55A Canterbury Tips

AIR CONDITIONING

The Evaporate air conditioning has vents in the kitchen, lounge and bed rooms. This air conditioning system works by running water over honeycomb like filters and sucking the air through the filters and blowing it down into the house. Consequently the air contains moisture, so these air cons work best in dry heat and on a high humidity day are working only really as a fan. High humidity days are rare for Perth.

To regulate the flow in each room, the vents can be closed or rotated.

The controller is on the wall in the kitchen and is needs to be set to automatic. The air con will then regulate the temperatute based on this setting. Please note for the unit to work well the setting needs to be in the top half of the bar level. i.e more then ½ on.

FRIDGE

The fridge may make a strange noise and this is the unit defrosting which is normal.

ALARM

The alarm system has a sensor in the hallway , lounge room and first outside bedroom. The house needs to be vacant and everybody know that the alarm is on. For this reason the alarm is not usually set.

GREYWATER

All vanities, showers and the laundry flow into a greywater system which filters the water and pumps it onto the garden beds. For this reason only some detergents may be used, see attached list.

FRONT DOOR

The front door is a operated by lifting the top of the unit (uit needs to be closed first) A blue light will come on and then you type 01230123 and then the door should open.

PLEASE CHECK YOUR ROOM HAS THE FOLLOWING

Desk, chair, bed, wardrobe, tv plus remote and fridge

Powder Laundry Detergents

What did we test?

Lanfax Laboratories purchased laundry detergents powders from supermarkets in Armidale, NSW (during late 2008) and a few samples were supplied, without charge, by various individuals to total 71 powders.

Samples of each of these products were mixed at two rates: one specifically for front loading washing machines (25 L); and one for top loading washing machines (60 L) to simulate the wash cycle of a normal wash program.

The rates of detergent were calculated from weighed samples of a known volume from a freshly opened packet and mixed at the manufacturer's recommended dose for a normal wash.

The samples were mixed with rainwater at the chosen dose and agitated for 30 minutes to replicate washing action. Samples were tested within one hour for pH and salinity. Other tests followed normal good laboratory practice.

Why carry out the tests?

The quality of greywater from domestic dwellings is a cocktail from the numerous chemicals used in the home for personal and general cleaning. Perhaps the greatest use of chemicals is in the laundry where modern detergents are used at rates from a teaspoonful per wash to 1½ cups per wash. Manufacturers have their formulations and marketing strategies that mostly fail to address the problem of potentially hazardous chemicals. The impacts of pH, salinity, sodium, phosphorus and sulphur are not addressed in advertising. Most product labels don't state the ingredients, so astute purchasers can never be sure what is actually in the product. More importantly, very few even let you know how many washes in a packet. This research set out to address some of those shortcomings.

These data are not an endorsement of any product. ***Lanfax Labs*** has a policy of not endorsing or degrading any product.

No "safe in septic" standards or acceptable guidelines exit, and no laundry product can be "environmentally friendly".

The term "biodegradability" can only apply to the organic components of a powder detergent. When the detergent has a positive reading for Electrical Conductivity, you know immediately that inorganic components are included so the product cannot be "100% biodegradable".

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Commercial and Research Laboratories with special expertise in analysis for:

Domestic On-site Sewage Treatment
Laundry product testing
Greywater reuse
Effluent irrigation
Wastewater treatment
Environmental Monitoring
Soil and Landscape Assessments
Environmental Engineering

Principal Scientist:

Dr Robert Patterson FIEAust, CPSS, CPAg

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NOTE: Product formulations may have changed since this research was undertaken. Lanfax Labs has no way of knowing which products may have changed and manufacturers have no requirement to advertise formulation changes to the public.

Lanfax Laboratories
ABN 72 212 385 096

Laundry Detergents

Research Results - 2009

Front Loading & Top Loading Powders

© Lanfax Labs. Armidale Jan 2009

How to interpret the results

The graphs shown on these pages are examples of the numerous graphs available on the website.

Greywater pH

pH is a measure of the acid or alkaline status of the liquid. Acids have a pH <7, while alkaline solutions have a pH>7. Natural systems prefer pH between 6 and 8.

High pH causes soil to disperse and where greywater is used for landscaping, a high pH may be detrimental to both the plants, soil microbes and the soil structural stability.

Phosphorus (symbol P)

Phosphorus is an essential biological element and a non-renewable resource. It is an excellent component of modern detergents, but detrimental when discharged into waterways as it encourages growth of algae and bacteria ("blue-green algae"). When greywater is used for landscaping, plants can uptake the P and so reduce the need for P from other fertilisers. On sandy soils P may leach into groundwater. With care on heavy clay soils much of the P may be locked up in the soil and not be an environmental problem.

If your greywater system may impinge on a sensitive environment, you need to choose a product with a very low P. The "P" symbol on the packet is not a good indicator as some products marked "P" have relatively high levels of P. The "NP" symbol is a good indicator of extremely low (almost absent) P. See Figure F1 and T1 for P ratings.

Sulphur (symbol S)

Sodium sulphate is often used as a "manufacturing" agent, in other words a "filler". Detergents high in sulphur are more likely to have ingredients that may not be essential to a clean wash. Usually there is no indication on the packet to suggest high proportions of "filler" other than a big bulky box. Choose a concentrate and one with a small dose.

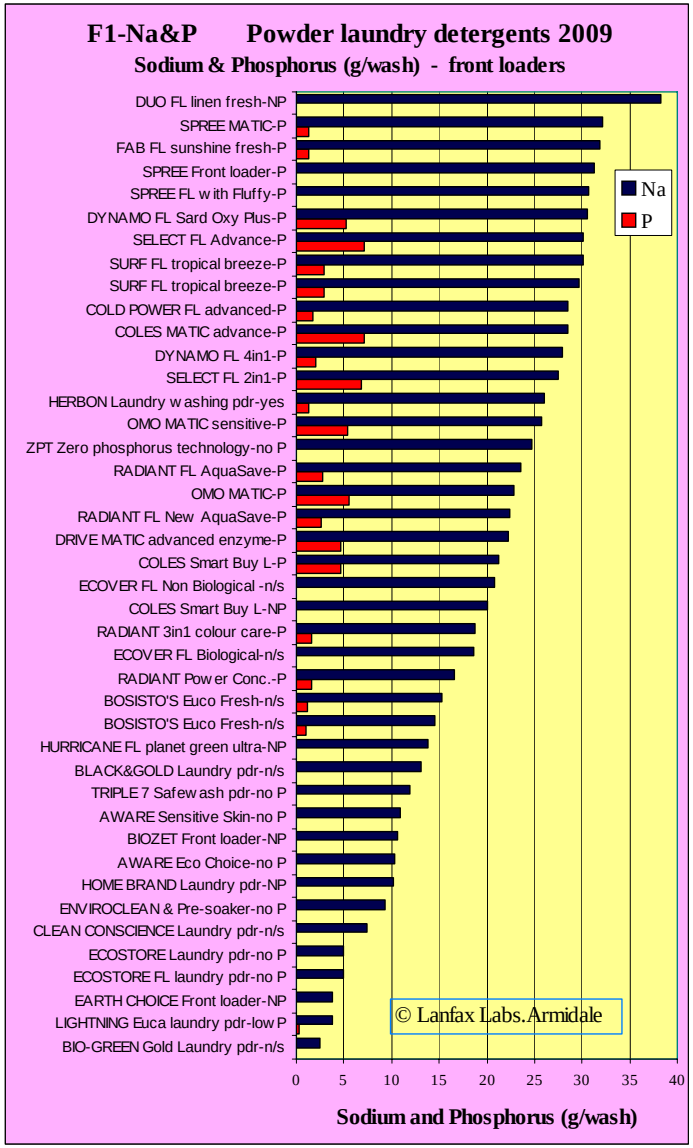
How much detergent to use.

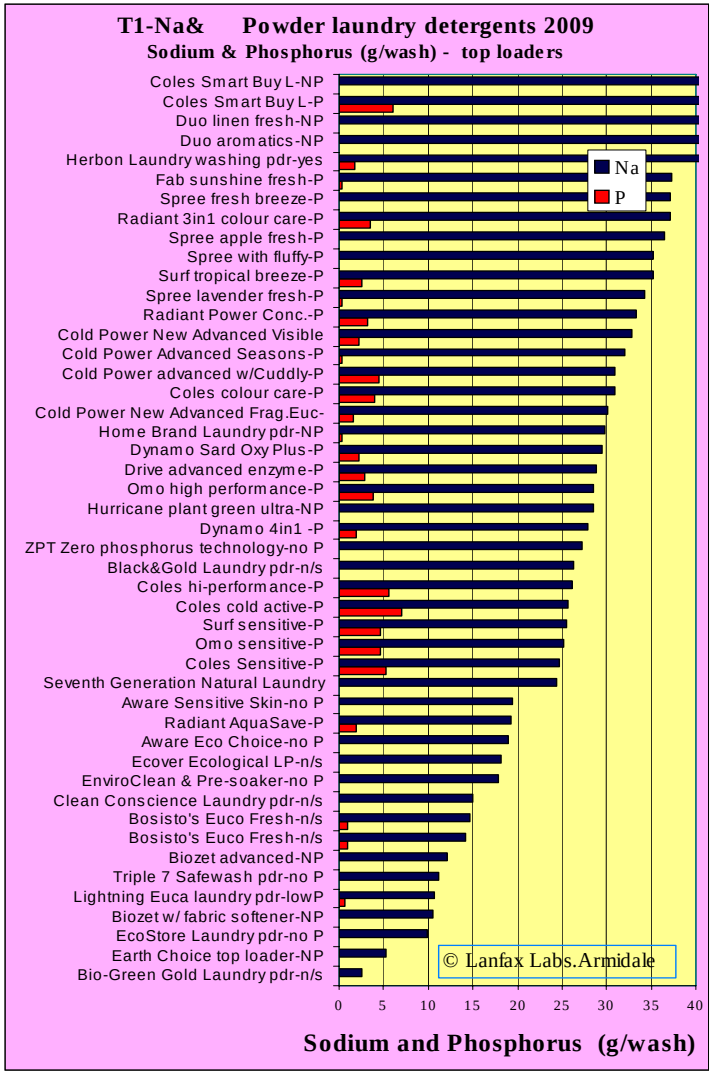
The "builder" in detergents (often sodium tripolyphosphate, or zeolite as a replacement) has to immobilise the "hardness" in water. Hardness is caused by calcium and magnesium in the water. Rainwater has almost none of these two elements and is "soft" water. Use less detergent than recommended in "soft" water. You may need to use more detergent in "very hard" water. How do you know if water is soft or hard?Hard water leaves a scum with soap.

Sodium (symbol Na)

Sodium is an element essential for all life, however, in elevated concentrations leads to serious plant water stress and potential soil structural instability. Laundry detergents that contain more than 20 g sodium per wash may be detrimental to plants and soil structure. In the figures F1 and T1, the lower the sodium the better. Take care with products over 20 g Na/wash by spreading greywater over a larger area, or dilute with the rinse water.

When in doubt, choose low sodium and no phosphorus.





