

# **Installation manual**

## **Washer extractors**

**W465H, W475H/N/S, W485N/S, W4105H/N/S,  
W4130H/N/S, W4180H/N/S, W4240H,  
W4250N/S, W4300H, W4330N/S**

**Type W3...**

## **Compass Control**

### **From machine No.**

**W475N/S, W485N/S, W4105N/S, W4130N/S  
W4180N/S  
W4250N/S  
W4330N/S**

**00521/402183-  
00650/107384-  
00725/105494-  
00795/102510-**

*Thinking of you*

 **Electrolux**



# Contents

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The manufacturer reserves the right to make changes to design and component specifications.



## Safety Precautions

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### Safety Precautions



**The machine is only intended for water-wash use.**

**Do not allow minors to use the machine.**

**Do not hose down the machine with water.**

**The machine's door lock must under no circumstances be bypassed.**

**If the machine develops a fault, this must be reported to the person in charge as soon as possible. This is important both for your safety and that of others.**

**The machine is not intended to be used by people (including minors) with reduced physical or mental capacity or lack of experience and knowledge. Such people must be instructed in the use of the machine by a person who has responsibility for their safety. Minors must be supervised to ensure that they do not play with the machine.**



**All external equipment which is connected to the machine must be CE/EMC-approved and connected using an approved shielded cable.**



**In order to prevent damage to the electronics (and other parts) that may occur as the result of condensation, the machine should be placed in room temperature for 24 hours before being used for the first time.**





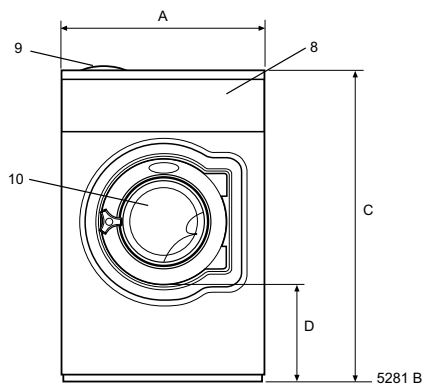




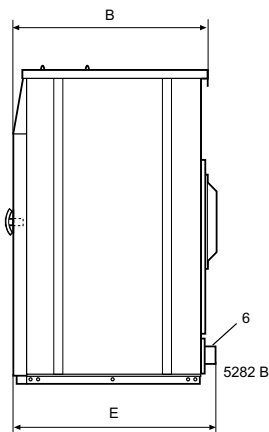
|    |  |
|----|--|
| 1  | Electrical connection  |
| 2  | Cold water   |
| 3  | Hot water  |
| 4  | Hard water   |
| 5  | Steam connection   |
| 6  | Drain  |
| 7  | Liquid detergent supply  |
| 8  | Control panel  |
| 9  | Soap box   |
| 10 | Door opening, W465H, W475H: ø 310, W4105H: ø 365, W4130H: ø 395, W4180H, W4240H, W4300H: ø 435 |

|               | A    | B    | C    | D   | E    | F    | G   | H    | I   | K    | L   | M    | N   | O   | P   | R   | S   |
|---------------|------|------|------|-----|------|------|-----|------|-----|------|-----|------|-----|-----|-----|-----|-----|
| <b>W465H</b>  | 720  | 690  | 1115 | 355 | 720  | 825  | 45  | 1030 | 220 | 1010 | 135 | 910  | 830 | 360 | 100 | 240 | –   |
| <b>W475H</b>  | 720  | 690  | 1115 | 355 | 720  | 825  | 45  | 1030 | 220 | 1010 | 135 | 910  | 830 | 360 | 100 | 240 | –   |
| <b>W4105H</b> | 830  | 705  | 1200 | 365 | 740  | 945  | 45  | 1115 | 220 | 1095 | 135 | 995  | 910 | 415 | 100 | 295 | –   |
| <b>W4130H</b> | 910  | 785  | 1325 | 435 | 825  | 1035 | 125 | 1245 | 215 | 1225 | 300 | 1125 | –   | –   | 100 | 305 | 455 |
| <b>W4180H</b> | 970  | 870  | 1410 | 470 | 910  | 1120 | 115 | 1330 | 230 | 1290 | 315 | 1205 | 370 | 410 | 100 | 335 | 485 |
| <b>W4240H</b> | 1020 | 915  | 1445 | 500 | 955  | 1155 | 100 | 1360 | 215 | 1320 | 300 | 1240 | 350 | 360 | 100 | 360 | 510 |
| <b>W4300H</b> | 1020 | 1060 | 1445 | 500 | 1135 | 1155 | 100 | 1360 | 215 | 1320 | 300 | 380  | –   | –   | 100 | 360 | 330 |

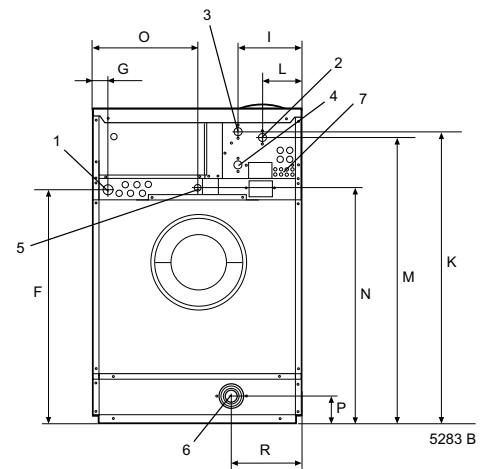
## W465H, W475H, W4105H, W4130H



Front

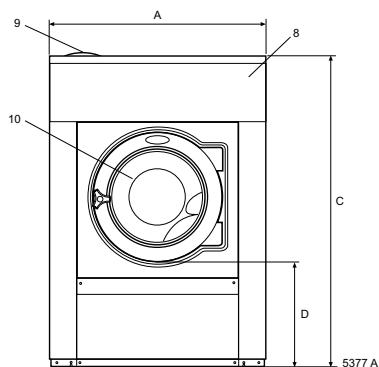


Right side

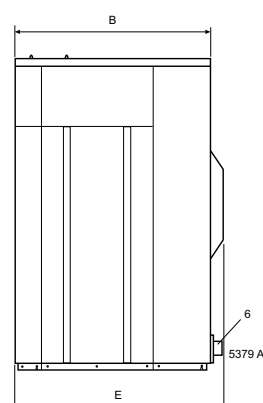


Rear side

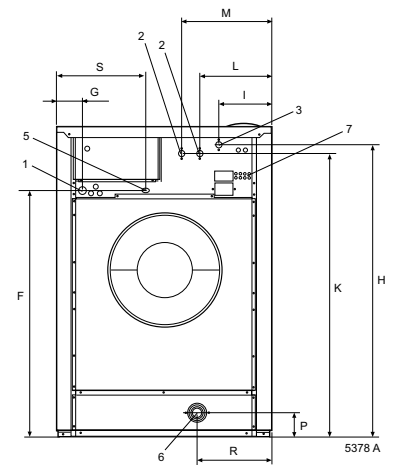
## W4180H, W4240H, W4300H



Front



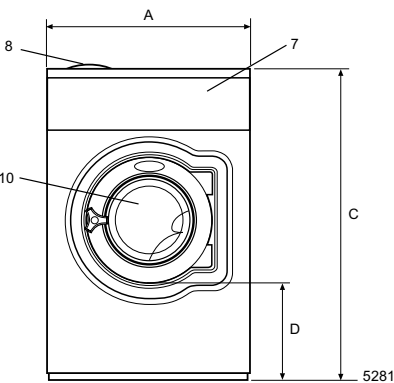
Right side



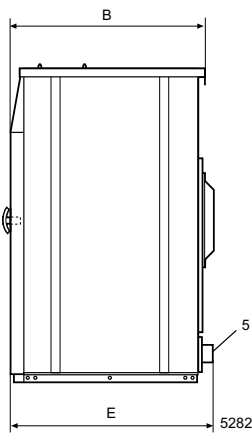
Rear side

|    |  |
|----|--|
| 1  | Electrical connection  |
| 2  | Cold water   |
| 3  | Hot water  |
| 4  | Steam connection   |
| 5  | Drain  |
| 6  | Liquid detergent supply  |
| 7  | Control panel  |
| 8  | Soap box   |
| 9  | Water reuse  |
| 10 | Door opening, W475N/S, W485N/S: ø310, W4105N/S, W4130N/S: ø365, W4180N/S: ø395, W4250N/S, W4330N/S: ø435 |

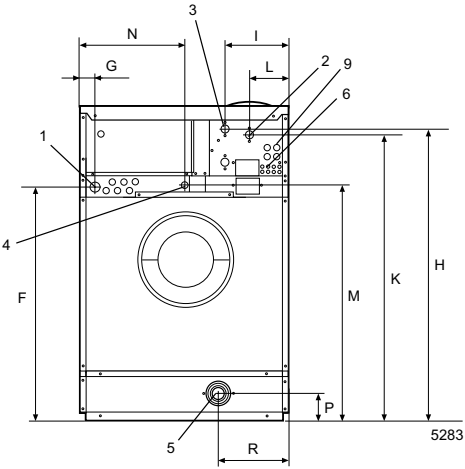
|          | A   | B    | C    | D   | E    | F    | G  | H    | I   | K    | L   | M    | N   | O   | P   | R   |
|----------|-----|------|------|-----|------|------|----|------|-----|------|-----|------|-----|-----|-----|-----|
| W475N/S  | 660 | 690  | 1115 | 355 | 725  | 825  | 45 | 1030 | 215 | 1010 | 130 | 830  | 385 | -   | 100 | 225 |
| W485N/S  | 660 | 730  | 1115 | 355 | 765  | 825  | 45 | 1030 | 215 | 1010 | 130 | 830  | 385 | -   | 100 | 225 |
| W4105N/S | 720 | 705  | 1200 | 365 | 740  | 910  | 45 | 1115 | 215 | 1095 | 130 | 910  | 420 | -   | 100 | 235 |
| W4130N/S | 720 | 790  | 1200 | 365 | 825  | 910  | 45 | 1115 | 215 | 1095 | 130 | 910  | 420 | -   | 100 | 235 |
| W4180N/S | 750 | 880  | 1333 | 435 | 915  | 1035 | 45 | 1245 | 130 | 1225 | 210 | 1040 | 325 | 295 | 100 | 225 |
| W4250N/S | 830 | 955  | 1410 | 470 | 990  | 1120 | 45 | 1330 | 160 | 1290 | 245 | 1125 | 325 | 325 | 100 | 265 |
| W4330N/S | 910 | 1040 | 1445 | 500 | 1075 | 1155 | 45 | 1365 | 160 | 1325 | 245 | 1155 | 280 | 325 | 100 | 210 |



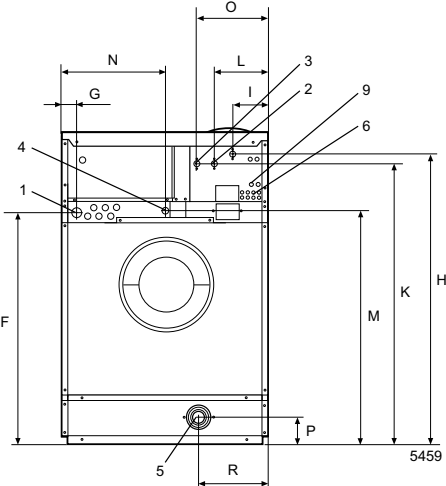
Front



Right side



Rear side W475N/S-W4130N/S



Rear side W4180N/S-W4330N/S

|                                      | W465H     | W475H     | W4105H    | W4130H    | W4180H    | W4240H    | W4300H    |
|--------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Frequency of the dynamic force<br>Hz | 18.3      | 18.3      | 17.1      | 16.3      | 15.5      | 14.8      | 13.7      |
| Max floor load at extraction<br>kN   | 1.8 ± 0.5 | 1.9 ± 0.5 | 2.5 ± 0.5 | 3.1 ± 0.5 | 4.2 ± 1.0 | 5.2 ± 1.0 | 6.2 ± 1.2 |

|                                      | W475N/S                 | W485N/S                 | W4105N/S                | W4130N/S                | W4180N/S                | W4250N/S                | W4330N/S                |
|--------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Frequency of the dynamic force<br>Hz | 9.3                     | 9.3/13.8                | 8.7/12.9                | 8.7/12.9                | 8.3/12.3                | 7.9/11.7                | 7.5/11.2                |
| Max floor load at extraction<br>kN   | 1.6 ± 2.8/<br>1.6 ± 2.3 | 1.7 ± 3.1/<br>1.7 ± 2.6 | 2.1 ± 3.6/<br>2.1 ± 3.0 | 2.3 ± 4.1/<br>2.3 ± 3.7 | 2.9 ± 4.7/<br>2.9 ± 4.6 | 3.7 ± 5.3/<br>3.7 ± 5.8 | 4.5 ± 5.8/<br>4.5 ± 6.8 |



## Installation H-model

### Transportation and unpacking, W465H, W475H, W4105H

The machine is delivered complete with expansion bolts etc. packed inside the machine in the drum.

The machine is delivered bolted onto the transport pallet and packed in a crate or box.

- Remove packing from the machine.
- Remove front panel. Remove the bolts between the machine and pallet.
- Mount front panel.

When the machine is lifted off the pallet: Make sure that the machine does not come down on the floor with either of the rear corners first. The side panel of the machine can be damaged.

- Mount the feet.
- Place the machine on its final position.
- Level the machine with the feet of the machine.

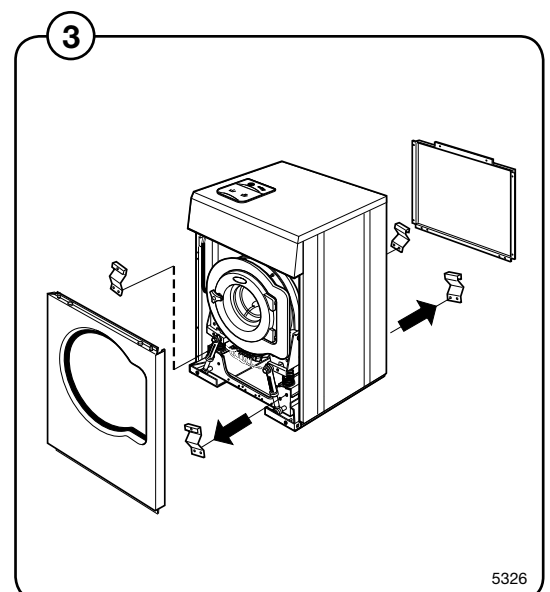
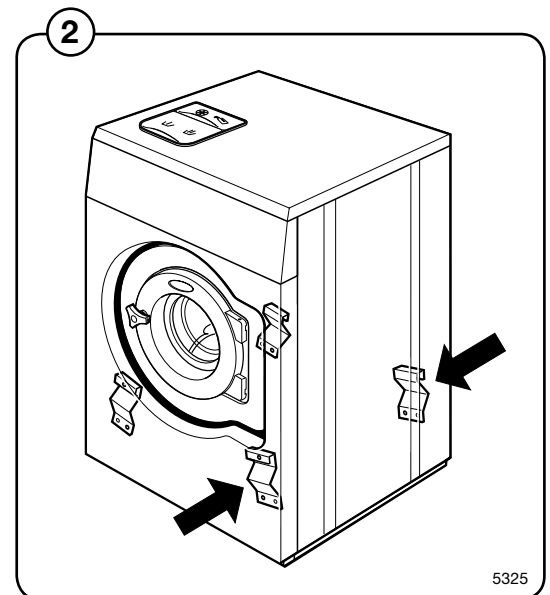
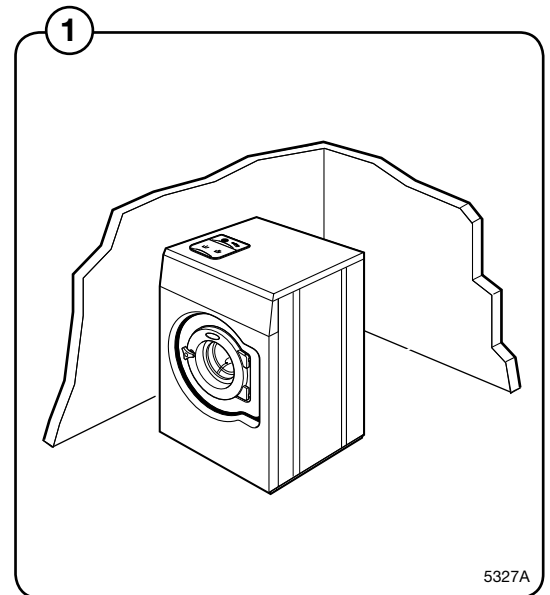
①

② The machine also comes with transport safety devices (four plate angles between the support and the drum).

