COOKING FATTY PRODUCTS	VERY INTENSIVE	12-17 h	3000	24	
(e.g. : rotisserie chicken)	VERY INTENSIVE	17-24 h	3000	24	

#### Procedure :

- Go into the service screen
- Press the "installation parameter" button
- Enter the PIN code for the installer "INSB"
- Validate "V": when all the code has been entered and it is correct access the menu or start on the PIN number again.



- Enter the number of hours before the next service visit: « HSr ». Adjustable from 100 to 5000 hours. Allow at least one service per year.

- \* Select the value to be modified
- \* Adjust the value using the coder
- Enter the average hours per day that the unit is likely to operate: « H-d ». Adjustable from 1 to 24 hours.
  - \* Select the value to be modified
    - \* Adjust the value using the coder



- Frequency of maintenance
- → Level of use per day



#### 8.4 RE-INITIALISATION OF THE MAINTENANCE COUNTER

- Go into the service screen
- Press the "installation parameter" button
- Enter the PIN code for the installer "INSB"
- Validate "V": when all the code has been entered and it is correct access the menu or start on the PIN number again.



- Re-initialise the remaining time before the next service.

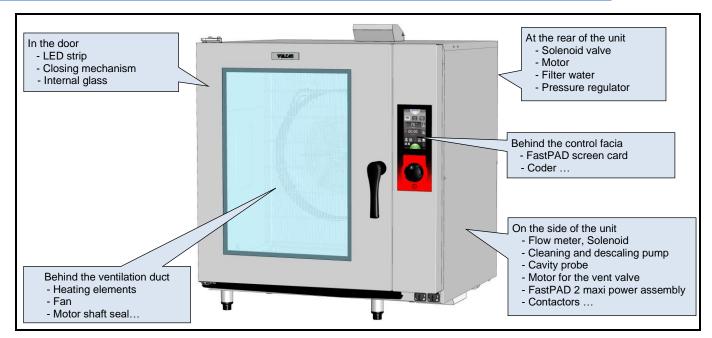


N.B. : If the time remaining before the next maintenance is less than or equal to 0, error code i84 will be displayed in error codes



#### 9. PROCEDURE FOR CHANGING COMPONENTS

#### 9.1 LOCATION OF TECHNICAL COMPONENTS

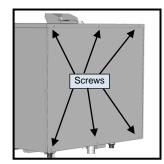


#### 9.2 ACCESS TO COMPONENTS

Caution: The appliance must be isolated electrically during cleaning or maintenance and when replacing parts.

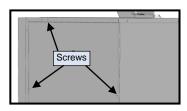
9.2.1 BEHIND THE OVEN

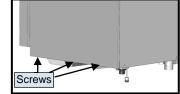
- Unscrew the various fixing screws
- Remove the side



#### 9.2.2 THE RIGHT SIDE OF THE OVEN

- Unscrew the various fixing screws on the side of the oven
- Unscrew the 3 fixing screws under the side of the oven
- Remove the rear panel





#### 9.2.3 BEHIND THE CONTROL FACIA

- Remove the screw under the control of façade
- Open the hinged front
  - Push the front panel upwards and open it to the right







#### 9.3 CODER

- Remove the coder knob
- Open the facia
  - See the section on access to components «Behind the control facia»
- Undo the code fixing nut (12mm spanner)
- Removing the coder
  - Disconnect the coder from the screen card
  - Disconnect the earth wire from the coder on the control panel
  - Remove the coder and change it

#### 9.4 SCREEN CARD

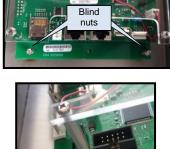
- · Removing the facia
  - See the section on access to components «Behind the control facia»
- Disconnect the screen card:
  - Le câble de la prise RJ45
  - The cable from USB port if the oven has one
  - The coder
- Removing the screen card
  - Undo the blind nut (thin 5.5mm spanner)
  - Remove the spring
  - Tilt the card towards you and lift it out of its notches
- Change the screen card
- Reassamble the new screen card and reconnect it.
- Configure the new screen card
  - Switch the oven on
    - Follow the instructions on screen card parameter setting (see section: "Parameter setting of the screen card" in the "Parameter setting program" chapter)

#### 9.4.1 BUZZER ON THE SCREEN CARD

- · Disconnect the Buzzer from the screen card
- Removing the buzzer Undo the 3 screws holding the cover
  - Lift the cover off
  - Undo the two screws holding the buzzer
- Change the buzzer

