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Spare Parts Manual

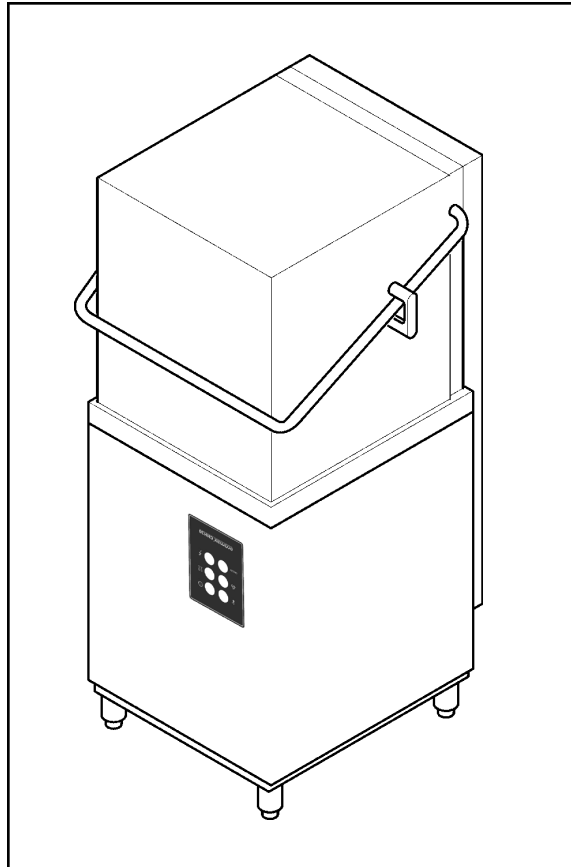
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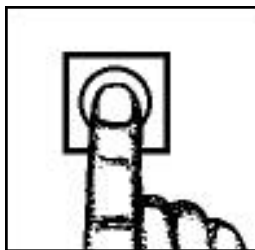
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Fax: 029 20214100

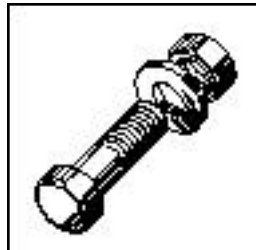
Email: info@easicook.co.uk



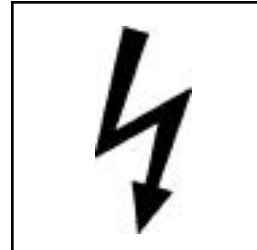
CHH30 Dishwasher



Installation / Operation



Spare Parts List



Wiring Diagram

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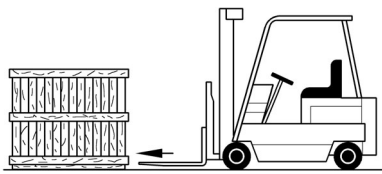
CHAP. 1 INTRODUCTION

The warnings contained in this manual provide important information for safely installing, using and servicing this machine.

The operator is required to read this manual before starting any operation involving handling, installation, use, maintenance or disassembly of the machine. This manual must be kept intact and in a safe place for frequent consultation.

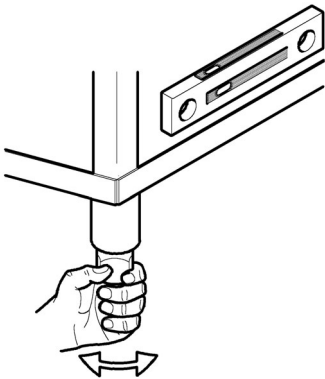
CHAP.2 INSTALLATION

2.1 HANDLING AND UNPACKING

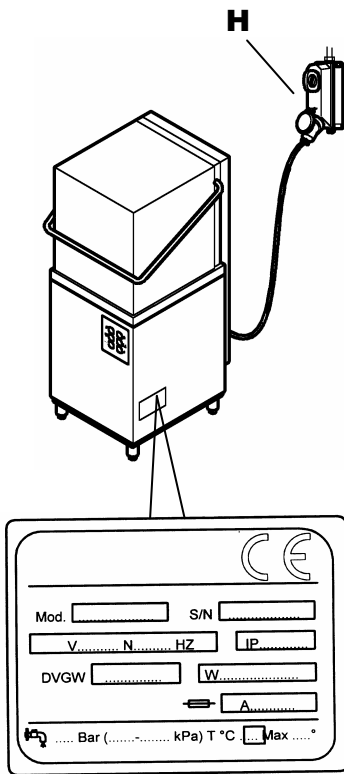


- Move the machine very carefully using a forklift.
- Make sure the equipment is not damaged, if it is immediately inform the dealer and shipper. If in doubt do not use the machine until it has been checked by professionally trained personnel.
- Move the machine to the site where it will be used and remove the packing.

Packing materials (plastic bags, polystyrene, nails) can be dangerous and must be kept out of the reach of children.



- The installation must be carried out according to the manufacturer's instructions and by professionally trained personnel.
 - Only a fixed connection is suitable for this equipment.
 - Position the machine and level it perfectly using the feet.
 - The flooring must be suitable for the overall weight of the machine.
 - Follow the indications on the installation drawing and set-up the electrical, water and drain systems in the wash area.
-



2.2 ELECTRICAL CONNECTION

1. Connection to the power supply must be made with a main switch (H) it must be omnipolar and interrupt all contacts including neutral. There must be a distance of at least 3 mm between open contacts, and it must have a thermal magnetic safety switch or fuses which are able to withstand the maximum power indicated on the plate.
2. Make sure that the power supply corresponds to that on the technical features plate on the right side of the machine.
3. Use an effective earthing system in compliance with local laws to protect the safety of the operators and not damage the machine.
4. Do not use adapters, multiple sockets or extension cords.
5. The equipment must be included in an equipotential system, and connected using a screw marked with the symbol. The equipotential wire must be 10 mm².



If the power supply cable (provided with the equipment) needs to be replaced use another H07RN-F type with the same dimensions.

For additional information see the wiring drawing.

2.3 WATER CONNECTION

Set-up the site according the attached plumbing drawing.

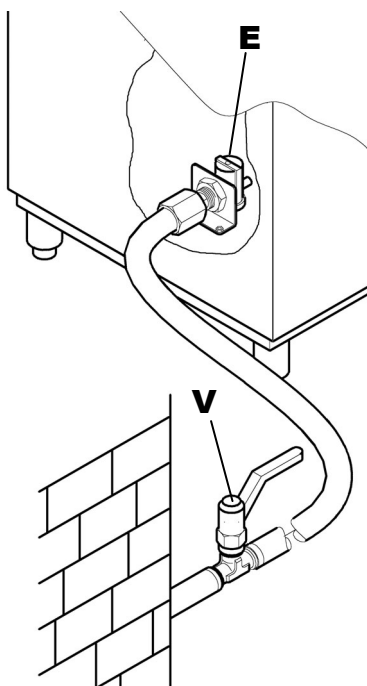
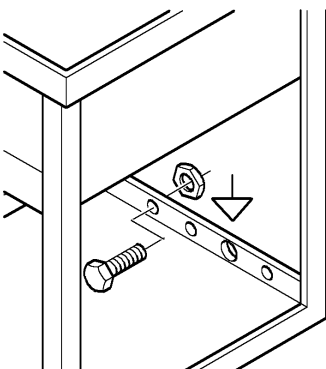
Before connecting the equipment make sure that a gate valve has been placed between the water supply and the equipment so that the water can be turned off if required or for repair work.

Use a hose to connect the solenoid valve (E) to the gate valve (V) and make sure that the delivery is not less than 20l/min.

Check that the temperature and water pressure correspond to what is shown on the technical specifications plate.

If the water is harder than what is listed in the chart, it is advisable to install a decalcifier upline from the solenoid valve.

If there are high concentrations of very conductive minerals in the water, it is advisable to install a demineralization system calibrated to the hardness shown in the following chart.



	Specification		From	To
Hardness	French degrees	f	5	10
	German degrees	°dH	4	7'5
	English degrees	°e	5	9,5
	Parts per million	ppm	70	140
Residual Minerals	Maximum	mg/l	300/400	

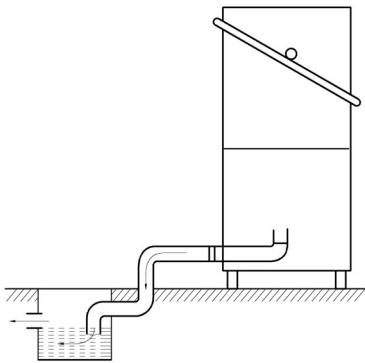


2.4 CONNECTION TO THE DRAIN LINE

The tank empties by gravity, so the drain needs to be situated below the base of the machine.

The drain pipe needs to be connected to a drain-trap built into the floor.

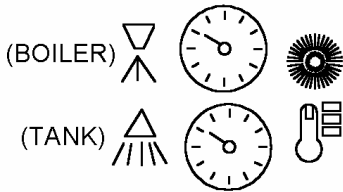
The drain dimensions are shown in the installation drawing.



