



INSTRUCTION MANUAL FOR INSTALLATION

MULTIPURPOSE RECTANGULAR BRATT PANS, ELECTRIC TYPE

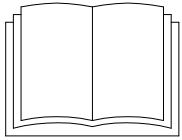
“FIGARO”

**MODD. DFIE100_V2 / DFIE150_V2
MODD. DFIE100A_V2 / DFIE150A_V2**



CE

ORIGINAL INSTRUCTIONS



ATTENTION:

Read the instructions before using the appliance

IN CASE OF TECHNICAL ASSISTANCE, INDICATE:

MODEL : _____

NR. SERIAL : _____



The model and serial number are indicated on the technical plate

Large empty rectangular area for technical assistance details.

TABLE OF CONTENTS

1	INTRODUCTION	4
1.1	General.....	4
1.2	Symbols and pictograms.....	4
2	SAFETY.....	5
2.1	General reminders.....	5
2.2	Warning for the installer.....	5
2.3	Laws, technical prescriptions and directives.....	5
2.4	Personal protective equipment	6
3	TECHNICAL DATA	7
3.1	Technical Plate - Models.....	7
3.2	Technical data DFIE.._V2 ; DFIE..A_V2	8
3.3	Electrical specifications.....	9
3.4	Thermal irradiation of appliances.....	9
4	TRANSPORT, STORAGE, UNPACKING	10
4.1	Transport	10
4.2	Storage	10
4.3	Receipt and unpacking	11
5	POSITIONING OF THE APPLIANCE.....	12
5.1	Special requirements for the installation site.....	12
5.2	Positioning	12
6	CONNECTIONS	13
6.1	Electrical connections and equipotential bonding	13
6.1.1	Terminal block connection	14
6.1.2	Terminal block tables.....	15
6.1.3	Connection to the equipotential system	16
6.2	Connection to waterworks.....	16
6.3	Connection to condensate drain (cooking vessel)	17
7	COMMISSIONING AND TESTING.....	18
8	FIGURES AND DETAILS.....	19
8.1	CONNECTIONS PLANT DFIE100_V2	19
8.2	CONNECTIONS PLANT DFIE100A_V2	20
8.3	CONNECTIONS PLANT DFIE150_V2	21
8.4	CONNECTIONS PLANT DFIE150A_V2	22
8.5	DETAILS OF CONNECTIONS DFIE100_V2;DFIE150_V2.....	23
8.6	DETAILS OF CONNECTIONS DFIE100A_V2;DFIE150A_V2.....	23

1 INTRODUCTION

1.1 GENERAL



The business units manager, where the unit will be installed, have an obligation, in accordance with the regulations, read carefully the contents of this manual and teach the operators and maintainers involved for parts that they compete.



This manual contains all the necessary information for correct and safe use of our appliances.
Ensure this manual is conserved correctly so that it is always available to all users of the machine!



The manufacturer does not assume any responsibility or warranty commitment for accidents and damage due to non-compliance with the requirements or installation or maintenance not in accordance with safety standards.
Also applies in case of improper use of the appliance by the operator.

1.2 SIMBOLS AND PICTOGRAMS



NOTES!

Report a recommendation or information deemed of particular importance.



ATTENTION!

Report an operation or a dangerous situation.



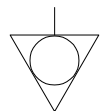
ATTENTION!

Report a prescription or an obligation.



ATTENTION!

Report the prohibition of perform an operation



EQUIPOTENTIAL TERMINAL SYMBOL

The appliance is to be connected within an equipotential system.
The connection terminal is located in the immediate vicinity of the power cable inlet.

2 SAFETY

2.1 GENERAL REMINDERS



All installation and maintenance work must only be carried out by a company belonging to the relevant industry register.



Any damage caused by water/steam infiltration or insects, due to the machine panels not being closed (after installation or maintenance) shall void any warranty claims.

2.2 WARNING FOR THE INSTALLER



Before connecting any parts of the appliance to supplies, make sure that the latter is equivalent the requirements stated in the technical data plate, if the appliance has been designed for these supplies.



Always wear the personal protective equipment required by the regulations.



Follow the fire prevention regulations very carefully.



In the water and gas supply systems the absence of "water hammer" must be guaranteed.
Damage to the operation of the machine.

2.3 LAWS, TECHNICAL PRESCRIPTIONS AND DIRECTIVES

When installing the appliance it is necessary to follow and comply with the following regulations

Current regulations on the matter;
Any hygienic-sanitary regulations concerning cooking environments;
Municipal and/or territorial building regulations and fire prevention prescriptions;
Current accident prevention guidelines;
Electricity board regulations concerning safety;
The regulations of the electrical power supply company or agency;
Any other local prescriptions

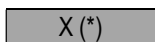
2.4 PERSONAL PROTECTIVE EQUIPMENT



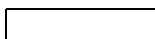
We remind you that the non-use of personal protective equipment by operators, specialized technicians or in any case employees of the equipment can lead to exposure to chemical risk and possible damage to health.

Below is a summary table of the Personal Protective Equipment (PPE) to be used during the various life stages of the equipment.

Phase	Protective clothing	Safety footwear	Gloves	Eyeglasses	Ear protectors	Mask	Helmet or hard hat
							
Transport		X					
Handling		X					
Unpacking		X					
Mounting		X					
Ordinary use	X	X	X (*)				
Adjustments		X					
Ordinary cleaning		X					
Extraordinary cleaning		X	X				
Maintenance		X	X (*)				
Disassembly		X					
Demolition		X					

 EXPECTED PPE

 PPE AVAILABLE OR TO BE USED IF NECESSARY

 PPEI NOT PROVIDED



(*) During ordinary use and maintenance, gloves must be of the athermic type to protect hands when the operator touches parts of the appliance or high temperature cooking means (oil, water, steam, ...)

3 TECHNICAL DATA

3.1 Technical Plate - Models

			
MOD. DFIE100A_V2		NR. 084382ZM30/2021	
ART.		IT	A1 ☐ B1 ☐ B2 ☐
 25.5 kW	380-415V 3N	50/60 Hz	IPX5
Qn. kW			
☐ ☐ ☐ ☐			
☐ ☐ ☐ ☐			
☐ ☐ ☐ ☐			
			

MOD.