When refitting the buzzer to the cover it will function best if you do not tighten the fixing screws too much. The buzzer can be left "floating'





Notch

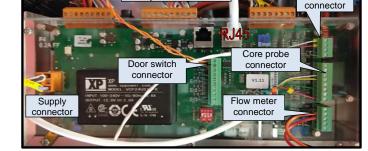




Probe

#### 9.5 FASTPAD 2 MAXI POWER ASSEMBLY (complete assembly with box)

- To access the Motor fuses, ... except for the triac solenoid, the FastPAD 2 maxi power assembly must be removed.
- Access to power assemblies See the section on access to components «On the
- side of the oven» • Remove the defective FastPAD 2 maxi power unit
  - Disconnect from the card
    - The 3 output connectors
    - Probe connector
    - The flow meter connector
    - The core probe connector (green on the right)
    - if the oven is fitted with a core probe socket
    - The RJ45 socket
    - Supply connector
    - The door switch connector



Output connectors



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RJ45

Spring

Coder

connection



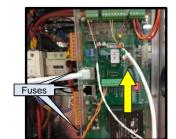


- Slightly unscrew the Phillips screw PH2 at the top of the box
- Move the power unit box upwards, then pull it to the left
- Change the FastPAD 2 maximum power assembly Before reassembling the new FastPAD 2 maximum power unit, configure the card by correctly positioning the microswitches (see section on "Position of the microswitches" in the "Maintenance program" chapter).

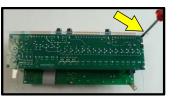
#### 9.5.1 FASTPAD 2 MAXI UL RELAY BOARD

- Removing the complete power unit box
   See the section on «FastPAD 2 mini power unit»
- Undo the 4 cross head screws holding the clear protective cover on the box
- Remove the cards from the metal support
- Place the box on a table (transparent face down)
- Removing the FastPAD 2 maxi UL relay board
  - Undo the 4 screws holding the card onto the stubs.
    - Place the card nearby
    - Disconnect the ribbon cable between the output control card and the main card
- Change the FastPAD 2 maxi UL relay board
  Removing the complete power unit box











#### 9.6 LED STRIP (IN THE DOOR)

- Ouvrir la porte
- Open the inner window
  - Press lightly on the upper bracket to unclip the window
- Removing the door trim
  - Unscrew the 3 screws on the side of the door
    - Unscrew the 5 screws of the casing
  - Remove the cover and the bracket from the interior
  - glass
- Removal of the LED strip
  - Unscrew the 2 fixing screws of the strip
  - Be careful not to lose the 2 plastic spacers placed behind

#### the strip

- Remove the strip
- Disconnect the power wire using a small screwdriver
  Change the LED strip

Do not press down on the connector when connecting the power wire to the LED strip, this could break the connector. When reassembling, remember to put the plastic spacers back in place behind the LED strip.









#### 9.7 CLOSING MECHANISM

- Open the door
- Open the inner window
  - See the section on access to components «On the side of the oven»
- Removing the door trim
  - Unscrew the 3 screws on the side of the door
  - Unscrew the 5 screws of the casing
  - Remove the cover and the hook from the interior window









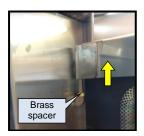
- Removing the door handle
  - Unscrew the 3 CHC M4 fixing screws of the door handle
  - Remove the door handle
- Removal of the closing mechanism Unscrew the central fixing screw of the mechanism on the handle
  - Remove the mechanism
- Changing the closing mechanism

When reassembling the mechanism, fit the screw with the medium thread lock

#### 9.8 INTERNAL GLASS

- · Open the door
- To open the internal glass
- Press lightly on the upper hook to unclip the window • Removing the glass
  - Lift the glass to release it from its brackets Be careful not to lose the two brass spacers on the hinges





#### 9.9 DOOR CATCH

- · Open the door
- Undo the 2 M6 Allen screws
- · Remove the catch and its 2 packing shims
- Change the catch
  - When refitting ensure the shims are the right way round





