

# metos

## Deep fat Fryer

Metos Marine

EVO-200 (T), EVO-2200 (T), EVO-250 (T), EVO- 2525 (T), EVO-400 (T),  
EVO-600

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## User Manual

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EVO 2200



EVO 250

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## Warning:

The information given in these operating instructions may be amended at any time. The manufacturer accepts no liability for errors in these instructions and any consequent damage.

The following operating instructions are based on **EC** and international regulations, as well as on the new product liability.

## 1. Important information

### 1.1 Warning

Before using the fryer you must:

- ⇒ **study the following operating instructions and follow them closely**
- ⇒ **instruct the operating personnel and make them aware of the risk presented by food remains.**

**The manufacturer accepts no liability for damage caused through improper operation and failure to adhere to these operating instructions.**

### 1.2 Risks from food remnants



- Hot oil can cause severe burning. Therefore avoid any direct contact with the hot oil.
- Thoroughly drain the food to be fried before frying.
- Never allow water or ice to come into contact with the hot oil, otherwise the oil will spatter.
- Ensure that your face is not near the oil pan when food is immersed in it.
- Beware of clouds of steam and hot oil spray.
- Never allow anything but food to drop into the oil pan, e.g. gas cartridges, sealed bushings, etc. These explode and cause considerable spattering of oil.
- The fryer must not be operated without supervision. If a large amount of smoke develops, switch off immediately (switch to "0")
- The oil level must not drop below the "MIN" oil level mark. If the oil level is too low there is a fire risk.
- N.B.: Old or frequently used oil/fat has a lower flash point and is more easily ignited. It may suddenly boil over when food is immersed.
- If the fryer catches fire, never extinguish with water. It is recommended that a fire extinguisher or fire extinguishing blanket be installed near the fryer.

Valentine fryers conform to the most stringent safety standards and are equipped with breakage-proof temperature limiters. Damage or fault must be excluded wherever humanly possible.

### 1.3 Periodic inspections

- Have the operation of the working thermostat and security thermostat checked (see page 10 point 5.3)

## 2. Technical data

Model:	Power [kW]	Connection 3P+N+T 3x400V [A]	Frequency [Hz]	Power connection cable	Security circuit cable SOLAS	Capacity in liter	Working thermostat	Security thermostat	Timer	Protective system	Dimensions [cm]
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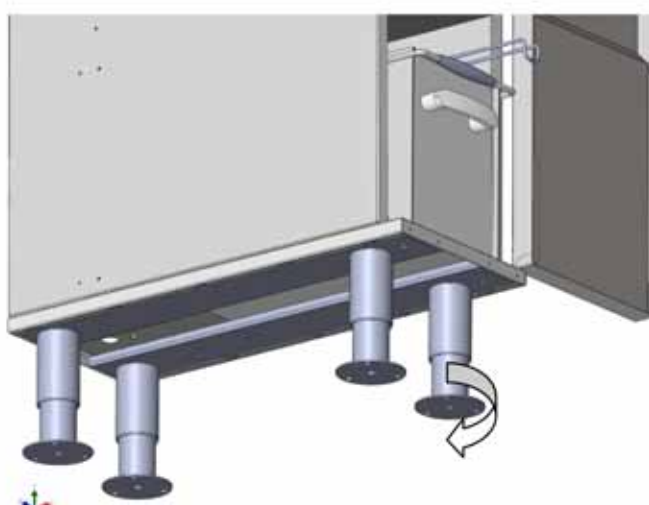
EVO-200MS	7.2	10	50-60	4x1.5	4x1.5	8	1	1	1	IP X5	20x60x85/90
EVO-200TMS	11	16	50-60	4x1.5	4x1.5	8	1	1	1	IP X5	20x60x85/90
EVO-2200MS	14.4	20	50-60	4x2.5	4x1.5	2x 7-8	2	2	2	IP X5	40x60x85/90
EVO-2200TMS	22	32	50-60	4x4	4x1.5	2x 7-8	2	2	2	IP X5	40x60x85/90
EVO-250MS	7.2	10	50-60	4x1.5	4x1.5	9-10	1	1	1	IP X5	25x60x85/90
EVO-250TMS	11	16	50-60	4x1.5	4x1.5	9-10	1	1	1	IP X5	25x60x85/90
EVO-2525MS	14.4	20	50-60	4x2.5	4x1.5	2x 9-10	2	2	2	IP X5	50x60x85/90
EVO-2525TMS	22	32	50-60	4x4	4x1.5	2x 9-10	2	2	2	IP X5	50x60x85/90
EVO-400MS	14.4	20	50-60	4x2.5	4x1.5	15-18	1	2	1	IP X5	40x60x85/90
EVO-400TMS	22	32	50-60	4x4	4x1.5	15-18	1	2	1	IP X5	40x60x85/90
EVO-600MS	21.6	32	50-60	4x4	4x1.5	25-28	1	3	1	IP X5	60x60x85/90

## 3. Installation

The fryer need to be on the floor, to level rotate the feet (MIN 850mm, MAX 900mm) See picture A. The fryer must not stand on combustible surfaces. Local safety regulations must be complied with.

Warning : The slimline fryers **EVO-200, EVO-200T, EVO-250 and EVO-250T** must not be freely erected (risk of tipping over). They must be installed between 2 units of furniture, or they must be supported on the sides.

### 3.1 Feet for Valentine Fryers in SOLAS version



### 3.1 Electrical connection for Valentine Fryers in SOLAS version

Only experts may connect and commission the fryers. Your mains data (voltage, current, fuse protection) must conform to the data on the fryer rating plate. The rating plate is mounted on the inside of the door ( page 6, n°2).