WASH and RINSE efficiency

Whether you have a front loader or a top loader, the efficiency of the wash and rinse cycles are more important than the quantity of water used. Some powders are slow to fully dissolve so the particles will be difficult to wash from the clothes. Always try your own experiment and see how much detergent you need to a wash to your satisfaction. Be aware of great cleaning claims. Remember, the performance of your wash will depend upon the washing machine action, the hardness of your water, the temperature of the wash, and the quality of the detergent. They all go together for a clean wash.

COOLING

Owner's Manual

PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE USE

brivis

Australia's favourite climate systems

GWA Smarter Solutions

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Congratulations on your purchase of a Brivis Cooling system.

For you to achieve the performance and efficiency expected from your new cooler, please ensure the installer is a qualified trades person, that the installer has commissioned the unit before you commence operating, and you take the time to read the contents of this manual.

In some Australian States it is mandatory that your cooler installation is issued with a certificate of compliance to guarantee the installation workmanship. Please check with your installer or the local plumbing authority or association. The Brivis cooler is covered by the warranty as outlined in this manual.

Brivis products are renowned for providing years of trouble free performance. However, that doesn't mean that they will operate at their peak for all of that time without some attention. To be at their most efficient they, like most things, need a little care. So, to ensure that every Brivis unit is always in perfect condition, we have established the Brivis Care Program for our valued customers.

The Brivis Care Program provides you with a maintenance service. This service includes cleaning the unit and ensuring that the system is operating at maximum efficiency. Not only does this guarantee peak performance, it also allows any minor problems to be detected early. This ensures that the system will always be ready when you need it.

Privacy Notification

Brivis Climate Systems Pty Ltd is the registered owner of the Brivis brand. Brivis will collect "personal information'' from you when you complete your warranty and maintenance registration form. This personal information is collected under the guidance of the Privacy Information Protection Act 1998.

The Purpose of collecting this information is to:

Process your request for us to provide service activities for you;
Register your purchase of equipment for warranty;
Register your request for a survey/quotation for Heating Ventilation Air Conditioning goods and services.

The intended recipients of the information are:

- Employees of Brivis.
- Federal and State Governments who may require the information for administration purposes.

While the supply of the information by you is voluntary, if you cannot provide or do not wish to provide the information sought, Brivis may not be able to provide the services you request. If you have already provided information but have changed your mind and do not want the information used, you may make application for access or amendment for that information not to be used. You have a right of access to, and correction of, the information concerning yourself in accordance with the relevant procedures under the Act.
Enquiries concerning this matter can be addressed to the Business Practices Officer of Brivis, who can be contacted on (03) 9264 9555.

How does your evaporative cooling work?

The amount of cooling available from any type of cooling system is dependent on the outside weather conditions. Your evaporative cooler works best on hot, dry days. It is essential to provide the required amount of ventilation (for your evaporative cooling system to function properly) by opening windows/doors whenever the cooler is operating. Air is drawn in through the filter pads resulting in 100% fresh cool air entering the home. The movement of this cooled air through your home will draw the heat out of the house, so be sure that doors or windows are open to expel this heat to outside. Whenever possible start the cooler early to prevent the build up of heat within the house, and on sultry or humid days your cooler may work better with the fan ONLY running and the pump turned OFF. Stale air, cigarette smoke and fumes can be quickly cleared and replaced with fresh air by turning the fan to manual mode.

Before operating your Brivis Evaporative Cooler

Make sure enough window and/or door area is open for the unit to work correctly. The following table gives a guide to the amount of opening area required for each model in m^2, and also gives suggestions on how to provide this.

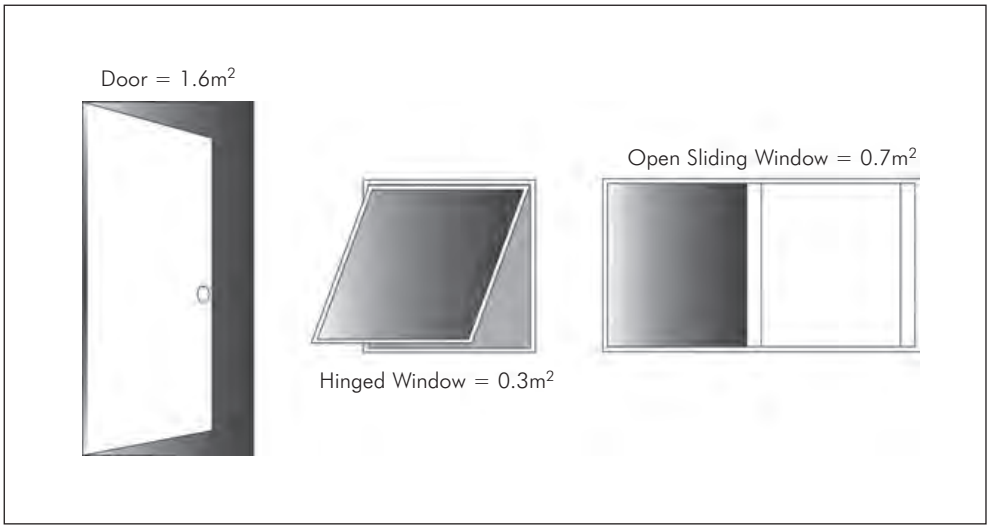
The air smells a little different. Why?

New Celedek pads can give off a mild odour while they are settling in. This is quite normal, it will dissipate quickly as the new pad is constantly flushed during use. It may also be indicating that the unit requires a service.

Openings Required

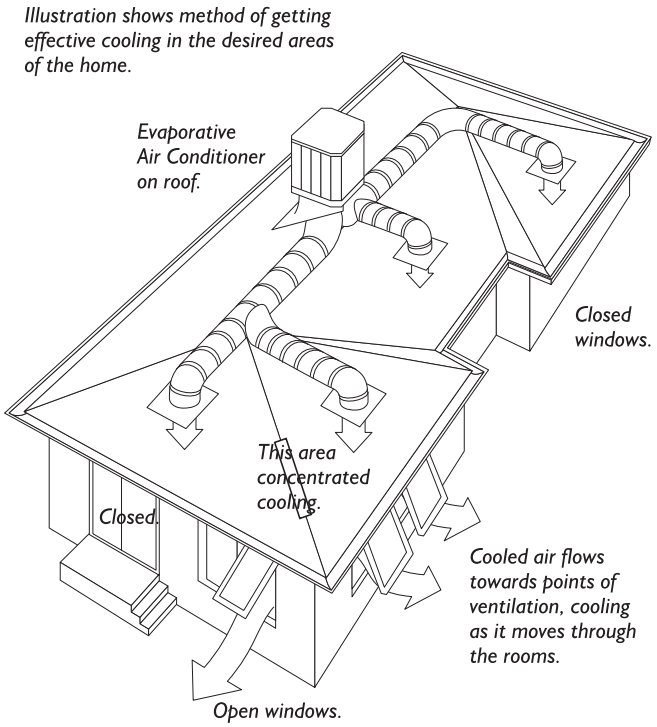
Model				Number of average size windows & doors (suggestions only)	Highest Fan Setting	Lowest Fan Setting
Brivis Contour Series	**Brivis Promina Series**	**Brivis Advance**	**Brivis AD Series**			
L 24	P 24	F 24		Two sliding windows or Five hinged windows	1.5 m^2	0.9 m^2
L 34	P 34	F 34		One door and a hinged window	1.9 m^2	1.1 m^2
L 44 & L 54	P 44 & P 54	F 44 & F 54		Three sliding windows or one door & two hinged windows	2.3 m^2	1.4 m^2
L 64	P 64		AD 66	Four sliding windows or one door and four hinged windows	2.8 m^2	1.7 m^2
			AD 76	Five sliding windows or one door and five hinged windows	3.1 m^2	1.9 m^2
			AD 86	Six sliding windows or one door and six hinged windows	3.4 m^2	2.1 m^2

Average ventilation area provided by various openings, when fully opened.



Note: You can also choose to have these openings only halfway open, but be aware that consequently the opening will only provide half the amount of ventilation shown above and more openings would be required. To cool your whole house, you need windows and / or doors open throughout the house. If you wish to concentrate your cooling to a select area, simply concentrate all the required ventilation in the targeted area. (See following illustration).

On hot, windy days, ensure that the windows and /or doors open for ventilation are on the sheltered side of the house.



Operating your evaporative cooler

Start up

When the cooling is first turned ON, there will normally be a delay before the cool air is delivered from the duct outlets. The delay will vary depending on the model of cooler, but this doesn't mean the cooler is not operating. Most models have pre-programmed function times, to allow time to fill the Cooler's tank with water and/or Pre-wet the filter pads. Brivis Contour models have an additional delay to allow time to open the ServoSeal damper. The entire process can take up to 8 minutes before cool air is expected from the duct outlets.

Shut down

On Brivis Advance, Brivis Promina, Brivis Contour, and Brivis AD (when fitted with optional dump valve) units, there is also a delay in emptying the water from the Cooler's tank for a period after the unit has turned OFF at the end of use. Brivis Advance, Brivis Promina and Brivis Contour models have an additional pre-programmed tank wash cycle (flush). This washes the tank with clean water at the end of use. At the same time Brivis Contour models will also close the motorised ServoSeal damper, which seals the ducting, reducing drafts. The ServoSeal and flush will occur approx 1 hour after the unit has been turned off.

On humid days

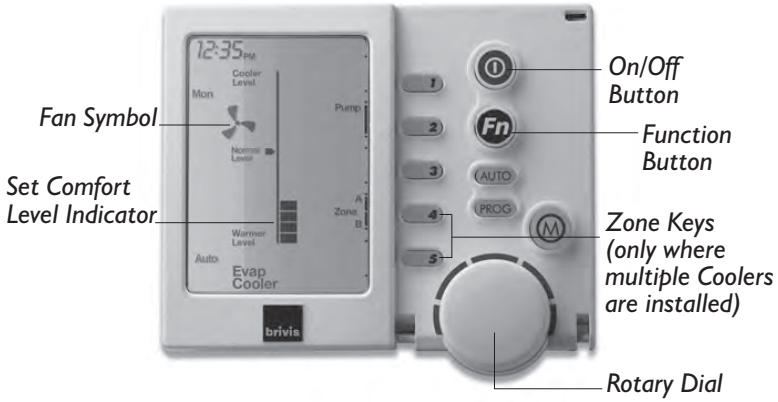
On days of high humidity your evaporative cooler works best with the fan on high and perhaps the pump switch turned off. If moisture is building up on tiled or hard surface areas, ensure that airflow from the outlets is directed across the ceiling rather than down towards the floor. Also ensure that you have enough windows and/or doors open.

Ceiling Vents Location

Vents should be set up so the air is directed across the ceiling. However they should not be restrictive and the vents should also be directed to disperse air evenly around the room depending on the location of the vent.

Operating your Brivis Networker Wall Control

The Brivis Networker wall control operates the complete cooling system, communicating key information and sensing the temparture. It is an important part of the unit and the following text will explain its operation.