In order to remove the safety devices:

- Remove front and rear panel.
- Remove both front metal angels.
- Remove both rear metal angels.
- The machine may not be moved with the transport securities removed. Save the transport securities for future use.

③



### Transportation and unpacking, W4130H, W4180H, W4240H, W4300H

The machine is delivered complete with expansion bolts etc. packed inside the machine in the drum.

The machine is delivered bolted onto the transport pallet and packed in a crate or box.

- Remove packing from the machine.
- Remove front and rear panel. Remove the bolts between the machine and pallet.
- Mount front and rear panel.
- Mount the feet.

#### NOTE!

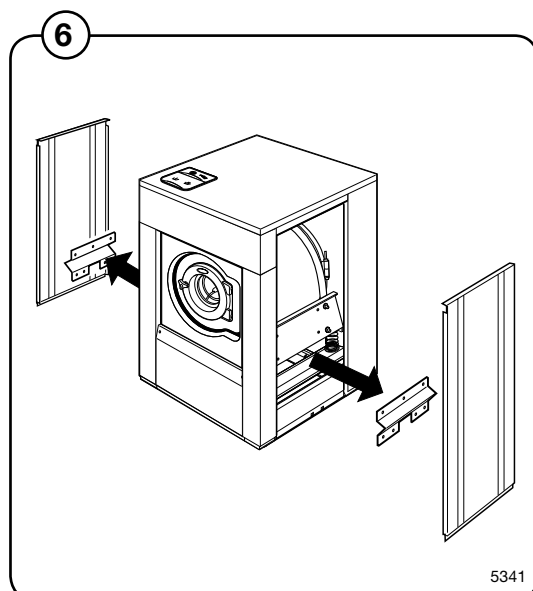
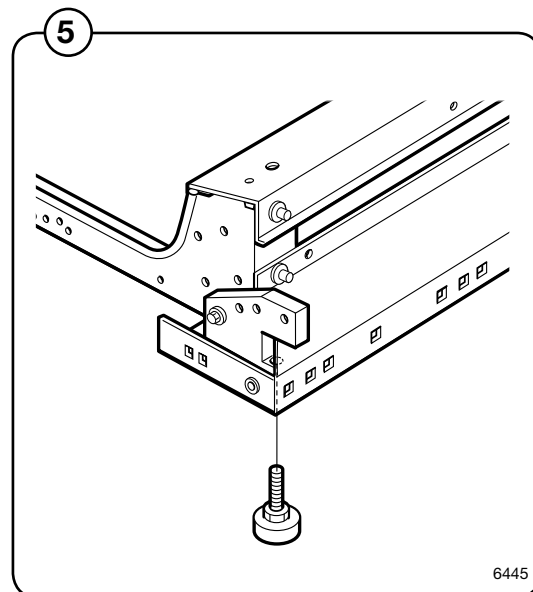
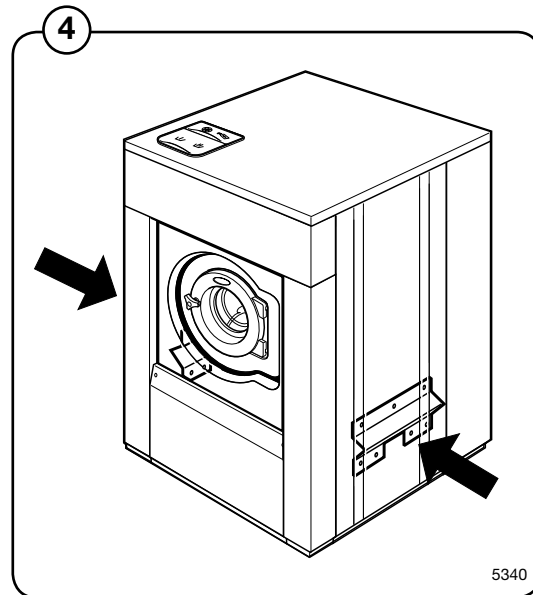
- ⑤ Regarding W4300H note the positioning of the two front feet.

- ①
- Place the machine on its final position.
  - Level the machine with the feet of the machine.

- ④ The machine also comes with transport safety devices (two plate angles between the support and the drum).

In order to remove the safety devices:

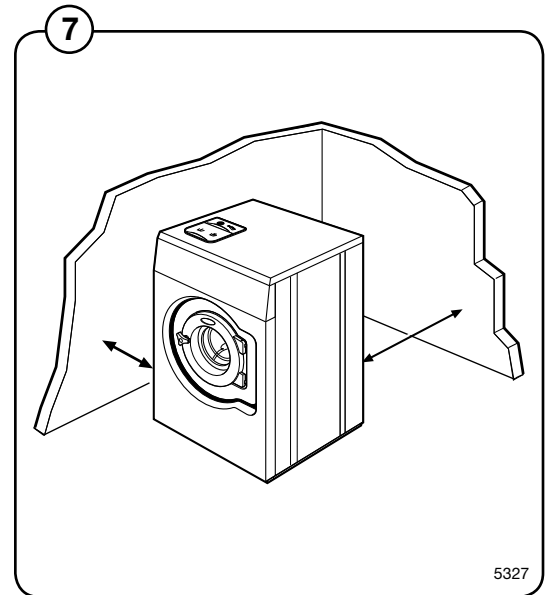
- ⑥
- Remove the two side panels.
  - Remove the two transport securities.
  - The machine may not be moved with the transport securities removed. Save the transport securities for future use.



## Siting and floor

Install the machine close to a floor drain or open drain.

- 7 In order to make installation and servicing the machine easier the following clearances are recommended:
- At least 500 mm between the machine and the wall behind
  - and min. 50 mm on both sides of the machine whether installed next to the wall or other machines.



### Mechanical installation

- 8 • Mark and drill 2 holes (ø 8 mm) about 40 mm deep (W465-W4105) and ø 10 mm and 50 mm deep (W4130-W4240) in the positions shown.

|        | A   | B   | C   | D   | E   | F   | G  | H   |
|--------|-----|-----|-----|-----|-----|-----|----|-----|
| W465H  | 495 | 460 | 110 | 130 | 375 | 170 | 40 | 100 |
| W475H  | 495 | 460 | 110 | 130 | 375 | 170 | 40 | 100 |
| W4105H | 575 | 465 | 130 | 140 | 455 | 185 | 35 | 95  |
| W4130H | 635 | 490 | 135 | 175 | 515 | 195 | 60 | 110 |
| W4180H | 715 | 545 | 125 | 205 | 595 | 185 | 60 | 115 |
| W4240H | 790 | 615 | 115 | 180 | 670 | 175 | 60 | 115 |
| W4300H | 790 | 755 | 60  | 180 | 670 | 175 | 60 | 75  |

● = position of feet

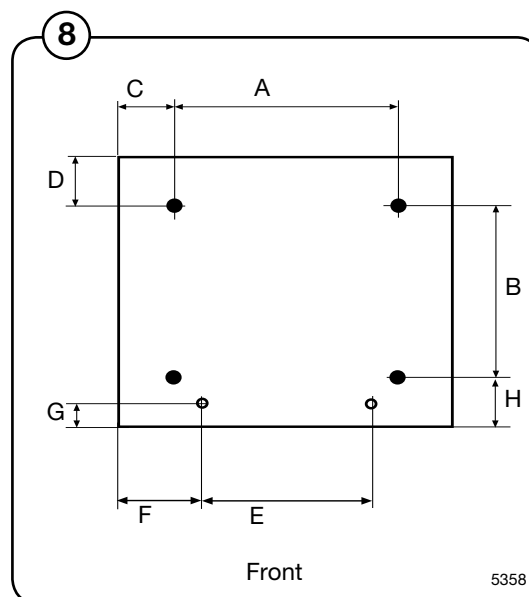
○ = drilling points for expander bolts

- The machine shall be lifted in the bottom frame.
- Place the machine over the two drilled holes.
- Check that the machine is placed in level. Adjust with the feet.



**It is of utmost importance that the machine is placed in level, from side to side as well as front to rear. If the machine is not properly leveled, it may result in out-of-balance without a real out of balance in the drum.**

- Insert the expansion bolts supplied in the holes drilled in the floor. Fit the washers and nuts, and tighten well.



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## Installation S- and N-model

Leave the machine on the transport pallet until it can be placed in the final, prepared position.

### Siting

Install the machine close to a floor drain or open drain. In order to make installation and servicing the machine easier the following clearances are recommended:

- 9 • At least 500 mm between the machine and the wall behind.
- Minimum 25 mm to next machine if more than one machine are installed on a foundation.

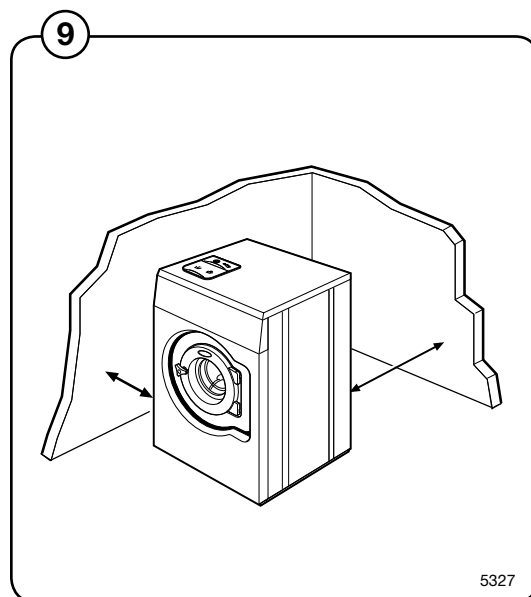
### Floor

In this type of machine, the drum is attached directly to the frame. As a result the floor under the machine must be stable enough to absorb the dynamic forces generated during spin cycles. For that reason, the mounting bolts must be cast into the floor material itself.

When fixing the machine to an existing cement floor, it must be and at least 100 mm thick.

The floor must be able to withstand the loads indicated in the table.

If it isn't possible to cast the bolts into the floor, an alternative might be to use so-called chemical anchors. Your local dealer can provide the information you need.



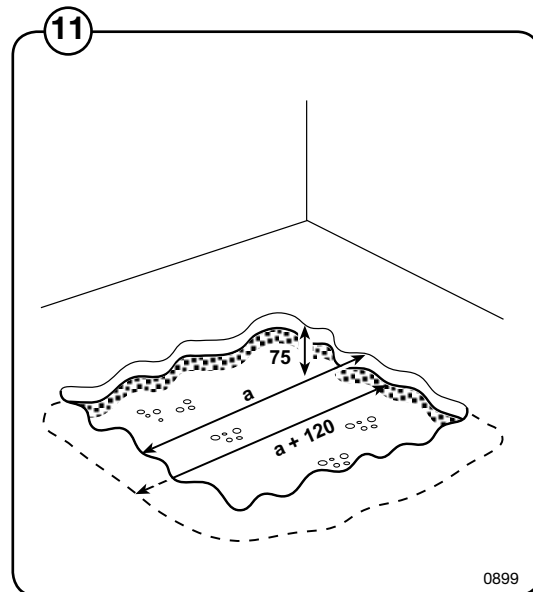
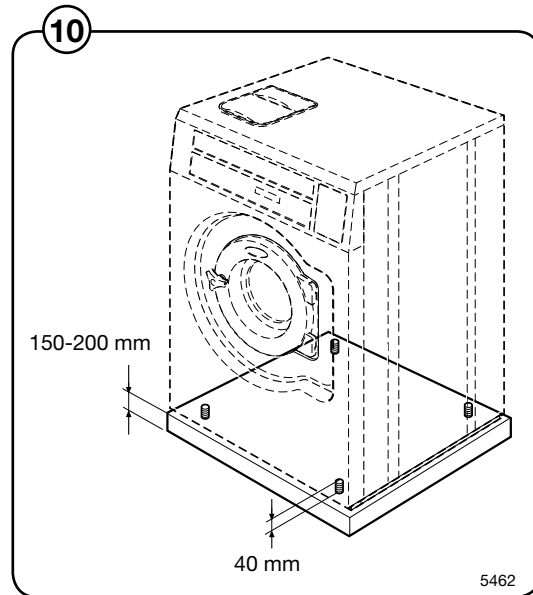
### Casting a plinth

- 10 A plinth should be used where the existing floor is less than 100 mm thick or in order to ensure that the machine is above the level of any water leakages.

The plinth should be approximately 150 - 200 mm in height.

Proceed as follows:

- 11
- Break up the existing floor to a depth of approx. 75 mm and check that the sides of the hole are tapered outward so that the longest side at the bottom measures 120 mm more than at the top.
  - Make the mould for the plinth.
  - Moisten the hole well and apply cement to the sides and bottom.
- 12
- 4 bolts must be set into the concrete of the machine base. The bolts need to project 40 mm out of the base. Pour the concrete into the prepared base mould and make sure that the surface is level.
  - The concrete should be left to set for at least two days before mounting the machine on the plinth.



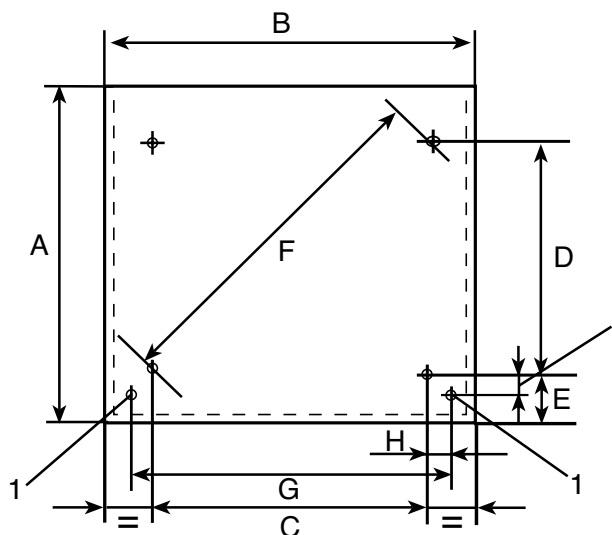
## Models S and W4330N

In these models, two expander bolts must also be fitted to the front section of the machine.