Valentine Marine Fryers in SOLAS version are equipped with 2 main blocs :

a) SOLAS security circuit


Terminal 1 2 3 4 5 6

This fryer is equipped with a universal SOLAS security circuit, different solutions are possible! See wiring diagram page

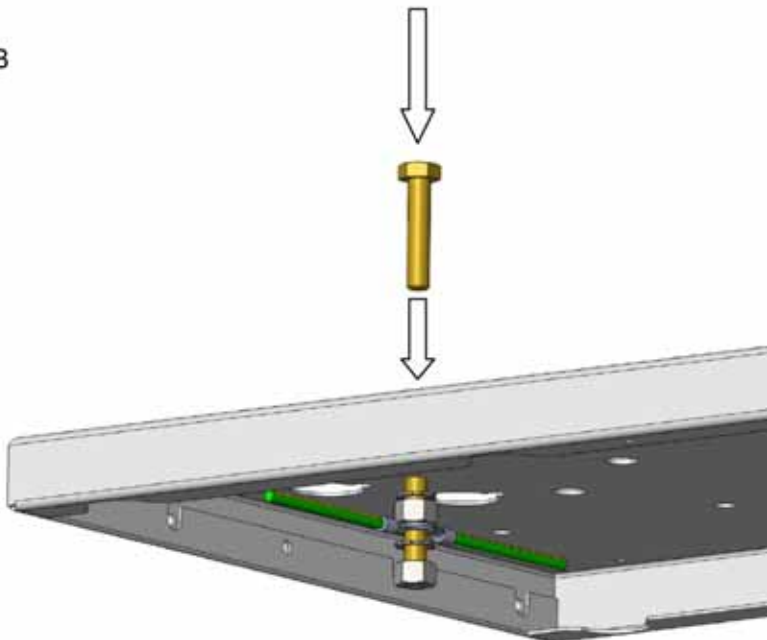
b) Power connecting cable

Terminals L1 L2 L3  $\pm$  See wiring diagram page

The electrical connection must conform to local regulations, essentially as follows:

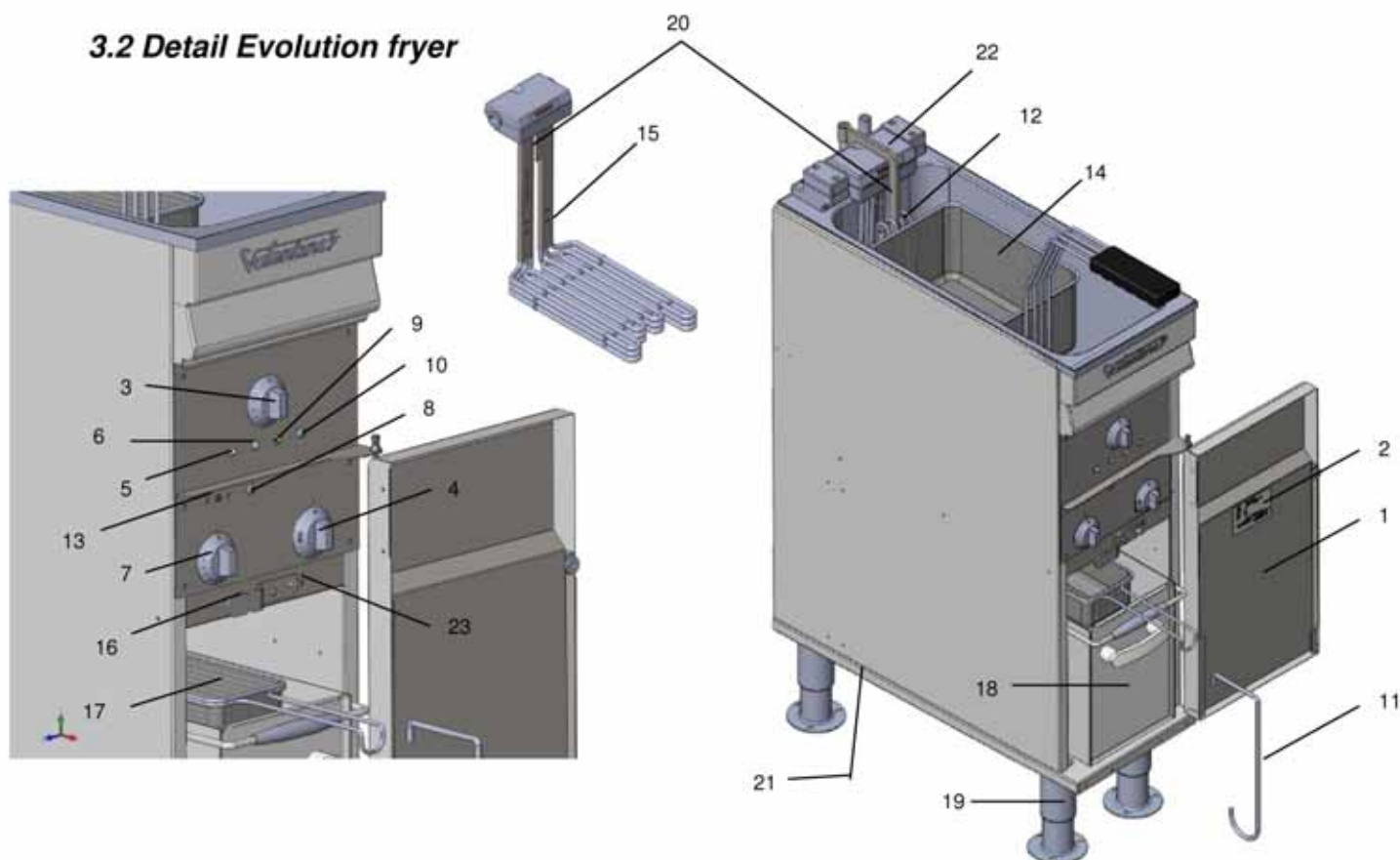
- Fitting a mains plug on the connecting cable. Earth conductor = yellow/green, neutral conductor = blue
- Any fixed connection must be made via a mains switch with all-pole isolation (min. contact distance 3 mm.).
- Before connection is made to the mains, check that the main switch (page 5, n°4) on « 0 ». Never heat without oil !
- The fryer can be connect to a potential equalisation .