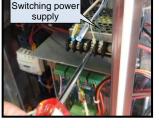
#### 9.10 DOOR

- Open door
- Removing the inner glass
- See Chapter "Interior Glass" • Open the right side of the oven
  - See the section on access to components «On the side of the oven»
- Disconnection of the LED strip
  - Disconnect the wires of the LED strip from the lighting switching power supply
- Removing the shutter from the hinge
  - Unscrew the front screw and the rear 2 hinges
  - -Remove the shutter
- · Remove the power wires from the oven LED strip and from the hinge
- Loosen the hinge fixing screw a few turns
- Removing the door
  - Lift the door to remove it from the lower hinge then release it from the upper hinge
- · Changing the door When reassembling, recover the 2 brass spacers from the old door for use on the hinges of the interior glass
- · Reattach the new door and connect the LED strip
- · Adjusting the door
  - Check that the muffle is level, otherwise refer to the installation instructions

Pay attention to the different loading sill heights according to the oven.

- Upgrading the left/right door
  - Loosen the 3 fixing screws on the hinge ٠
  - Position a level on the top of the door ٠

- Lift the door to level it
- Tighten the 3 screws

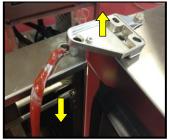


















#### 9.11 VENT VALVE MOTOR

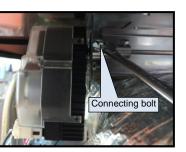
- Open the right-hand side of the oven:
  - See the section on access to components «On the side of the oven»
- Disconnect the electrical supply to the motor
- To remove the motor
  - Slacken the bolt connecting the short shaft to the motor several turns

It is advisable not to remove the bolt without supporting the short shaft

- Undo the 2 nuts holding the motor to its support
  Remove the motor
- Change the motor

When refitting remember to retighten the connecting bolt between the short shaft and the motor







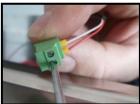
#### 9.12 FLOW METER

- Access to flow meter(s)
  - Open the right-hand side of the oven:
    - See the section on access to components «On the side of the oven»
- Disconnect the electrical supply to the flow meter
  - Unscrew the connector fixing screw and disconnect it from the flowmeter
- To remove the flow meter
  - Cut the flowmeter fixing collar on the stainless-steel plate
     Disconnect hydraulically
     Slacken the two clamps and pull the hoses off
    - Slacken the two clamps and pull the hoses off the flow meter
- Change the flow meter

#### 9.13 TEMPERATURE PROBE

- Access to temperature probe
  - Open the right hand side of the oven:
    - See the section on access to components «On the side of the oven»
- Déconnecter électriquement la sonde
  - Unclip the terminal block from the FastPAD power assembly
  - Disconnect the two wires from the terminal
- To remove the probe
  - Remove the holding clip
  - Remove the probe and its seal
- Change the probe and seal
- The probe seal must always be changed if the probe is changed or removed for any reason (replaced or simply checked)





Attatch

"cable tie"

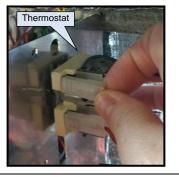




- Access to the thermostat
  - Open the right side of the oven :
    - See the chapter on access to components "on the side of the oven"
- Electrically disconnect the thermostat
  - Disconnect the two power terminals
- Removing the bulb
  - Pull the bulb towards you
- Removing the thermostat
  - Unscrew the fixing nut behind the plate

- Remove the thermostat and change it When fitting the new bulb, apply a dot of "mastic" at the base of the thermowell.







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Connector fixing

screw

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#### 9.15 CLEANING PRODUCT PUMP



Before any work on the descaling product pump, refer to the "Preventative Maintenance" chapter: "Intervention on the cleaning and descaling product pumps" to ensure that the safety instructions are followed.

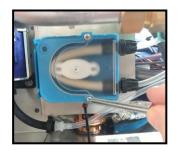
- Access to cleaning product pump(s)
  - Open the right hand side of the oven
    - See the section on access to components « On the side of the oven»
- Disconnect of pump
  - Disconnect the electrical supply
  - Use clamps on the inlet and outlet pipes of the pump
  - Cut the clamps holding the hoses
  - Pull the entry and exit hose off the pump
- To remove the pump
  - Undo the 4 M4 bolts
  - Remove the pump

#### 9.16 DESCALING PRODUCT PUMP : INTERNAL HOSE KIT

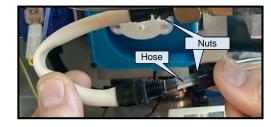


Before any work on the descaling product pump, refer to the "Preventative Maintenance" chapter: "Intervention on the cleaning and descaling product pumps" to ensure that the safety instructions are followed