DFIE = RECTANGULAR BRATT PANS, ELECTRIC TYPE

100 = CAPACITY IN LITERS

A = PRESSURE VERSION

_V2 = TOUCH SCREEN CONTROL

TUTTI I MODELLI

MOD.	DESCRIZIONE
DFIE100_V2	RECTANGULAR BRATT PANS, ELECTRIC TYPE 100 LITERS
DFIE150_V2	RECTANGULAR BRATT PANS, ELECTRIC TYPE 150 LITERS
DFIE100A_V2	RECTANGULAR PRESSURE BRATT PANS, ELECTRIC TYPE 100 LITERS
DFIE150A_V2	RECTANGULAR PRESSURE BRATT PANS, ELECTRIC TYPE 150 LITERS

3.2 TECHNICAL DATA DFIE.._V2 ; DFIE..A_V2

	DFIE.._V2	100	100A	150	150A
TECHNICAL DATA (DIMENSIONS)					
Equipment dim.A	mm	1296		1648	
Equipment dim.B	mm	960			
Equipment dim.H1	mm	1151			
Worktop height dim.H	mm	891			
Open lid height H2	mm	1798			
Height of discharge outlet H3	mm	530			
TECHNICAL DATA (FUNCTIONALITY)					
Pan dimension A	mm	660		1040	
Pan dimension B	mm	610			
Pan dimension H	mm	274			
Pan area	dm²	40		63	
Overvall volume	lt	120		182	
Useful volume	lt	102		157	
Basket lift (mod.A)	Nr (GN)	-	2 (1/1)	-	3 (1/1)
Pressure cooking (mod.A)	bar		0,4		0,4
Range emperature	°C	20÷250			
TECHNICAL DATA (INSTALLATION)					
Electric power (E)	kW	25,5		40,5	
Voltage/Input (standard)**	V	3N/PE AC 380-415V 50Hz			
IPX	IPX	5			
Water pressure	kPa	150÷400			
Hot water inlet (A)	Ø"	3/4"			
Cold water inlet (B)	Ø"	3/4"			
Condensate drain (mod.A) (S1)	Ø" mm		40		40
Sound level	dbA	< 70			
TECHNICAL DATA (STORAGE/MOVMEMENT)					
Packaging dim.A	mm	1440		1790	
Packaging dim.B	mm	1100		1100	
Packaging dim.H	mm	1335		1335	
Volume	m³	2,12		2,63	
Net weight	kg	300	330	360	390
Gross weight	kg	350	380	420	450

**Verify on data plate

3.3 ELECTRICAL SPECIFICATIONS

MOD.	DFIE100_V2 ; DFIE100A_V2		DFIE150_V2 ; DFIE150A_V2	
Volt	kW	Amps (*)	kW	Amps (*)
400 V 3N ~	24.0	41	38.5	62
415 V 3N ~	25.5	42	40.5	64
380 V 3N ~	22.0	40	35.0	60
230 V 3 ~	24.0	63	38.5	108
240 V 3 ~	25.5	65	40.5	110
220 V 3 ~	22.0	61	35.0	104
208 V 3 ~	20.0	58	32.0	100

(*) UNBALANCED LOAD

(*) AMPERE INDICATED FOR MAXIMUM CURRENT

3.4 THERMAL IRRADIATION OF APPLIANCES

MOD.		DFIE100_V2 DFIE100A_V2	DFIE150_V2 DFIE150A_V2
Direct heat;Calore sensibile; Chaleur directe;Sensible Wärme;Calor sensible	W	10800	17300
Latent heat;Calore latente; Chaleur latente;Latente Wärme;Calor latente	W	9600	15400
Steam;Vapore;Vapeur; Wasserdampf;Vapor	g/h	14150	22650

4 TRANSPORT, STORAGE, UNPACKING

4.1 TRANSPORT



The movement of the machine must be performed by a qualified operator for use of lifting and transport equipment in accordance with the laws of the country of the user of the machine.

The machine can be transported with a normal means (forklift or transpallet) capable of supporting its weight and size (see tab. "TECHNICAL DATA").



Always check the correct balance of the weight of the machine (B = center of gravity) to prevent unexpected movement or dropping to the floor of the car with damage to people or things around you.

For transport on pallets, Fig.1

For transport without pallets, use the lower bars Fig.2

Fig.1

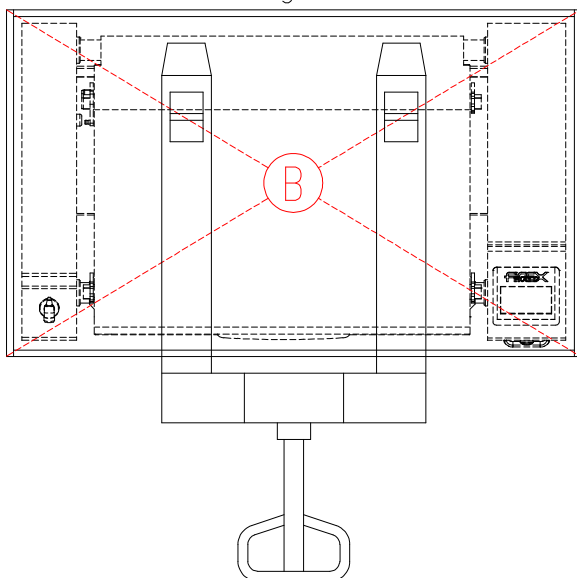
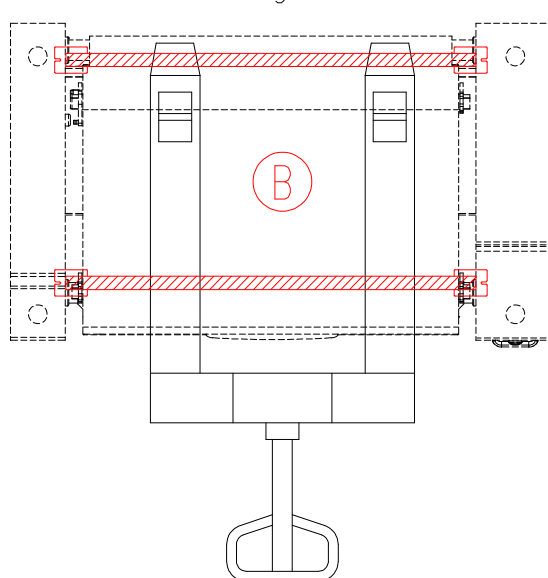