Picture B



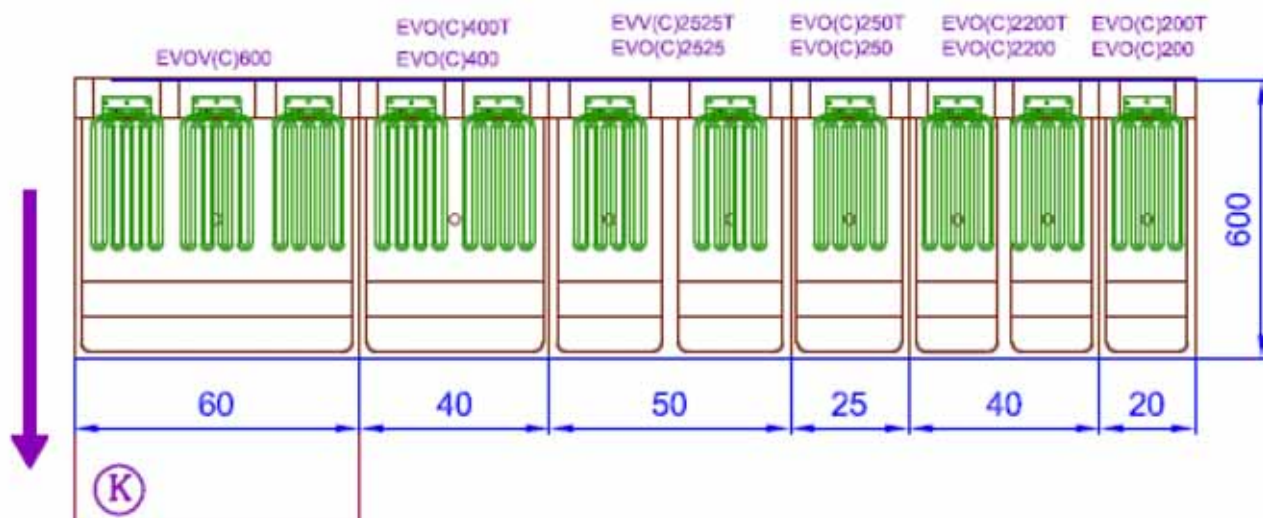


### 3.2 Detail Evolution fryer



1. Lid mounted in the door
2. Rating plate
3. Timer
4. Main switch (behind the door)
5. Colourless lamp = Melting
6. Colourless control lamp = Frying
7. Working thermostat (behind the door)
8. Red lamp, security thermostat
9. Yellow lamp = heating
10. Green lamp = immersing basket
11. Hook for increasing heating

12. Basket hook
13. Reset button for security thermostat
14. Basket
15. Oil level mark MAX - MIN
16. Oil cock level
17. Filter (behind the door)
18. Discharge tank (behind the door)
19. Foot
20. Heating element interlock (picture F)
21. Potential equalisation (picture B page 5)
22. Basket suspension bracket
23. Safety oil cock



## 4. Instructions for use

### 4.1 Pouring in oil

Grip lid (page 6, n°1) by handle and place inside the door.

◊ Whilst working, the folded lid is supported inside the door.

Peanut oil into the fryer basin as far as the **MAX** level mark (page 6, n°15)

◊ Solid fat must be melted in a pan, not on the heating element

### 4.2 Operation : Melting - frying

Open the door, move the main switch (page 6, n°4) to "ECO" position.

⇒ The left colourless signal lamp (page 6, n°5) comes on. Reduced power for block of fat in fryer. Also economic heating of oil, approx 10-15 minutes.

Switch thermostat to 150°, for exemple

⇒ The yellow signal lamp comes on

As soon as the first order is taken (page 6, n°4) turn the main switch to "I"  
Switch thermostat to approx. 180°

⇒ The colourless signal lamp (page 6, n°6) comes on.

⇒ The yellow lamp « heating » comes on.

The temperature reaches 180° in 2-3 minutes.

As soon as the green lamp (page 6, n°10) comes on, immerse basket.

Set timer, e.g. 3 minutes. As soon as the timer sounds (page 6, n°3), raise basket, shake and suspend.

⇒ After half the frying time raise and shake basket. Do not knock against oil pan.

**Always top up with oil after use. When the oil level is too low the power drops considerably and the oil is overheating.**

**Never operate below the "MIN" oil level mark.**

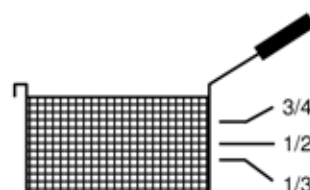
**Never overfill basket.**  
**Follow filling stages 1, 2, 3 in table**



**otherwise**

- oil is cooled excessively
- frying time is extended
- the food being fried absorbs oil

Temp. °C	Food being fried	Minutes	Basket filling height
190	Deep frozen chips	3 (1+1)	-1/3-
160	Prefrying raw chips	4 – 6	-3/4-
190	Finish frying, blanching chips	2 – 3	-1/3-
170	Veal pork schnitzel, cutlets	3	-1/2-
170	Deep frozen chicken legs	6 – 8	-1/2-
180	Fish	2 – 4	-1/2-



### 4.3 How to save oil

\* Do not heat the fryer for hours before or after service (The heating time is only 5-6 minutes).

→ **High temperatures ruin the oil, not the food!**

\* Limit oil temperature to 180 °C instead of 200 °C

→ **Oil life is extended by approx. 40 % !**

\* After each service pour oil through a microfilter (optional extra). This retains even microscopic waste.  
Working time = 1 minute, including cleaning of filter !