2.5 ADJUSTMENTS AND CHECKS

The temperature of the wash tank is regulated by a fixed thermostat at about 55° C. This temperature ensures proper action by the chemicals contained in industrial dishwashing detergents.

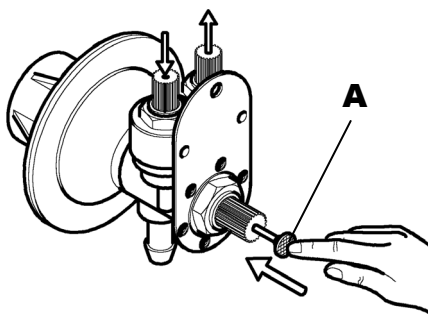
The boiler temperature set by a fixed thermostat is about 85° C.



2.6 RINSE-AID DISPENSER

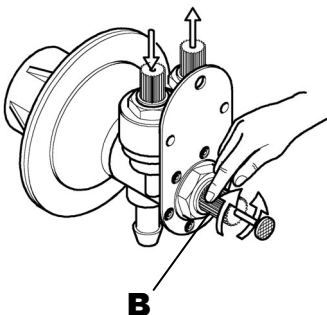
Before adjusting, the dispenser and hose need to be filled using the primer button (A).

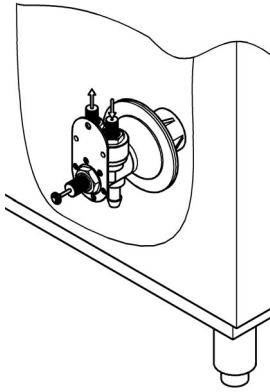
To adjust use the ring nut (B) situated at the center of the dispenser, rotating clockwise reduces the quantity, counterclockwise increases it.



The dispenser must not operate empty

An excessive amount of rinse agent causes bluish stripes on the dishes and creates foam in the wash tank.





If the glassware is covered with droplets of water and it dries rather slowly this means that the amount of rinse agent is insufficient.

7 cm. of tubing = 1 gram of product



2.7 DETERGENT

Equipment without a detergent dispenser

Put the amount of detergent recommended by the manufacturer into the tank. Depending on the type of detergent this may vary from 2 to 4 gr/lit of water in the tank. Detergent needs to be added approximately every 5 washes as per the manufacturer's instructions.

The above amounts are for water with a hardness of 5-10°F (French degrees).

Machine equipped with detergent dispenser (optional)

Regulations:

A trimmer (A) allows to determine the «ON-OFF» time and consequently the amount of detergent required.

- Turning the adjustment trimmer clockwise or counter-clockwise will respectively decrease or increase the amount of rinse aid it delivers.
- To optimise the calibration, evaluate the results of some washing cycles.



BE CAREFUL!

The level in detergent tank must not get empty or filled with corrosive or inadequate products.

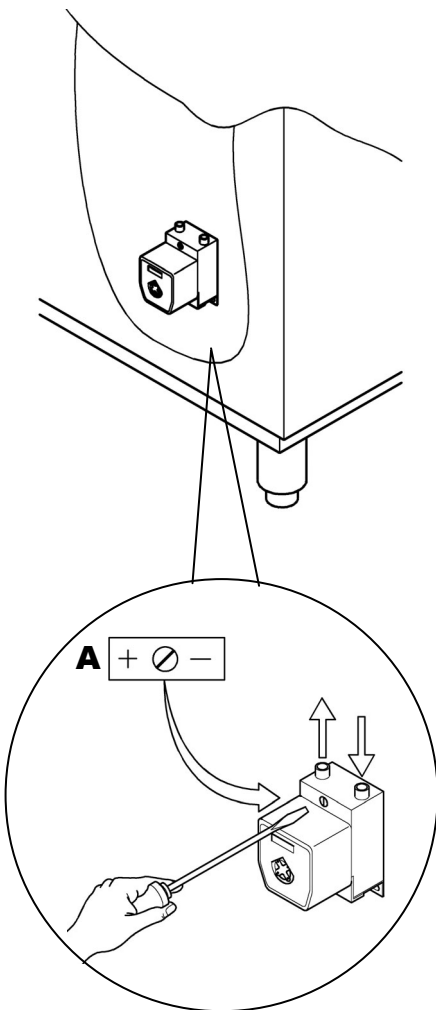
The warranty does not cover damages caused by an improper use of dispenser.

CHAP.3 SAFETY RECOMMENDATIONS



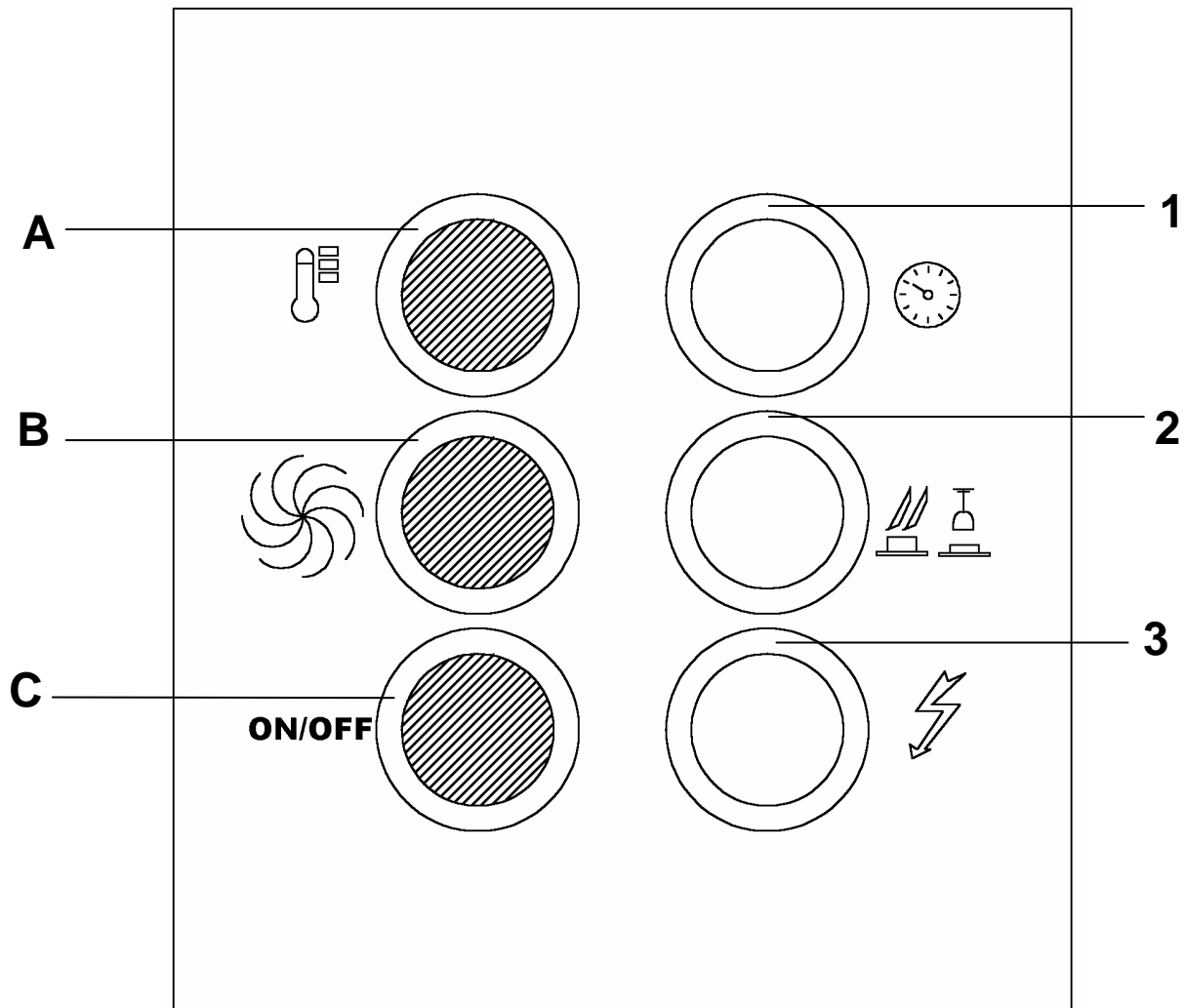
3.1 RESIDUAL RISKS AND WARNINGS

- Never open the door quickly if the cycle has not finished.
- Do not put bare hands into the wash solution.
- Never remove the machine panels if the power upline has not been turned off.



- The professionally trained personnel who install the machine and connect the electricity, will explain to the user how to operate the machine and which safety measures to use.
- The installer will provide practical demonstrations and leave written instructions which are provided with the machine.
- **This machine is only to be used for the purpose for which it was designed. Any other use is considered improper and dangerous.**
- The machine is not to be used by untrained personnel.
- Never use the machine if any of the protections (microswitches, panels or other) provided by the manufacturer are missing.
- Do not use the machine to wash objects not compatible with those indicated by the manufacturer.
- All repair work must be done by the manufacturer or an authorized service center using original spare parts.
- Failure to observe this may affect the safety of the machine.
- The power supply should be turned off when the machine is not being used.