Symbol	Description
	The On/Off Button This is the button to turn the Brivis Networker ON or OFF.
	The Function Key (Fn) The function key, when used in conjunction with keys 1 & 2 allows the user to perform specialised functions such as message repeating & Brivis Networker locking.
	The Mode Key If a Brivis Heater and Cooler are connected to the Brivis Networker, this key allows you to switch between them. When an appliance is selected the mode of the appliance will appear at the bottom of the screen e.g. 'Evap Cooler'.
	Heartbeat A flashing heart icon in the bottom right hand corner indicates that the room temperature is being sensed from this Brivis Networker.
PROG	*Program Key* This key has a permanent function written on it. This control key is used to set the Brivis Networker's automatic program.
AUTO	*Auto Key* This key has a permanent function written on it. The auto function allows the user to switch between the Auto Program and the Manual Operation.
	The Rotary Dial This Dial is used to change the Cooler (or Heater, if fitted) settings.
	Variable Keys The keys numbered 1-5 vary their function depending on the program or mode displayed. They will only have a function if text appears on the screen beside the key & a black rectangular box. (Keys used for zoning function may also display an arrow)
	Water Droplets The two alternating water droplets indicate that the cooler pump is turned on.
	Fan Symbol When the fan is flashing it indicates the unit is in pre-wet mode. When the fan is rotating it indicates the fan is turned on.
	Thermometer In auto mode the thermometer indicates the set comfort level. In manual mode the thermometer indicates the set fan speed.
	Padlock Symbol The padlock symbol indicates the child proof lock has been set. For more information refer to the section Locking the Brivis Networker.

The Display Screen

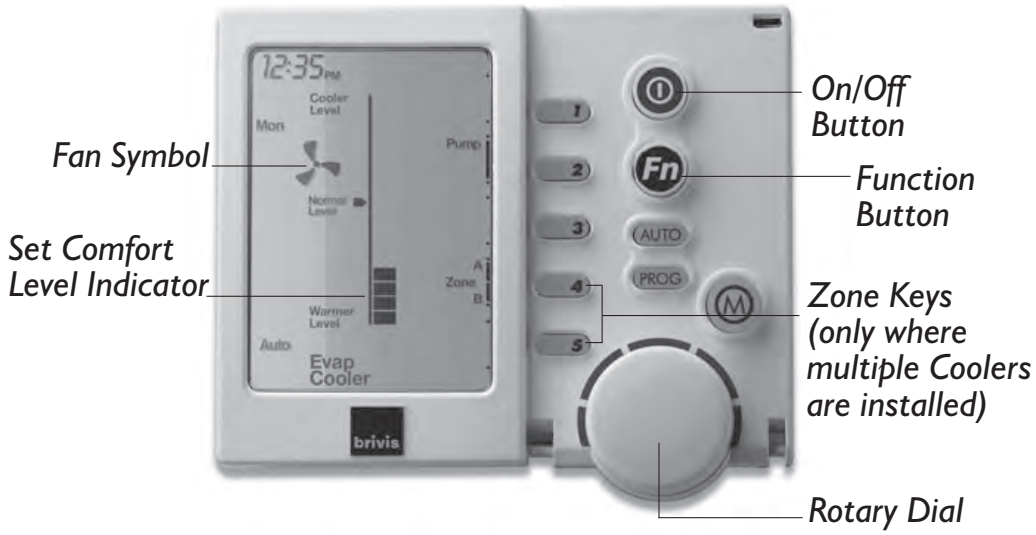
- Provides you with information about the system. The Screen shows the current Time via a Digital Clock in the top left corner, the Day of the Week on the left-hand side, and the type of Appliance selected at the bottom.
- The display will also show scrolling messages across the top of the screen. The messages usually relate to a certain action such as cooler Pre-Wet which shows - "Pre-Wetting cooler pads - Please Wait!"

Automatic Pre-Wet

When the Cooler is turned ON, with both the fan and the pump in either Auto or Manual mode, the Cooler will start a Pre-Wet automatically. The Pre-Wet stage ensures the pads are thoroughly wet before the fan starts. This prevents warm air being initially blown into your home and contributes to the effective operation and performance of the Cooler. The Pre-Wet time will vary depending on how long the Cooler has been OFF, and whether it needs to fill the tank prior to operation. During the Pre-Wet the message "Pre-Wetting cooler pads - Please Wait!" will scroll across the top of the display.

Automatic Operation

In Auto mode the Brivis Networker automatically turns the pump ON or OFF as required and varies the fan speed to maintain your selected "comfort level."



To run the unit in Auto mode, just follow these easy steps:

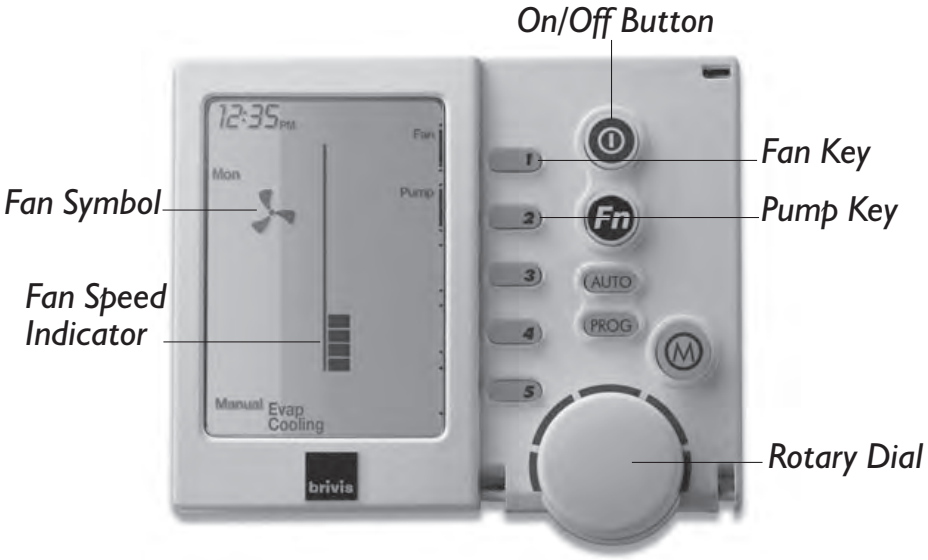
- Turn the Brivis Networker on using the ON/OFF button.
- Press the Auto key until "Auto" appears on the screen.
- Rotate the round dial to set the comfort level you desire (up to have a cooler comfort level and down to have a warmer comfort level).

Note: It will take approximately 8 minutes for the Cooler to complete the pre-wet before the fan will turn on. The next time you return to "Auto" these steps will not be necessary because the Brivis Networker remembers your previous settings.

Benefits of using Brivis coolers in Auto mode in preference to Manual mode

- Power and water consumption varies in relation to the chosen comfort level. This comfort level cannot be as easily maintained in Manual mode.
- In auto mode the unit operates only when it is required.
- Enables a set comfort level to be maintained automatically as the outside / inside temperature conditions change.
- It allows you to pre-set the cooler to turn ON early and not let the house build up heat.
- The outlet airflow noise is kept to a minimum, as the fan speed is only as fast as required to maintain the set comfort level. This slower speed also results in more efficient saturation of the Cooler filter pads, and a cooler outlet air temperature.

Manual Operation



Manual operation enables you to control the fan, its speed, and the pump manually. To run the Cooler in Manual mode, just follow these steps:

- Turn the Brivis Networker on using the ON/OFF button.
- Press the Auto key until "MANUAL" appears on the screen.
- Press key 1 to turn the fan on (if the symbol of the fan is not on the screen).
- Press key 2 to turn the pump on (if the symbol of the water droplets is not on the screen).
- Rotate the round dial to set the fan speed level you desire. (up to increase the fan speed and down to decrease the fan speed.) The message "Pre-Wetting cooler pads – Please Wait!" will scroll across the display. It will take approximately 8 minutes for the unit to complete the pre-wet before the fan will turn on.

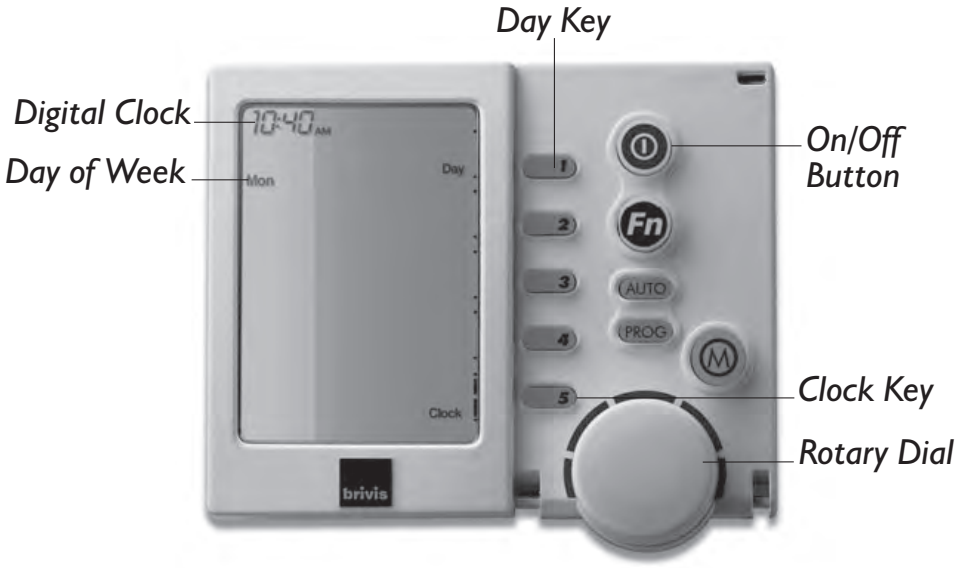
Note: On days of high humidity the fan may be operated without the pump. To turn the pump OFF press key 2 and the water droplets will disappear. The next time you return to Manual these steps will not be necessary because the Brivis Networker remembers your previous settings.

Using the Timer

When the Cooler is operating, you can pre-set a time for the Timer to turn the Cooler OFF. Also, when the Cooler is turned OFF, you can select a time for the Timer to turn it ON automatically. So if you are out for the day you can set the Cooler to come on and cool the house before you return. To use the timer function you firstly need to set the time and day.

Caution: If the pump is going to be used, adequate ventilation (openings) needs to be provided to prevent condensation build up.

Setting the Time & Day



- To set the Time and/or Day the Brivis Networker must be ***turned OFF*** using the ON/OFF button.
- Press Key 5 (clock) and the screen will display the message "Clock setting mode", and then the Digital Clock will flash.
- Use the Rotary Dial to select the right time.
- Press key 1 until the correct day appears eg: Mon.
- Press Key 5 (clock) again to save the changes.

Note: If you have dual Brivis Networkers installed, only the Master control has the ability to set the clock time. The Master control can be identified by the word "clock" beside Key 5, while the Brivis Networkers are in the off position.

Setting the Cooler to turn itself ON

- Press the PROG key and the display will flash ON TIME and the word PROGRAM.
- Rotate the round dial to set the ON TIME ie. the time you want the Cooler to come ON.
- You can change the settings the cooler will run at here. If in Manual mode, rotate the round dial to adjust the fan speed and press key 2 to turn the pump ON or OFF. If in Auto mode, rotate the round dial to adjust the comfort level.
- Press key 3 to activate the Timer.
- Press the PROG key to exit and save your setting.

Note: The ON TIME key remains displayed. To cancel the Timer press key 3.

Setting the Cooler to turn itself OFF

If the Cooler is ON and you want to set a time for it to turn OFF, the steps are almost the same as above (***Note:*** the cooler must be turned on).