#### 4.4 Care of oil

Filter the oil after each use, approx. at 60 °C. N.B: Risk of combustion!

Open the door, turn main switch (page 6, n°4) to « 0 » position. Turn red lever (page 6, n°16) of oil cock complete downward (page 6, n°23) and at the same time push the safety pin to the right. Oil flows through the filter (page 6, n°17 et 18) into the tank.

- ⇒ Do not heat when oil pan is empty!
- ⇒ Is the cleaning filter on the tank ?
- ⇒ Pour oil back into the fryer
- ⇒ Clean filter and tank

Finally cover the oil pan with the lid mounted in the door  
Frying basket is in stainless

- ⇒ The lid protects the oil from dust and light.
- ⇒ Is washed once a week

*\* Important: If you do not open the drain cock completely (red lever in vertical position), the drain cock can be damaged!*

#### 4.5 Maintenance of fryer, changing oil

The fryer must be thoroughly cleaned when the oil is changed. As soon as the oil turns brown and begins to smoke (after approx. 20 to 40 operating hours, according to the operating temperature and grade of oil), the oil must be changed.

**Waste oil must not be poured into the drain.**

**You must deliver waste oil to a disposal service.**

Open the door. Turn the main switch (page 6, n°4) to « 0 », Lift the heating element into the drain position « see picture C ». Drain oil, remove tank and clean filter.

- ⇒ Do not lift heating element fully, otherwise oil will run along the rod to the heating element box = additional cleaning

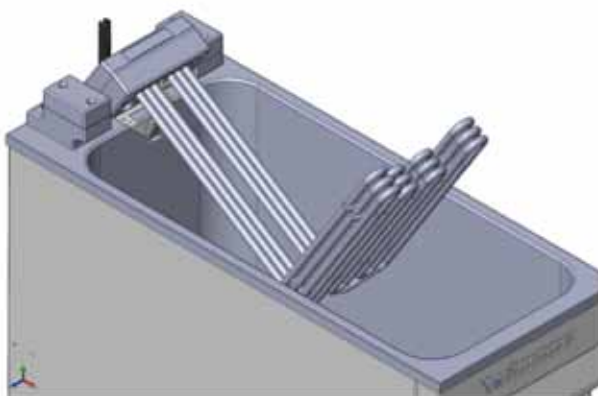
Boiling the water 95° with a degreasing agent or pastigras into the pan up to approx. 5 cm above the "MAX" (page 6, n°15) oil level mark. If you clean daily you will never have encrustation on the heating element or oil pan!

- ⇒ Allow the oil to operate for 1-2 hours, and clean heating element with a brush with a handle. Do not damage the thermostat sensor. Now raise heating element fully and clean oil pan down to the bottom. After cleaning, rinse thoroughly with hot water. Residues of cleaning agents or detergents ruin the fresh oil you are pouring in.

Wipe the oil pan and heating element clean with a dry cloth. Close oil cock, put in fresh oil up to the "MAX" level (page 6, n°15)

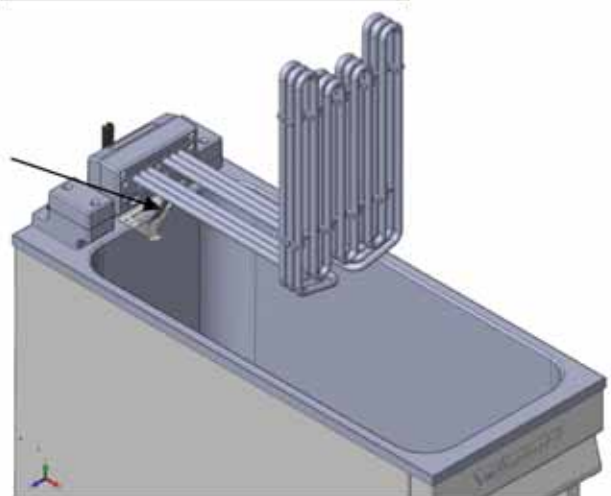
- ⇒ Raise the heating element. Push back the interlock page 8, picture D and tilt the heating element fully down above the drain position.

Picture C drain position



Picture D clean position

Interlock





## 5. Repairs

### 5.1 Simple faults

Fault	Possible cause	Remedy
The fryer is no longer heating. No lamp lights up	* No power	◇ Check fuses, plugs and socket
The red lamp lights up	* Safety thermostat has switched off	◇ Press reset button (see 5.3)
The fryer is not heating sufficiently	* One phase is missing on the power supply cable	◇ Check fuses
The fryer is not heating sufficiently	* The switch has remained on "ECO"	◇ Turn button to "I"
Oil cock is sticking	* Sticking due to old oil residues	◇ Actuate frequently with hot oil. i.e. filter oil daily

The special mains cable must only be replaced by the manufacturer or his customer service representative.

### 5.2 Complex faults

Fault	Possible cause	Remedy
The signal lamps come on, but the fryer is no longer heating	* Heating element defective	◇ Call the service centre *
The fryer is not heating sufficiently	* Interruption of a phase * Heating element defective	◇ Call the service centre *
The fuses blow when fryer is switched on	* Short-circuiting	◇ Call the service centre *
The fault current safety switch (FI) in the fuse box switches off	* Moisture or poor insulation in the electrical circuit	◇ Call the service centre *
The colourless signal lamp does not come on or is flashing	* Main switch defective	◇ Call the service centre *
The yellow signal lamp does not come on or is flashing	* Thermostat defective	◇ Call the service centre *
The green signal lamp does not come on or is flashing	* Thermostat defective	◇ Call the service centre *

**\* Important:** If you call the customer service dept, you must give the following information:

- Type of fryer
- Serial Nr..
- Volts, amps, kilowatts

*Example:*

- EVO-250
- U253A111K3
- 3x415V, 10.5A, 7.5kW

You will find this information on the fryer rating plate.