Fig.2



4.2 STORAGE



Store the appliance in a closed environment protected against atmospheric agents. Keep the appliance away from humidity and temperature ranges



Protect the appliance from shocks and stresses



Ensure that the appliance is in contact with corrosive substances

4.3 RECEIPT AND UNPACKING



Upon receipt of the machine check that the packaging is undamaged. If it does not withdraw the conditional commodity producing photographic evidence of any apparent damage.



After removing the packaging, check that the appliance is undamaged. In case of visible damage, do not connect the appliance but contact the sales outlet immediately.



Check for the presence of individual components with packing lists.



Remove from the panels of the machine the protective film PVC .



Before disposing of the packaging materials **make sure that they do not contain machine elements** (accessory; tools; documentation, etc)



Dispose of the packaging components in accordance with the regulations in force on waste disposal.

5 POSITIONING OF THE APPLIANCE

5.1 SPECIAL REQUIREMENTS FOR THE INSTALLATION SITE

The room in which the appliance is to operate must be well ventilated.

In addition, it is good policy to locate the appliance under an extractor hood so that cooking vapours can be removed rapidly and continuously.

For the direct connection to the network, it is necessary to provide a monopolar switch having a contact separation in all poles that provide full disconnection under overvoltage category III.

Every water supply line (hot / cold water) must be equipped with an interception valve.



The electrical isolating switch and the shutoff valves (water, gas, steam) must both be located near to the appliance, within easy reach for the user.

5.2 POSITIONING



Do not store or use flammable gases or liquids near the machine.

There are no particular prescriptions regarding side distances from other appliances or walls, however it is advisable to leave enough space (50/70 cm) in case of maintenance and/or repairs. It is advisable to fit a suitable heat insulation if the appliance is in direct contact with inflammable walls.



The appliance must stand level. Small differences in level can be eliminated by screwing or unscrewing the adjustable feet. **A significantly uneven or sloping stance can affect the operation of the appliance adversely.**



If the appliance is mounted on wheels (optional), leveling must be ensured by the floor. If the floor is not level, it must be made such with thicknesses in correspondence of the wheels. The surface and the inclination of the shims must be such as not to affect the stability of the machine.



After positioning remove the bars under the frame.
It is advisable to keep the bars so that they are available for subsequent movements.

6 CONNECTIONS



Attention: when the appliance is equipped with wheels (optional) it must be connected with flexible connections for equipotential bonding and connection to services such as electricity supply, water supply, gas supply and steam supply such that the appliance can be moved in the direction required for cleaning a distance not less than the dimension of the appliance in the direction of movement plus 500mm without the flexible connections becoming taut or being subject to strain.

6.1 ELECTRICAL CONNECTIONS AND EQUIPOTENTIAL BONDING



The appliance is supplied to operate according to the power supply indicated on the data plate.



During installation, observe the regulations provided by the local electricity company.



As this appliance is type Y equipment (delivery without power cable and plug), the cable and other hardware needed to make the connection to the electrical power supply must be provided by the installer.



As mentioned, the appliance must be connected to the power supply by way of a multiple pole main isolating switch and protection device that must be proportioned to the power of the appliance (1 mA per kW of rated power).
The earthing system must be efficient.



The dimensioning of the cable section must be carried out by the installer according to the current absorption, the omnipolar switch placed upstream of the equipment and the local regulations.

The cable for connection to the power line must correspond to the characteristics shown in the paragraph "Technical data" and must be sheathed flexible cables no less robust than normal polychloroprene cable or a cable covered with synthetic elastomer (identification code 60245-IEC-57).

The plug must be positioned at a point where its removal must be such that an operator can check from any point where he has access that the plug remains detached. If this is not possible, due to the construction of the appliance or its installation, the omnipolar switch and the differential must be positioned at a point where an operator can verify from any point where he has access that the switch is OFF.

The connection point is indicated in the **"CONNECTION PLANT" (E)**.

6.1.1 TERMINAL BLOCK CONNECTION

To access the power supply terminal block, remove the panel on the right side.

Insert the cable through the appropriate cable gland. Carefully connect the conductors to the corresponding terminals as described below. **The earth conductor must be longer than the other conductors**, in order to disconnect last in case of strong pulling of the cable or breaking of the cable gland. Tighten the cable gland



Any damage caused by water/steam infiltration or insects, due to the machine panels not being closed (after installation or maintenance) shall void any warranty claims

Attention! : To carry out all maintenance work correctly, the following tools are required, in addition to the maintenance technician's normal equipment:

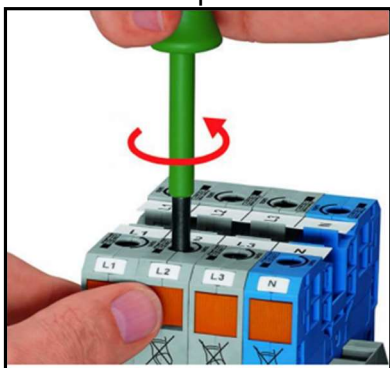
Tool A —
Screwdrivers 1X5,5 mm



Tool B 
8 mm hexagonal T-handle wrench

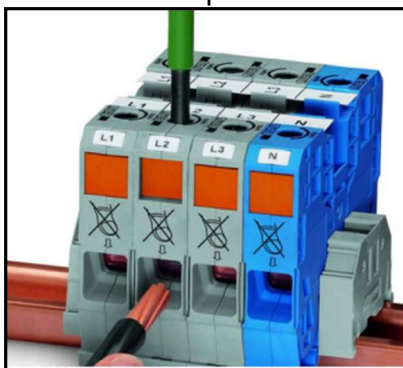


Step 1



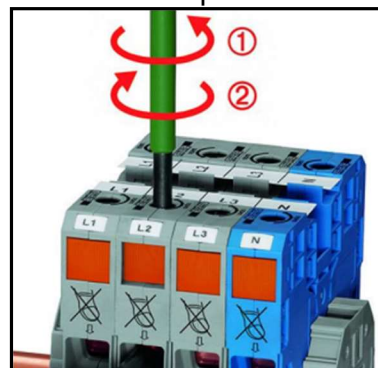
Turn the operating tool (type A or B) counterclockwise. Then, press the orange lock tab. The terminal is locked open for hands-free wiring.