- Press the PROG key and the display will flash OFF TIME and the word PROGRAM.
- Rotate the round dial to set the OFF TIME ie. the time you want the Cooler to turn OFF.
- Press key 3 to activate the Timer.
- Press the PROG key to exit and save your setting.

Note: The OFF TIME key remains displayed. To cancel the Timer press key 3.

Checking your Timer Settings

Once Timer settings are made you can review or cancel them in a number of ways:

- The words On Time or Off Time will remain on the screen to show that the Brivis Networker is now holding your pre-set ON or OFF time.
- If you want to check what you've done, press the PROG key and the pre-set time will flash. You can now make adjustments to your settings if required.
- If you change your mind and want to cancel the function, press the On Time/Off Time Key 3 and this will cancel the function.
- To exit this setting program push either the On/Off button or the PROG key. Once again the Brivis Networker remembers the last setting and the next time you select the Timer it will go to that same setting.

Message repeating

Push the FUNCTION button then Key 1 immediately after to repeat a message. ***Note:*** If no message repeats it means either the button combination was incorrect or the event has passed. Typical messages displayed advise of some appliance operations such as - "Pre-Wetting cooler pads - Please Wait!"

Coded Messages

While the Brivis Networker is operating your system, it is also monitoring and controlling every aspect of the system's performance. If anything unusual occurs, the Brivis Networker will display an error message.

- A message stating "Cooler Fault - E01 Code #?? For assistance call 1300 BRIVIS" will scroll across the top of the screen. Note: The message will vary depending on the problem.
- Whenever such a message appears, it is a good idea to write it down before doing anything else. This code contains information that will enable Brivis to deal quickly and easily with anything that requires their attention. With many of them you will be asked to contact Brivis Service and pass on the message, the model and the type of appliance.

Resetting

If something has interrupted the units operation, the word Reset may appear beside Key 4 while a message is scrolling. Press Key 4 to re-start the Cooler. If the Cooler does not resume normal operation, or the error message re-appears, contact Brivis Service. If the Cooler is still operating but the Brivis Networker is showing an error message try pushing the Reset Key 4 to clear the fault. If the fault persists contact Brivis Service. If the Cooler is not operating and any other error message appears, contact Brivis Service.

Locking the Brivis Networker

To prevent any unwanted alterations being made to the coolers settings, the Brivis Networker can be locked via a 4-digit PIN number. In the case of dual Brivis Networkers, if one is locked the other is also locked. If dual Brivis Networkers are installed, the user pin numbers can only be set at the Master Brivis Networker. The Slave Brivis Networker can only lock and unlock the system and cannot access the pin numbers.

Setting the Pin Numbers

- Push the FUNCTION button then Key 2 immediately after. The screen will then display "Enter Your Pin number to lock the system". Do not enter numbers at this stage, please continue to the next step.
- Push the MODE key once. The screen will now display "User pin number reset – Enter master pin number". Do not enter numbers at this stage, please continue to the next step.
- Push the MODE key once again. The screen will now display the message "User pin number 1 alteration - Enter current pin". If this is the first time for setting the pin numbers, the current pin will be "1111". If the pin has been previously altered then enter your current pin.
- The screen will then display the message, "Enter the new pin".
- Enter your new 4-digit pin number using a combination of Keys 1-5. The screen will now display, "Repeat the entry of the new pin".
- Providing you re-enter the new pin correctly the screen will now display "Valid pin - Pin altered".
- If an incorrect number is entered press the AUTO key to clear all digits, then re-enter your user pin number. To exit this area at any time, just push the ON/OFF key.

To Lock the Brivis Networker

- Push the FUNCTION button then Key 2 immediately after. The screen will now display "Enter Your Pin number to lock the system".
- Enter your current user pin number to lock the Brivis Networker. The screen will now display "System locked out!"
- If an incorrect number is entered press the AUTO key to clear all digits, then re-enter your pin number.

To Unlock the Brivis Networker

- Push the FUNCTION button then Key 2 immediately after. The screen will now display "Enter Your Pin number to unlock the system".
- Enter your current user PIN number to unlock the Brivis Networker. The screen will now display the message "System unlocked!"
- If an incorrect number is entered press the AUTO key to clear all digits, then re-enter your pin number.

Note: If an invalid pin is entered, the message "Invalid pin entered - Try again" will scroll across the screen. The user has three attempts at entering a valid pin number. On the third failed attempt the message "Invalid pin entered!" will be displayed. At this point the Brivis Networker will abort the pin entry screen, and return to its original state. You will then need to repeat the process.

Zoning

Some systems may include multiple Coolers with each operating in a different zone area. Zone keys will appear on the screen and these will have been set up and explained by the installer where required. These zones can be operated in either"Manual" or "Auto" modes using the Zone keys (keys 4 & 5). Two Zone keys will appear if you have three or four zones and only one Zone key will appear if you have one or two.

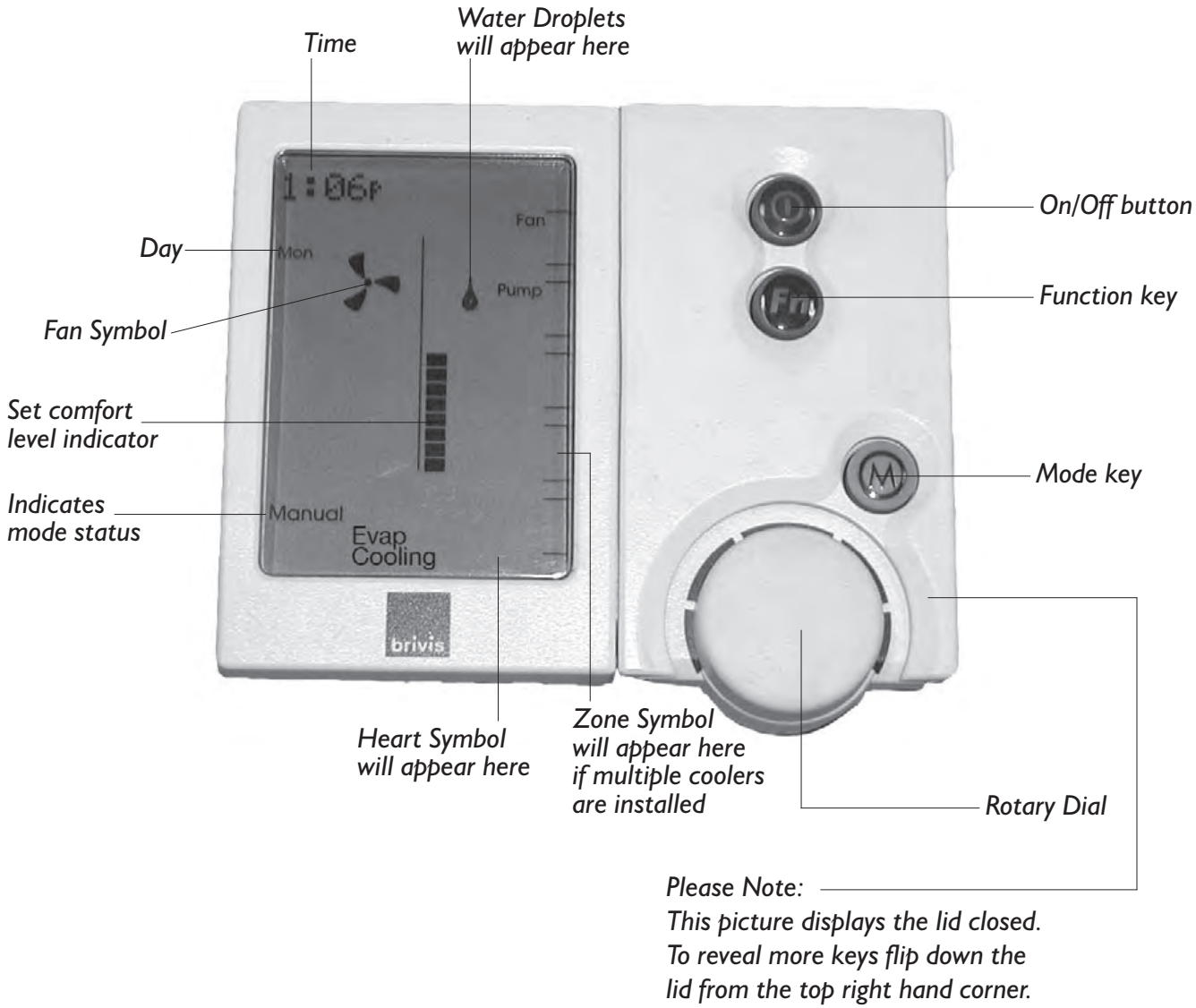
Dual Brivis Networker Operation

It is possible to have two Brivis Networkers connected to the system. The two Brivis Networkers will operate together. One will be configured as a Master and the other as a Slave, and the settings for the Cooler will be common on both controllers. The benefit of having two controllers is the convenience of making adjustments to the Cooler settings. If an adjustment is made on one of the Brivis Networkers it is immediately reflected on the other Brivis Networker. When locking one of the Brivis Networkers the other one will also be locked, and the system can be unlocked at either Brivis Networker. In AUTO mode, only the Master Brivis Networker will sense the comfort level within the house.

Note: Only the Master Brivis Networker has the ability to set the clock time. Look for the word "clock" beside Key 5, while both the Brivis Networkers are in the off position.

Batteries

The Brivis Networker requires no batteries. If the Brivis Networker has no screen, check your 240 volt power supply (at the Cooler) or check the thermostat cable.



Operating your Programmable Wall Control

This Wall Control gives the choice of Automatic or Manual modes with the option of a time ON or OFF delay.

Automatic Pre-Wet

When the cooler is turned on with both the fan and the pump, in either Auto or Manual mode, the cooler will start a Pre-Wet stage to ensure the pads are thoroughly wet before the fan starts. This contributes to the effective operation and performance of the cooler. The Pre-Wet time will vary depending on how long the cooler has been OFF, and whether it needs to fill the tank prior to operation.

Operating Modes

The cooler has several operating modes, which are as follows:

1. Auto mode
2. Manual mode Fan and Pump
3. Manual mode Fan only
4. Manual mode Pump only.

Push the ***MODE*** key to cycle through the cooler's operating modes.

Note: The wall control will remember previously established settings in Auto and Manual Modes.

Auto Operation

In AUTO mode the Programmable Wall Control automatically operates the cooler (fan speed and pump) to maintain the selected 'comfort level'. The cooler may even turn OFF if the conditions meet the comfort level setting.

Getting Started

Begin by pressing the On/Off key to turn the Cooler on. If the Auto light is illuminated, the system is set for Automatic operation, otherwise:

- Press the mode key to cycle through the Cooler's operating modes, until the Auto light is illuminated.
- Push the UP and DOWN keys to select the comfort level you require. The lower the number, the cooler the setting; the higher the number, the warmer the setting.