If the information is correct the fitter gains time, the customer saves money!

### 5.3 Safety thermostat

Every heating element is fitted with a breakage-proof temperature limiter. The reset button (page 6, n°13) is located behind the door on the upper edge of the control panel. The red lamp (page 6, n°8) to the right of the reset button (page 6, n°13) lights up as soon as the temperature limiter switches off.

Move switch to « 0 » position and the red lamp and acoustic alarm goes out.

The safety thermostat breaks the heating circuit

- \* When oil temperature is over 230 °C
- \* When capillary tube is damaged
- \* When temperature drops below 0 °C

And also in the case of improper use

- \* If the fryer is heated without oil
- \* If the oil level is too low
- \* If the heating element is not in the correct position in the oil pan
- \* If a lock of fat is melted on the heating element

#### Resetting the safety thermostat

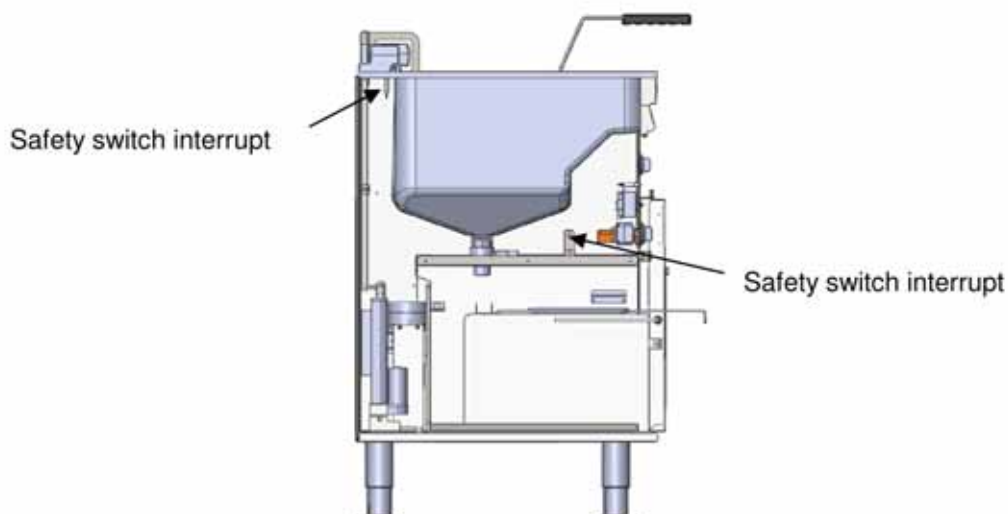
Before resetting, find out why it has switched off (see above list).

- **Allow fryer to cool.** The thermostat sensor on the heating element cannot be switched on if it has not cooled down (to accelerate cooling raise heating element to the drain position).
- **Push the red button** (page 6, n°13). Lamp (page 6, n°8) will go out. **N.B. Fryer is heating!** If the safety thermostat switches off again the fryer must be switched off. Inform the service centre.

### 5.4 Safety switch

As soon as the heating element is raised to the drain position (page 8, picture D), the safety switch interrupts the power supply. When the heating element is again in the work position the fryer work again.

Also, if you open the drain valve, the safety switch interrupts the power supply. When you close again the drain valve the fryer work again.



## 5.5 Spare parts

Only use original spare parts. When ordering spares parts indicate not only the unit no. but also the article no. given in the table.

Fryer type	Type
Unit number	No
Voltage, current and power	U, I, P

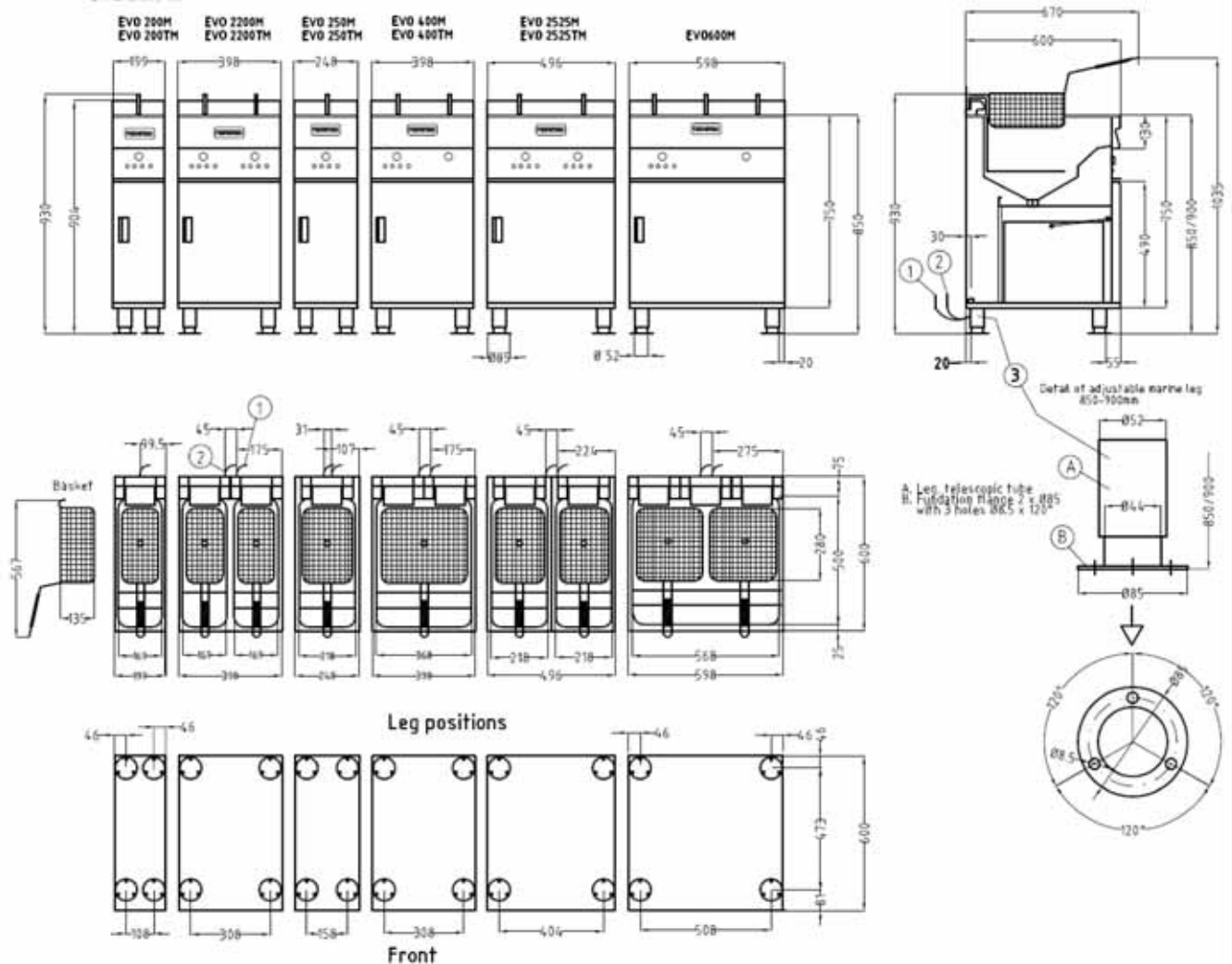
This information is given on the fryer rating plate