Step 2



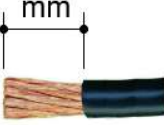
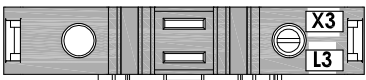
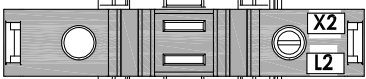
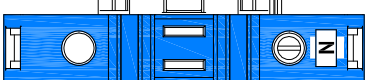
Insert the stripped conductor (see "Terminal block tables") up to the stop against the bottom of the terminal.

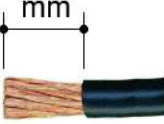
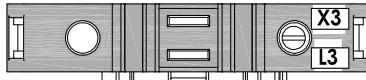
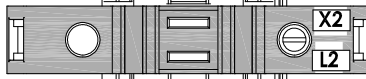
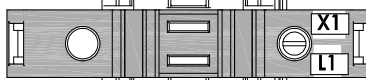
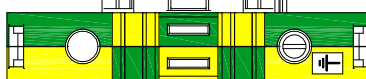
Step 3

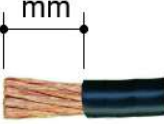
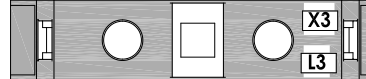


1. A short counterclockwise rotation closes the clamp, securing the conductor.
2. Allow the operating tool to rotate clockwise to safely terminate the conductor connection.

6.1.2 TERMINAL BLOCK TABLES

DFIE100.._V2 ; DFIE150.._V2 380-415V 3N ~	Conductor	mm 	Tool
 —	L3	25 mm	A 
 —	L2	25 mm	A 
 —	L1	25 mm	A 
 —	N	25 mm	A 
 —		25 mm	A 

DFIE100.._V2 220-240V 3 ~ ; 208V 3 ~	Conductor	mm 	Tool
 —	L3	25 mm	A 
 —	L2	25 mm	A 
 —	L1	25 mm	A 
 —		25 mm	A 

DFIE150.._V2 220-240V 3 ~ ; 208V 3 ~	Conductor	mm 	Tool
 	L3	30 mm	B 
 	L2	30 mm	B 
 	L1	30 mm	B 
 		30 mm	B 

6.1.3 CONNECTION TO THE EQUIPOTENTIAL SYSTEM

The connection is made with the terminal set up near the electrical connection and marked with the international symbol  and a conductor with a nominal cross section $<10 \text{ mm}^2$. All the appliances installed and the earth system of the building shall be connected like this.

The connection point is indicated in the "CONNECTION PLANT" ()

6.2 CONNECTION TO WATERWORKS



The water pressure in the supply network must be between the values indicated in the "INSTALLATION TECHNICAL DATA" table.
If not, install a pressure reducer upstream of the appliance.



Before making the water connection, carefully clean the connection pipe. It is advisable to let the water flow to clean the whole piping. Any impurities could compromise the operation of the machine.

The diameter of the connections is indicated in "INSTALLATION TECHNICAL DATA"

The connection point is indicated in the "CONNECTION PLANT" (A) hot water; (B) cold water.

Install a shut-off valve upstream of the appliance, one for each water connection on the appliance, near the appliance and in a position easily accessible by the user.



The hot water temperature must NOT exceed 60°C (140°F).

The appliance must be permanently connected to the water supply.

The junction sets to connect the appliance to the water supply must comply with IEC 61770.