3.2 CONTROLS DESCRIPTION



Indicators

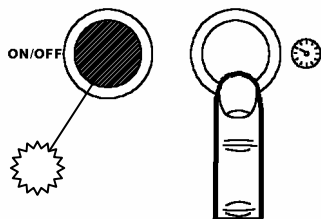
1. Line circuit breaker
2. Cycle on/off
3. Machine on/off

Functions

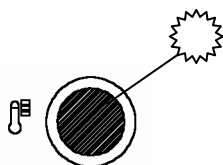
- A. Automatic start
- B. Cycle switch
- C. Line on/off

Chap. 4 USE OF MACHINE

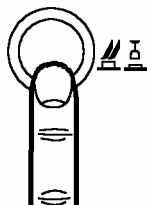
4.1 DESCRIPTION OF THE COMMANDS



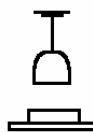
1. To turn the machine on, press the button indicated at left/right (the corresponding warning light will light up).



2. When the heating indicator lamp turns off, the machine has finished heating and is ready for use



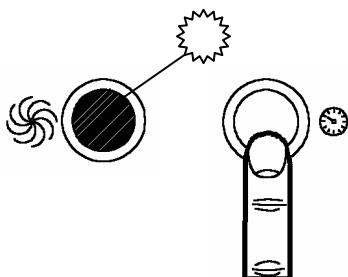
3. Press the button indicated at right/left to select the cycle.



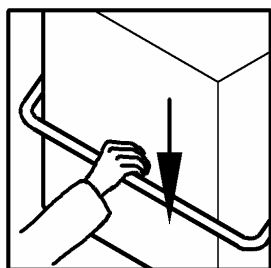
Short cycle



Long cycle

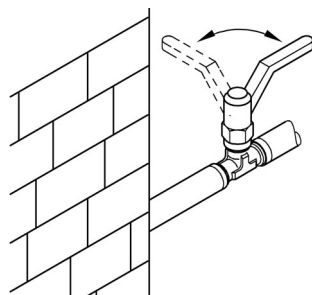
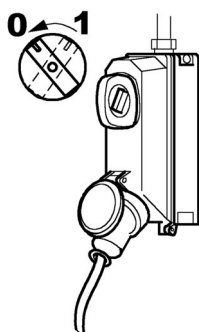
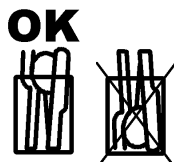
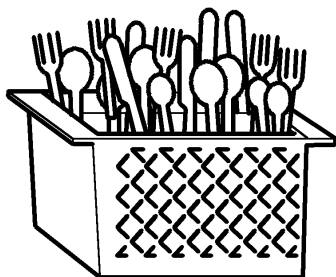
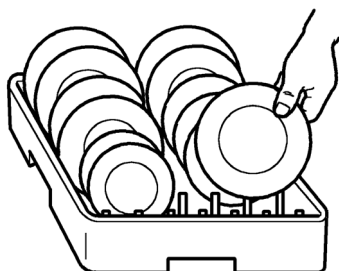
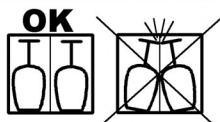
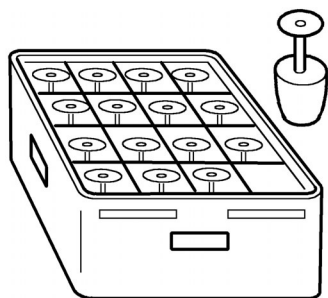


4. Press the button shown at the side
Open the hood, insert a rack of kitchenware, close the hood; the indicator lamp at the side turns on and the machine starts the cycle.
When the indicator lamp turns off, the cycle has ended



It suffices to lower the hood for subsequent washes

4.2 USE OF THE MACHINE

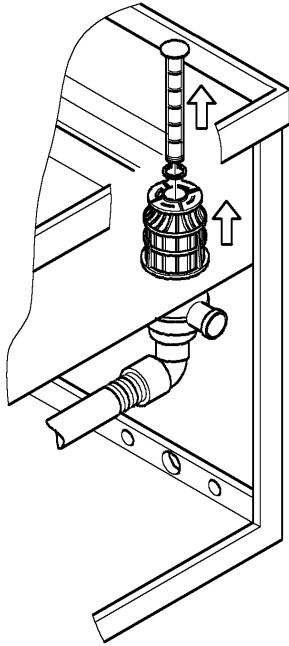


- Pour the proper amount of detergent in the wash tank according to the producer's instructions.
- **The detergent must be the industrial type or possibly foamless.**
- Never put your bare hands in the wash water; place the cups and the glasses upside down in the baskets. Place the dishes in the proper basket with support pins and their inner surface must be facing up.
- Place the silverware and the coffee spoons with the handles facing down.
- Never place silverware and stainless steel cutlery in the same basket. This could cause the silver to burnish and the stainless steel to corrode.
- Use the proper baskets specifically designed for the different type of glassware (dishes, glasses, cups, silverware etc.). To save on detergent and electricity only wash when the baskets are full, but do not overload them. Avoid stacking glassware.
- **WE RECOMMEND TO PRE-CLEAN** the glassware in order to minimize maintenance. The quality of final wash results will be greatly improved by first removing food particles, lemon peels, toothpicks, olive pits, etc. which could partially clog the pump filter and impair washing efficiency.

We recommend washing the glassware before food particles dry on its surface. It is good practice, when dried food waste is involved, to first soak the glassware and silverware before introducing them into the machine.

4.3 FINAL OPERATIONS

- Remove tension from the machine.
- Lift the hood and extract the rack clean dishes.
- Drain the water from the tank by lifting the overflow-pipe.
- Disconnect the main switch of the equipment.
- Close the «rolling shutter valve» for the hydraulic connection.



- Remove the filters clean them under a water jet with a nylon brush.
- Pay attention not to let any dirtiness rests on the bottom of the drain pump filter inside the tank. Clean the tank with a moderate water jet. Wash outside surfaces when are cold with non-abrasive products which are especially studied for steel maintenance.

REMARK: Do not wash the equipment with direct jet or at another pressure because eventual infiltrations to the electric components may harm the regular working of the equipment or of the single safety systems, and penalty for this would be the loss of guarantee.

CHAP. 5 MAINTENANCE

5.1 GENERAL RULES

The machine are designed to reduce maintenance requirements. It is necessary to observe the following rules to make the machine last long, and work without problems.

In any case, it is necessary to observe the following rules to make the machine stay in perfect working order:

- keep the machine clean and in good condition
- avoid making temporary or urgent repairs frequently

It is very important to observe the maintenance directions; check all the different parts of the machine periodically, so that no anomaly can occur, thus anticipating the time and equipment needed for any maintenance work.

Before cleaning turn off the power.

5.2 PERIODIC MAINTENANCE (to be done at least every 20 days)

To make operations following easier, the rack-holder frame can be removed from its seat.

- Remove the upper and lower rinse arms, by unscrewing the fastening.
- Unscrew and clean all the sprayers and put them back in their place.

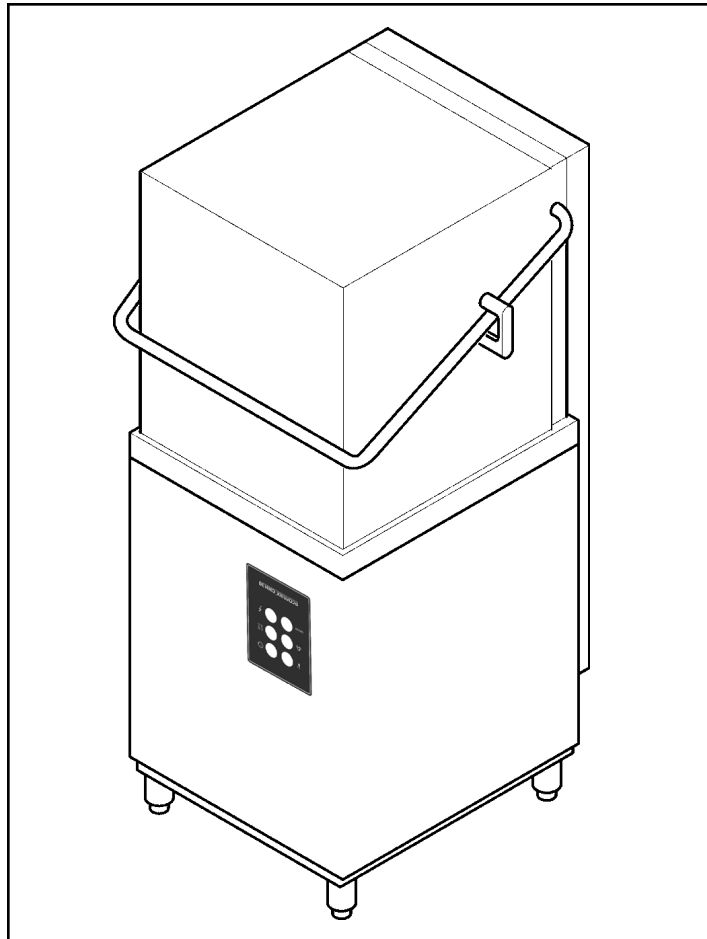
- Remove the upper and lower wash-arms by unscrewing the rinse pin , clean and rinse them.
- Remove the wash pump filter, clean it and rinse it.
- Thoroughly clean the wash tank.
- Leave the appliance lid open for the whole resting period.
- Lime deposits and scale will build up on the inner surfaces of the boiler, tank and pipelines due to calcium and magnesium salts present in the water. These scales and deposits can prejudice proper appliance operation.
- The appliance must be periodically descaled and we recommend that this must be done by an expert.
- Grease steel surfaces with vaseline oil whenever the appliance will be inactive for a long period of time.
- Have an expert drain all the water out from the boiler and the wash pump to avoid the danger of ice formation.
- **If the machine does not operate properly or in case of trouble, call a service center authorized by the manufacturer of the appliance or by his Dealer.**