Name	EVO-200	EVO-200T	EVO-2200	EVO-2200T	EVO-250	EVO-250T	EVO-2525	EVO-2525T	EVO-400	EVO-400T	EVO-600	Art. Nr.
Colourless control lamp (melt, fry)	2	2	4	4	2	2	4	4	2	2	2	B0060-01
Yellow control lamp (heat)	2	2	4	4	2	2	4	4	2	2	2	B0060-02
Green control lamp (immerse)	1	1	2	2	1	1	2	2	1	1	1	B0060-04
Red control lamp (Security)	1	1	2	2	1	1	2	2	2	2	3	B0060-03
Resistance for control lamp	4	4	8	8	4	4	8	8	3	3	3	6328
Safety temperature limiter, sensor Ø4	1	1	2	2	1	1	2	2	2	2	3	6313-SA
Working thermostat, sensor Ø4	1	1	2	2	1	1	2	2	1	1	1	B0040-11SA
Main switch 10A	1		2		1		2		1	1	1	6316-52
Main switch 16A		1		2		1		2				6317-51
Resistance for security control lamp	1	1	2	2	1	1	2	2	1	1	1	B0060-06
Proximity main switch MS-228-3-1	2	2	4	4	2	2	4	4	3	3	4	B0045-20
Magnet MSM -228	2	2	4	4	2	2	4	4	3	3	4	B0045-21
Acoustic alarm SOLAS	1	1	1	1	1	1	1	1	1	1	1	6338
Contactors 3 x 20A coil 400/440V	1	1	1	1	1	1	1	1	1	1	1	6281-12
Resistance for security circuit SOLAS	1	1	1	1	1	1	1	1	1	1	1	6339-27
Fuse 1AT 5x20 mm	2	2	2	2	2	2	2	2	2	2	2	6847
Three-phase supply 400V-24V	1	1	1	1	1	1	1	1	1	1	1	B0045-04
Contactors 3 x 20 A coil 24V	1	1	2	2	1	1	2	2	1	1	1	B0045-01
Fuse 0.5A 5x20 mm	1	1	1	1	1	1	1	1	1	1	1	6847-01
Fuseholder	3	3	3	3	3	3	3	3	3	3	3	6401-SA
<b>Heating element</b>												
H E 7.2kW 3x400V	1		2		1		2		2		3	B0030-01SA
H E 11kW 3x400V		1		2		1		2		2		B0030-31SA
H E 5.9 kW 3x230V	1		2		1		2		2			B0030-10SA
HE 8.5 kW 3x 480V	1		2		1		2		2		3	B0030-40SA
H E 7.2kW 3x440V	1		2		1		2		2		3	B0030-02SA
H E 11kW 3x440V		1		2		1		2		2		B0030-22SA
<b>Miscellaneous</b>												
Timer 15 minutes	1		2		1		2		2		2	6341
Knob for timer 15 min.	1		2		1		2		2		2	B0090-03
Knob for thermostat 110-190 °C	1		2		1		2		1		1	B0090-02
Knob for switch 0-ECO-1	1		2		1		2		1		1	B0090-01
Ball cock 1"G (oil cock)	1		2		1		2		1		1	6431
Nut 1" G for oil cock	1		2		1		2		1		1	6432
<b>Baskets, filters</b>												
Basket EVO-200 280x157xH135	1		2						2			B2080-01
Basket EVO-250 280x202xH135					1		2					B2580-01
Basket EVO-400 large 280x350 xH135									1*			B4080-01
Basket EVO-600 small 280x255xH135											2	B6080-01
Metal filter for drain tank EVO-200	1		2									B2080-02
Metal filter for drain tank EVO-250					1		2					B2580-02
Metal filter for drain tank EVO-400									1		1	B4080-02

\*(option)

# Deep fat fryers, series EVOLUTION Marine

Dimensions mm



1. Electrical connection, 2 m cable without plug
2. Solas security connection 2m electric cord cable without plug
3. Marine leg, see detail drawing