Benefits of using Brivis coolers in AUTO mode in preference to Manual mode

- Power and water consumption varies in relation to the chosen comfort level.
- This comfort level cannot be as easily maintained in Manual mode.
- In auto mode the unit operates only when it is required.
- Enables a set comfort level to be maintained automatically as the outdoor / indoor temperature conditions change.
- Allows you to pre-set the cooler to turn ON early and not let the house build up heat.
- The outlet airflow noise is kept to a minimum, as the fan speed is only as fast as required to maintain the set comfort level. This slower speed also results in more efficient saturation of the cooler filter pads, and a cooler outlet air temperature.

Manual Operation

Manual operation requires you to manually control the fan, its speed, and the pump.

Getting started

Begin by pressing the ON/OFF key to turn the Cooler on. For Manual operation the AUTO light must not be illuminated.

- Push the MODE key to cycle through the cooler's operating modes.

Fan and Pump

This is indicated by the illuminated Fan and Pump lights. The screen will then display a number, which indicates the cooler fan speed.

- Push the UP and DOWN keys to raise and lower the cooler's fan speed.

Note: The fan light will flash during the Pre-Wet period.

Fan only

This is indicated by the illuminated FAN light. The screen will then display a number, which indicates the cooler's fan speed.

- Push the UP and DOWN keys to raise and lower the cooler's fan speed.

Note: On days of high humidity the fan may be operated without the pump. For ventilation only, operate the cooler in this mode.

Pump only

This is indicated by the illuminated PUMP light. Only the pump will be running in this mode, and no air will be circulating.

Using the Timer

This wall control has a timer function that can delay the operation of the ON/OFF key. If the cooler is operating, you can pre-set the timer for the cooler to turn Off. If the cooler is off you can pre-set the timer for the cooler to turn On. The timer is set in 1-hour increments, ranging from 1 to 12 hours. When setting the timer to turn the cooler on, the wall control returns to the settings it had when it last operated. To check or adjust these settings turn the wall control on, make any adjustments if necessary, then turn the wall control off and set the Timer. When setting the timer to turn the cooler off, have the cooler running at your desired settings and set the timer.

Setting the Timer

- Press the TIMER key to enter the timer setting mode. The timer light will now be flashing and the screen will display a number.
- Push the UP and DOWN keys to set the delay in hours. The timer delay can only be adjusted while the timer light is flashing.
- To cancel the timer push the TIMER key twice or push the ON/OFF key.
- After the timer has been set, leave the controller for five seconds until the timer light stops flashing.

The Manual Wall Control

The Manual Wall Control requires you to manually control the fan and fan speed, and the Pump and Pre-Wet Function.

Getting Started

- Push the ON/OFF key to turn the controller on.
- Push the Cool switch to the ON position. This will operate the pump.
- Pre-Wet the filter pads by turning the Cool switch on 5–10 minutes before switching the fan ON. This will provide maximum cooling immediately when the fan is switched ON.
- Turn the Fan switch ON.
- Rotate the Fan Speed dial to the airflow level you desire.

Note: On days of high humidity the fan may be operated without the pump. For ventilation only, turn the Cool switch OFF which turns the pump OFF.

If the system is not cooling adequately

- Check the water supply to the unit is turned ON.
- Ensure the pump is operating and visually check the pads for even water distribution.
- Check that the number of doors and windows open is sufficient within the targeted cooling area. Too many or not enough doors and windows opened in the targeted area could result in inadequate ventilation. This could result in poor cooling performance.
- Check that the fan operates and air is coming out from the duct outlet.
- Check that the filter pads are not damaged and/or the material hasn't deteriorated.
- If external weather conditions are excessively humid, the cooler may not perform at its optimal cooling level.

If the fan will not start.

- Check if the power is ON.
- Check if the Wall Control is turned ON, and set the comfort level that requires the Cooler fan to operate.
- Check that the fan is not in Time Delay Mode caused by: pre-programmed times for the ServoSeal damper (Brivis Contour only) and motorised drain (Brivis Advance, Brivis Promina & Brivis Contour models only) to open, the Cooler's tank to fill with water, or a pre-wet of the filter pads.

Note: The usual time delay can be up to 8 Minutes.

- Check the fuse in the meter box.

Cooler Service

To ensure that your Brivis cooler continues to operate at peak efficiency, it should be serviced at two year intervals by an authorised person trained in the service of Brivis coolers - please contact our National Care Centre, for authorised Brivis Service Technicians. Refer to the back of this manual for contact details.

This service of the cooler unit will include all maintenance and adjustments required to the following components to ensure your cooler runs at its peak efficiency:

- Trough
- Sensors
- Fan and Pump Assembly
- Pads and Water Distribution

Please note that to maintain your warranty, the above servicing needs to be conducted by an authorised person trained in the service of Brivis Coolers.

Note: Service maintenance is not covered under warranty and is a chargeable service. All coolers must have safe and reasonable access and be installed in compliance with the installation instructions supplied with the unit. Some installations may require two service personnel to attend, in accordance with EH & S requirements.

Brivis Care Program

Brivis products are renowned for providing years of trouble free performance. However, that doesnt mean that they will perform at their peak all of that time without some attention. To be at their most effecient they, like most things, need a little care. So to ensure that every Brivis unit is always in perfect condition we have established the Brivis Care Program for our valued customers.

When you are a member of our Care Program you will receive a courtesy call regarding maintenance service to your unit. This service includes cleaning the unit and ensuring that the system is operating at maximum efficiency. Not only does this guarantee peak performance, it also allows any minor problems to be detected early. Which ensures that the system will always be ready when you need it.

If something needs more than just maintenance it can be attended to at the time of the service (additional charges may apply). This repair will be guaranteed for 3 months labour, and 12 months parts.

TERMS OF WARRANTY

- Australia & New Zealand Definitions

The following words have meaning in terms unless the contrary attention appears: "Brivis" means Brivis Climate Systems Pty Ltd ABN 64 096 079 088. "Installation Site" means the site in which the Product is installed.
"Purchaser" means the person named as purchaser in the warranty card in this manual.
"Product" means the Brivis cooler and Brivis ancillary components purchased by the Purchaser and described in the warranty card in this manual.

Warranty

Subject to the conditions below, the Product is warranted by Brivis, to be free from defects in materials and workmanship for a period of 3 years following the date of purchase (the "Warranty Period"). Brivis also offers the Purchaser the option to extend the Warranty Period by a further 2 years on Brivis Contour coolers only, which will bring the total warranty period up to 5 years (the "Extended Warranty Period"). In addition, all the structural components in the cooler are covered by a 10 years parts only warranty provided that the Product is serviced every 2 years during that 10 year period by an authorised person trained in the service of Brivis coolers. The 10 year structural components warranty excludes plastic decorative panels and the Brivis AD trough.

Conditions of the warranty:

1. During the Warranty Period, and Extended Warranty Period (if applicable), Brivis, or its service agent, will repair or replace at its option the Product or any part of the Product, which its examination shows to be defective.
2. Consumable items, including but not limited to, filter pads and batteries, are not covered under this warranty.
3. The Product must be installed and operated in accordance with the instructions set out in this manual and current plumbing regulations.
4. The Product must be serviced and maintained every 2 years in accordance with the instructions set out in the Cooler Service section of this manual.
5. This warranty does not cover loss or damage to the Product caused, directly or indirectly, by adverse environmental conditions including, but not limited to, power surges, electrical storm damage, incorrect power current and floods.
6. The warranty does not apply to Product that is connected to unsuitable voltages or water supply pressures, including high water pressure and non potable water.
7. This warranty applies only to the original Purchaser and original Installation Site.
8. This warranty does not apply to any Product which has been installed in a portable building or structure.
9. This warranty does not apply to normal wear and tear or any service, which is needed as a result of an accident, misuse, abuse or negligence.
10. The Purchaser must, where deemed necessary for safe work practice, pay all costs in respect of making the Product accessible for service personnel and associated parts.
11. A travel charge will apply for service calls beyond a 100km radius from an authorised service agent.
12. Any claims made under the terms of the warranty must be supported by the original invoice issued at the time of purchase or in the case of a newly constructed dwelling, a copy of the certificate of occupancy.
13. This warranty does not apply to any ancillary components of any installation such as: control wiring, ducting, pipe work, grille, register, diffuser and fabricated or added components.
14. This warranty does not apply to any Product which has been used for any purpose other than artificially heating or cooling the air within a building or room, so as to provide a comfortable environment for the persons occupying the building or the room.
15. This warranty does not apply to installations where electrics/electronics may be subjected to moisture/chemicals, for example, swimming pools or nurseries.
16. The extended warranty needs to be purchased from Brivis within 30 days of acquiring the Product at a cost of $300.00. If you wish to purchase the extended warranty, please complete the warranty extension form on page 21 and return with your remittance in the reply paid post envelope.
17. Brivis and any related company will not be liable for any (i) special, incidental or consequential damages or loss, or (ii) damage or expense for personal injury, or (iii) loss or destruction of property arising directly or indirectly from the use or inability to use the Product or any of its parts, or the servicing of the Product.
18. Should the work involve a 2nd person due to EHS concerns Brivis reserves the right to charge.

Consumer Laws

1. Australian Purchasers have the benefit of statutory rights and nothing in these terms of Warranty has the effect of excluding, restricting or modifying those rights. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
2. For New Zealand purchasers, nothing in this warranty is intended to limit the rights you may have under the Consumer Guarantees Act 1993. The Consumer Guarantees Act 1993 does not apply if the product is acquired for the purposes of a "business" (as defined in the Act).

FOR SERVICE IN AUSTRALIA PLEASE CALL 1300 BRIVIS
FOR SERVICE IN NEW ZEALAND PLEASE CALL 0800 427 484
FOR SERVICE IN SOUTH AFRICA PLEASE CALL 011 704 6112

Warranty and Maintenance Registration

Brivis Customer Care Program

The Brivis Customer Care Program is designed to help you get the most out of your new unit.
We will write to you before each winter or summer season with some terrific discounted offers for preventative maintenance services which will keep your Brivis unit in great condition!

Would you like to join the Brivis Customer Care Program? Yes, please! ❑ No Thanks ❑

Please note: Preventative Maintenance Services are chargeable and not covered under your product warranty. Your unit needs to have reasonable and safe access and be installed inline with the installation instructions supplied with the unit. An extra charge may apply if we are required to allocate two service personnel to enable compliance with safety regulations.

Cooler Warranty Card Form - please return in reply paid envelope provided.

Site Details

Name _____

Postal Address _____

Site Address (if different to above) _____

_____State _____

Country _____Post code _____

Home phone no. ( ) _____

Work phone no. ( ) _____

Mobile phone no. _____

Cooler Purchase Details

Cooler Model _____

Date of purchase _____

Installation company _____

Serial No.

Cooler Customer Questionnaire

Please tick the appropriate box.

- *Have you been given a certificate of compliance?* Yes ❑ No ❑
- *What type of home do you live in?* Single Storey ❑ Double Storey ❑ Split Level ❑
- *What type of roof do your have?* Tile ❑ Metal ❑ Other _____
- *What is your roof pitch?*
  22 1/2 degrees or less ❑ Above 22 1/2 degrees but less than 35 degrees ❑ Above 35 degrees ❑
- *What type of wall control do you have?* Manual ❑ Programmable ❑ Brivis Networker ❑
- *Did your installer explain to you how to operate the system?* Yes ❑ No ❑

WARRANTY EXTENSION PLAN

(Brivis Contour MODELS ONLY)

You are invited to extend your Warranty Term from 3 years to 5 years by filling in the WARRANTY EXTENSION FORM enclosed with payment for $300.