6.3 CONNECTION TO CONDENSATE DRAIN (COOKING VESSEL)

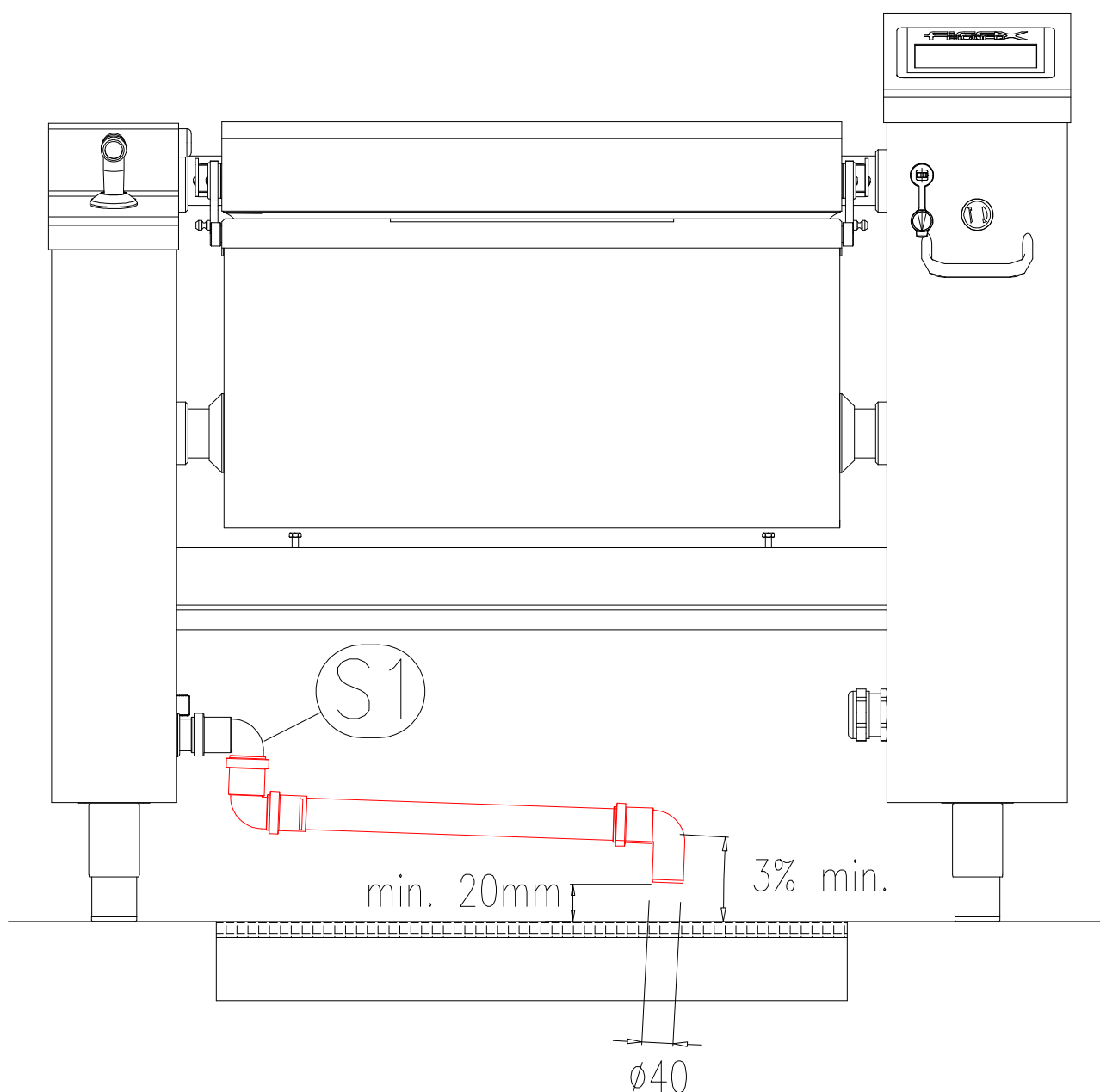
MODD.DFIE..A_V2



Bring the condensate drain on the grid drain or to a drain fixed with device backflow prevention.

The diameter of the connections is indicated in "INSTALLATION TECHNICAL DATA"

The connection point is indicated in the "CONNECTION PLANT" (S1)



7 COMMISSIONING AND TESTING

Once all the connections have been made, the appliance and the overall installation must be checked following the directions given in this manual.

CHECK IN PARTICULAR:

That the protective film has been removed from the external surfaces;
That the panels of the machine are closed correctly;
That connections have been made in accordance with the requirements and directions indicated in this manual;
That all safety requirements in current standards, statutory regulations and directives have been met;
That the power cable is not subjected to traction and is not in contact with hot surfaces;
That the water, gas and steam connections are tight and not subjected to traction.

Now proceed to light the appliance as directed in the instructions for use.

While the appliance is in use, voltage should not differ from the nominal voltage more than +/- 10%.