Specification										
Model	Prod. N°	Oil capacity litres	Output kg chips/h	Voltage *	Heating element kW	Input kW	Fuse A	Weight kgs		Shipping volume m³
EVO 200M	0400M	7-8	19-23	400 3-50	7.2	7.2	10	37	41	0.165
	0404M			440 3-60						
EVO 200TM	0405M	7-8	26-32	400 3-50	11	11	16	62	66	0.308
	0407M			440 3-60						
EVO 2200M	0410M	2 x 7-8	38-46	400 3-50	2 x 7.2	14.4	20	62	66	0.308
	0414M			440 3-60						
EVO 2200TM	0415M	2 x 7-8	52-64	400 3-50	2 x 11	22	32	68	72	0.380
	0417M			440 3-60						
EVO 250M	0420M	9-10	21-25	400 3-50	7.2	7.2	10	40	44	0.201
	0424M			440 3-60						
EVO 250TM	0425M	9-10	28-34	400 3-50	11	11	16	68	72	0.380
	0427M			440 3-60						
EVO 2525M	0430M	2 x 9-10	42-50	400 3-50	2 x 7.2	14.4	20	68	72	0.380
	0434M			440 3-60						
EVO 2525TM	0435M	2 x 9-10	56-68	400 3-50	2 x 11	22	32	68	72	0.380
	0437M			440 3-60						
EVO 400M	0440M	15-18	38-46	400 3-50	2 x 7.2	14.4	20	59	63	0.308
	0444M			440 3-60						
EVO 400TM	0445M	15-18	52-64	400 3-50	2 x 11	22	32	75	79	0.462
	0447M			440 3-60						
EVO 600M	0450M	25-28	57-68	400 3-50	3 x 7.2	21.6	32	75	79	0.462
	0454M			440 3-60						

\* Voltage 480 3-60 available on request

Specification						
Dimensions mm	Baskets included in delivery					
	Quantity for model					
	EVO 200M	EVO 2200M	EVO 250M	EVO 2525M	EVO 400M	EVO 600M
270 X 160 X 135	1	2			2	
270 X 205 X 135			1	2		
270 X 255 X 135						2

Subject to change without notice

N°	Date	Rév.	Validé
Val DT0040	14.02.2012	a	HG
Valentini Fabrique SA			



## 5.7 Wiring diagram

Only experts may connect and commission the fryer!

Valentine Marine Fryers in SOLAS version are equipped with 2 main blocs:

a) **SOLAS security circuit**

Terminals 1 2 3 4 5 6

To adjust fryer diagram to Galley Fire Control Board diagram (GFCB) you have 3 solutions:

- A. Solution MSO3  
Connection when GFCB controls main power of the fryer  
2 jumpers 1-2 + 3-4 are installed
- B. Solution MSO1  
Connection when GFCB does not provide 440/400/230V supply  
Remove jumper 3-4
- C. Solution MSO2  
Connection when GFCB provides 440/400/230V supply  
No jumper is needed  
440/400/230V supply on pole 2-4 from GFCB  
Remove the 2 jumpers

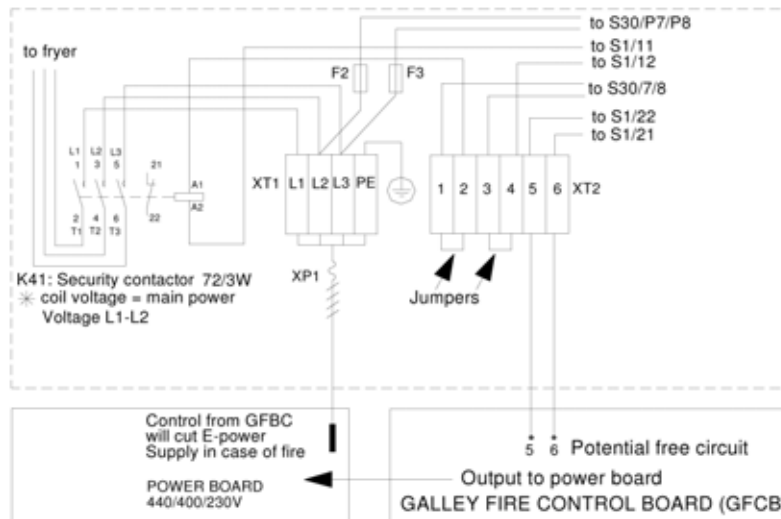
b) **Power connecting cable**

Terminals L1 L2 L3  $\frac{+}{-}$

Your mains data (voltage, current, fuse protection) must conform to the data on the fryer rating plate  
(The rating plate is mounted on the inside of the door, see page 6, no. 2).

**CAUTION !**  
**THIS UNIT HAS SEPARATE CONTROL POWER SUPPLY!**

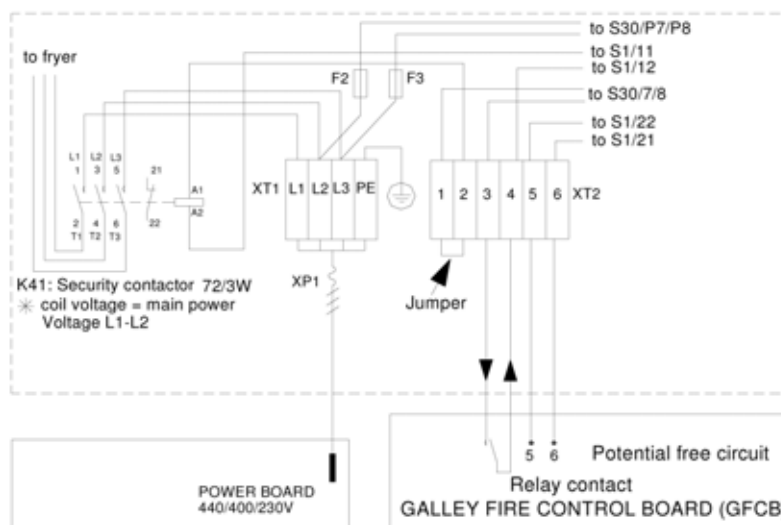
To adjust fryer diagram to Galley Fire Control Board (GFCB) you have 3 solutions :