This warranty is subject to the terms and conditions as set out in the owners manual.

WARRANTY EXTENSION FORM

Name _

Address _

State _ Country _

Post code _

Home phone no. ( ) _ Work no. ( ) _

Mobile no. _

❑ Cheque ❑ Money Order ❑ Mastercard ❑ Visa ❑ Bankcard

Credit card no: _ Expiry Date: _ _ / _ _

Cardholder Name _ Cardholder Signature _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

Amount $ _

BEFORE YOU CALL FOR SERVICE OR ASSISTANCE ...

Service calls can often be avoided!
If you feel your cooler is not operating property, please check these possible causes first:

Problem	Action
The unit will not turn on	Check the circuit breaker has not been tripped - if so reset it. Reset the Cooler at the power supply.
The unit is blowing warm air	Check the water supply tap is turned on at the unit. Check the pump has been selected on the wall control.
An error message is appearing on the Brivis Networker	Refer to the section on 'Coded Messages' and follow the checks.
The Brivis Networker display is blank	Check the power point is plugged in and turned on to the Cooler. Check there is power to the power point with another appliance. Check the circuit breaker has not been tripped - if so reset it .
The unit is not cooling very well	Check the water supply tap is turned on at the Cooler. Check the pump has been selected on the wall control. Check sufficient door and/or windows have been opened. Refer to Exhaust section.
There is no air coming out of some vents	Contact our service department to place a service call.
There is moisture on my tiles	Check the vents are directing air flow across the ceiling and not towards the floor. If it is humid turn the pump off. Check sufficient door and/or windows have been opened. Refer to Exhaust section.
The padlock is appearing on the screen	This indicates that the child proof lock has been activated. Refer to the section on 'Unlocking the Brivis Networker'.

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Frequently Asked Questions

Q. How often should the cooler be serviced?

A. Brivis recommend the cooler is serviced every 2 years at a minimum to ensure it operates at peak efficiency. Please Note: Due to environmental conditions the cooler may need to be serviced every year.

Q. What is done in a service?

A.

- Check filter pad material for holes or deterioration. The pads will deteriorate over time and lose their water absorption ability. Replace pads as required.
- Clean the tank and internal surfaces.
- Clean the filter pads and flush water.
- With the filter pads in position, switch ON the power supply isolating switch and operate the unit.
- Ensure the pump is operating, and visually check the pads externally for even water distribution.
- Ensure the water inlet is operating correctly.
- Ensure the water system is operating to the minimum and maximum water levels.
- Check that the water supply pressure is sufficient to fill the tank within the allotted time.
- Check the fan operates, and varies speed between the minimum and maximum setting on the Wall Control.
- Check and lubricate all moving parts.
- On Brivis Contour models, ensure the ServoSeal damper mechanism is opening and closing correctly.

Please note that to maintain your warranty, the above servicing needs to be conducted by an authorised person trained in the service of Brivis Coolers.

Q. I own an Brivis AD cooler - Why is water continually running while the unit is on?

A. All Brivis AD models use the "bleed off" method for tank water quality control. This "bleed off" will continually rid the cooler of any salt or sediments and allow for the tank to be continually topped up with clean water.

Q. I own a Brivis Advance or Brivis Promina cooler - Why does the unit dump water periodically during operation?

A. Brivis Advance and Brivis Promina coolers use the "Running Refresh" method for tank water quality control. This "Running Refresh" ensures that the salt or sediments accumulating in the cooler do not exceed an acceptable level by periodically flushing the tank while the cooler is operating.

Q. The air smells a little different. Why?

A. New Celdek pads can give off a mild odour while they are settling in. This is quite normal, it will dissipate quickly as the new pad is constantly flushed during use. It may also be indicating that the unit requires a service.

Q. How much water does my evaporative cooler use?

A. The amount of water an evaporative cooler uses is dependant on the evaporation rate of the coolers pads.

The more water the cooler can evaporate for a given condition and airflow, the more cooling potential the cooler has.

The evaporation rate varies depending on the current weather conditions, the size of the cooler, the speed of the coolers fan or the velocity of the air through the pads, and the condition and type of the filter pad material.

In addition to the cooler evaporating water, water is also displaced to maintain the water quality within the cooler so that the coolers pads and other components do not deteriorate prematurely.

Q. How much water does the tank of my cooler hold?

Model	*Tank Capacity (litres)*
Brivis Contour L24, L34, L44, L54, L64	12
Brivis Promina P24, P34, P44, P54, P64	12
Brivis Advance F24, F34, F44	15
Brivis AD 66, AD 76, AD 86	32

Q. Can I run the system when I am not home?

A. Evaporative cooling relies on doors and/or windows being open so you can run it when you are not home, provided you have the required ventilation openings.

Frequently Asked Questions (cont'd)

Q. *How many doors and windows should I have open?*
A. Refer to the section on openings required. The table gives a guide to the amount of opening area required for each model in m^2, and also gives suggestions on how to provide this.

Q. *Why is there condensation and moisture on my tiles?*
A. Make sure the vents are directed across the room and not towards the floor. make sure sufficient doors and windows are open. Refer to the section on openings required. If it is a humid day turn the pump off.

Q. *There is no air coming out of some of the vents. Can Brivis fix this?*
A. Yes, contact our service department.

Q. *Do my ducts need to be cleaned?*
A. We offer a comprehensive duct clean and santize of your Cooling ventilation. Like any other part of your home dirt, dust and other foreign particles can accumulate and breed in the ductwork and on system diffusers.

- Remove dust from your cooling system
- Kill any potentional dust mites living & breeding throughout your cooling system
- Remove odours from your cooling system
- Helps improve indoor air quality
- Allergy sufferers may benefit from clean ducts
- Clean the Cooler fan and assembly
- Clean the Supply air diffusers

Q. *Why use Brivis to have my ducts cleaned?*
A. We now offer a full service & maintenance package on all aspects of your cooling ventilation system. We are the Manufacturer of the cooling system and cover warranty on all works undertaken.

Q. *How is the duct cleaning done?*
A. The ducts are cleaned with brush technology including high pressure vacuums.
The system is sanitized with Tea Tree Oil.

Q. *How often should the ducts be cleaned?*
A. As a guide we recommend every 3 years. Allergy sufferers may wish to have the ducts cleaned more frequently.

Q. *Can I run heating through the same ductwork as my cooler?*
A. No, the differing technology between ducted heating and evaporative cooling doesn't allow the units to share the same ductwork. Also, evaporative cooling requires larger ductwork for airflow.

Q. *How far should my cooler be away from sanitary outlets?*
A. The unit should be at least a 5 metre radius away from a sanitary outlet. In WA it must be at least a 6m radius away.

Q. *How cool is cool?*
A. The degree of cooling available from any type of air conditioning, is dependent on the outside weather conditions. Your Evaporative Cooler works best on hot, dry days. After all, that's when you require the most relief.

Q. *Should the unit have its own circuit in the meter box?*
A. Yes, we recommend the power socket is wired back to the meter box on a dedicated power circuit.

Q. *Should water be coming out of my cooler during operation?*
A. Brivis Advance and Brivis Promina models will complete a flush service approximately every 20 cycles of the pumps operation. This means you will see the unit dump the water out of the overflow pipe.

Brivis Contour models will not dump any water during operation as they are fitted with an AquaSave which operates to keep the water clean.

Brivis AD models will have a small continuous flow from the drain outlet.

brivis

Australia's favourite climate systems

For all your Sales and Service enquiries call us on **1300 BRIVIS** (1300 274 847).

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GWA Heating & Cooling

Part Number: B021073
July 2011
Brivis Climate Systems Pty Ltd
ABN 64 096 078 088
AU 24752

Use & Care Guide
Washing Machine

Dear ASKO customer,
Thank you for choosing this quality product from Scandinavia, made in Vara, Sweden.
We want you to feel assured that the inside of your new machine is just as good as the outside and that the ethics and standards that went into the production of this machine are just as high as the quality and performance that you will receive from it. We hope that this product will give you many years of pleasure.
To get the most out of your new machine, we recommend that you read the installation and operating instructions before using the machine.

ASKO W6222

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Before using your machine for the first time

Transport protection
Has the transport protection been removed? If not, see the “Transport protection” chapter.

Packing material
Sort waste in accordance with local guidelines.

Washer door
The washer door cannot be opened until the machine is connected to the electricity supply.
To open the door manually, see the section entitled “The door will not open” in the “Troubleshooting” chapter.
It is not possible to start the machine with the door open.
To open the door during an ongoing programme, see the section entitled “Close the door and press Start”.

Checking water hardness
The quantity of detergent required depends on water hardness, among other things. Phone your local Water Board to check the water hardness in your area.

Safety instructions

General

- Read and keep the operating instructions!
- Installation of water and electricity, if required, should be carried out by a qualified professional.
- Damaged supply cord must only be replaced by a qualified professional.
- The machine should only be used for washing items as described in these instructions - it is not intended for dry cleaning!
- Use only detergent intended for machine washing!
- Remove any transport protection devices before using the machine (see the “Transport protection” chapter).
- Repairs and maintenance relating to safety or performance must be carried out by a qualified professional.

Installation

See the “Installation” chapter.

Overflow guard function

If the machine’s water level rises above the normal level, the overflow guard function begins to pump water out and shuts off the water intake. If the water level has not dropped within 60 seconds, the programme is terminated.

Transport/ Winter storage

If the machine is to be transported or stored in unheated premises where the temperature can fall below freezing, do as follows:

- Empty the filter and drainage pump (see the “Care and cleaning” chapter).
- Shut off the water to the washing machine, loosen the supply hose to the intake valve and let the water run out from the valve and hose.

Disposal

When the machine has reached the end of its service life and is to be disposed of, it should immediately be made unusable. Contact your local authority for information about where your machine should be disposed of and recycled in the proper way. The machine is manufactured and labelled for recycling.

Child safety

Keep an eye on children!

- Always close the door and start the programme immediately once you have added detergent.
- The appliance is not intended for use by young children or infirm persons without supervision.
- Young children should be supervised to ensure that they do not play with the appliance.
- Store detergent and fabric softener out of the reach of children!

Automatic door opening

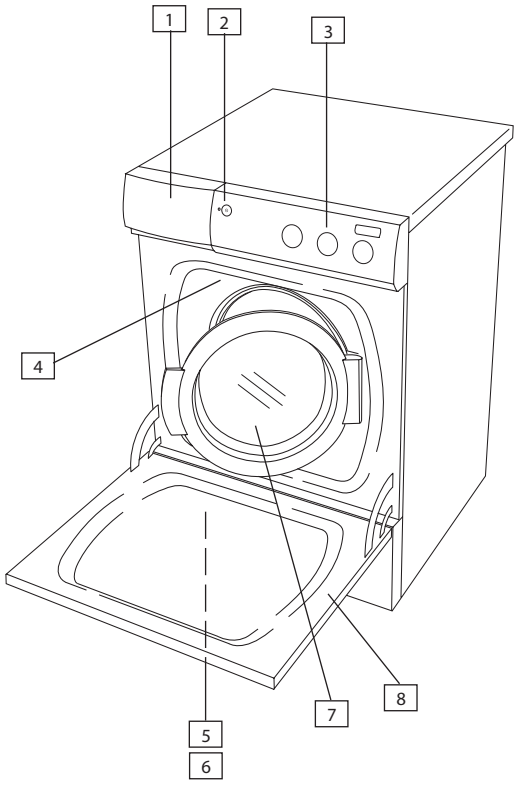
The machine comes with an automatic door opening function, which means that the door opens automatically once the programme has finished.
If you wish to prevent small children or pets from climbing into the machine, you can deactivate the automatic door opening function.