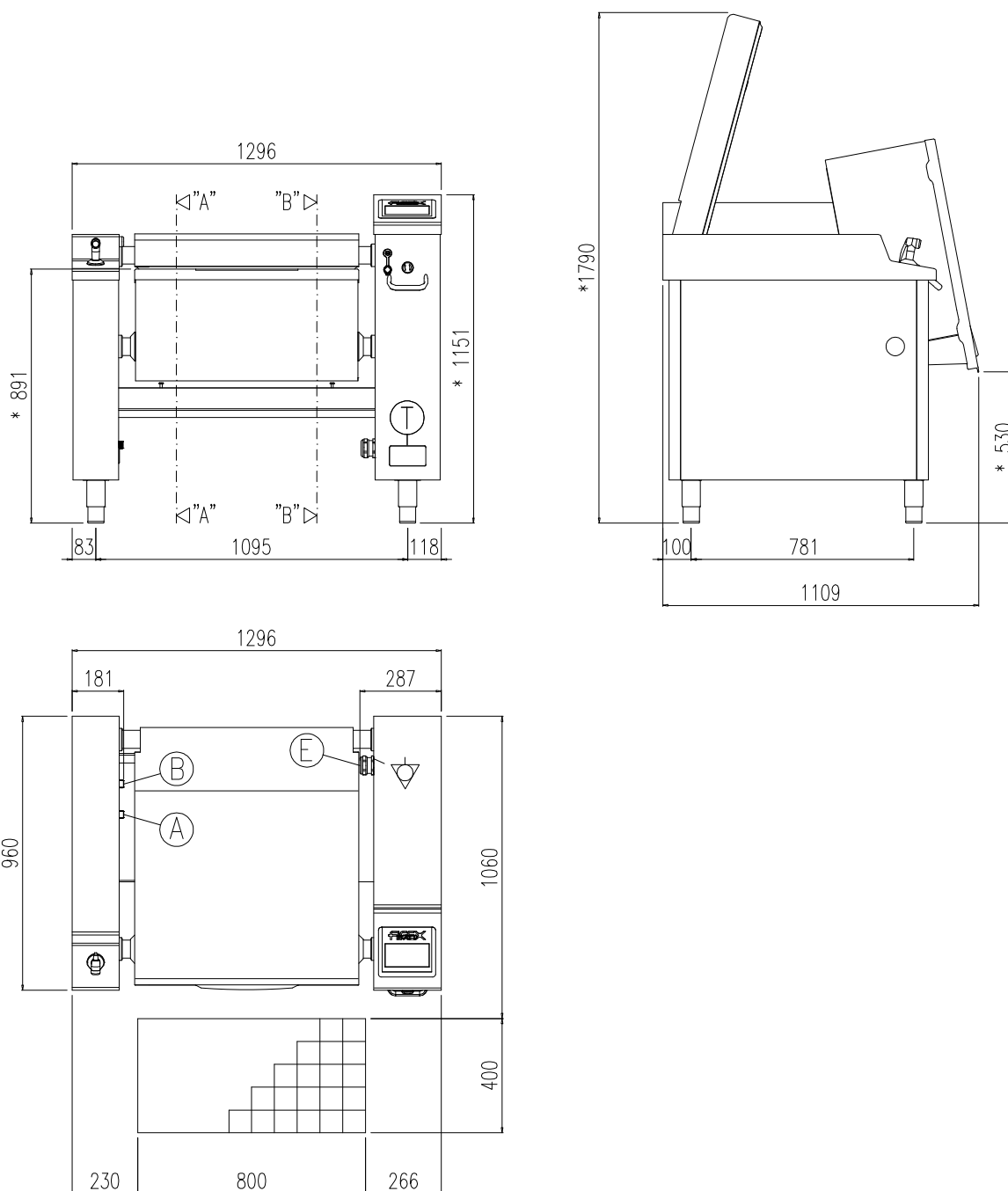


The test report must be completed in full and submitted to the customer who should then sign in acceptance. With effect from this moment, the appliance is covered by the manufacturer's warranty

8 FIGURES AND DETAILS

8.1 CONNECTIONS PLANT DFIE100_V2

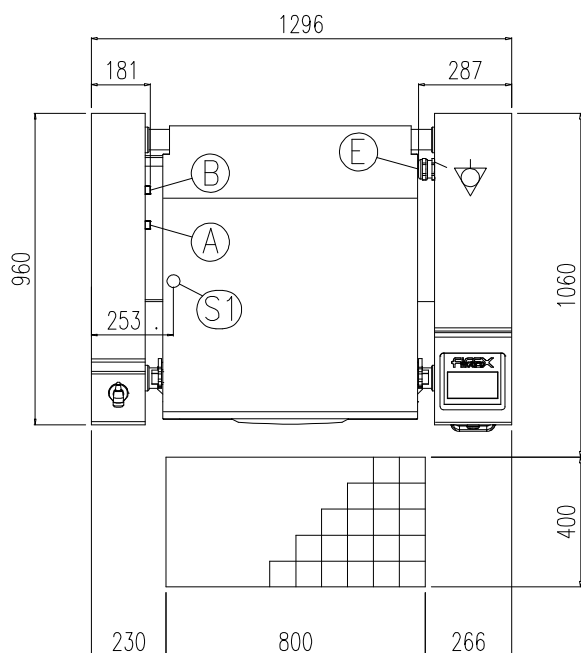
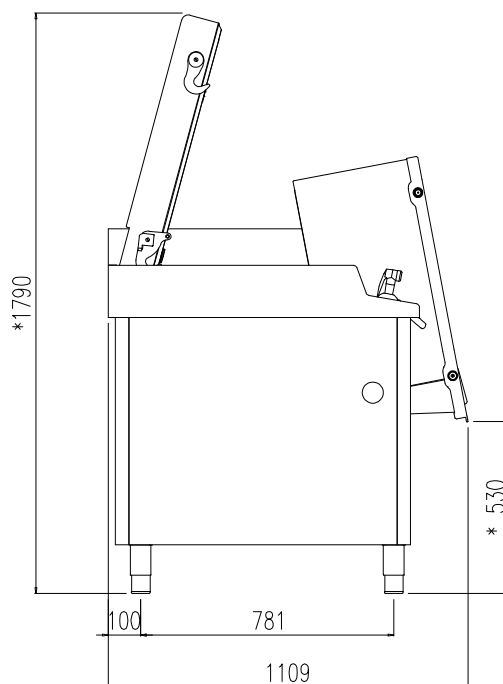
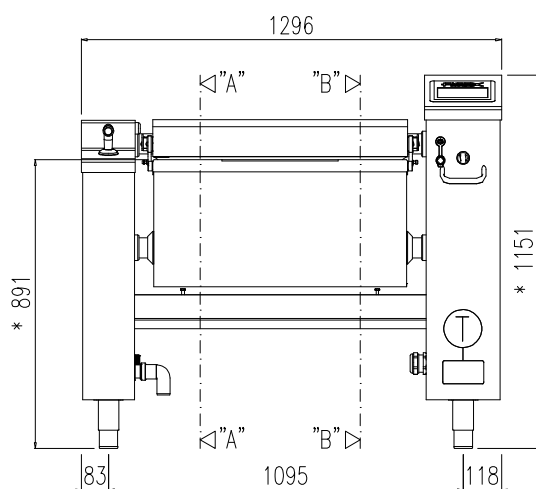
LEGEND:			
T	Technical plate	E	Electrical connection
A	Hot water connection		Equipotential clamp
B	Cold water connection		