- Drill two holes (1)  $\varnothing 10$  mm and 40 mm deep.
- After the machine has been placed over the other four bolts, place the two spacer washers over the two holes. They shall be placed between the machine and foundation.
- Mount the expanderbolts in the drilled holes and fasten the machine. Don't forget the washers.

|        | A    | B   | C   | D   | E   | F    | G   | H  | I  |
|--------|------|-----|-----|-----|-----|------|-----|----|----|
| W475N  | 685  | 660 | 495 | 395 | 115 | 635  | -   | -  | -  |
| W485N  | 725  | 660 | 495 | 445 | 115 | 665  | -   | -  | -  |
| W4105N | 700  | 720 | 575 | 385 | 120 | 695  | -   | -  | -  |
| W4130N | 785  | 720 | 575 | 495 | 120 | 760  | -   | -  | -  |
| W4180N | 875  | 750 | 635 | 570 | 120 | 855  | -   | -  | -  |
| W4250N | 950  | 830 | 715 | 635 | 125 | 955  | -   | -  | -  |
| W4330N | 1035 | 910 | 790 | 695 | 135 | 1050 | 810 | 10 | 95 |
| W475S  | 685  | 660 | 495 | 395 | 115 | 635  | 495 | 0  | 75 |
| W485S  | 725  | 660 | 495 | 445 | 115 | 665  | 495 | 0  | 75 |
| W4105S | 700  | 720 | 575 | 385 | 120 | 695  | 595 | 10 | 80 |
| W4130S | 785  | 720 | 575 | 495 | 120 | 760  | 595 | 10 | 80 |
| W4180S | 875  | 750 | 635 | 570 | 120 | 855  | 655 | 10 | 85 |
| W4250S | 950  | 830 | 715 | 635 | 125 | 955  | 735 | 10 | 85 |
| W4330S | 1035 | 910 | 790 | 695 | 135 | 1050 | 810 | 10 | 95 |

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### Installation on an existing floor or foundation

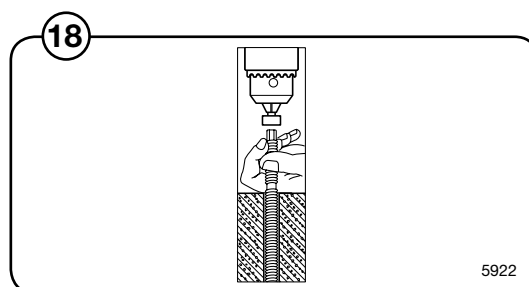
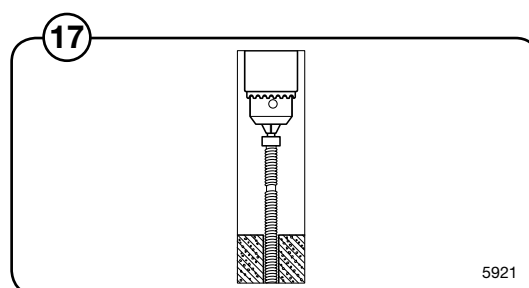
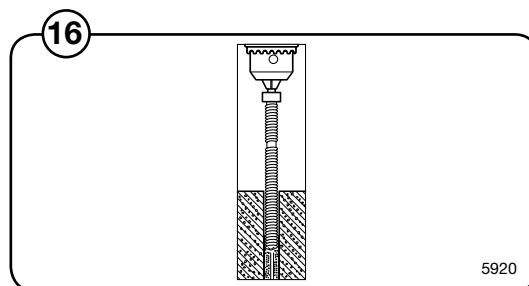
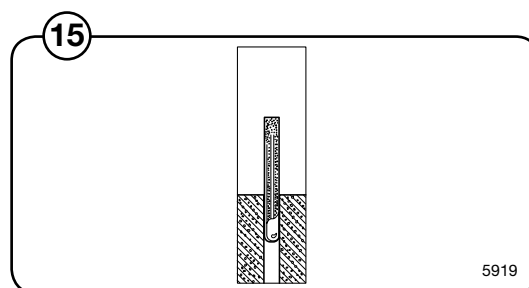
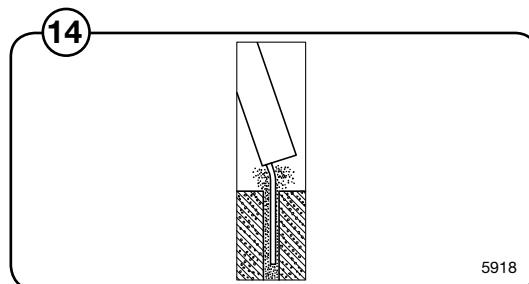
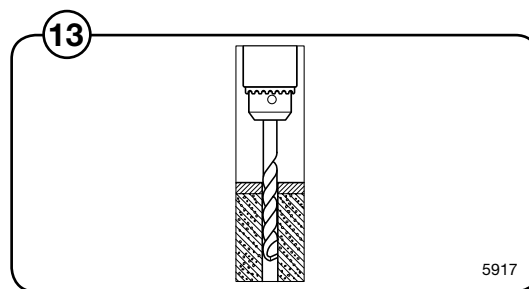
Instead of bracing up the existing floor or foundation, chemical bolts M16 can be used.

#### Mounting instruction

- 13 • Drill  $\varnothing$  18 mm (11/16") to a depth of 125 mm (5"). Do not make the hole too deep.
- 14 • Clean the drilled holes.
- 15 • Put down the chemical ampule in the hole.
- 16 • Rotate the bolt into the hole, so that the glass ampule is broken and its contents mixed.
- 17 • Rotate the bolt to correct depth.  
**NOTE!** Do not rotate the bolt against the concrete bottom. Check that the chemicals have filled the hole completely.
- 18 • Remove the drilling machine with the mounting tool. Hold the bolt with one hand. Let the bolt harden before the machine is mounted.

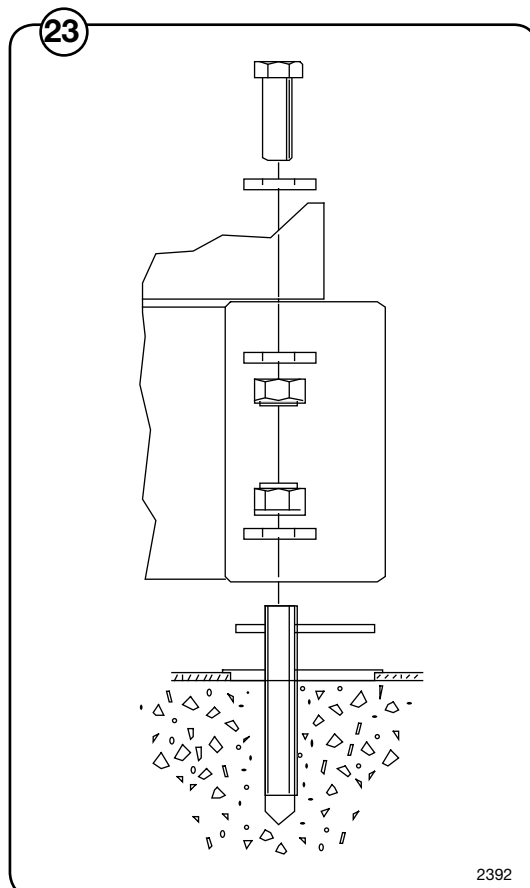
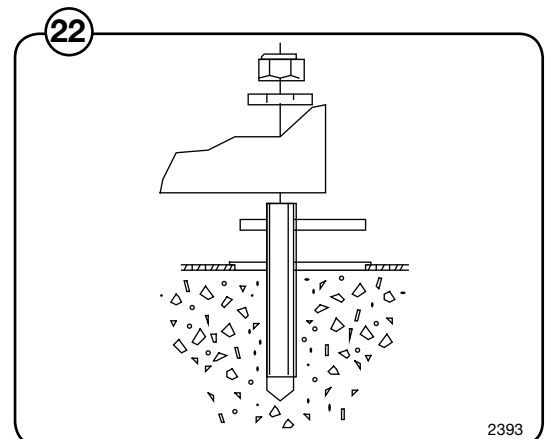
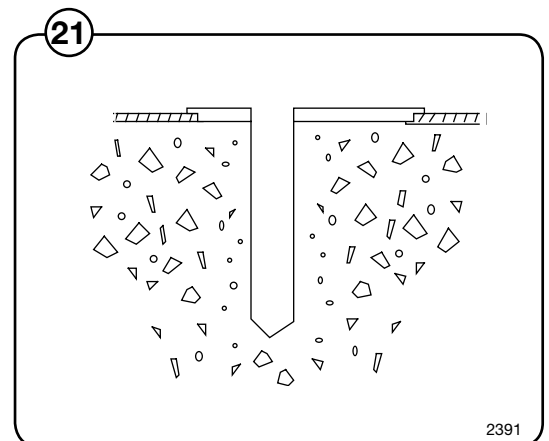
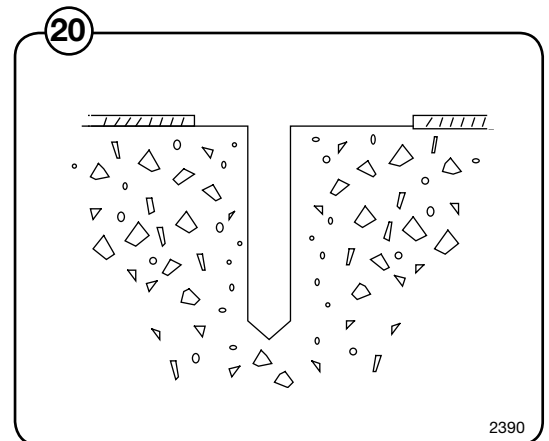
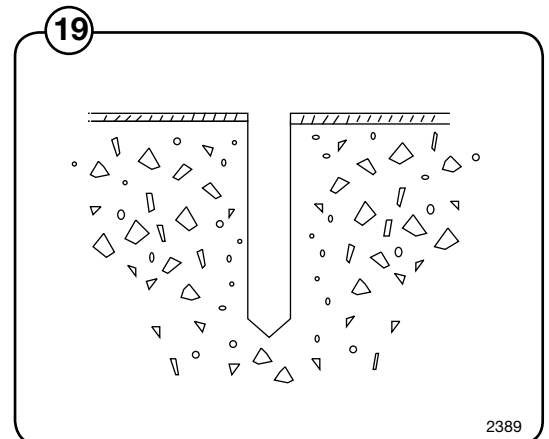
Time for hardening, due to different concrete temperatures.

|        |            |
|--------|------------|
| - 10°C | 6 hours    |
| - 5°C  | 2.5 hours  |
| ± 0°C  | 1 hour     |
| 5°C    | 30 minutes |
| 10°C   | 20 minutes |
| 15°C   | 15 minutes |
| 20°C   | 10 minutes |



## Installation on vinyl floor coverings

- 19 If chemical anchors are to be used, drill holes for the mounting points.
  - 20 Cut the flooring material around the washers (washers and sealant are supplied in installation kit).
  - 21 Apply sealant to the hole cut in the vinyl floor covering. Insert the washer. Use sealant to seal around the washer between the vinyl and the washer.
  - 22 Put the machine into place. Check that the machine is level. If it is not, use spacers where required between floor and machine.
- If chemical anchors are used, do not use the nut and washer supplied with them.
- Fix the machine in place using the washers and nuts supplied with the machine.
- 23 Installation with mounting frame.



## **Installation, ships, oil-rigs, etc**

Leave the machine on the transport pallet until it can be placed in the final, prepared position.

### **Siting**

Install the machine close to a deck drain or open drain.

### **Floor**

In this type of machine, the drum is attached directly to the frame. As a result the deck under the machine must be stable enough to absorb the dynamic forces generated during spin cycles.

The combination deck and foundation must be able to withstand the loads indicated in the table.

Some marine installations have very thin decks. Special attention to be taken. Reinforcing deck plus increased size of foundation may be necessary.

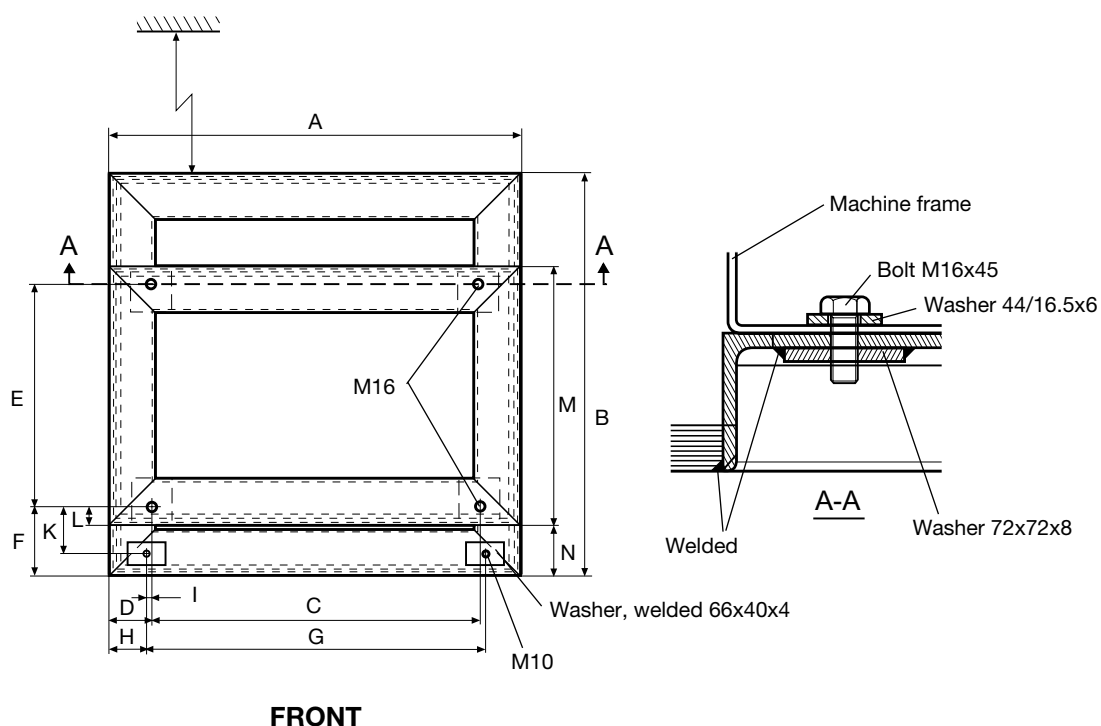
## Welding a foundation

- 24 A welded foundation shall be made where concrete foundation can not be made.

In order to make installation and servicing the machine easier the following clearances are recommended:

- There must be a gap of at least 1000 mm between the machine and the wall behind, and at least 50 mm between machines or walls.

24



1. L-profile, dim. R  
W475N/S-W4130N/S 80x80x8  
W4180N/S-W4330N/S 100x100x10

5837

|                 | A   | B    | C   | D  | E   | F   | G    | H   | I  | K   | L  | M   | N   |
|-----------------|-----|------|-----|----|-----|-----|------|-----|----|-----|----|-----|-----|
| <b>W475N/S</b>  | 660 | 685  | 495 | 80 | 395 | 115 | -    | -   | 0  | -   | 30 | 455 | 85  |
| <b>W485N/S</b>  | 660 | 725  | 495 | 80 | 445 | 115 | 495* | 80* | 0  | 75* | 30 | 505 | 85  |
| <b>W4105N/S</b> | 720 | 700  | 575 | 75 | 385 | 120 | 595* | 65* | 10 | 80* | 30 | 445 | 85  |
| <b>W4130N/S</b> | 720 | 785  | 575 | 75 | 495 | 120 | 595* | 65* | 10 | 80* | 30 | 555 | 85  |
| <b>W4180N/S</b> | 750 | 875  | 635 | 55 | 570 | 120 | 655* | 45* | 10 | 85* | 30 | 630 | 90  |
| <b>W4250N/S</b> | 830 | 950  | 715 | 55 | 635 | 125 | 740* | 45* | 10 | 85* | 30 | 695 | 95  |
| <b>W4330N/S</b> | 910 | 1035 | 790 | 60 | 695 | 135 | 810* | 50* | 10 | 95* | 30 | 755 | 105 |

\* Not N model.

## Installing the machine

To install the machine:

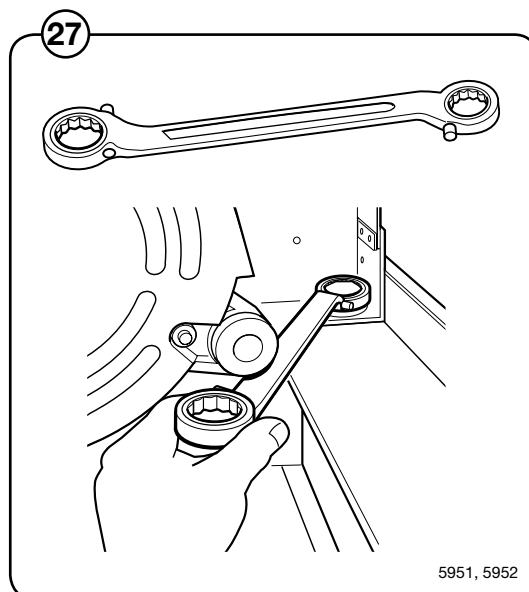
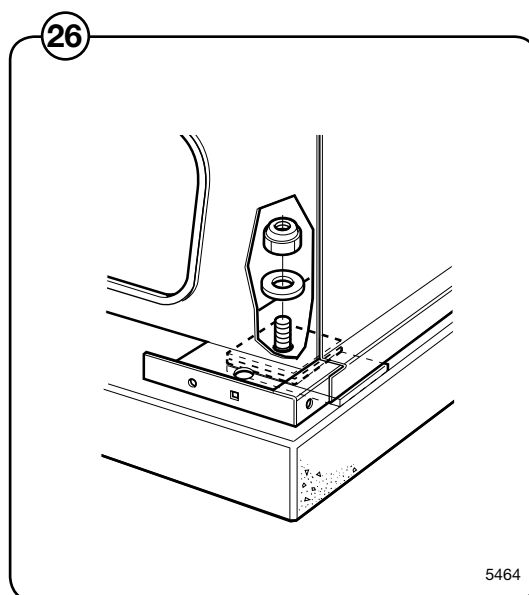
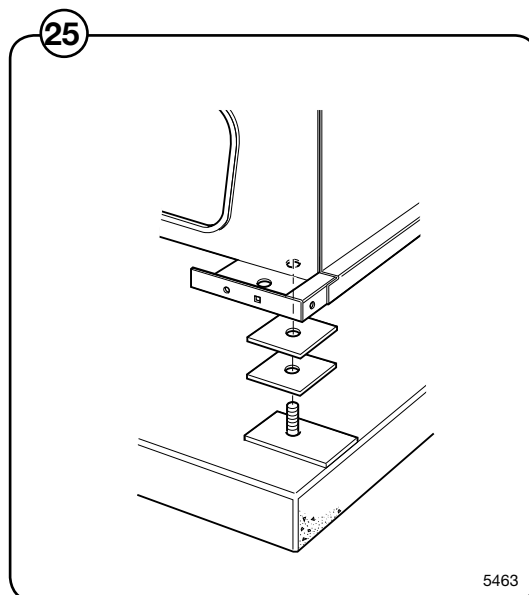
- Remove the transport packaging
- Remove the front panel.
- Remove the machine from the transport pallet and locate it on the bolts. When the machine is lifted off the pallet: Make sure that the machine does not come down on the floor with either of the rear corners first. The side panel of the machine can be damaged. Always lift the machine by the chassis, never by the door or door handle.