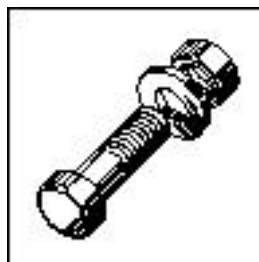
CHAP. 6 RECYCLING AND DISPOSAL

6.1 DISPOSAL THE MACHINE

Our machines are not made of materials that require particular disposal procedures.



CHH30

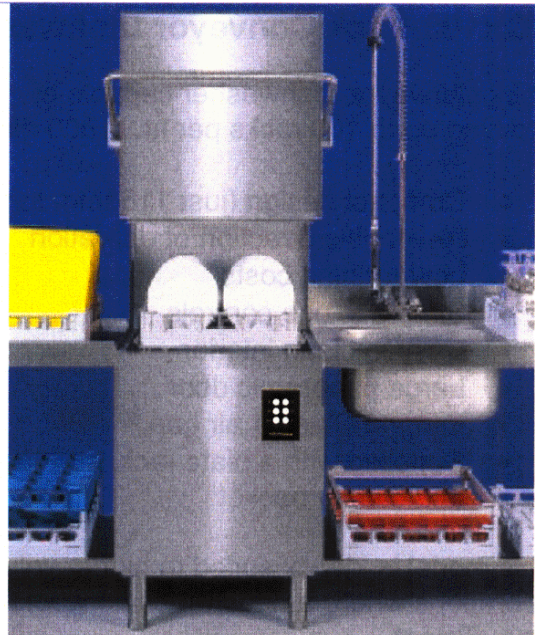


Spare Parts List

CHH30 Pass Through Dishwasher

Pass Through Dishwasher capable of washing up to 30 racks per hr.

- Choice of 2 wash/rinse cycles (1 or 2 minutes)
- Up to 120 covers per hr.
- Items up to 420mm easily accommodated
- Counterbalanced hood
- Easy strip down for quick and effective cleaning
- Simple to use controls
- Integral rinse dosing equipment
- Integral Class A air gap
- Supplied with a plate rack, cup rack and cutlery basket



This model is an ideal entry point for the independent operator who needs a pass through system. Suitable for either straight through or corner operation.

Diagrams as per CHH50,60 & 70

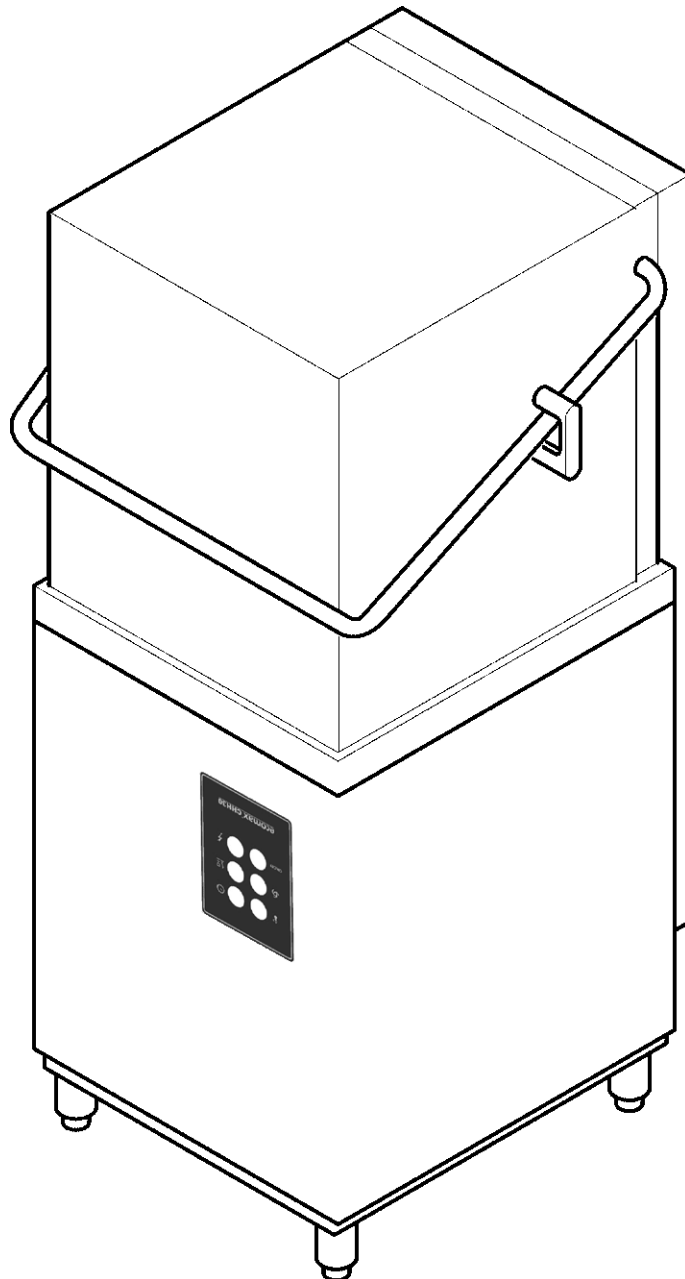
Hood Dishwasher	Model	Dimensions W x D x H	Electric kW	Fused
Dishwasher:- <ul style="list-style-type: none"> • 500 x 500mm rack • Up to 30 racks per hr • Cycle time – 1 or 2 minute • Usable entry height – 420mm • Hot or cold soft water connection recommended 	CHH30	716 x 740 x 1529mm	6.8, 400/50/3	3 x 16amps or 1 x 32 amps

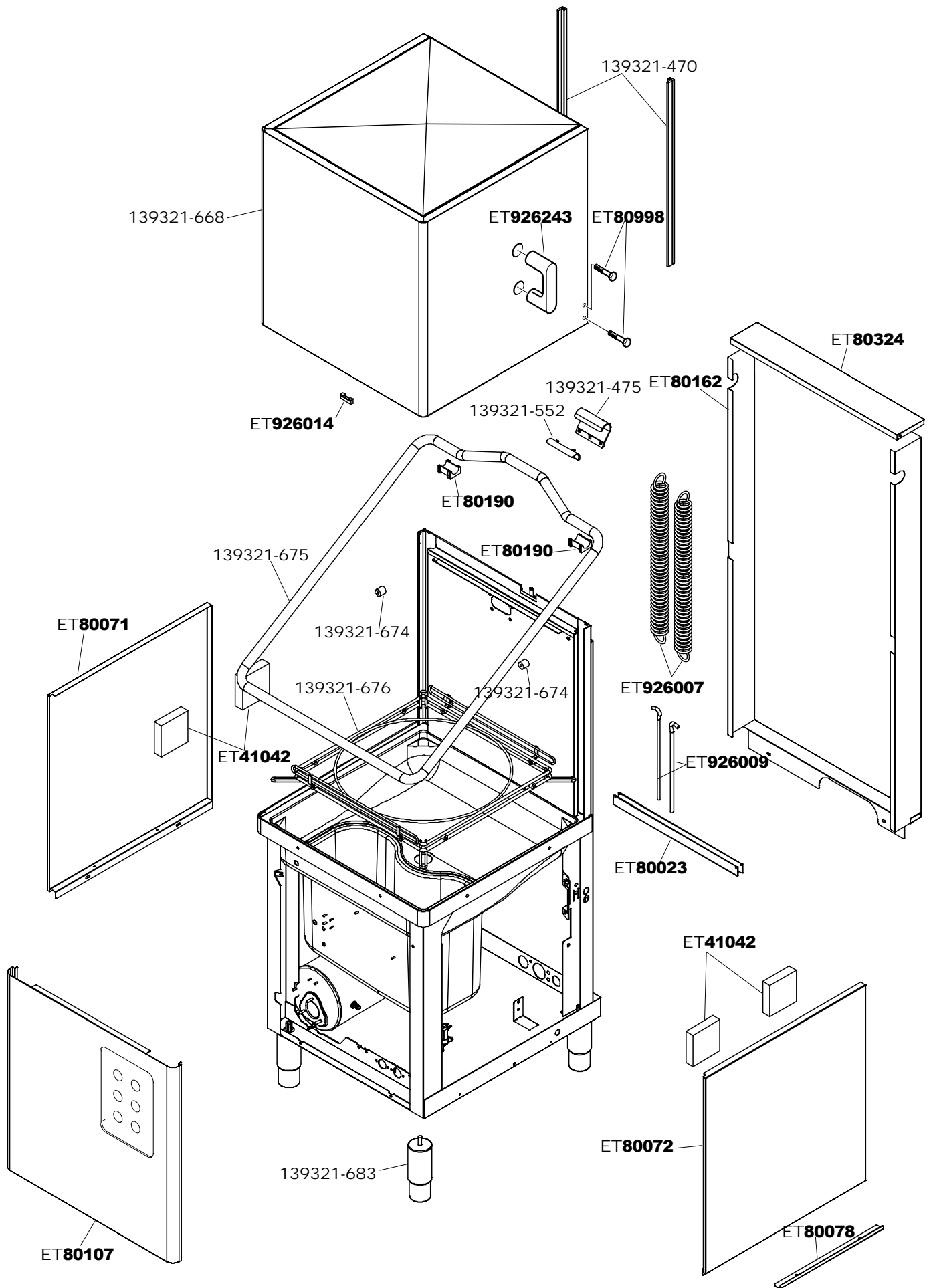
Hobart Independent
 Southgate Way, Orton Southgate, Peterborough PE2 6GN