1. Turn off the machine using the main power switch.
2. Press the Door Open button while simultaneously pressing the main power switch. Release the buttons.
3. Press the Key button and the red fields go out. Automatic door opening is now deactivated.
4. Press the Start/Stop button to store the setting.

If you want to reactivate the function, follow the instructions above, but when you press the Key button (point 3) the red fields light up. Store the setting by pressing the Start/Stop button.

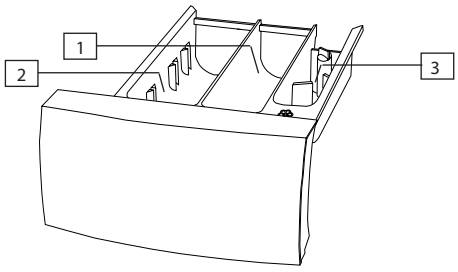
Parts of the washing machine

1. Detergent compartment
2. Main power switch
3. Programme panel
4. Type plate
5. Hatch - drainage pump
6. Drainage pump (behind hatch)
7. Washer door
8. Outer door (not all models)

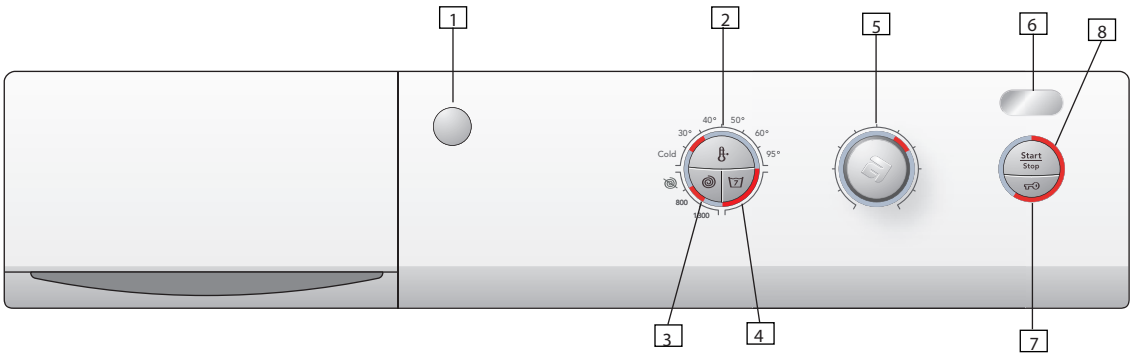


Detergent compartment

1. Detergent compartment - pre-wash
2. Detergent compartment - main wash
3. Fabric softener compartment

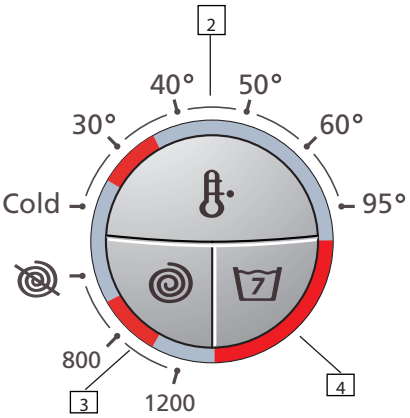


Front panel



1. Main power switch
2-4. Options buttons
5. Programme selector
6. Display window
7. Door opening
8. Start/Stop

Options buttons



2. Button for selecting Temperature
3. Button for selecting Spin speed
4. Button for selecting Super Rinse

Advice and tips before washing

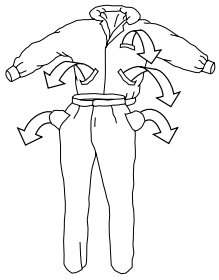
Here are some tips that may help you before washing.

Sorting your laundry

Sort items according to:
- how soiled they are
- colour
- material

Clothing

- Do up zips so that they don't harm fabrics.
- New coloured items may contain excess dye and should therefore be washed separately the first few times.
- Turn delicate items inside out. This reduces the risk of burling and fading.
- Empty pockets and wash them inside out if possible!



Laundry labels

Look at the item's laundry label. The table below indicates suitable wash programmes for various materials and wash loads.

Coloured cotton

Coloured cotton items labelled for hot washing (60°C) should be washed at 60ºC the first time in order to remove any excess dye. If you do not do so, there is a risk that the colour will run. Use detergent without bleach in order to preserve the colour of the fabric.

Delicates

Unbleached linen

Unbleached linen fabrics should be washed at 60°C, using detergent containing no bleach or optical whiteners. Heavily-soiled linen can occasionally be washed at higher temperatures, but not too often since the heat can destroy the linen's shine and strength.

Laundry label symbols

Laundry labels	Material	Programme	Load
95°	Cotton, linen, white and light-coloured items.	Normal 60° to 95°	1/1 drum
60°	Cotton, linen. Dark-coloured items.	Colour 60°	1/1
60°	Polyester, cotton/polyester, nylon. White items.	Synthetic 60°	1/2
40°	Rayon, acetate, acrylic. Non-colourfast items.	Synthetic 40°	1/2
40°	Polyester, cotton/polyester, nylon. Coloured items.	Synthetic 40°	1/2
30°	Silk and very delicate items	Synthetic 30°	1/3
	Items labelled with the IWS or Superwash mark	Wool/Hand 40°	1/3

Wool and silk

These fabrics are sometimes labelled as machine washable and sometimes as hand wash. The machine's Wool/Hand programme is at least as gentle as washing by hand.
Wool is especially sensitive to processes such as washing. If you do not want to spin it, you can squeeze out the water using terry towels. In this case select No spin. To find out how to select this setting, see the "Washing" chapter. However, most items can stand a short spin. Select short spin by selecting spin speed 800 rpm.

Artificial fibres and synthetic fibres

These materials require plenty of room if they are not to become wrinkled. Only fill the drum half way when washing artificial or synthetic fibres. Select short spin by selecting a spin speed of 800 rpm.

Note!

Viscose and acetates are fragile when wet.

Reducing the risk of allergic reactions

The washing machine is equipped with a Super Rinse option. Use this for the benefit of people with sensitive skin, such as those with allergies and small children.

Economy and efficiency

You can save a lot of energy by not using more intensive programmes than necessary.
• Select Quick if you just need to freshen up shirts or exercise clothes, for example. This will save both water and energy.
• If you select a fast spin speed, this reduces energy consumption when drying in a tumble dryer or airing cupboard.

Dyeing fabrics

If you want to dye fabrics in the machine, select the Normal programme with the Super Rinse option On. Select temperature according to the dye manufacturer's recommendations.
If the fabric to be dyed is blended material such as cotton/polyester, select spin speed 800 rpm.

Note!

Add the dye directly to the washing drum – not to the detergent compartment. After dyeing, you should run the machine empty using the same programme. Use the normal amount of detergent.

Note!

When using agents for bleaching or stain removal, there is a risk of rust (corrosion) and discolouration of the machine. Environmental concerns also lead us to discourage the use of strong chemicals.

Washing

1 Sort your laundry

See the Advice and Tips section before washing.

Note!

Empty pockets. Coins, nails and the like can cause damage to the machine and fabrics.

2 Turn on the main power switch

3 Open the washer door and load the washing

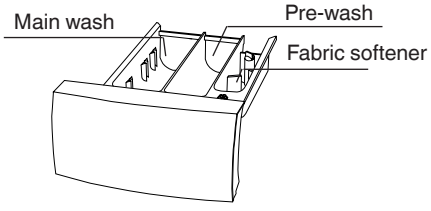
If the door is closed, press the Key button (door open). The red field lights up and the door opens after a few seconds. Load the laundry. The laundry programme chart shows how much laundry can be washed with each programme.

4 Add detergent and fabric softener, as required

The detergent packaging will have recommendations for how much detergent you should use. The machine holds 6.0 kg of laundry. Overdosing the detergent may cause bad wash performance. For lightly soiled load when used on Normal wash 40°C, we recommend reducing the amount of detergent.

Powder detergent

Pour the powder into the compartment for the main wash, and pre-wash as well if desired.



Liquid detergent

When using liquid detergent, follow the detergent manufacturer's recommendations.

Wash ball or net

If you use a wash ball or net, place it directly in the drum and select a programme without pre-wash.

Note!

Detergent overdosing does not give better washing results, but merely causes a greater impact on the environment.
Try to use less detergent, and increase only if you are not satisfied with the results.

Fabric softener

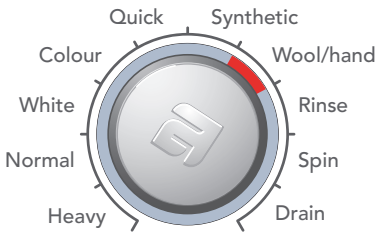
Pour the fabric softener into the compartment with the ❀ symbol. Use the dosage given in the recommendations on the fabric softener package.

Note!

Do not fill above the compartment's maximum fill level. Otherwise fabric softener will run in too early, which impairs the washing effect.

5 Select programme

You can select a programme by turning the programme selector. A red field lights up beside the selected programme, and the estimated programme time is shown in the display window. Start by pressing the Start/Stop button, or go on to Options and Settings. Guidelines as to what specific programmes can be used for.



Heavy
Use this programme for heavily-soiled laundry. You only need to use the maximum temperature, 95 °C, if the laundry is **very** heavily soiled.

Normal
This programme is equivalent to the Heavy programme, but without a pre-wash. To be used for heavily-soiled whites where 60 °C is an adequate temperature.

Quick white wash
Normally-soiled sheets, pillowcases and towels will come clean at 60 °C.

Colour
Garments worn next to the skin should be washed at 60 °C. Lightly-soiled laundry can be washed at 40 °C. Most detergents today clean even at 40 °C.

Quick
Lightly-soiled laundry that only needs freshening up can be washed in a short time at 40 °C.

Synthetic
This programme is good for shirts and blouses of synthetic and blended material. Wash white items at 60 °C and coloured items at 40 °C.

WoolHand
This programme is used for items marked as Wool and/or Hand wash only.
Maximum temperature is 40 °C, and the programme has a short spin.

Rinse
This programme performs one rinse cycle + spin. Good for cleaning cloths and mops.

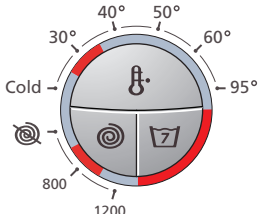
Spin or Drain
To be used when you only want to spin the load or drain the water from the machine.