- 25 • Check that the machine is level and steady in all four corners mounting points. Adjust the level by using stainless or galvanized steel washers between the machine and the floor. The washers must be of a size to cover the support surface.

- 26 • Fit the washers and self-locking nuts supplied with the machine and tighten well.

- 27 • To tighten the nuts we recommend to use a ratchet wrench, especially in the right rear corner.

After the machine has been in use for a while, check and re-tighten the nuts if necessary.





## Water connections

All intake connections to the machine are to be fitted with manual shut-off valves and filters, to facilitate installation and servicing.

Water pipes and hoses should be flushed clean before installation. After installation hoses should hang in gentle arcs.

**All connectors present on the machine must be connected up.** The table shows the possible connection options, which will depend on the water types to be connected to the machine. Check the machine plates too.

**All water connectors must be connected up**, otherwise the wash program will not function correctly.

Hoses are to be of an approved type and grade and comply with IEC 61770.

Machines shall be connected with new water hoses. Re-used water hoses must not be used.

The water pressure data is as follows:

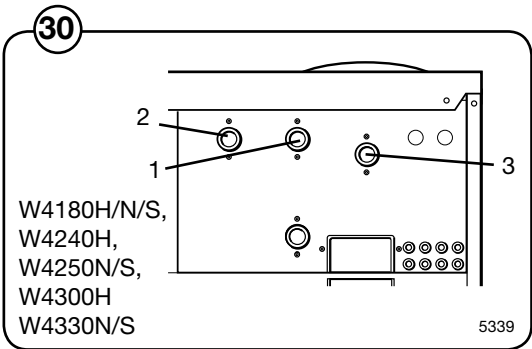
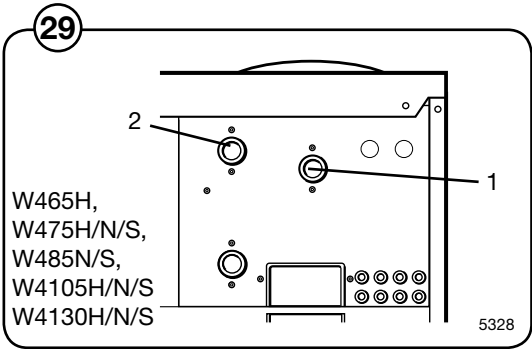
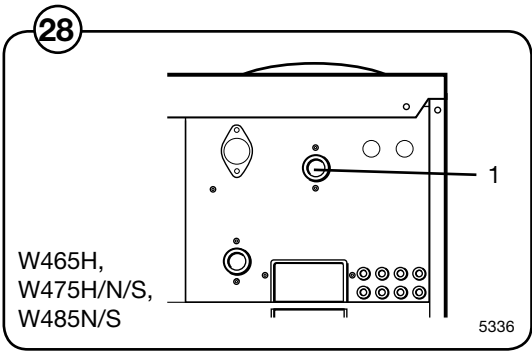
- min: 50 kPa (0,4 kp/cm<sup>2</sup>)
- max: 1 MPa (10 kp/cm<sup>2</sup>)
- recommended: 200-600 kPa (2-6 kp/cm<sup>2</sup>)



**If the water pressure is below the min. value, the wash result can not be guaranteed for certain program.**

|    | Water type   | Water connection |     |           |
|----|--------------|------------------|-----|-----------|
|    |              | 1                | 2   | 3         |
| 28 | cold         | cold             |     |           |
| 29 | cold and hot | cold             | hot |           |
| 30 | cold and hot | cold             | hot | cold*/hot |

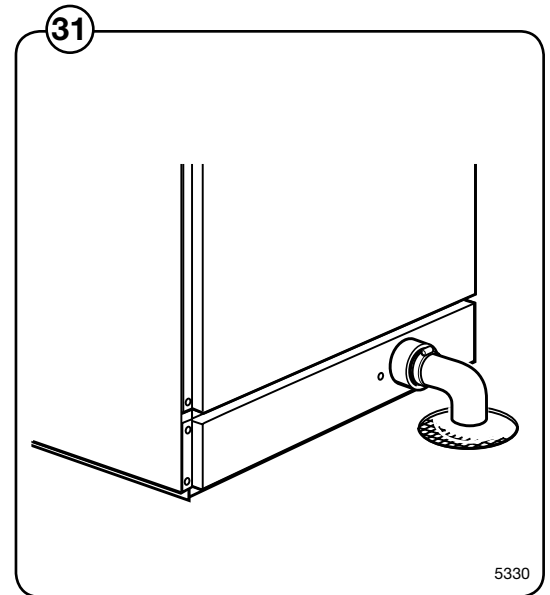
\* For detergent container



## Drain connection

Connect a 75 mm (3") (alt. 50 mm, 2" and only W465-W4105) pipe or rubber hose to the machine's drain pipe, ensuring a downward flow from the machine. Avoid sharp bends which may prevent proper draining.

- 31 The drainage pipe should be located over a floor drain, drainage channel or the like so that the distance between the outlet and the drain is at least 25 mm (1").



### Steam connection

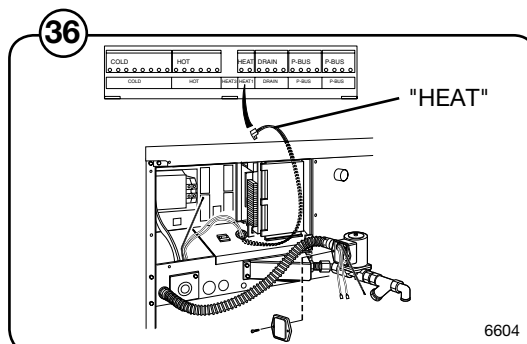
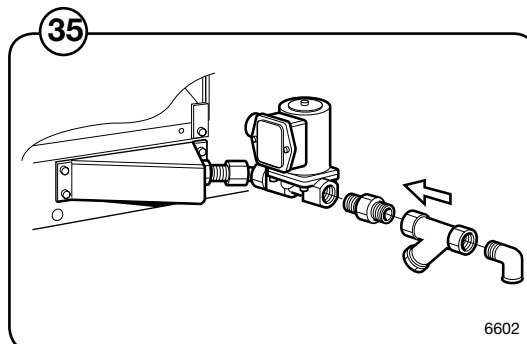
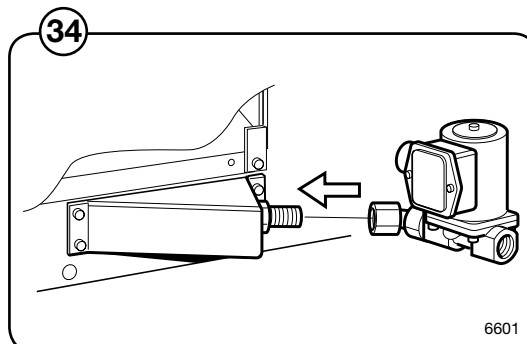
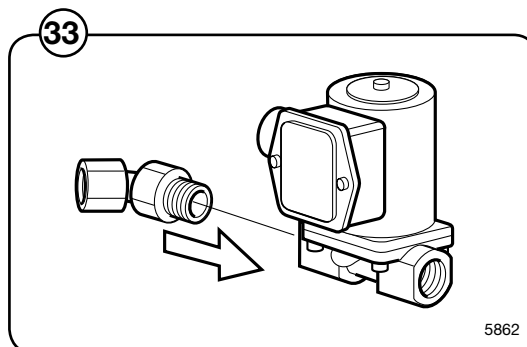
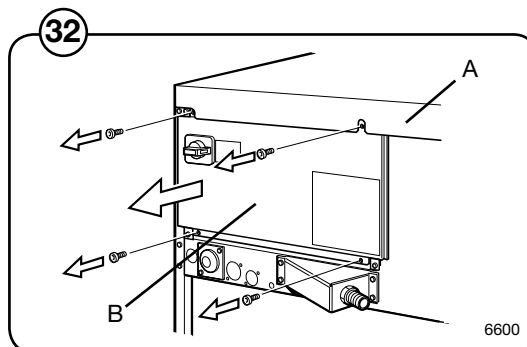
Inlet pipes connected to the machine must be equipped with a manual shut-off valve to facilitate installation and servicing.

The connection hose must be of type ISO/1307-1983 or equivalent. Connection size at filter: DN 15 (BSP 1/2").

Steam pressure required:

- minimum: 50 kPa (0.5 kp/cm<sup>2</sup>)
- maximum: 800 kPa (8 kp/cm<sup>2</sup>)
- rec. pressure: 600 kPa (6 kp/cm<sup>2</sup>)

- 32 • Remove top cover (A).
- Remove casing (B).
- 33 • Mount the articulated nipple to the steam valve.
- 34 • Mount the steam valve on the machine.
- 35 • Mount nipple, strainer and elbow. Note the direction of the strainer. Mount steam hose to the elbow.  
Check that there are no sharp angles or bends on the connected steam hose.
- 36 • Mount the hose with wires between steam valve and machine.  
Connect wires in the steam valve.  
Connect ground cable to the terminal ground connection.  
Connect the "HEAT" cable connector to the "HEAT" terminal on the I/O board.



## Connection of external liquid supplies



**The external dosing equipment power supply must never be connected to the machine's incoming terminal block.**

### Machines fitted with connectors

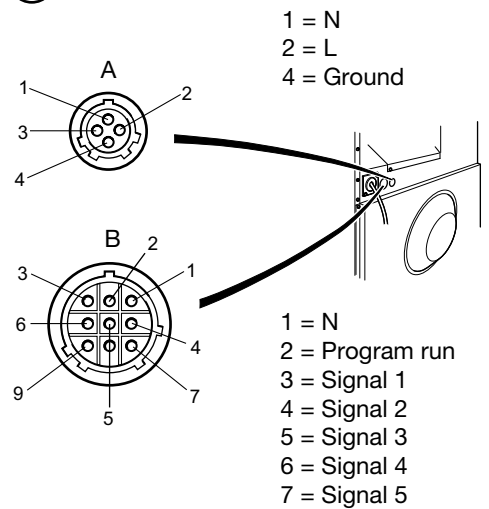
- 37
- Connect the pump equipment to connections A and B on the washing machine. Connect the signal cable to B and the power supply to A.

### Machines without connectors

- Connect the external pump equipment for liquid washing detergent to the I/O board, which is located to the right of the incoming power supply. The I/O card has edge connectors for connecting external pumps.
- 38
- Edge connectors on the I/O board can be loosened for connecting cables.

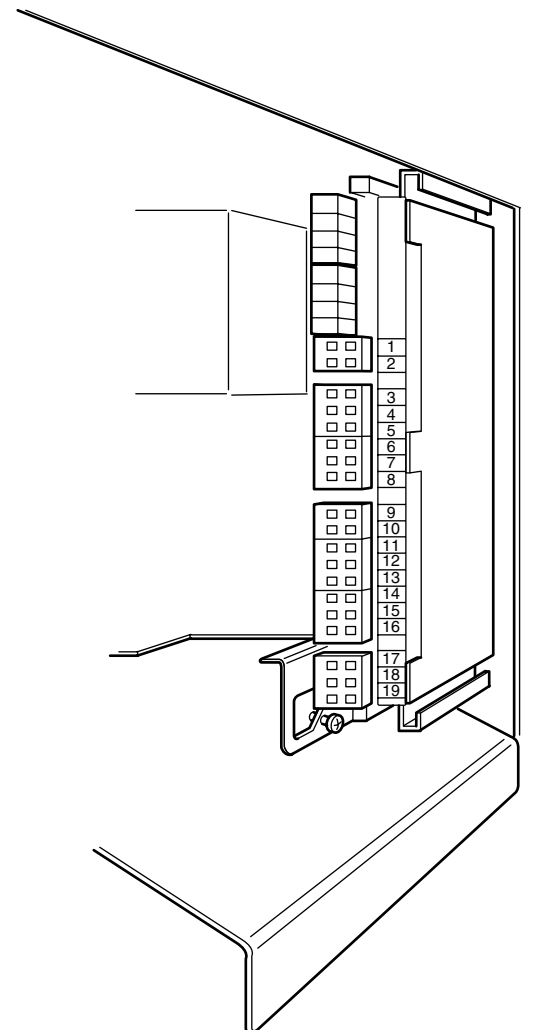
11 = N  
18 = Program run  
12 = Signal 1  
13 = Signal 2  
14 = Signal 3  
15 = Signal 4  
16 = Signal 5

37



6598

38

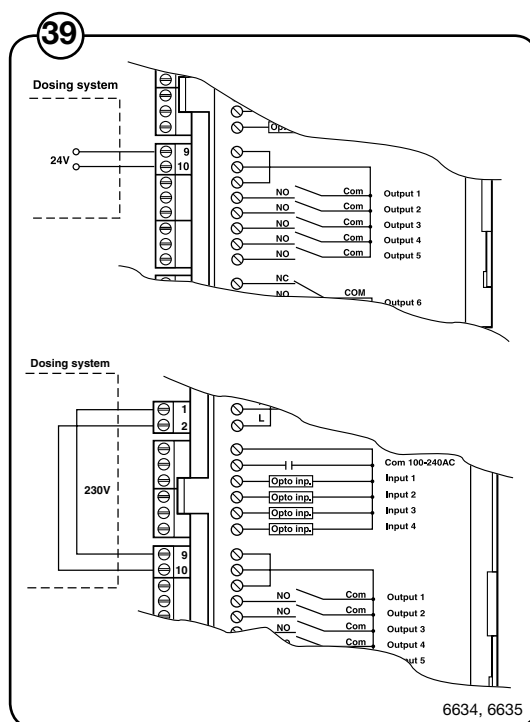


6572

## Outputs

- 39
- Connect external power supply (e.g. 24V DC) for pumps to 9 and 10. If an internal power supply (from the washing machine) is being used, it can be taken from 1 (N) and connected to 9 and from 2 (L) and connected to 10. Max load on the outputs 0.5 A.
- 40
- Signals for pumps 1-5 are connected to 12-16 where connector
 

|    |                            |
|----|----------------------------|
| 12 | Washing detergent signal 1 |
| 13 | Washing detergent signal 2 |
| 14 | Washing detergent signal 3 |
| 15 | Washing detergent signal 4 |
| 16 | Washing detergent signal 5 |
  - The programs on the machine can be found on the machine's data plate.