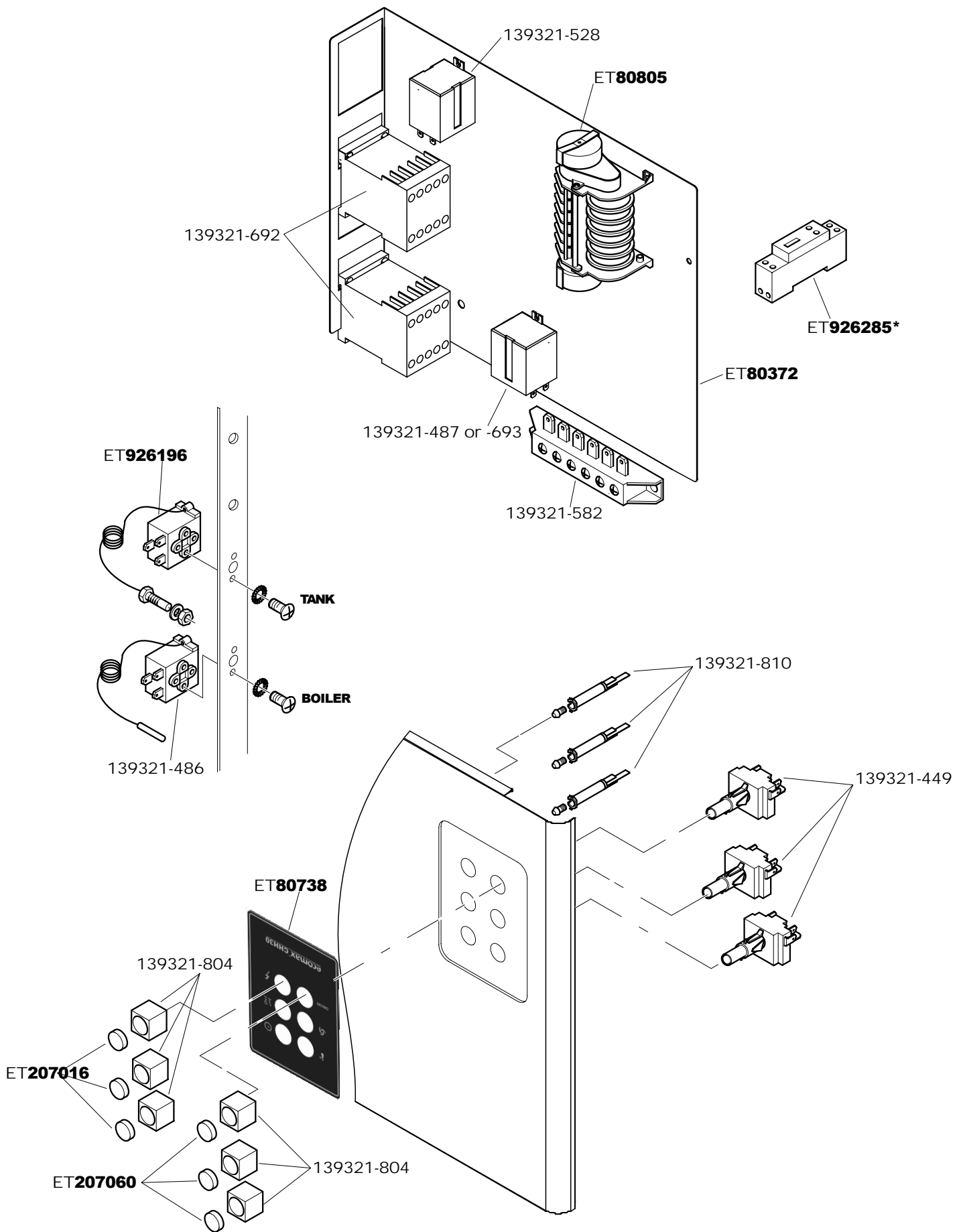
Tel: 0870 168881
 Fax: 01733 361347
 E-mail: indsales@hobartindependent.com
 Website: www.hobartindependent.com

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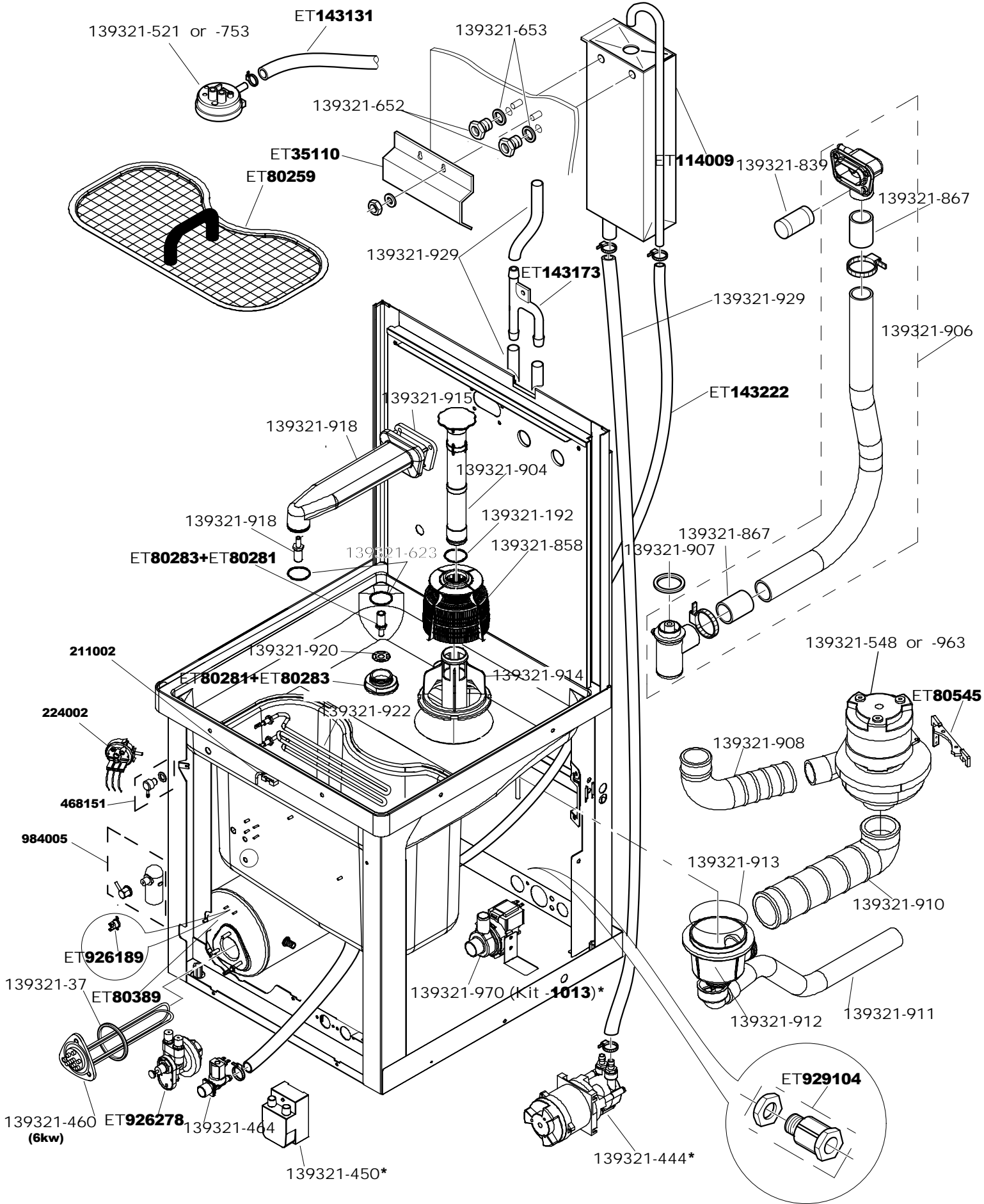
- Tav. 1 – Machine Body.....
- Tav. 2 – Electrical components.....
- Tav. 3 – Components in the tank.....
- Tav. 4 – Wash arms – Rinse.....
- Tav. 5 – Wash pump.....