- Access to the descaling product pump
  - Open the right-hand side of the oven
    - See the section on access to components « On the side of the oven»
- Access to the internal hose kit
  - Unscrew the 2 fixing screws on the protective cover
  - Remove the protective cover
- Removing the hose kit from the pump
  - Remove the kit from its base
  - Use clamps on the inlet and outlet pipes of the pump
  - Unscrew the 2 product inlet and outlet nuts
  - Disconnect the product inlet and outlet hose
- Change the internal hose kit



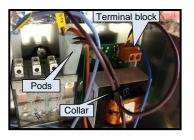




#### 9.17 DRAIN VALVE MOTOR

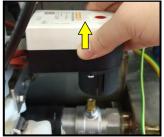
- Access to the drain valve
  - Open the right-hand side of the oven
    - See the section on access to components « On the side of the oven»
- Disconnection of the valve motor
  - Cut the cable tie
  - Disconnect the wire from the terminal block of the transformer board
  - Disconnect the two terminals of the relay
- Removal of the valve motor
  - Remove the black cap
  - Unscrew the motor fixing screw on the valve
  - Remove the motor from the valve
- · Changing the motor

When reassembling, remember to replace the black cap on the motor fixing screw on the valve.

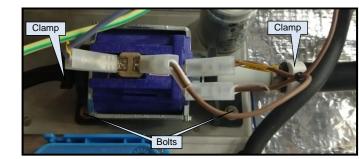












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#### 9.18 HEATING ELEMENT

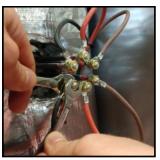
- Open the oven door
- Remove the shelves from the oven
- Remove the ventilation duct
  - Unscrew the two fixing screws of the sheath
  - Lift the sheath and pull it towards you
  - Put some cardboard in the bottom of the oven to protect it in case of a tool being dropped during removal.
- Unscrew the fixing screw on the injection tube
- Remove the injection tube
- Unscrew the low acorn nut and the 3 high HM6 screws of the resistor
- Opening the back of the oven :
  - See the chapter on access to the "rear of the oven" components.
- Use two open-ended wrenches to disconnect the resistor electrically
- Remove the resistor from inside the oven
- Change the resistor and its seal without forgetting to replace it with the same.
  - We recommend regularly changing the seal when changing a resistor and during the annual maintenance.













#### 9.18.1 HEATING ELEMENT SEAL

- Open the oven door
- Resistor removal
- See the chapter "Resistor"Remove the seal and change it
- We recommend regularly changing the seal when changing a resistor and during the annual maintenance.

#### 9.19 FAN

- Open the oven door
- · Remove the shelves or trolley from the oven
- Remove the ventilation duct
  - Unscrew the two fixing screws of the sheath
  - Lift the sheath and pull it towards you Put some cardboard in the bottom of the oven to protect it in
  - case of a tool being dropped during removal.
- Access to the turbine
  - Unscrew the fixing screw of the injection tube
  - Remove the injection tube
  - Unscrew the injection washer fixing screw
  - Remove the injection washer and the flat washer
  - Replace the injection washer fixing screw to avoid marking the thread of the motor shaft
- Removing the turbine
  - Put the hub puller in place
  - Use one hand to hold the turbine and the other to turn the screw of the hub puller using an adjustable wrench until the turbine is released
    Remove the hub puller and the turbine
- Change the turbine













#### 9.20 MOTOR SHAFT SEAL

- Remove the heating element
   See section on «heating element»
- Remove the motor shaft seal and its wear ring When replacing a motor seal always remember to change the wear ring
- Lubricate the motor shaft with high temperature food quality grease such as BIOLUB When refitting: Fit the assembly onto the motor shaft and rotate the shaft before fitting the fan, to ensure the seal and wear ring are correctly located (they should not rotate with the shaft)

#### 9.21 **MOTOR**

- Remove the fan, the motor shaft seal and its wear ring

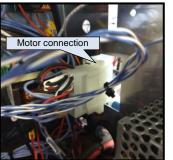
   See section on « Fan » and « Motor shaft seal »
   Systematically replace the seal and wear ring when changing a motor
- Open the rear and the right-hand side of the oven:
   See the sections on access to components «Behind the oven » et «On the side of the oven »
- Disconnect the motor electrically
- To remove the motor
  - Undo the 4 brass nuts and washers holding the motor.Remove the motor by pulling it gently downwards then
    - towards you

#### 9.22 CAVITY SEAL

- Open the door
- Pinch the seal in one of the corners and pull it towards you
- Unclip the seal all the way round and pull it off
- Change the seal













#### 10. **CHECKING THE TEMPERATURE SENSORS**

10.1 PT100 PROBE

PT100 probe components

PT100	)

Temperature sensor comprises a resistance sensor with the value of 100 ohms for a temperature of 32°F and 138.5 ohms for a temperature of 212°F. The variation of the resistance to temperature relationship is linear. The resistance reading is directly proportional to the measured temperature. The sensor is not polarised. The sensor can be extended using copper wire.