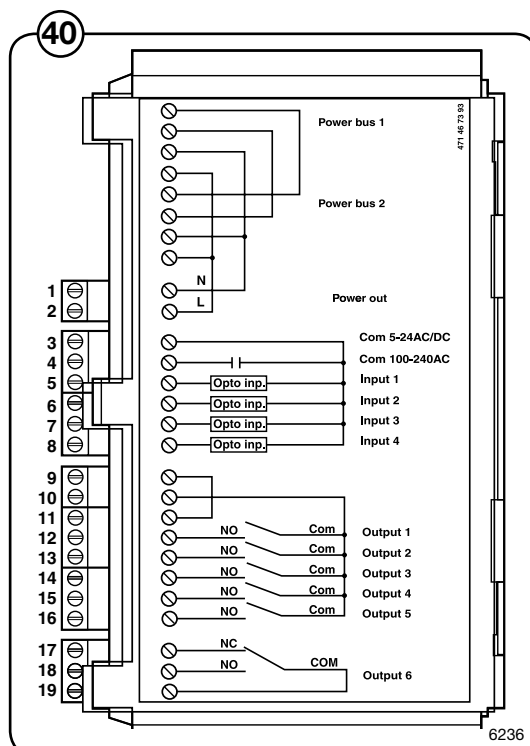


|          | 3M14*          | 3F01*        | 3R01*           | 3F02*    | Other programs |
|----------|----------------|--------------|-----------------|----------|----------------|
| Signal 1 | –              | Prewash      | Prewash         | Prewash  | Prewash        |
| Signal 2 | Mainwash       | Mainwash     | Mainwash        | Mainwash | Mainwash       |
| Signal 3 | Softener       | Softener     | Softener        | Softener | Softener       |
| Signal 4 | Mop last rinse | Desinfection | Pr 1 last rinse | Mainwash | –              |
| Signal 5 | Bleach         | Bleach       | Bleach          | Bleach   | Bleach         |

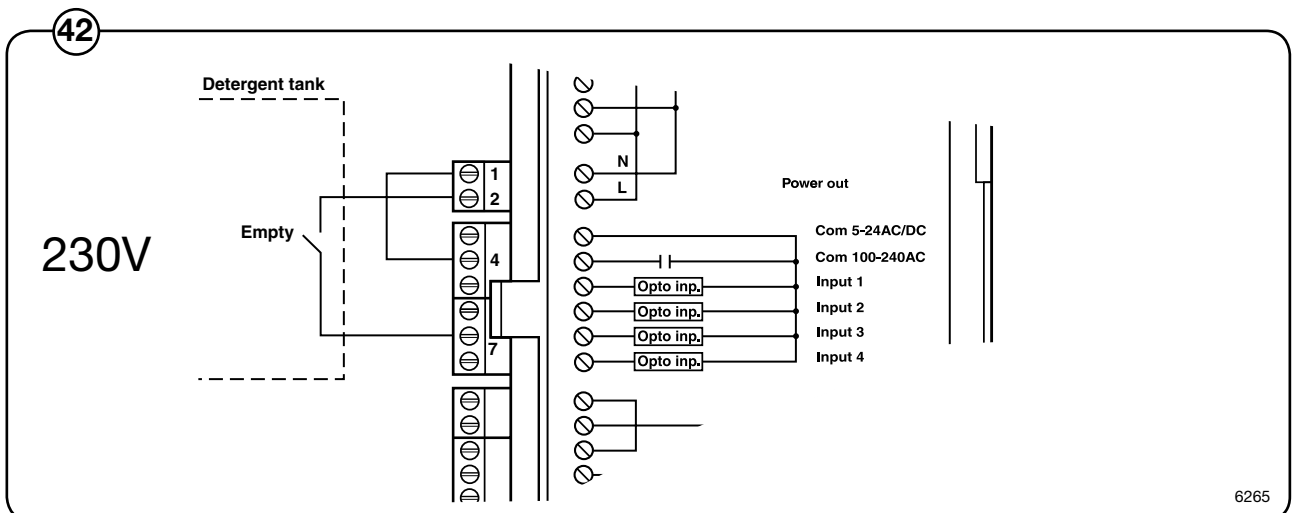
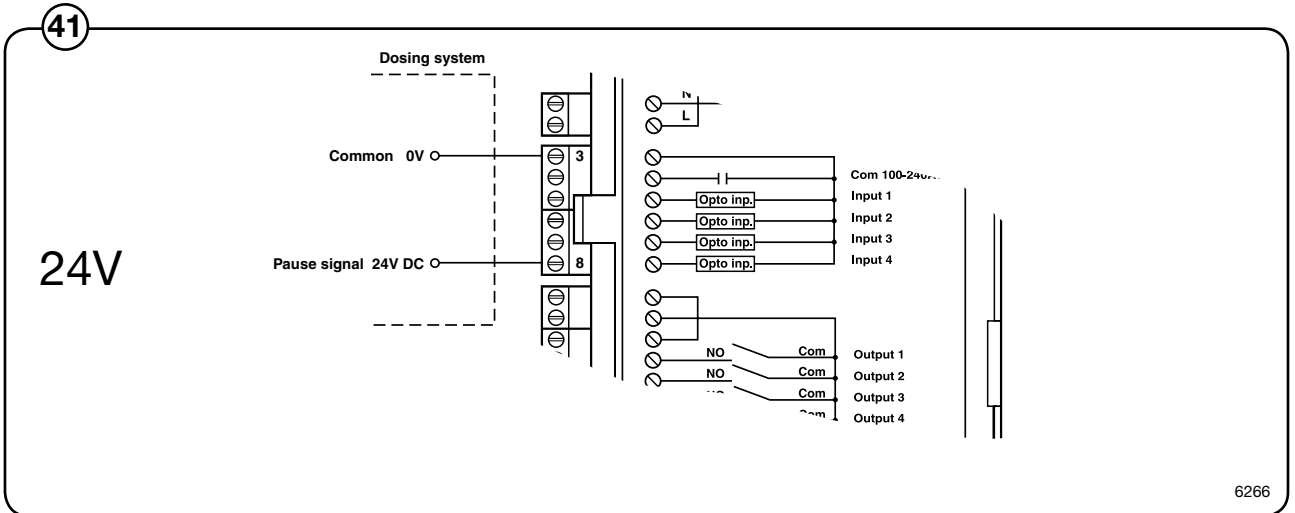
\* M= Mop, F = Farm, R = Restaurant

## Inputs

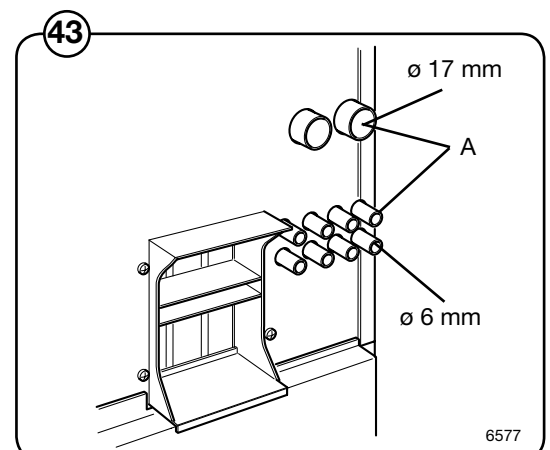
- The signal level can be 5-24V DC/AC or 100-240V AC. For 5-24V, the signal reference is connected to 3 and for 100-240V to 4. Potentials on the inputs cannot be mixed. NB! The I/O board will be damaged if the voltage on connection 3 is too high, >24V.



- 41 • Connection 8 may be connected if the washing program is to pause, e.g. while washing detergent is being dosed.  
The figure shows an example of engaging a 24V pause signal.  
The washing program will pause for as long as the pause signal remains activated (high).



- 42 • Connection 7. If this is connected, an error message will be displayed indicating that one of the chemical tanks is empty. The washing program will continue, however.  
The figure shows an example of engaging a normal open contact.
- 43 • Connect the liquid dosing hoses to any of the connections marked A.  
Open the liquid connections by drilling (ø 6 mm alt. ø 17 mm) where hoses shall be connected.

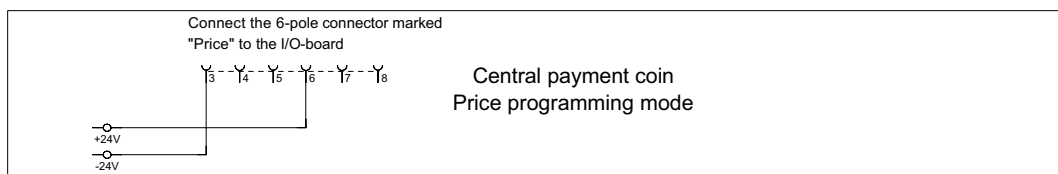
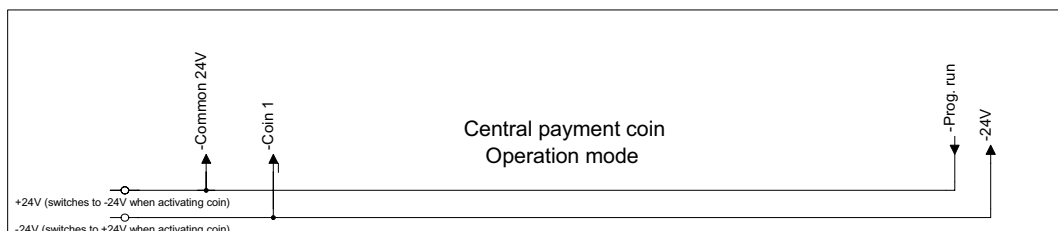
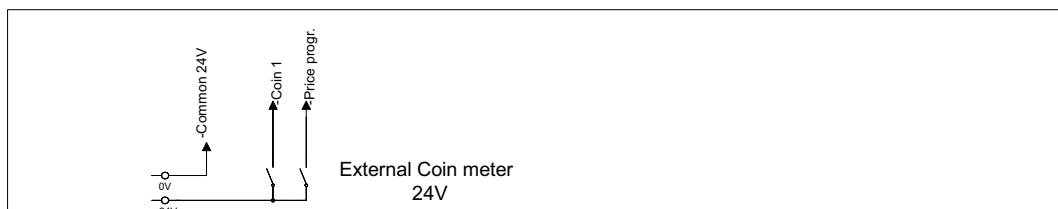
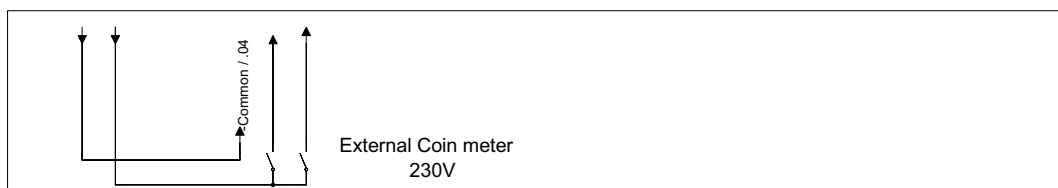
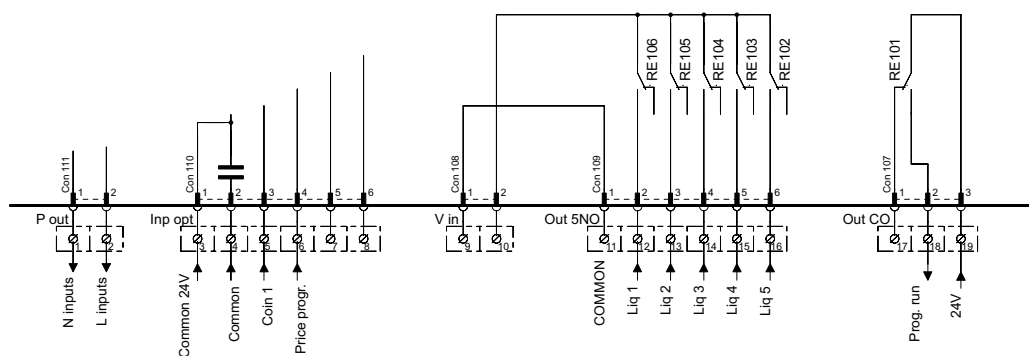


## Functions for I/O -cards

The electrical schematic can have one of the following: 22A, 22B, 22C, 22D, 22E, 22F or 22G.

### 22A

|                  |   |
|------------------|---|
| Type of I/O card | 2 |
| Address          | 2 |
| Function I/O:s   | A |



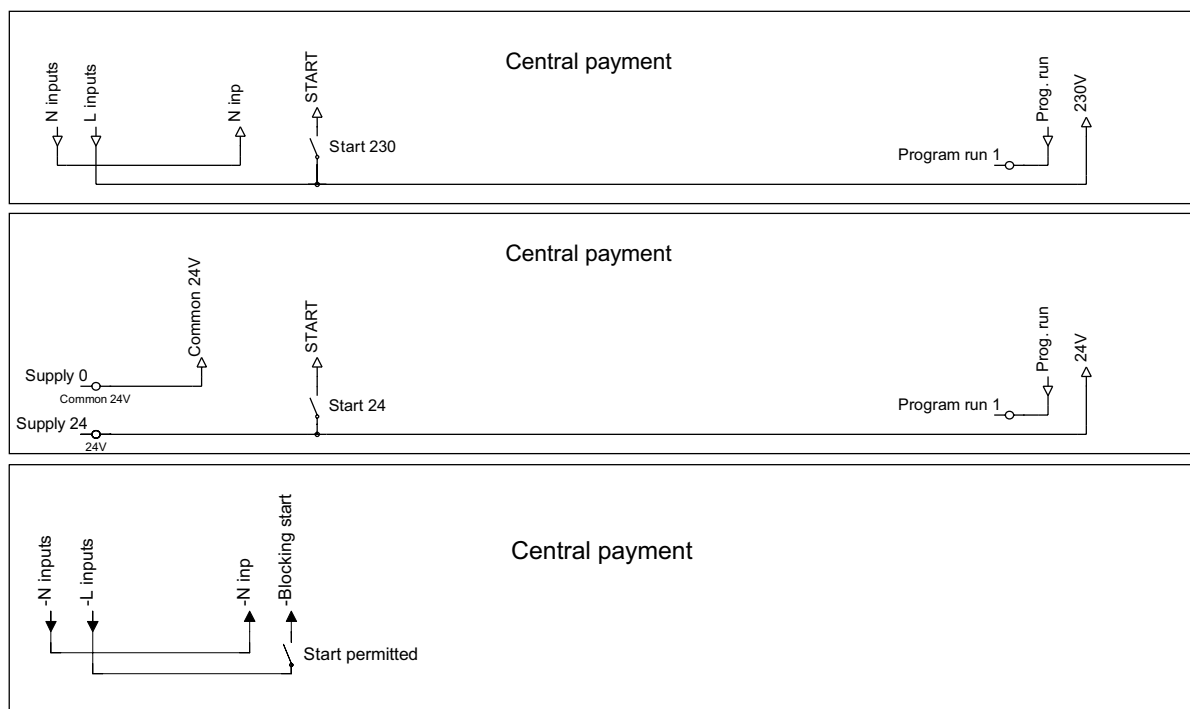
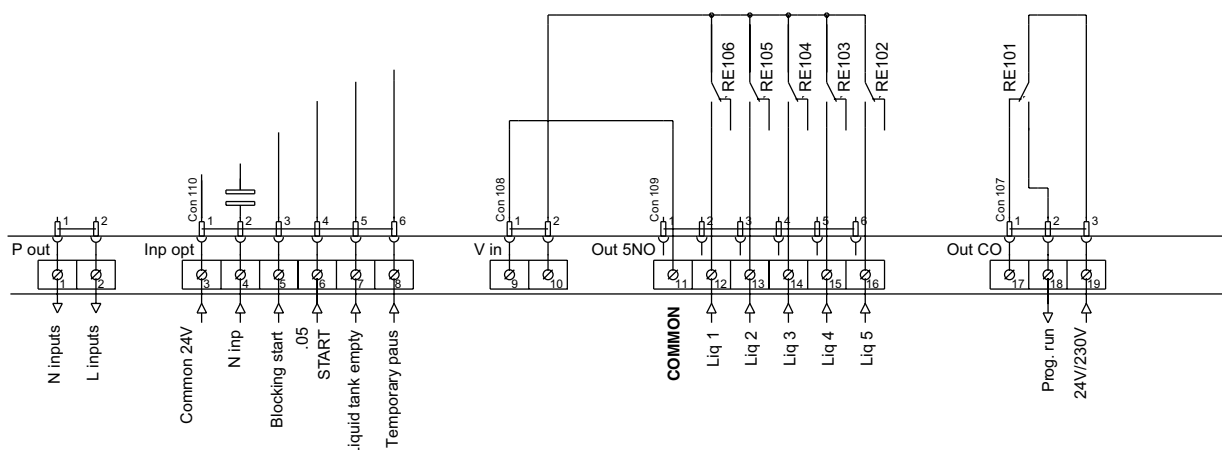
6606

- The signal received from external slot meters must be a pulse.  
In order to count down prices, the signal initiating the programming procedure must be active (high).