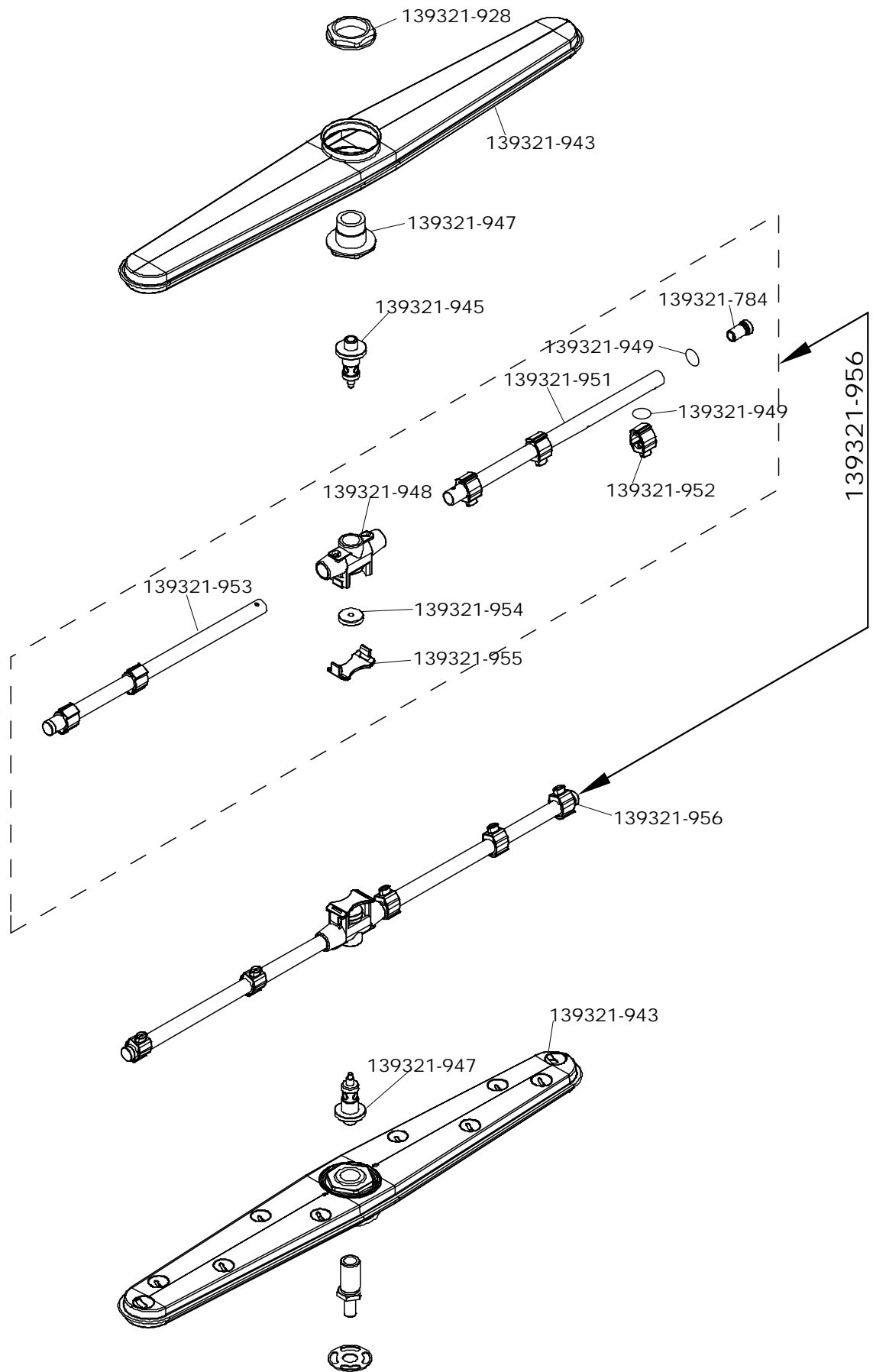


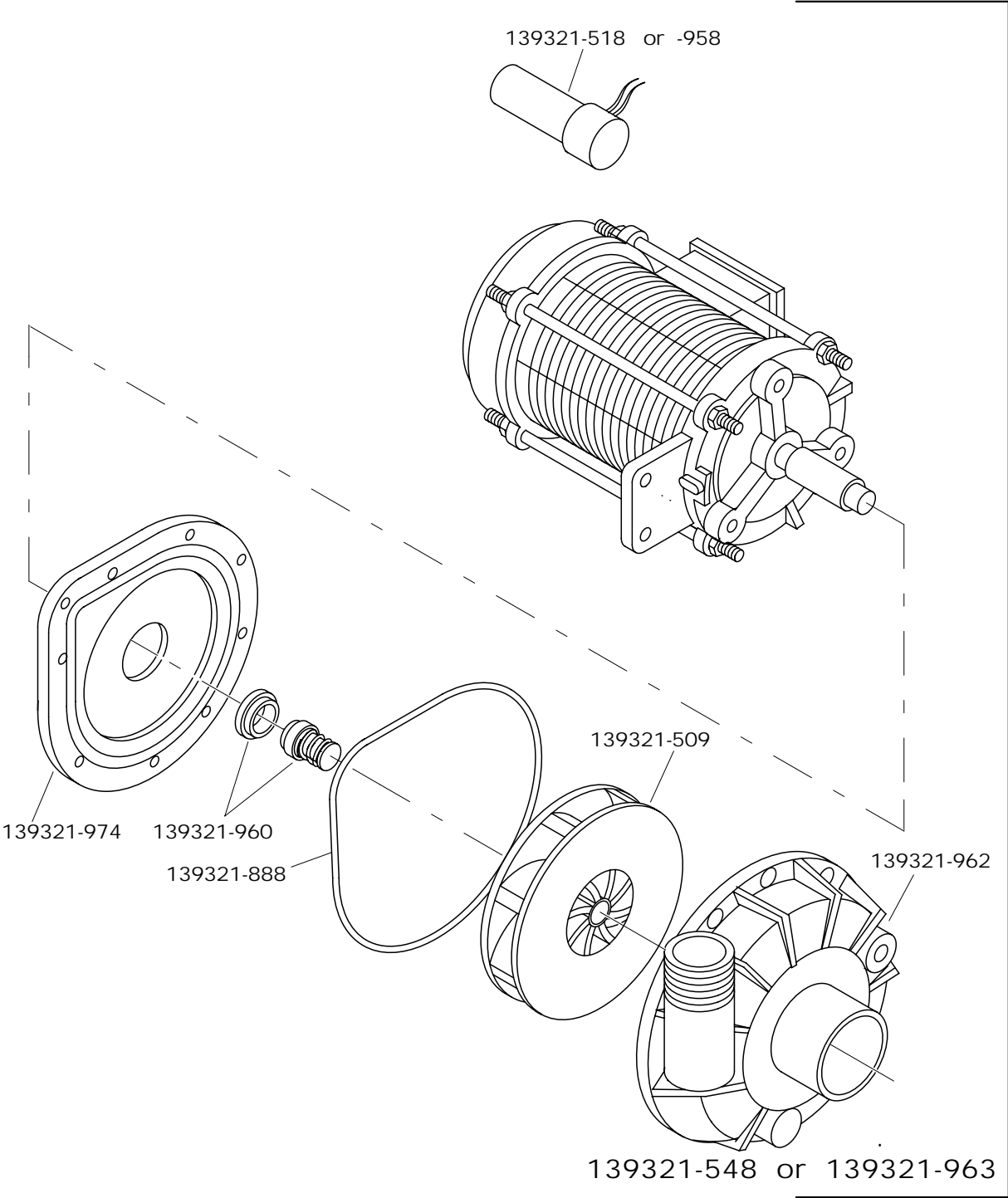


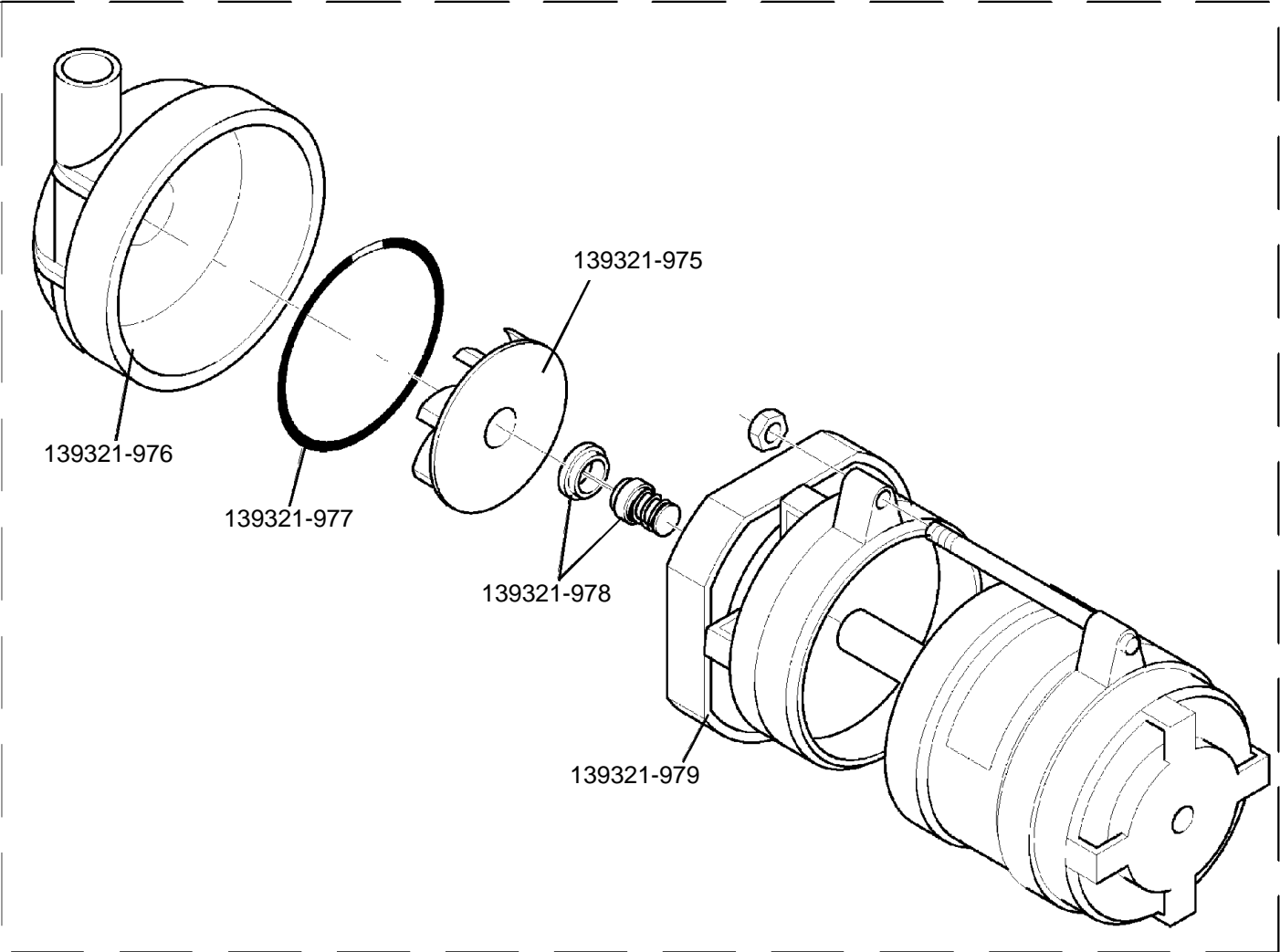
(* OPTIONAL)



(*) Optional



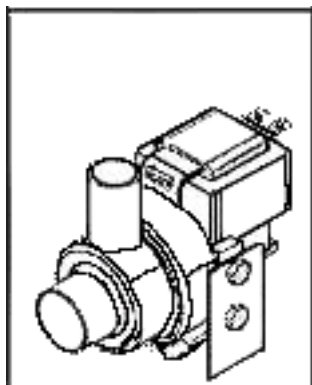




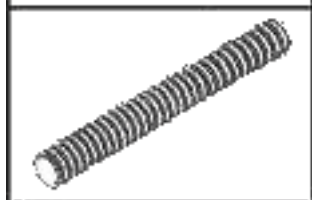
139321-490

CHH30

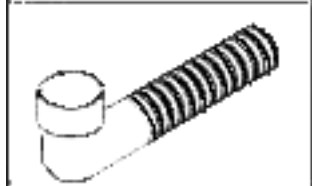
Drain Pump Assy



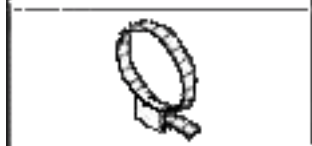
Drain Pump 220-240V 50Hz - 139321-1110



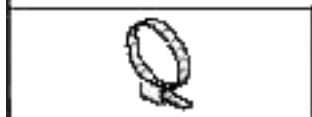