(*) ADJUSTMENT 0 ; + 60 mm

8.2 CONNECTIONS PLANT DFIE100A_V2

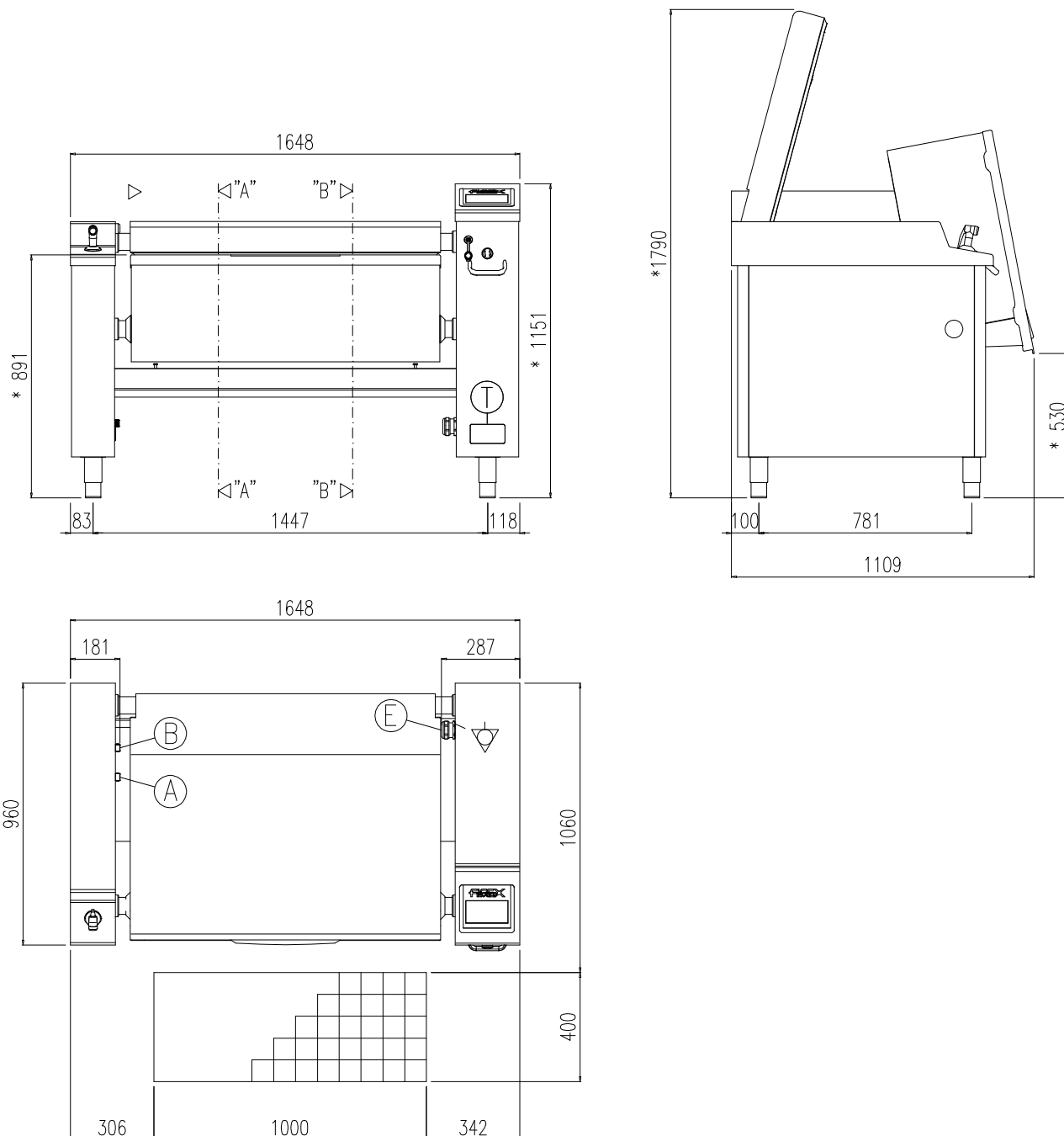
LEGEND:			
T	Technical plate	E	Electrical connection
A	Hot water connection		Equipotential clamp
B	Cold water connection		
S1	Condensate drain		



(*) ADJUSTMENT 0 ; + 60 mm

8.3 CONNECTIONS PLANT DFIE150_V2

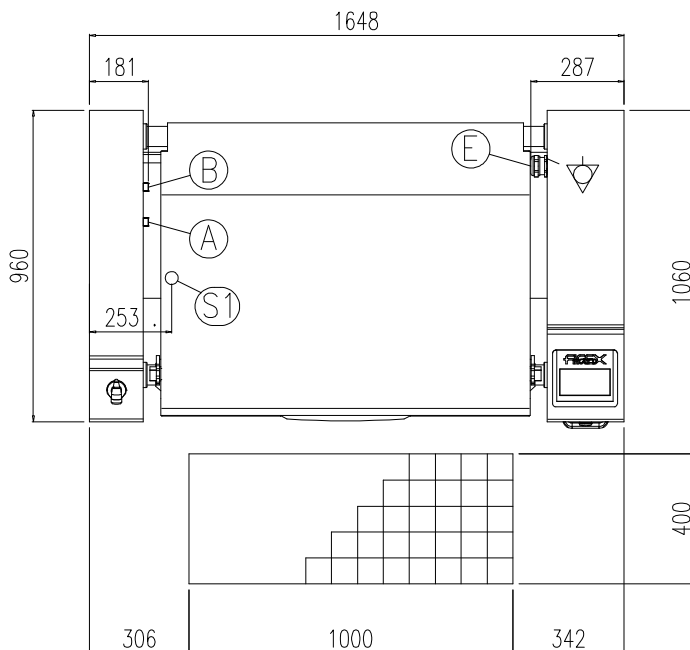
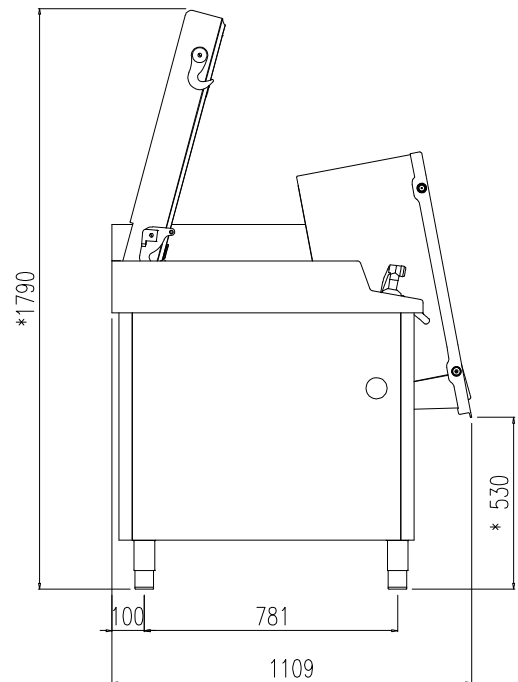
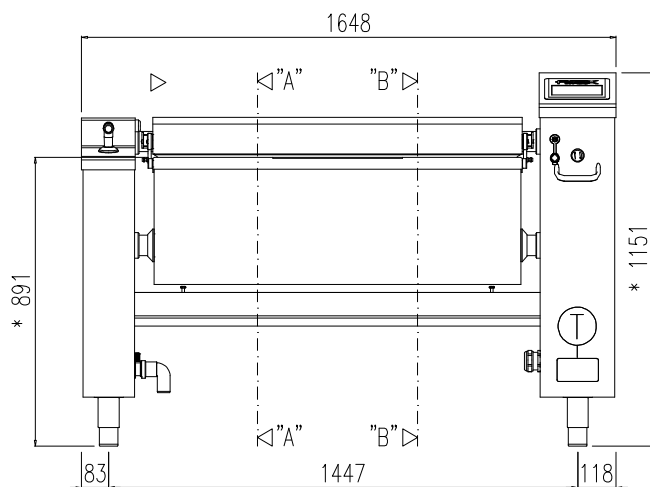
LEGEND:			
T	Technical plate	E	Electrical connection
A	Hot water connection		Equipotential clamp
B	Cold water connection		