#### A. Solution MSO3

Connection when GFCB controls power supply of the fryer  
2 jumpers 1 - 2 3 - 4 are installed

On delivery Valentine installs 2 jumpers

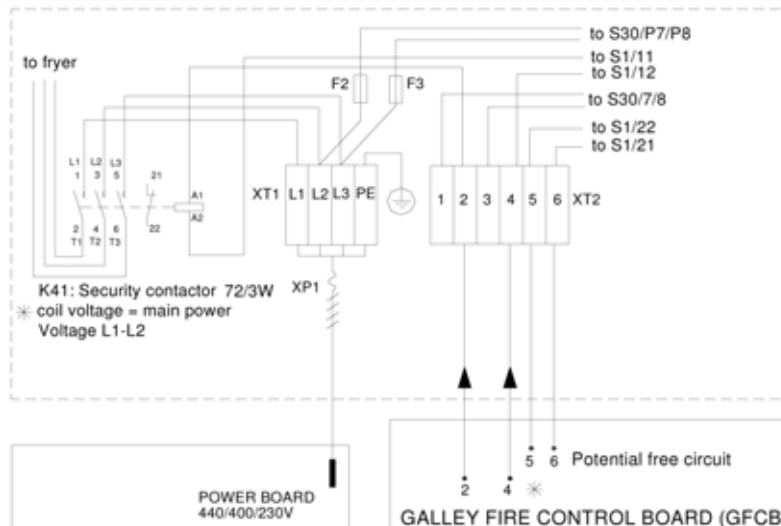


#### B. Solution MSO1

Connection when GFCB does not provide 440/400/230V supply

Remove jumper 3 - 4

\* attention ! on delivery coil-voltage of security contactor K41= main power voltage L1-L2 (almost 440V !)  
if you wish coil 400V or 230V AC you have to order it in advance.



#### C. Solution MSO2

Connection when GFCB provides 440/400/230V supply  
No jumper is needed  
440/400/230V on pole 2 - 4 from GFCB

Remove the 2 jumpers

\* attention ! on delivery coil-voltage of security contactor K41= main power voltage L1-L2 (almost 440V !)  
if you wish coil 400V or 230V AC you have to order it in advance.

VALENTINE FABRIQUE S.A. CH-1024 ECUBLENS Fax 0041/21 637 37 41

index : h

date : 12.02.04

Author : H.G

Connection Valentine Fryer to Galley

INF-MS13

page : 3

## Declaration of conformity

We manufacturer Valentine Fabrique SA  
6, Avenue d'Epenex  
CH - 1024 ECUBLENS  
Tél.: +41 21 637 37 40 Fax: +41 21 637 37 41  
Mail : [info@valentine.ch](mailto:info@valentine.ch) Internet : [www.valentine.ch](http://www.valentine.ch)

hereby declare that these products comply with the following directives and standards:

Low voltage directive:	2006/95/CE
EMC directive:	2004/108/CE
ROHS directive:	2002/95/CE
Food contact	2004/1935/CE

Applicable standards	IEC 60335-2-37 : 2002 (ed. 5) avec IEC 60335-1:2001 (ed. 4) corr. + A1:2004 + A2:2006 EN 60335-2-37:2002 avec EN 60335-1:2002 + A11:2004 + A12:2006 + A2:2006 + A1:2004
EMC:	EN 55014-1:06 / CISPR 14-1:05 (ed.5) EN 50366:03+A1:06 / IEC 62233:05 (ed.1) EN 61000-3-12:05 / IEC 61000-3-12:04 (ed.1) EN 61000-3-11:00 / IEC 61000-3-11:00 (ed.1) EN 55014-2:97+A1:01 / CISPR14-2:97+A1:01 (cons. ed.1.1)

Ecublens, Avril 2012

Valentine Fabrique SA

B. Paris  
President





# Approval Certificate

This is to certify, that the undernoted products have been approved in accordance with the relevant requirements of the GL Approval System.

Certificate No. **36 922 - 12 HH**

Company **Valentine Fabrique SA**  
**6, avenue d'Epenex**  
**1024 Ecublens, SWITZERLAND**

Product **Schematic Wiring Diagram for Valentine Deep-Fat Fryer**  
**(Marine Design)**

Type **EVO-200, EVO-200T, EVO-250, EVO-250T, EVO-400, EVO-400T, EVO-600, EVO-2200,**  
**EVO-2200T, EVO-2525, EVO-2525T**

Technical Data /  
Application **This certificate confirms compliance of the deep fat**  
**fryers with the requirements of the IMO SOLAS Consolidated Edition**  
**2011, Chapter II-2, Part C, Regulation 10, § 6.4.2**

Approval Standard **IMO SOLAS Consolidated Edition 2011, Chapter II-2, Part C, Regulation 10, § 6.4.2**

Documents **Schematic Diagram: INF-MS15 dated 25.11.2011.**  
**Wiring Diagrams nos.: 8404-M(a), 8408-M(a), 8405-M(a), 8407(a), 8414-M(a),**  
**8415-M(a), 8417-M(a), 8424-M(a), 8425-M(a), 8427-M(a), 8428-M(a), 8434-M(a),**  
**8435-M(a), 8437-M(a), 8444-M(a), 8445-M(a), 8447-M(a), 8450-M(a), 8454-M(a).**

Remarks **None**

Valid until **2017-01-15**

File No. **XI.A.15**

**Germanischer Lloyd**

**Hamburg, 2012-01-16**

Burkhard Lilienthal

Dariusz Lesniewski