Drain Pipe 2000mm (drain pump to drain) - 139321-969



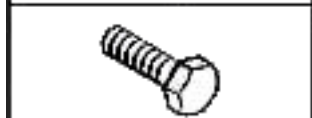
Drain Pipe (from machine to pump) - DZS056



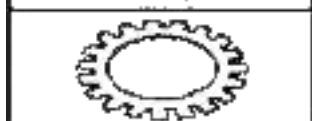
Jubilee Clip 40/60 -



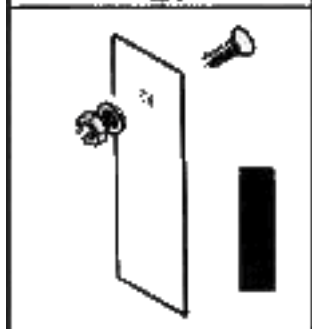
Jubilee Clip 20/32 - 166513-6



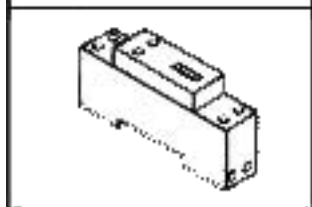
Bolt 6MAx12 -



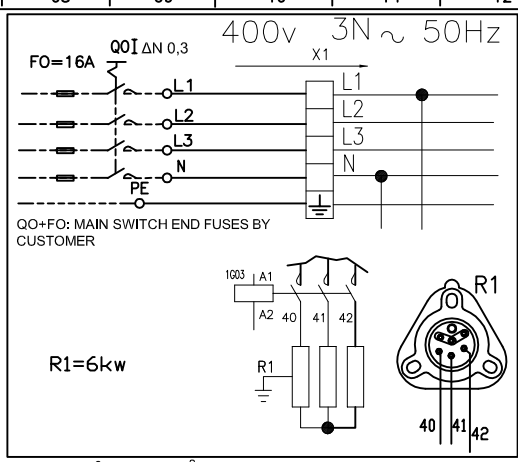
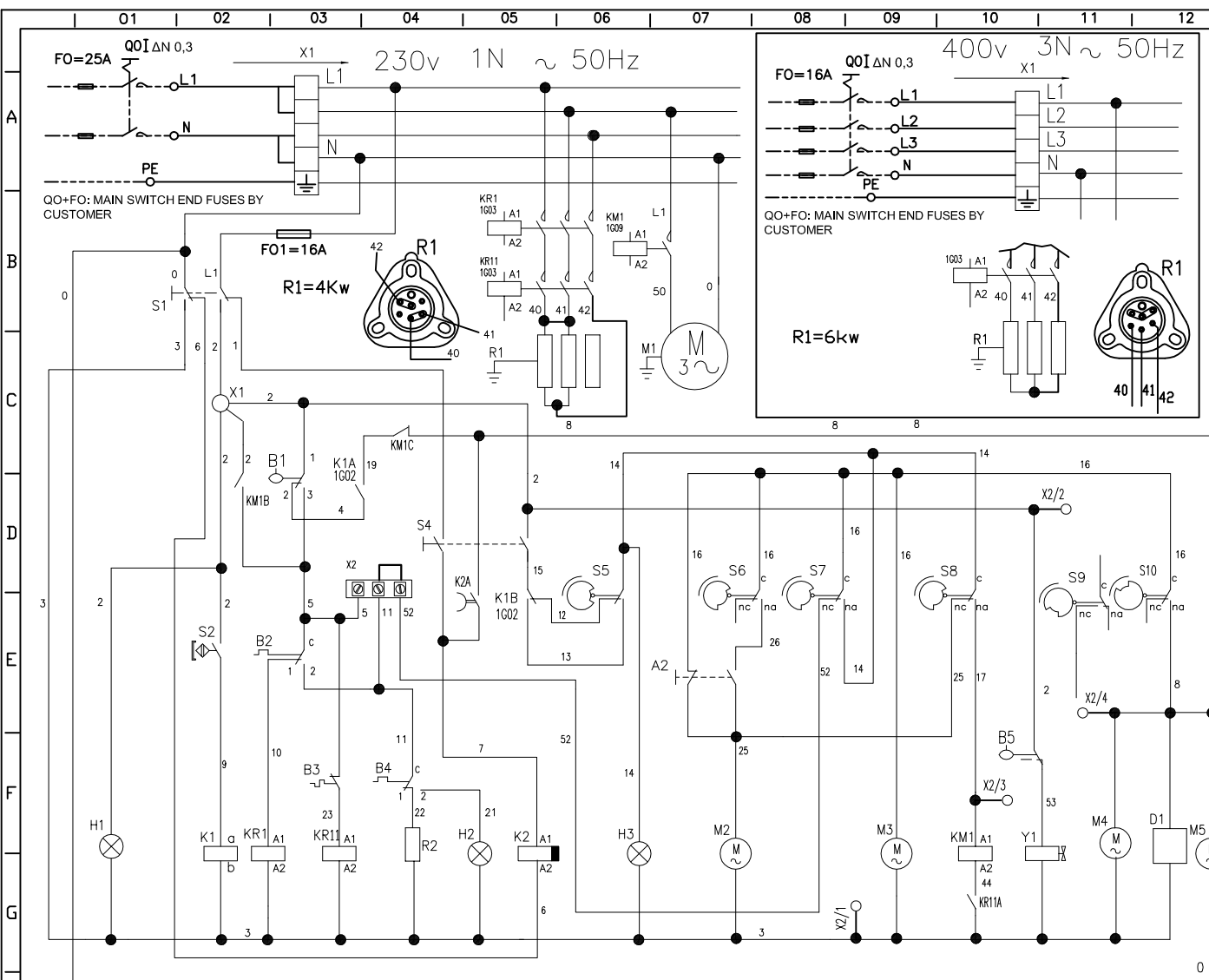
Lockwasher D6 - LWM-E-3-4