## 22B

|                  |   |
|------------------|---|
| Type of I/O card | 2 |
| Address          | 2 |
| Function I/O:s   | B |

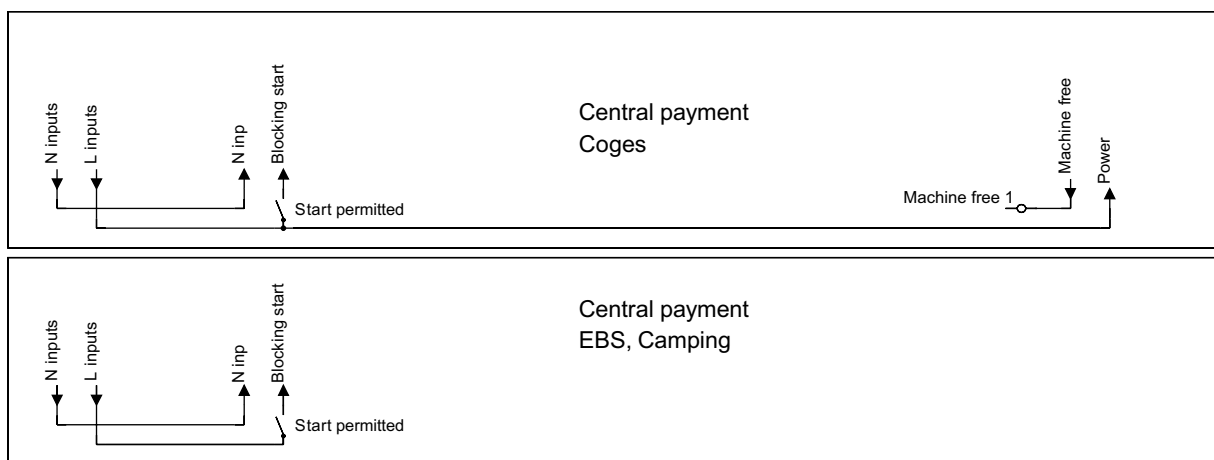
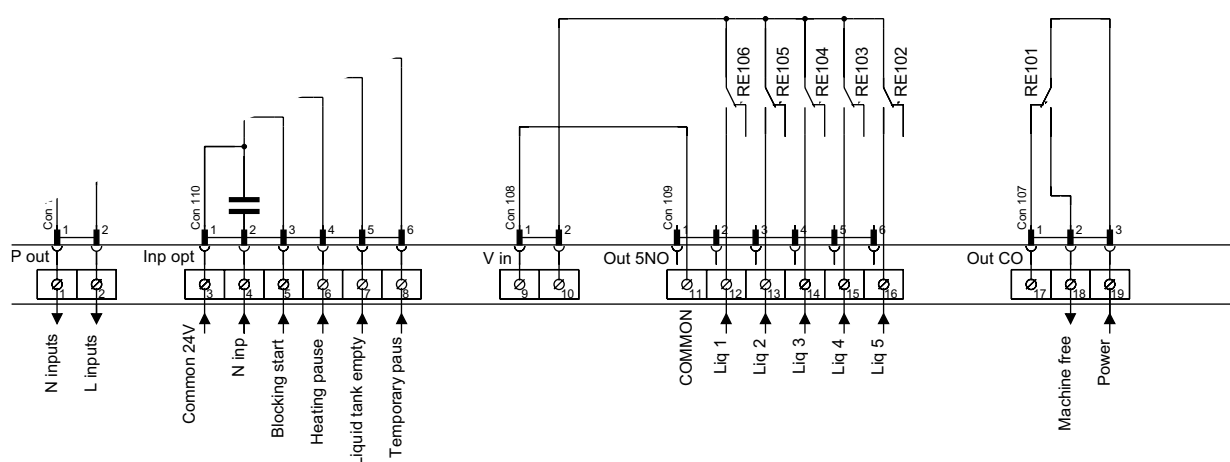


6316

- To start the machine from a central payment system, the payment system must transmit a start pulse to the machine. Door lock activates on positive flank and program starts on negative flank of start pulse. The start pulse can be either 230V or 24V. In order to receive a feedback signal once the machine has started, 230V or 24V must be connected to connection 19. The feedback signal on connection 18 remains active (high) during the entire wash program.

## 22C

|                  |   |
|------------------|---|
| Type of I/O card | 2 |
| Address          | 2 |
| Function I/O:s   | C |

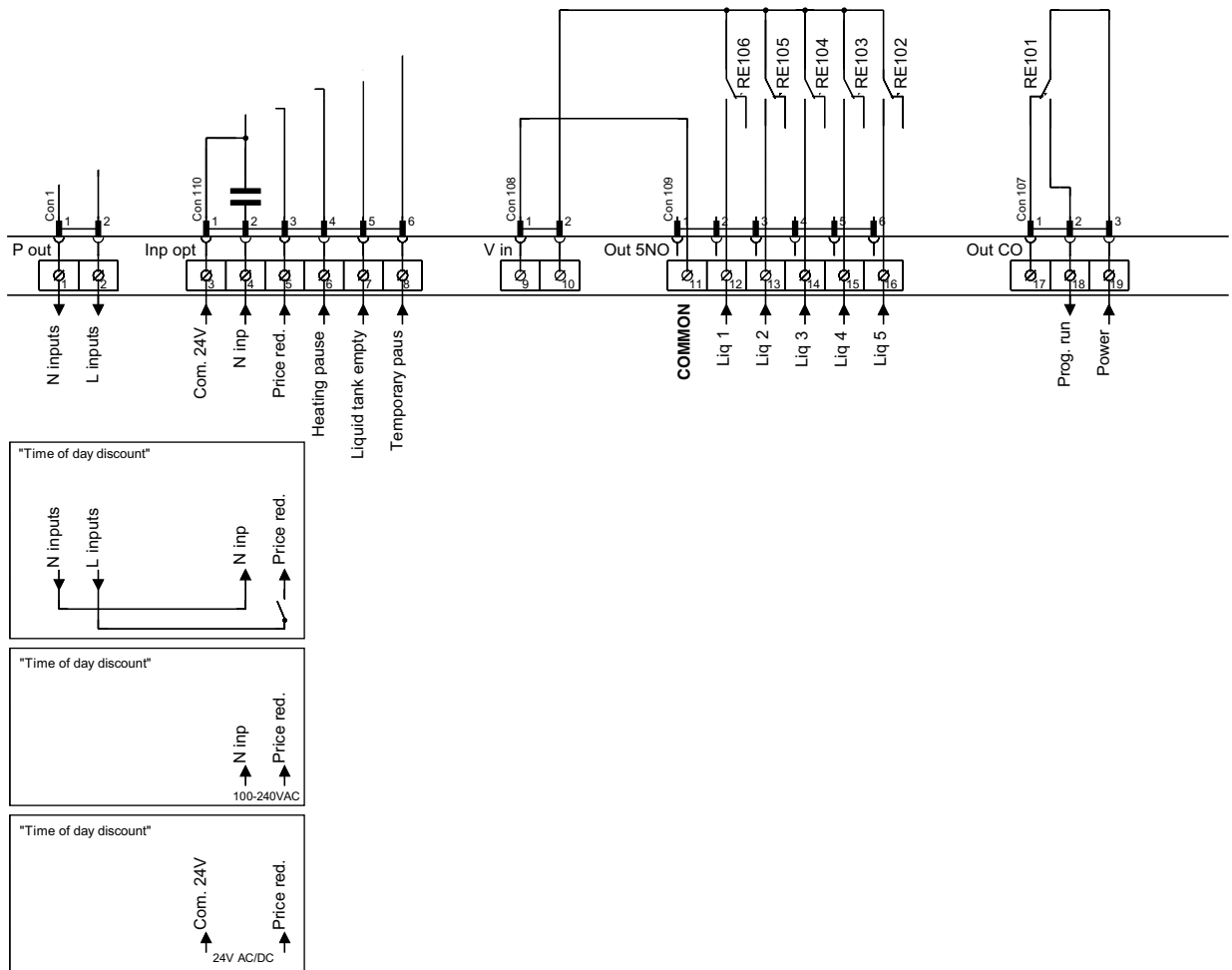


6313

- The central payment or booking system shall transmit an active (high) signal to the washing machine once permission has been granted to start the machine. The signal must remain active (high) until the machine starts. A feedback signal will be present on connection 18 and remain active (high) whilst the machine door is closed but the wash program has not started. The feedback signal is powered by 230V or 24V from connection 19.

## 22D

|                  |   |
|------------------|---|
| Type of I/O card | 2 |
| Address          | 2 |
| Function I/O:s   | D |

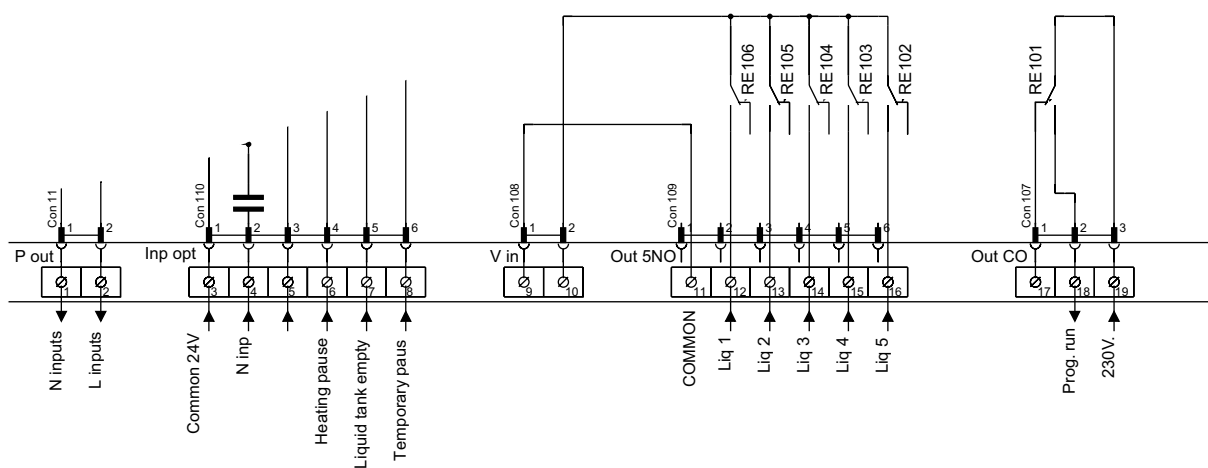


6314

- The figure shows standard function addressing for machines with the 3L41 program package.
- By maintaining an activated (high) signal on connection 5 ("Price red"), the price of the wash program can be reduced. This function has a number of uses, including providing reductions during a specific period of the day. Whilst the signal remains active (high), the price of the wash program is reduced by the percentage entered in the price programming menu.

## 22E

|                  |   |
|------------------|---|
| Type of I/O card | 2 |
| Address          | 2 |
| Function I/O:s   | E |

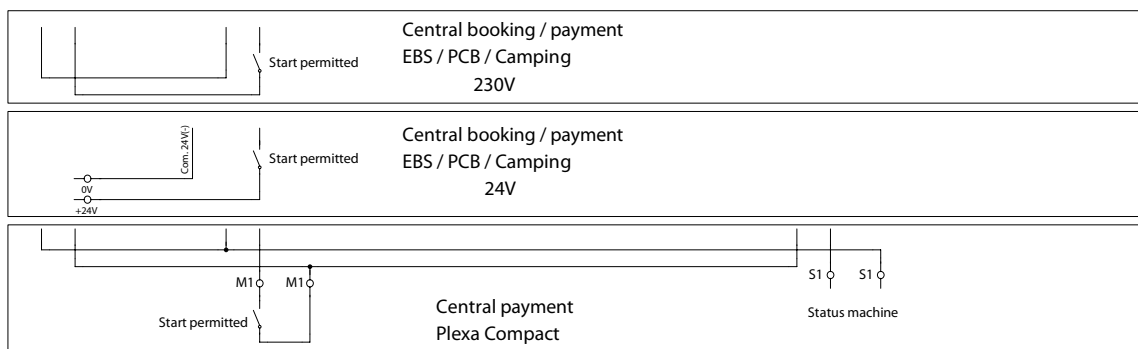
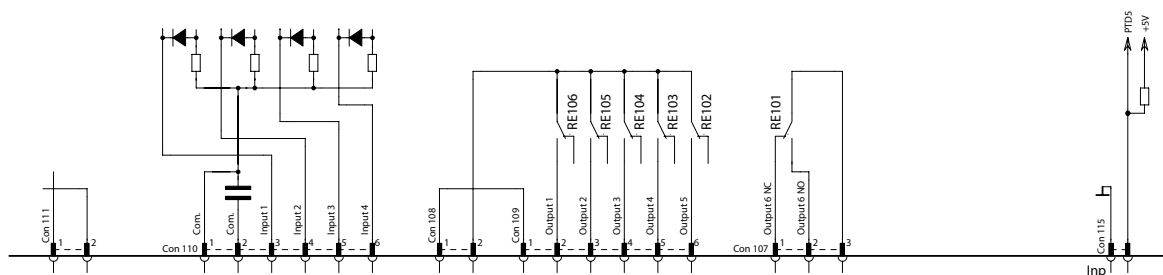


6315

- Heating pause: By connecting a signal to connection 6, you can pause operation of the machine whilst it heats up. The machine will pause for as long as the pause signal remains active (high).

## 22F

|                  |   |
|------------------|---|
| Type of I/O card | 2 |
| Address          | 2 |
| Function I/O:s   | F |

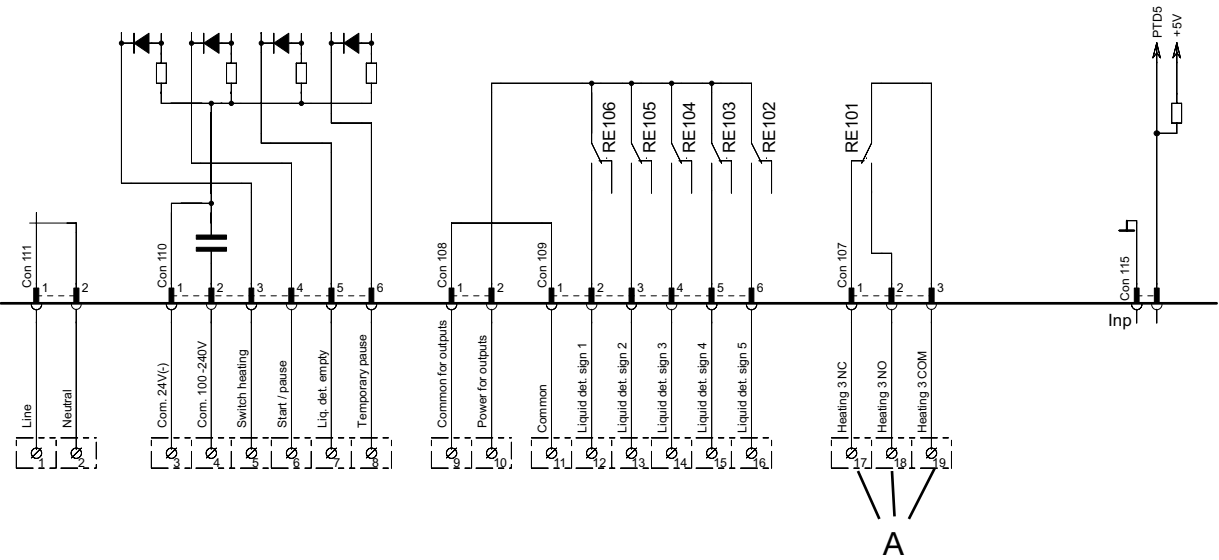


6944

- The central payment or booking system shall transmit an active (high) signal to the washing machine once permission has been granted to start the machine. The signal must remain active (high) until the machine starts. A feedback signal will be present on connection 18 and remain active (high) whilst the wash program is running. The feedback signal is powered by 230V from connection 19 or external 24V.