Temperature in °F relative to Resistance in $\Omega$ for PT100 sensor										
°F	0	1	2	3	4	5	6	7	8	9
30			100.00	100.22	10043	100.65	100.87	101.08	101.30	101.52
40	101.73	101.95	102.17	102.39	102.60	102.82	103.04	103.25	103.47	103.69
50	103.90	104.12	104.33	104.55	104.77	104.98	105.20	105.42	105.63	105.85
60	106.06	106.28	106.50	106.71	106.93	107.14	107.36	107.58	107.79	108.01
70	108.22	108.44	108.66	108.87	109.09	109.30	109.52	109.73	109.95	110.16
80	110.38	110.60	110.81	111.03	111.24	111.46	111.67	111.89	112.10	112.32
90	112.53	112.75	112.96	113.18	113.39	113.61	113.82	114.04	114.25	114.47
100	114.68	114.90	115.11	115.33	115.54	115.75	115.97	116.18	116.40	116.61
110	116.83	117.04	117.26	117.47	117.68	117.90	118.11	118.33	118.54	118.75
120	118.97	119.18	119.40	119.61	119.82	120.04	120.25	120.47	120.68	120.89
130	121.11	121.32	121.53	121.75	121.96	122.17	122.39	122.60	122.81	123.03
140	123.24	123.45	123.67	123.88	124.09	124.31	124.52	124.73	124.94	125.16
150	125.37	125.58	125.80	126.01	126.22	126.44	126.65	126.86	127.07	127.29
160	127.50	127.71	127.92	128.14	128.35	128.56	128.77	128.99	129.20	129.41
170	129.62	129.84	130.05	130.26	130.47	130.68	130.90	131.11	131.32	131.53
180	131.74	131.96	132.17	132.38	132.59	132.80	133.01	133.23	133.44	133.65
190	133.86	134.07	134.28	134.49	134.71	134.92	135.13	135.34	135.55	135.76
200	135.97	136.18	136.40	136.61	136.82	137.03	137.24	137.45	137.66	137.87
210	138.08	138.29	138.50	138.72	138.93	139.14	139.35	139.56	139.77	139.98
220	140.19	140.40	140.61	140.82	141.03	141.24	141.45	141.66	141.87	142.08
230	142.29	142.50	142.71	142.92	143.13	143.34	143.55	143.76	143.97	144.18
240	144.39	144.60	144.81	145.02	145.23	145.44	145.65	145.86	146.07	146.28
250	146.49	146.70	146.90	147.11	147.32	147.53	147.74	147.95	148.16	148.37
260	148.58	148.79	149.00	149.20	149.41	149.62	149.83	150.04	150.25	150.46
270	150.67	150.87	151.08	151.29	151.50	151.71	151.92	152.13	152.33	152.54
280	152.75	152.96	153.17	153.38	153.58	153.79	154.00	154.21	154.42	154.62
290	154.83	155.04	155.25	155.46	155.66	155.87	156.08	156.29	156.49	156.70
300	156.91	157.12	157.32	157.53	157.74	157.95	158.15	158.36	158.57	158.78
310	158.98	159.19	159.40	159.60	159.81	160.02	160.23	160.43	160.64	160.85
320	161.05	161.26	161.47	161.67	161.88	162.09	162.29	162.50	162.71	162.91
330	163.12	163.33	163.53	163.74	163.95	164.15	164.36	164.56	164.77	164.98
340	165.18	165.39	165.60	165.80	166.01	166.21	166.42	166.63	166.83	167.04
350	167.24	167.45	167.65	167.86	168.07	168.27	168.48	168.68	168.89	169.09
360	169.30	169.50	169.71	169.92	170.12	170.33	170.53	170.74	170.94	171.15
370	171.35	171.56	171.76	171.97	172.17	172.38	172.58	172.79	172.99	173.20
380	173.40	173.61	173.81	174.01	174.22	174.42	174.63	174.83	175.04	175.24
390	175.45	175.65	175.86	176.06	176.26	176.47	176.67	176.88	177.08	177.28
400	177.49	177.69	177.90	178.10	178.30	178.51	178.71	178.92	179.12	179.32
410	179.53	179.73	179.93	180.14	180.34	180.54	180.75	180.95	181.15	181.36
420	181.56	181.76	181.97	182.17	182.37	182.58	182.78	182.98	183.19	183.39
430	183.59	183.80	184.00	184.20	184.41	184.61	184.81	185.01	185.21	185.42
440	185.62	185.82	186.03	186.23	186.43	186.63	186.83	187.04	187.24	187.44