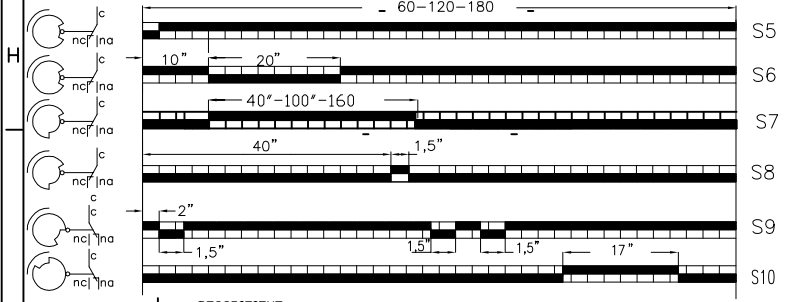
Timer Card (tally drain timer) -



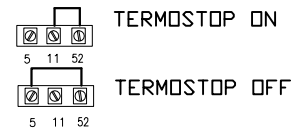
Timer (drain timer) - DET237BT



S4	INTERRUTTORE DI CICLO CYCLE SWITCH	INTERRUPTEUR DE DEMARRAGE WASCHVORGANGSSCHALTER
S2	MICROINTERRUTTORE MAGNETICO MAGNETIC SAFETY MICROSWITCH	MICROINTERRUPTEUR MAGNETIQUE MAGNETISCHER SICHERHEITSSCHALTER
S1	INTERRUTTORE DI LINEA MAIN SWITCH	INTERRUPTEUR DE LIGNE NETZSCHALTER
R2	RESISTENZA VASCA LAVAGGIO WASH TANK HEATING ELEMENT	RESISTANCE CUVE DE LAVAGE WASCHTANKHEIZUNG
R1	RESISTENZA BOILER BOOSTER HEATER HEATING ELEMENT	RESISTANCE BOYLER BOILERHEIZUNG
M5	ELETTROPOMPA DI SCARICO DRAIN PUMP	ELECTROPOMPE DE VINDAGE EL. LAUGENPUMPE
M4	ELETTROPOMPA AUMENTO PRESSIONE RINSE BOOSTER PUMP	ELECTROPOMPE AUGMENT PRESSION DRUCKSTEIGERUNGSPUMPE
M3	MOTORE LENTO TIMER TIMER SLOW MOTOR	MOTEUR LENT PROGRAMMATEUR LANGSAMER PROGRAMMSCHAHALTERMOTOR
M2	MOTORE VELOCE TIMER TIMER FAST MOTOR	MOTEUR RAPIDE PROGRAMMATEUR SCHENNER PROGRAMMSCHAHALTERMOTOR
M1	ELETTROPOMPA LAVAGGIO WASH ELECTRIC PUMP	ELECTROPOMPE LAVAGE ELEKTRISCHE UMWELZPUMPE
KR11	TELERUTTORE SICUREZZA RESISTENZA BOILER SAFETY BOOSTER HEATER CONTACTOR	CONTACTEUR RESISTANCE BOYLER LUFTSCHUETZ F. BOILERHEIZUNG
KR1	TELERUTTORE RESISTENZA BOILER BOOSTER HEATER CONTACTOR	CONTACTEUR RESISTANCE BOYLER LUFTSCHUETZ F. BOILERHEIZUNG
KM1	TELERUTTORE ELETTROPOMPA LAVAGGIO WASH PUMP CONTACTEUR	CONTACTEUR ELECTROPOMPE LAVAGE SCHUETZ F. UMWELZPUMPE
Y1	ELETTROVALVOLA RISCIAQUO RINSE SOLENOID VALVE	ELECTROVANNE DE RINCAGE MAGNETVENT FUER NACHSPUELUNG
K1A K1B	CONTATTI AUSILIARI SU K1 AUXILIARY CONTACTS ON K1	CONTACTS AUXILIAIRES SUR K1 HILFSKONTAKTE ZU K1
K1K2 K3	RELE AUSILIARIO AUXILIARY RELAY	REALIS AUXILIAIRE HILFSRELAIS
H3	LAMPADA SPIA DI CICLO CYCLE PILOT LAMP	LAMPE TEMOIN DE LIGNE NETZKONTROLLAMPE
H2	LAMPADA SPIA MACCHINA PRONTA MACHINE READY PILOT LAMP	TEMOIN MACHINE PRETE A L'EMPLOY MACHINE BETRIESBEREIT-KONTROLLAMPE
H1	LAMPADA SPIA LINEA LINE PILOT LAMP	LAMPE TEMOIN DE LIGNE MACHINE BETRIESBEREIT-KONTROLLAMPE
D1	ELETTRODOSATORE DETERSIVO EL. DETERGENT INJECTOR	
B5	PRESSOSTATO LIVELLO BREAK TANK BREAK TANK PRESSURE SWITCH	
B4	TERMOSTATO RESISTENZA VASCA TANK HEATER THERMOSTAT	THERMOSTAT RESISTANCE DE CUVE TANKHEIZUNG THERMOSTAT
B3	TERMOSTATO SICUREZZA BOILER SAFETY BOOSTER HEATER THERMOSTAT	THERMOSTAT DE SECURITE DU BOYLER SICHERHEITZUNG
B2	TERMOSTATO RESISTENZA BOILER BOOSTER HEATER THERMOSTAT	THERMOSTAT RESISTANCE BOYLER BOILERHEIZUNG
B1	PRESSOSTATO LIVELLO VASCA TANK PRESSURE SWITCH	PRESSOSTAT NIVEAU AIRGAP TANKDRUCKSCHALTER-NIVEAUREGLER
A2	SELETORE CICLO CYCLE COMMUTATOR	SELECTEUR CYCLE WAHLSCHALTER FUER WASCHVORGANGSDAUER
A1	PROGRAMMATORE CYCLE TIMER	PROGRAMMATEUR CYCLAGE PROGRAMMSCHALTEWERK SPUEL PROGRAMM
SIMB.	DESCRIZIONE DESCRIPTION	DESCRIPTION BESCHREIBUNG



S5	AUTOALIMENTAZIONE TIMER POWER SUPPLY	ALIMENTATION PROGRAMMATEUR PROGRAMMSCHALTERVERSORGUNG
S6	CAMMA CICLO 120° 120° CYCLE CAM	CAME CYCLE 120° 120° WASHVORGANGSNOCKEN
S7	CAMMA DI CONTROLLO CONTROL CAM	CAME DU CONTROLE KONTROLLNOCKEN
S8	LAVAGGIO WASH	LAVAGE SPUELEN
S9	NC	
S10	RISCIAQUO RINSE	RINCAGE NACHSPUELUNG



n° MODIFICA	DESCRIZIONE	SOSTITUISCE	DATA
-1	morsetto dosatori	81392	28/10/04

destinazione/codice/code B270/E78		denominazione / denominazione SCHEMA ELETTRICO WIRING DIAGRAM		Codice 81388+81383
Dis. Riesaminato da re-examined	data/date 30/01/03	descrizione apparecchiatura LAVASTOVIGLIE A CAPOT		diseño n°/file mod 81392-1
verificato da/inspected by	data/date	totale fogli/N° foglio 2	N° fog. successivo 1	N° fog. successivo -2
validato da/validated by	data/date			

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