(*) ADJUSTMENT 0 ; + 60 mm

8.4 CONNECTIONS PLANT DFIE150A_V2

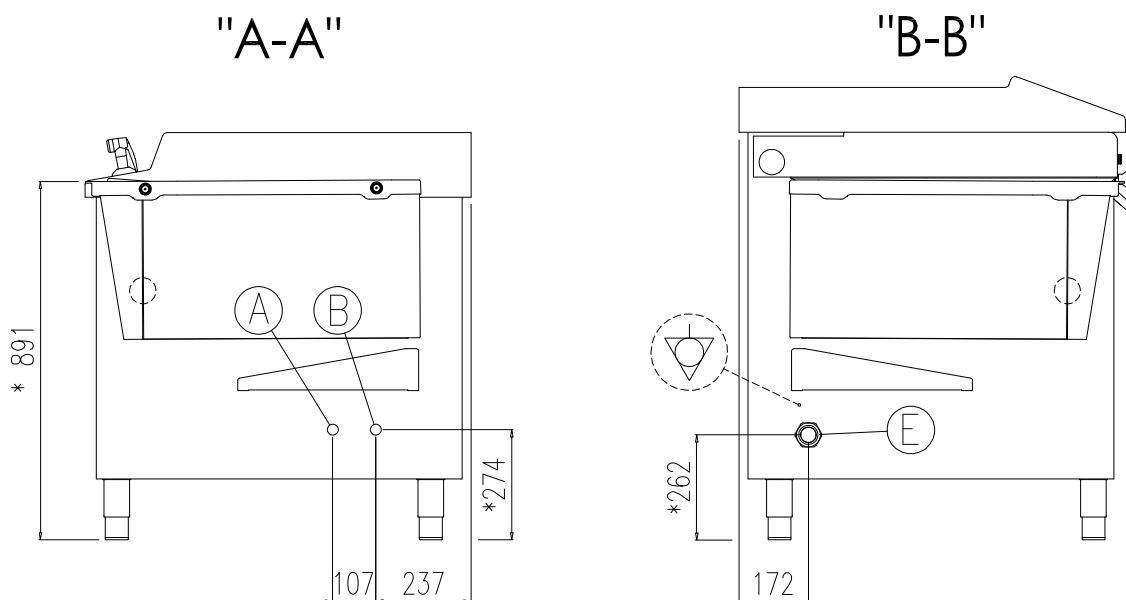
LEGEND:			
T	Technical plate	E	Electrical connection
A	Hot water connection		Equipotential clamp
B	Cold water connection		
S1	Condensate drain		



(*) ADJUSTMENT 0 ; + 60 mm

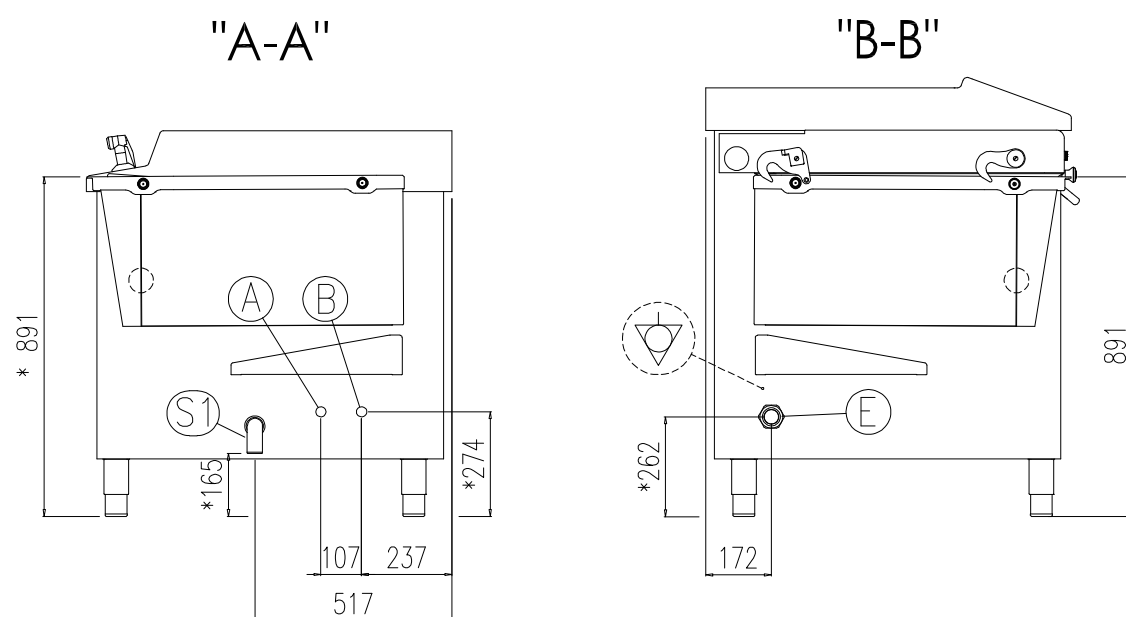
8.5 DETAILS OF CONNECTIONS DFIE100_V2;DFIE150_V2

LEGEND:			
A	Hot water connection	E	Electrical connection
B	Cold water connection		Equipotential clamp



8.6 DETAILS OF CONNECTIONS DFIE100A_V2;DFIE150A_V2

LEGEND:			
A	Hot water connection	E	Electrical connection
B	Cold water connection		Equipotential clamp
S1	Condensate drain		



(*) ADJUSTMENT 0 ; + 60 mm