22G

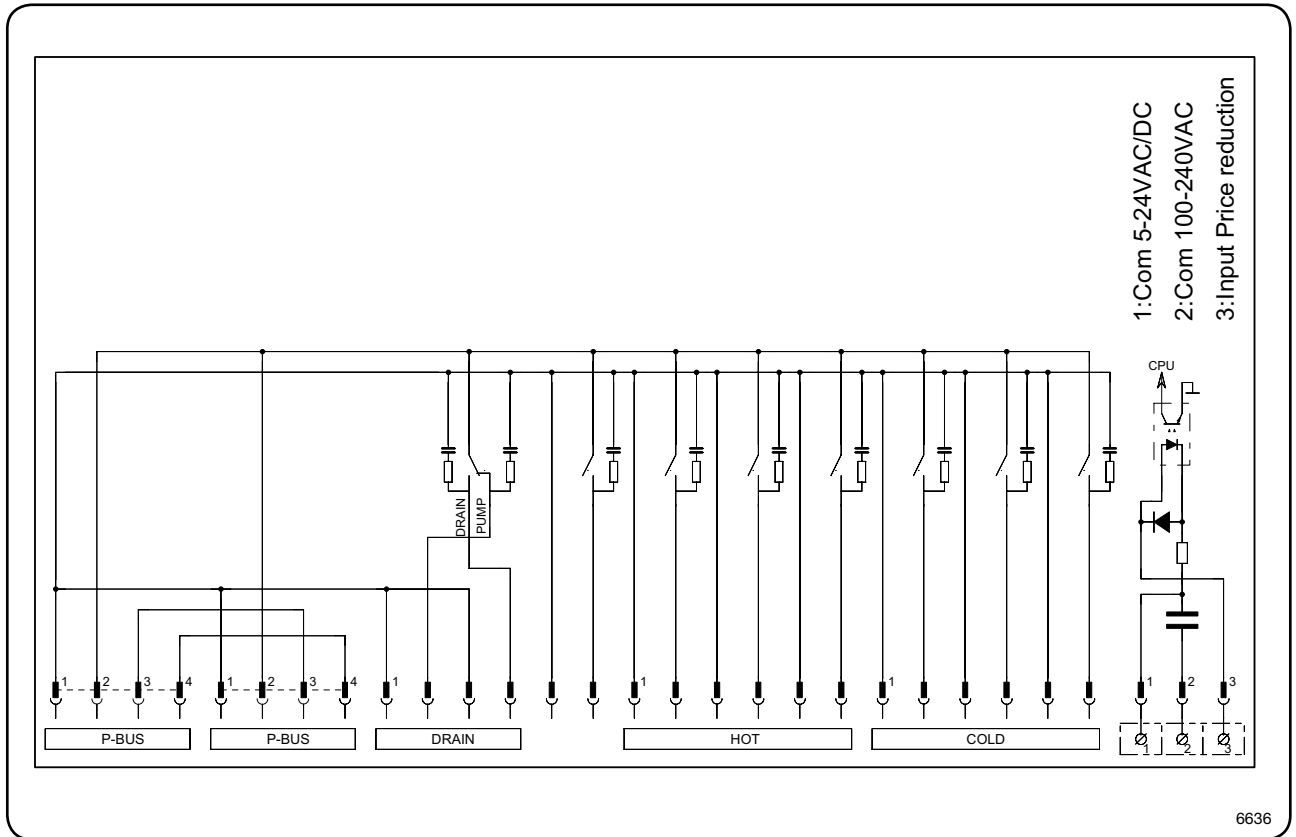
|                  |   |
|------------------|---|
| Type of I/O card | 2 |
| Address          | 2 |
| Function I/O:s   | G |



6637

- Gas heating unit must be connected to connections 17, 18 and 19.

## Machines with type 3 I/O



6636

- By maintaining an activated (high) signal on connection 3 ("Price red"), the price of the wash program can be reduced. This function has a number of uses, including providing reductions during a specific period of the day. Whilst the signal remains activated (high), the price of the wash program is reduced by the percentage entered in the price programming menu.

## Electrical installation



**Electrical installation must be carried out by an authorized personnel!**



**Machines with frequency-controlled motors can be incompatible with certain types of earth leakage circuit breaker. It is important to know that the machines are designed to provide a high level of personal safety, which is why items of external equipment such as earth leakage circuit breakers are not necessary. If you still want to connect your machine across an earth leakage circuit breaker, please remember the following:**

- **contact a skilled, authorised installation company to ensure that the appropriate type of breaker is chosen and that the dimensioning is correct**
- **for maximum reliability, connect only one machine per earth leakage circuit breaker**
- **it is important that the earth wire is properly connected, including to the earth leakage circuit breaker.**

In instances where the machine is not equipped with an omni-polar switch, one must be installed beforehand.

Mount a multi-pole switch prior to the machine to facilitate installation and service operations.

The connecting cable should hang in a gentle curve.

Fuse size, see table.

When connecting to a terminal block, the connection cable shell must be stripped 10-11 mm. The cable area must be at least 0.5 mm<sup>2</sup> and no more than 4 mm<sup>2</sup> (AWG12/AWG20). The terminal block used is a spring loaded cage clamp.

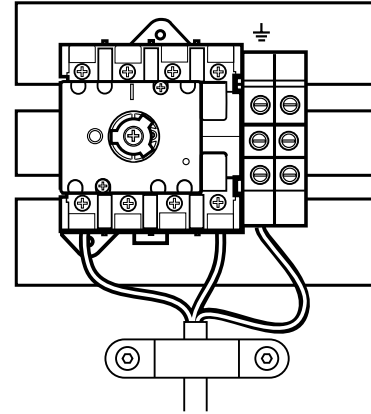
### Single-phase connection:

44

Connect the earth and other two wires as shown in example in the figure.

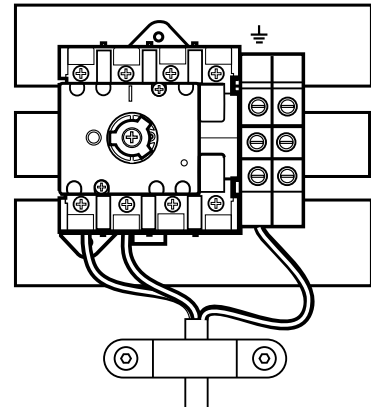
44

1NAC



5332

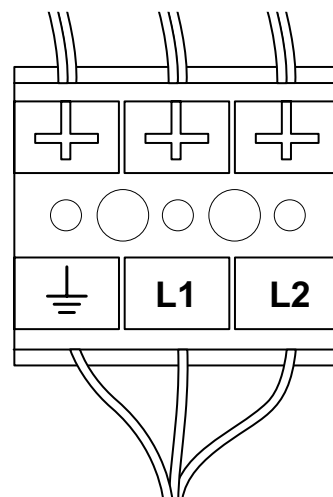
1AC



5333A

or

1AC



6524



## Three-phase connection:

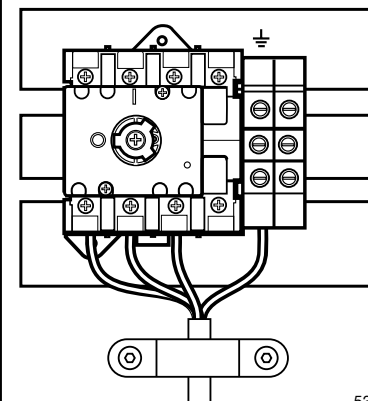
- ④⑤ Connect the earth, neutral and phase wires as shown in example "3AC" and "3N AC" in the figure.

When the installation is completed, check:

- that the drum is empty.
- that the machine operates by turning on the mains switch, starting the machine and using RAPID ADVANCE to reach the spin cycle (see operations manual).

④⑤

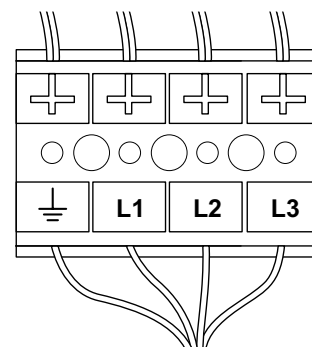
3AC



5333

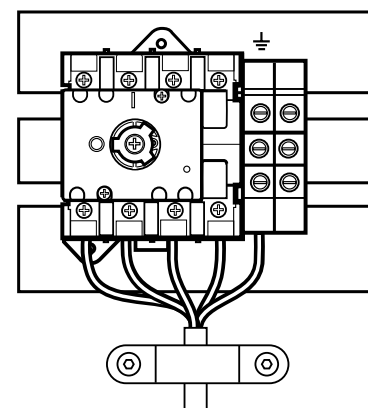
or

3AC



6525

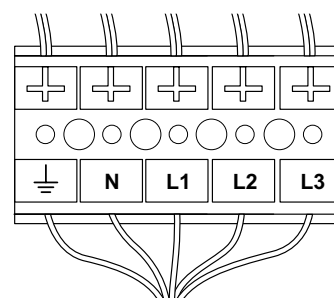
3N AC



5334

or

3N AC



6526

**W465H**

| Heating<br>alternative            | Voltage<br>alternative    | Total<br>kW | Fuse<br>A |
|-----------------------------------|---------------------------|-------------|-----------|
| No heating<br>or Steam<br>heating | 200 V 3 AC                | 1           | 10        |
|                                   | 208-240 V 1 AC            | 1           | 10        |
| El heating                        | 200 V 3 AC                | 5.6         | 20        |
|                                   | 220-240 V 1 AC            | 2.2         | 16        |
|                                   | 220-240 V 1 AC            | 3.2         | 16        |
|                                   | 230/240 V 1 AC            | 4.4         | 20        |
|                                   | 220-240 V 1 AC            | 7.3         | 35        |
|                                   | 220-240 V 3 AC            | 3.2         | 10        |
|                                   | 220-240 V 3 AC            | 7.3         | 20        |
|                                   | 240 V 1 AC                | 5.4         | 25        |
|                                   | 230/240 V 3 AC            | 4.4         | 16        |
|                                   | 230/240 V 3 AC            | 5.8         | 16        |
|                                   | 380-415 V 3/3N AC         | 3.2         | 10        |
|                                   | 400/415 V 3/3N AC         | 4.4         | 10        |
|                                   | 380/400/415 V 3/3N AC     | 5.8         | 10        |
|                                   | 380-415 V 3/3N AC         | 7.3         | 16        |
|                                   | 440/480 V 3 AC            | 7.9         | 16        |
|                                   | 380-415/220-240 V 3/3N AC | 7.3         | 16/20     |
|                                   | 415/240 V 3N/3/1 AC       | 7.9/5.4     | 16/25     |

## W475H

| Heating<br>alternative | Voltage<br>alternative    | Total<br>kW | Fuse<br>A |
|------------------------|---------------------------|-------------|-----------|
| No heating             | 100-120 V 1 AC            | 1.1         | 16        |
| or Steam               | 200 V 3 AC                | 1.1         | 10        |
| heating                | 208-240 V 1 AC            | 1.1         | 10        |
| El heating             | 200 V 3 AC                | 5.6         | 20        |
|                        | 220-240 V 1 AC            | 2.3         | 16        |
|                        | 220-240 V 1 AC            | 3.2         | 16        |
|                        | 230/240 V 1 AC            | 4.4         | 20        |
|                        | 240 V 1 AC                | 5.4         | 25        |
|                        | 220-240 V 1 AC            | 5.4         | 25        |
|                        | 220-240 V 1 AC            | 7.4         | 35        |
|                        | 220-240 V 3 AC            | 3.2         | 10        |
|                        | 230/240 V 3 AC            | 4.4         | 16        |
|                        | 220-240 V 3 AC            | 5.4         | 16        |
|                        | 220-230 V 3 AC            | 7.0         | 20        |
|                        | 220-240 V 3 AC            | 7.4         | 25        |
|                        | 380-415 V 3/3N AC         | 3.2         | 10        |
|                        | 400/415 V 3/3N AC         | 4.4         | 10        |
|                        | 380-415 V 3/3N AC         | 5.4         | 10        |
|                        | 380-415 V 3/3N AC         | 7.4         | 16        |
|                        | 440/480 V 3 AC            | 7.9         | 16        |
|                        | 380-415/220-240 V 3/3N AC | 7.4         | 16/25     |
|                        | 415/240 V 3/3N/1 AC       | 7.9/5.4     | 16/25     |

**W4105H**

| Heating<br>alternative | Voltage<br>alternative    | Total<br>kW | Fuse<br>A |
|------------------------|---------------------------|-------------|-----------|
| No heating             | 200 V 3 AC                | 1.3         | 10        |
| or Steam               | 208-240 V 1 AC            | 1.3         | 10        |
| heating                |                           |             |           |
| El heating             | 200 V 3 AC                | 5.6         | 20        |
|                        | 220-240 V 3 AC            | 3.2         | 16        |
|                        | 240 V 1 AC                | 7           | 35        |
|                        | 220-240 V 1 AC            | 7.4         | 35        |
|                        | 220-240 V 1 AC            | 9.7         | 50        |
|                        | 220-240 V 3 AC            | 3.2         | 10        |
|                        | 220-240 V 3 AC            | 7.4         | 25        |
|                        | 208-240 V 3 AC            | 9.2         | 35        |
|                        | 220-240 V 3 AC            | 9.7         | 35        |
|                        | 380-415 V 3/3N AC         | 3.2         | 10        |
|                        | 380-415 V 3/3N AC         | 7.4         | 16        |
|                        | 380-415 V 3/3N AC         | 9.7         | 16        |
|                        | 440/480 V 3 AC            | 7.9         | 16        |
|                        | 440/480 V 3 AC            | 10.5        | 16        |
|                        | 380-415/220-240 V 3/3N AC | 7.4         | 16/25     |
|                        | 380-415/220-240 V 3/3N AC | 9.7         | 16/35     |
|                        | 415/240 V 3/3N AC         | 7.9/5.5     | 16/25     |
|                        | 415/240 V 3/3N AC         | 10.5/5.7    | 16/35     |

## W4130H

| Heating<br>alternative | Voltage<br>alternative | Total<br>kW | Fuse<br>A |
|------------------------|------------------------|-------------|-----------|
| No heating<br>or Steam | 200 V 3 AC             | 1.3         | 10        |
| heating                | 208-240 V 1 AC         | 1.6         | 10        |
| EI heating             | 200 V 3 AC             | 9.5         | 35        |
|                        | 220-240 V 1 AC         | 12.5        | 63        |
|                        | 208-240 V 3 AC         | 11.8        | 35        |
|                        | 220-240 V 3 AC         | 12.5        | 35        |
|                        | 380-415 V 3N/3 AC      | 12.5        | 20        |
|                        | 415 V 3N AC            | 12.5        | 25        |
|                        | 440/480 V 3 AC         | 13.5        | 20        |
|                        | 380-415/220-240 V 3N/3 | 12.5        | 20/35     |

**W4180H**

| Heating<br>alternative | Voltage<br>alternative    | Total<br>kW | Fuse<br>A |
|------------------------|---------------------------|-------------|-----------|
| No heating             | 200 V 3 AC                | 2.3         | 16        |
| or Steam<br>heating    | 208-240 V 1 AC            | 2.3         | 16        |
| El heating             | 240 V 1 AC                | 12.9        | 63        |
|                        | 200 V 3 AC                | 13.4        | 50        |
|                        | 220-240 V 3 AC            | 11.1        | 50        |
|                        | 220-240 V 3 AC            | 17.5        | 50        |
|                        | 380-415 V 3N/3 AC         | 17.5        | 35        |
|                        | 440/480 V 3 AC            | 18.9        | 35        |
|                        | 380-415/220-240 V 3N/3 AC | 17.5        | 35/50     |
|                        | 380-415/220-240 V 3N/3 AC | 11.1        | 35/50     |
|                        | 415/240 V 3N/3/1          | 18.9/12.9   | 35/63     |

**W4240H**

| Heating<br>alternative | Voltage<br>alternative | Total<br>kW | Fuse<br>A |
|------------------------|------------------------|-------------|-----------|
| No heating             | 200 V 3 AC             | 2.6         | 16        |
| or Steam<br>heating    | 208-240 V 1 AC         | 2.6         | 16        |
|                        | 480 V 3 AC             | 2.6         | 10        |
| El heating             | 200 V 3 AC             | 15.5        | 50        |
|                        | 240 V 1 AC             | 14.3        | 63        |
|                        | 220-230 V 3 AC         | 13.3        | 50        |
|                        | 240 V 3 AC             | 14.3        | 50        |
|                        | 208-240 V 3 AC         | 18.3        | 63        |
|                        | 240 V 3 AC             | 20.9        | 63        |
|                        | 380-400 V 3N/3 AC      | 13.3        | 35        |
|                        | 380-400 V 3N/3 AC      | 19.4        | 35        |
|                        | 415 V 3/3N AC          | 14.3        | 35        |
|                        | 415 V 3N AC            | 20.9        | 35        |
|                        | 440 V 3 AC             | 22.1        | 35        |
|                        | 480 V 3 AC             | 23.9        | 35        |
|                        | 380-400/220-230 V 3N/3 | 19.4        | 35/63     |
|                        | 415/240 V 3N/3         | 20.9        | 35/63     |
|                        | 415/240 V 3N/3/1       | 20.9/14.3   | 35/63     |