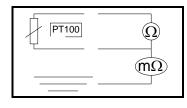
#### How to read the chart:

To find the resistance corresponding to a temperature of 235°F.

- Find the intersection of the line 230°F and the column 5°F.

- The reading shows 143.34 Ohms.

#### <u>Check</u>



Check sensor resistance with an ohmmeter set to 200 ohms (less than 107 ohms for 20°). Check the sensor insulation between one of the leads and the metal part with the ohmmeter set at 20 mega ohms (a value over 15 mega ohms).

Check the continuity between the feed and the metal part of the sensor.



## 11. FRONT LINE PARTS

Designation	Codes
Drive shaft gasket + wear ring	145587
120W UL Motor service kit	147147
UL drainage valve	147861
Resistance service kit 11.43 KW 240V + gasket (outer flange)	147960
Resistance service kit 19.6 Kw 240V + gasket	147961
Resistance service kit 16.3kw 208V + gasket	147962
Regulation probe service kit 1PT100	148071
250W Motor service kit + ring + gasket Resistance service kit 11.43 Kw 240V + gasket	148095 148096
Resistance service kit 22KW 277V + gasket	148096
Resistance service kit 11KW 277V	148098
40 diameter burner service kit 15-24 kW	148246
40 diameter burner service kit	148247
Gas fan service kit	148257
One-way UL solenoid valve 1 x 10L/min	148597
Two-way UL solenoid valve 2 x 10L/min	148598
After sales kit facia seal	148755
Motor relay with fixation bracket	300282
Reed switch	300676
Fuse holder 6.3 x 32	300679
Three-pole 25A 230V 50/60 Hz contactor	300697
Three-pole 50A 230V 50/60 Hz contactor	300700
Tree-pole 80A 230V 50/60 HZ contactor	300702
Anti-interference relay	300769
Ultra fast fuse 0.2A 250V 5 x 20 10amp 5 x 20 fuse	<u> </u>
5 x 20 fast fuse 1 amp	300788
600VAC fuse 10A 10.3 x 38.1	300789
Contactor LC1D80P7	300798
Glass fuse	300801
Manual reseting 320°C thermostat + nut	301066
Peristaltic pump 3 litres/h	304312
Condenser 12.5µf	304296
Ventilation fan 120 x 120 x 38 230/50/60 UL	304297
24V Motor/gearbox	305110
Switching regulator 15V 15W RS 15-15	308350
Transformer 230V/24 UL	308492
830 VA Transformer	308498
415 VA Transformer	308499
Fuse 3.15 Amps	309407
Inter card cable	309581
Filter with connection for gas oven	309608
FastPAD 2 interface assembly LED strip	309634 309638
VISIOPAD coder	309644
FastPAD 2 Screen	309646
FastPAD 2 Max UL relay connection	309663
Gas burner control card	309704
848 Sigma 60Hz gas valve	310355
Security box	310356
LED strip label	311356
CP2A pump	314379
Base weight	318060
Heating element + immersion heater gasket	366461
27 x 3 EPDM 70 shores O ring	366485
Capacity drainage gasket	366556
Capacity gasket for oven	366561
Capacity gasket to 1035 and 1056	366562
Door stop	366572
4 x 6 PVC hose per meter	366601
Inlet flange gasket exchanger	366680
Outlet seal exchanger 6/10 levels	366683
Heat exchanger inlet seal	<u>366684</u> 366685
Gas fan gasket Door closure mechanism	366685 384187
Anti-parasite module	407002
Gas ignition	407002
Arched ignition electrode	408402
Straight Ionisation electrode	468401