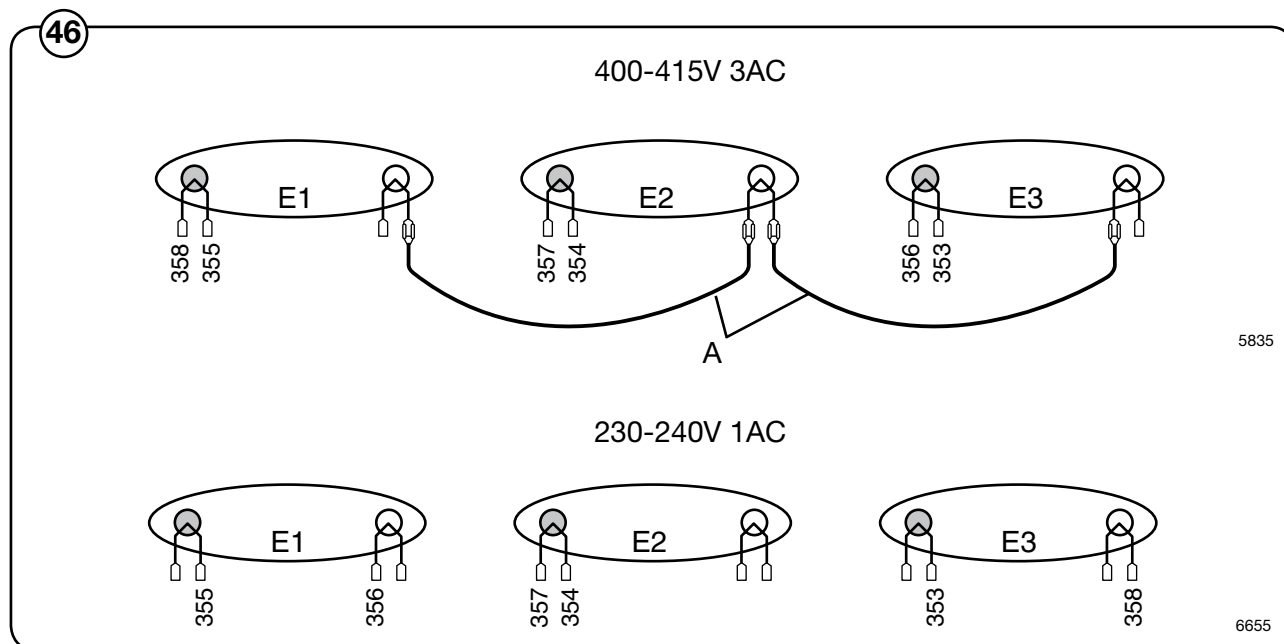
## W4300H

| Heating<br>alternative            | Voltage<br>alternative    | Total<br>kW | Fuse<br>A |
|-----------------------------------|---------------------------|-------------|-----------|
| No heating<br>or Steam<br>heating | 200 V 3 AC                | 2.1         | 16        |
|                                   | 208-240 V 1 AC            | 2.1         | 10        |
| EI heating                        | 240 V 1 AC                | 14.3        | 63        |
|                                   | 200 V 3 AC                | 15.6        | 50        |
|                                   | 220-230 V 3 AC            | 19.4        | 63        |
|                                   | 220-230 V 3 AC            | 13.3        | 50        |
|                                   | 240 V 3 AC                | 14.3        | 50        |
|                                   | 240 V 3 AC                | 20.9        | 63        |
|                                   | 380-400 V 3N AC           | 13.3        | 35        |
|                                   | 380-400 V 3/3N AC         | 19.4        | 35        |
|                                   | 415 V 3N AC               | 14.3        | 35        |
|                                   | 415 V 3N AC               | 20.9        | 35        |
|                                   | 440 V 3 AC                | 22.2        | 35        |
|                                   | 480 V 3 AC                | 24          | 35        |
|                                   | 380-400/220-230 V 3N/3 AC | 19.4        | 35/63     |
|                                   | 415/240 V 3N/3            | 20.9        | 35/63     |
|                                   | 415/240 V 3N/1            | 20.9/14.3   | 35/63     |

### How to convert heating elements from 3AC to 1 AC with reduced effect (400-415V 3AC to 230-240V 1AC) on W465H, W475H and W4105H.

- Take off isolator cover plate and front panel to expose heating elements.

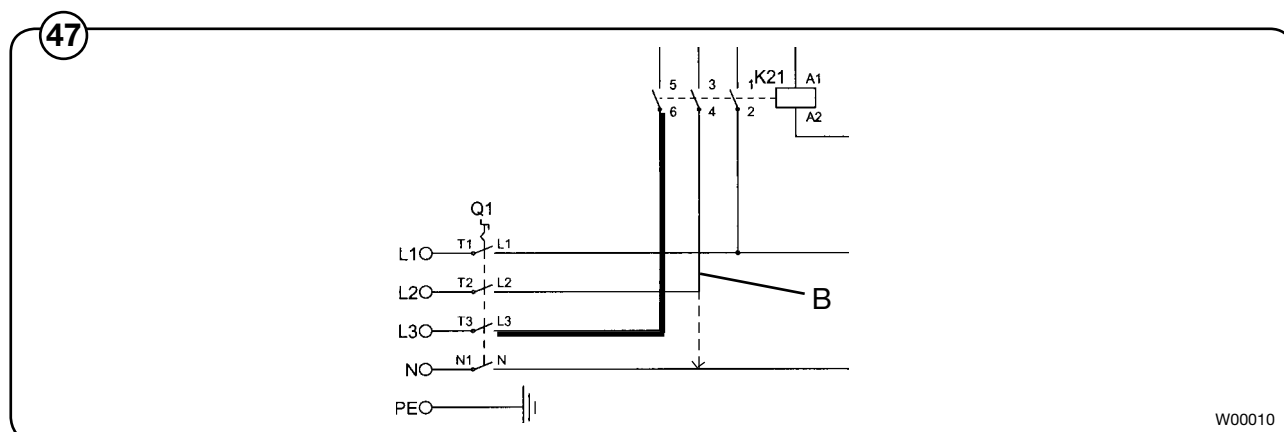
- 46 • Remove the cables A.



- 47
- Take off wire (B) from terminal L2 on isolator Q1 and reconnect it to terminal N (neutral) instead.
  - The heating elements have coloured insulators on the tips, one is red, the other is white.  
Connect cable 356 from heating relay K21 connection 1 on the white connection on E1. Connect cable 358 from heating relay K21 connection 3 on the white connection on E3.
  - Check that all your terminals and wires are secure, then test the machine on a short wash 60°C to ensure that it does heat up.
  - Fasten isolator cover front panel to the machine.

#### Note!

The wires from terminal 5 on contactor K21 to the redundant heating element can be safely left on.





## W475S/N, W485S/N

| Heating<br>alternative            | Voltage<br>alternative    | Total<br>kW | Fuse<br>A |
|-----------------------------------|---------------------------|-------------|-----------|
| No heating<br>or Steam<br>heating | 200 V 3 AC                | 0.6         | 10        |
|                                   | 208-240 V 1 AC            | 0.6         | 10        |
| EI heating                        | 220-240 V 1 AC            | 3.4         | 16        |
|                                   | 230/240 V 1 AC            | 4.4         | 20        |
|                                   | 220-240 V 1 AC            | 5.4         | 25        |
|                                   | 220-240 V 1 AC            | 7.3         | 35        |
|                                   | 200 V 3 AC                | 5.6         | 20        |
|                                   | 220-240 3 AC              | 3.2         | 10        |
|                                   | 230/240 V 3 AC            | 4.4         | 16        |
|                                   | 220-240 V 3 AC            | 5.4         | 16        |
|                                   | 220-230 V 3 AC            | 7.3         | 20        |
|                                   | 220-240 V 3 AC            | 7.3         | 25        |
|                                   | 380-415 V 3/3N AC         | 3.2         | 10        |
|                                   | 400/415 V 3/3N AC         | 4.1         | 10        |
|                                   | 380-415 V 3/3N AC         | 5.4         | 10        |
|                                   | 380-415 V 3/3N AC         | 7.4         | 16        |
|                                   | 440/480 V 3 AC            | 7.9         | 16        |
|                                   | 380-415/220-240 V 3/3N AC | 7.3         | 16/25     |

**W4105S/N**

| Heating<br>alternative | Voltage<br>alternative    | Total<br>kW | Fuse<br>A |
|------------------------|---------------------------|-------------|-----------|
| No heating             | 200 V 3 AC                | 0.8         | 10        |
| or Steam               | 208-240 V 1 AC            | 0.8         | 10        |
| heating                |                           |             |           |
| El heating             | 220-240 V 1 AC            | 3.2         | 16        |
|                        | 220-240 V 1 AC            | 7.4         | 35        |
|                        | 220-240 V 1 AC            | 9.6         | 50        |
|                        | 200 V 3 AC                | 5.7         | 20        |
|                        | 200 V 3 AC                | 7.4         | 25        |
|                        | 208-240 V 3 AC            | 9.2         | 35        |
|                        | 220-240 V 3 AC            | 3.2         | 10        |
|                        | 220-240 V 3 AC            | 7.4         | 25        |
|                        | 220-240 V 3 AC            | 9.6         | 35        |
|                        | 380-415 V 3/3N AC         | 3.2         | 10        |
|                        | 380-415 V 3/3N AC         | 7.4         | 16        |
|                        | 380-415 V 3/3N AC         | 9.6         | 16        |
|                        | 440/480 V 3 AC            | 8           | 16        |
|                        | 440/480 V 3 AC            | 10.5        | 16        |
|                        | 380-415/220-240 V 3/3N AC | 7.4         | 16/25     |
|                        | 380-415/220-240 V 3/3N AC | 9.6         | 16/35     |

## W4130S/N

| Heating<br>alternative            | Voltage<br>alternative    | Total<br>kW | Fuse<br>A |
|-----------------------------------|---------------------------|-------------|-----------|
| No heating<br>or Steam<br>heating | 200 V 3 AC                | 0.7         | 10        |
|                                   | 208-240 V 1 AC            | 0.8         | 10        |
| EI heating                        | 220-240 V 1 AC            | 3.2         | 16        |
|                                   | 220-240 V 1 AC            | 7.4         | 35        |
|                                   | 220-240 V 1 AC            | 9.6         | 50        |
|                                   | 230/240 V 1 AC            | 5.4         | 25        |
|                                   | 208-240 V 1 AC            | 9.2         | 50        |
|                                   | 200 V 3 AC                | 5.8         | 20        |
|                                   | 200 V 3 AC                | 7.5         | 25        |
|                                   | 208-240 V 3 AC            | 9.3         | 35        |
|                                   | 220-240 V 3 AC            | 3.3         | 16        |
|                                   | 220-240 V 3 AC            | 7.5         | 25        |
|                                   | 220-240 V 3 AC            | 9.7         | 35        |
|                                   | 230/240 V 3 AC            | 5.4         | 16        |
|                                   | 380-415 V 3/3N AC         | 3.3         | 10        |
|                                   | 380-415 V 3/3N AC         | 5.4         | 10        |
|                                   | 380-415 V 3/3N AC         | 7.5         | 16        |
|                                   | 380-415 V 3/3N AC         | 9.7         | 20        |
|                                   | 440/480 V 3 AC            | 8           | 16        |
|                                   | 440/480 V 3 AC            | 10.6        | 16        |
|                                   | 380-415/220-240 V 3/3N AC | 7.5         | 16/25     |
|                                   | 380-415/220-240 V 3/3N AC | 9.7         | 20/35     |

**W4180S/N**

| Heating<br>alternative            | Voltage<br>alternative    | Total<br>kW | Fuse<br>A |
|-----------------------------------|---------------------------|-------------|-----------|
| No heating<br>or Steam<br>heating | 200 V 3 AC                | 0.9         | 10        |
|                                   | 208-240 V 1 AC            | 0.9         | 10        |
| El heating                        | 220-240 V 1 AC            | 12.7        | 63        |
|                                   | 200 V 3 AC                | 10          | 35        |
|                                   | 220-240 V 3 AC            | 12.7        | 50        |
|                                   | 380-415 V 3/3N AC         | 12.7        | 25        |
|                                   | 440/480 V 3 AC            | 13.8        | 25        |
|                                   | 380-415/220-240 V 3/3N AC | 12.7        | 25/50     |

**W4250S/N**

| Heating<br>alternative            | Voltage<br>alternative    | Total<br>kW | Fuse<br>A |
|-----------------------------------|---------------------------|-------------|-----------|
| No heating<br>or Steam<br>heating | 208-240 V 1 AC            | 1.2         | 10        |
|                                   | 200 V 3 AC                | 1.2         | 10        |
| El heating                        | 200 V 3 AC                | 13.6        | 50        |
|                                   | 220-240 V 3 AC            | 12.1        | 63        |
|                                   | 220-240 V 3 AC            | 17.6        | 50        |
|                                   | 380-415 3N AC             | 12.1        | 35        |
|                                   | 440/480 V 3 AC            | 19.1        | 35        |
|                                   | 380-415/220-240 V 3/3N AC | 12.1        | 35/63     |
|                                   | 380-415/220-240 V 3/3N AC | 17.6        | 35/50     |

## W4330S/N

| Heating<br>alternative            | Voltage<br>alternative    | Total<br>kW | Fuse<br>A |
|-----------------------------------|---------------------------|-------------|-----------|
| No heating<br>or Steam<br>heating | 208-240 V 1 AC            | 1.5         | 10        |
|                                   | 200 V 3 AC                | 1.5         | 10        |
| EI heating                        | 240 V 1 AC                | 14.7        | 80        |
|                                   | 200 V 3 AC                | 15.8        | 50        |
|                                   | 220-230 V 3 AC            | 13.5        | 50        |
|                                   | 220-230 V 3 AC            | 19.7        | 63        |
|                                   | 240 V 3 AC                | 14.6        | 50        |
|                                   | 240 V 3 AC                | 21.2        | 63        |
|                                   | 380-400 V 3N AC           | 13.6        | 35        |
|                                   | 380-400 V 3/3N AC         | 19.7        | 35        |
|                                   | 415 V 3N AC               | 14.5        | 35        |
|                                   | 415 V 3/3N AC             | 21.2        | 35        |
|                                   | 440 V 3 AC                | 22.4        | 35        |
|                                   | 480 V 3 AC                | 24.2        | 35        |
|                                   | 380-400/220-230 V 3N/3 AC | 19.7        | 63        |
|                                   | 415/240 V 3N/3 AC         | 21.2        | 35/63     |
|                                   | 380-400/220-230 V 3N/3 AC | 13.6        | 35/50     |
|                                   | 415/240 V 3N/3 AC         | 14.5        | 35/50     |



## Function checks

### Compass Control

Perform the following checks once the machine is installed:

- Open the manual water valves.
- Turn on the power to the machine.
- Put detergent into compartment 2 (Main wash).
- Select a 60° program with the control knob (1).

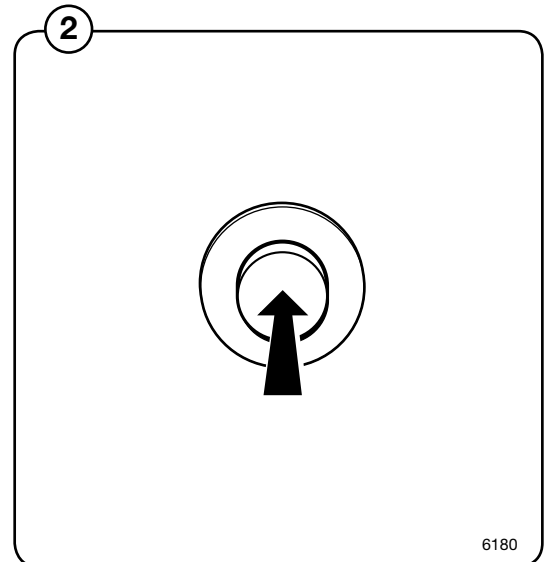
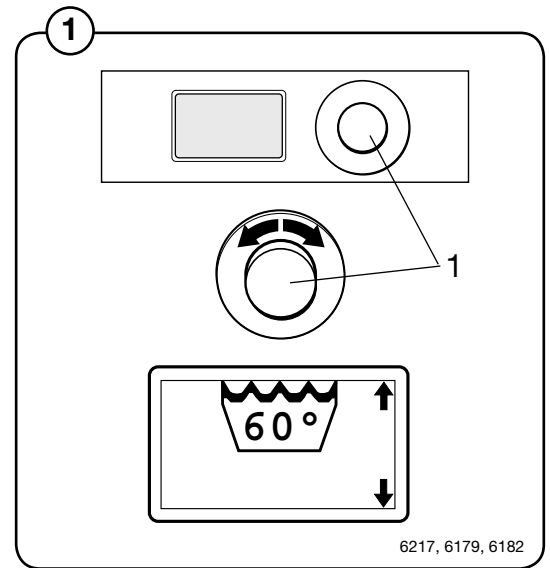
①

②

- Press the knob.

Check:

- that the drum rotates normally and that there are no unusual noises.
- that there are no leaks in water supply/drain connections.
- that water passes through the detergent compartment and fabric conditioner compartment.
- that the door cannot be opened during a program.



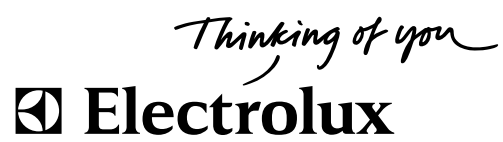












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