Programme chart

Programme	Pre-wash	Main wash	Temp. °C	Rinses (number)	Short spin (number)	Final spin	Max. RPM	Max. load	Water consumption (approx. litres)	Energy consumption (approx. kWh)	Programme time (approx. min)
Heavy	Yes	Long	95	5	3	Long	1200	1/1	65	2.20	170
Normal*	No	Long	40	3	3	Long	1200	1/1	50	0.48	110
White	No	Short	60	3	3	Long	1200	1/1	54	1.00	90
Colour	No	Short	40	3	3	Long	1200	1/1	54	0.50	70
Quick	No	Short	40	2	0	Long	1200	1/2	22	0.30	35
Synthetic	No	Short	40	3	0	Short	800	1/2	30	0.30	65
Wool/Hand	No	Short	30	3	0	Short	800	1/3	54	0.30	40
Rinse				1	0	Long	1200	1/1	9	0.05	16
Spin					0	Long	1200	1/1		0.05	11

* Programme tested in accordance with AS/NZS 2040.1:1998

6 Select options and settings



By adjusting options and settings you can tailor washing programmes to suit your own laundry requirements.
The machine remembers which settings and options you choose for each programme and uses these the next time you select the programme in question. Naturally, you can change the selection if you wish.

Temperature
Select temperature by pressing the Temperature button until the red field lights up beside the desired temperature.
You can select temperatures between 30 °C and 95 °C or C. If you select C, the washing temperature will be the same as that of the water entering the machine.
For Wool/Hand, it is not possible to select a temperature in excess of 40°C (see the table).

Spin speed/No spin
Select spin speed by pressing the Spin button until the red field lights up beside the desired spin speed.
You can choose from No spin, 800 rpm and 1200 rpm.
Spin at 800 rpm always signifies short spin.
For certain programmes, it is not possible to select a speed in excess of 800 rpm (see the table).
No spin means that the programme does not include a spin cycle and ends by draining.

Super Rinse
Selecting Super rinse gives you 2-4 extra rinses in all programmes except Wool/Hand, Spin, Drain and the Rinse programme.
A lighted red field indicates that the option has been activated.
programme and press the Start/Stop button.

7 Close the door and press the Start/Stop button

Time remaining
The time remaining is shown in hours and minutes.
Once a programme has been selected, an estimated running time for the complete programme is displayed. This may differ from time to time depending on the temperature of the water entering the machine and the size of the load. During the actual programme the time counts down in minutes. If the programme time is longer than a previous wash with the same programme, “1” will be displayed until the programme is finished.

To add or remove washing after the programme starts
If you want to add or remove items after the programme has started, you can stop the programme by pressing and holding the Key button (door open) for three seconds. The red field flashes. When restarting, add any extra detergent needed and close the door. The machine starts automatically from the point where the programme was interrupted.

If you want to stop or change a programme
You can also stop a programme by pressing the Start/Stop button for three seconds. To restart the machine, select a new programme, add any new detergent needed and press the Start/Stop button.

8 Once the programme has finished

Once a programme is finished, “End” is shown in the display.
The door opens automatically once the programme has finished. If you want to deactivate “automatic door opening”, see the “Child safety” chapter.
• Remove the laundry.
• Switch off the main power switch.
If you have small children or pets at home, close the washer door once you have removed the laundry.

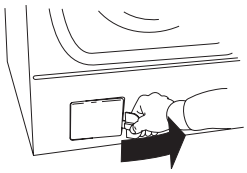
Care and cleaning

Checking the filter and drainage pump

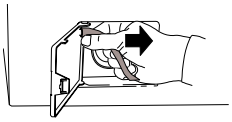
The washing machine has a filter, where coins, hairpins and the like can get caught. To clean the filter and drainage pump:

1. Make sure the machine is empty of water and that it is switched off at the mains.

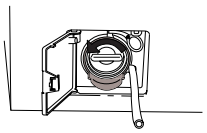
2. Open the drainage pump hatch. Use the partition for the detergent compartment as shown in the picture.



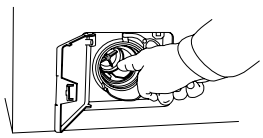
3. Drain out the water, into a bowl, for example, by unhooking the drainage hose from the pin inside the hatch.



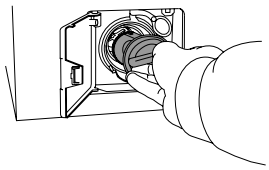
4. Open the pump by screwing the cover anti-clockwise. Remove the cover with the filter.



5. Remove any objects or rubbish from the pump housing. Check to see that the pump blades, right at the back, will rotate.

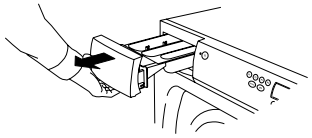


6. Screw on the cover and filter, replace the drainage hose on the hatch pin and close the hatch.

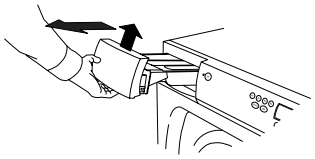


Cleaning the detergent compartment

Pull the detergent compartment out as far as it will go.



Then pull it up and out as shown in the illustration. Rinse the detergent compartment and brush it clean.



Replace the compartment.

Note!

Do not run the detergent compartment through a dishwasher!

Cleaning the outside of the machine

Clean the outside of the machine and the programme panel with a mild cleaner. Do not use any solvents, as these can damage the machine.

Note!

Do not hose down or spray the machine with water.

Cleaning the inside of the machine to avoid unpleasant smells

Modern washing detergents often allow washing at low temperatures. This means, however, that small deposits can build up in the machine. These, in turn, may lead to unpleasant smells developing.

To avoid this, we recommend running a 95° wash programme now and again. When you do this, use a small quantity of detergent. It is not necessary to put any actual washing in the machine.

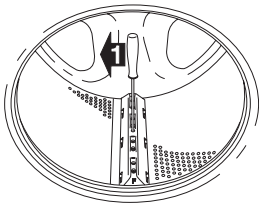
Rinse holes under the agitator

If you think that objects such as nails, paper clips, needles or the like may have fallen into the wash drum, you should check under the agitator. Such objects can rust and cause spots on clothing. Nails and other sharp objects can cause holes in fabrics.

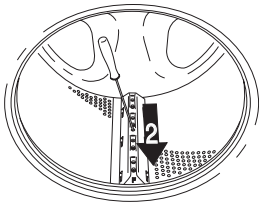
Do as follows:

1. Use a screwdriver or similar tool.

2. Insert the screwdriver into the central hole on the agitator and twist the screwdriver handle gently to the left.



3. With your other hand, grasp the agitator and pull it towards you as shown in the illustration.



4. Lift the agitator.

5. Remove any objects.

6. Place the agitator in the mounting hole with the F-mark towards you. Ensure that all the agitator fasteners are in their holes in the drum. Push it away from you until it catches.

If you have hard water

If you live in an area with hard water, the washer drum may develop a greyish-white coating. To get rid of this, empty a sachet of citric acid, approximately 20 grams, into the washer drum and run the Normal wash at 95° C. You can find citric acid among the spices, etc. at your local supermarket.

Troubleshooting

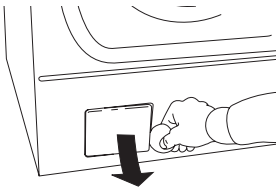
The washer door will not open

1. Check that the main power switch is on.
2. Is there power? Check your home's fuses (circuit breakers). The washer door cannot be opened with the Key button if power is off.
3. If nothing else works, the washer door can be opened as follows:

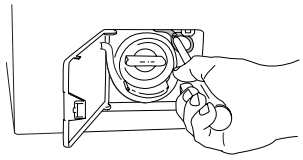
• First check that there is no water left in the machine. If there is any water left and you are unable to run the Drain programme, empty the machine by detaching the drainage hose. This is described under the heading "Checking the Filter and Drainage pump", in the "Care and cleaning" chapter.

• Ensure that the main power switch is off.

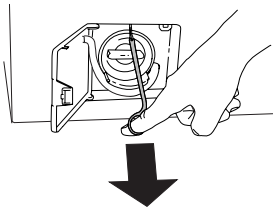
• Open the hatch to the drainage pump, bottom left as shown in the illustration.



• Unfasten the screws holding the red plastic handle in place.



• Pull the handle and the door opens.



• Insert the handle back into its slot and screw it tight. Close the hatch to the drainage pump.
If the washer door still will not open in the normal way, contact the service division.

The machine will not start

1. Is the washer door properly closed? Push it firmly.
2. Is there power? Check your home's fuses.

Error messages

The display indicates if an error has occurred during operation. In order to exit error message status after implementing the measures below, turn off the machine.
The error messages that may be shown are:

The door is not closed

If the first red field beside the Start/Stop button is flashing, you tried to start a programme with the washer door open. Close the door and the programme will start.

Overfilling

If **F1** is flashing in the display.
1. Shut off the water tap.
2. Call the service division.

Drainage error

If **F3** is flashing, there is a problem with drainage. Check:
- that no objects are stuck in the drainage hose outlet.
- that the drainage pump is not blocked by foreign objects. Clean the pump (see the "Care and cleaning" chapter).
- that there are no kinks in the drainage hose.
After implementing corrective action, run the Drain programme or press the Key button (door open) to empty the machine. If this does not help, call the service division.

Water intake error
If **F4** is flashing in the display.
Fault with water supply. Check:
- that the tap on the water pipe is open.
- that the filter in the machine's water intake is not blocked.
1. Shut off the water tap.
2. Unscrew the hose.
3. Clean the filter in the intake valve on the machine.
4. Screw the hose back on.
5. Turn on the tap.
6. Run the programme again to check if the fault is fixed.
7. If the fault remains, call the service division.

Door opening error
If **F6** is flashing in the display, call the service division.

Technical information

Technical data

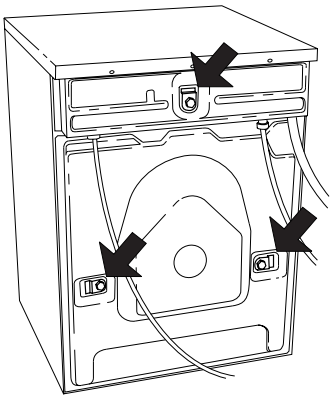
Height:	850 mm
Width:	595 mm
Depth:	585 mm
Weight:	73/78 (with outer door) kg
Cylinder volume:	50 l
Max. washing capacity:	6.0 kg
Spin speed:	800/ 1200
Rated power:	See type plate.
Element power:	See type plate.
Water pressure:	0.1 - 1 MPa 1 - 10 kp/cm^2 10 - 100 N/cm^2
Wash drum and liquid compartment material:	Stainless steel
Outer casing material:	Powder-coated and ParaStyle:Technical information hot-galvanized sheet steel or stainless steel.
Setup:	Stationary on four adjustable, rubber-clad feet
Water connection:	1.5 m PEX tubing
Drain:	1.7 m polypropylene tubing

Standard tests

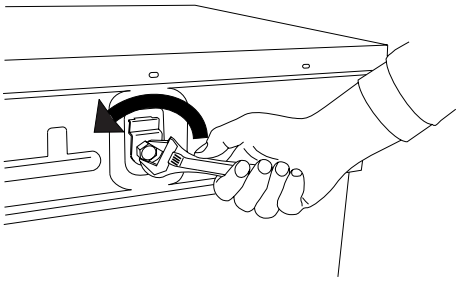
Australia:	AS/NZS 2040.1:1998
Washing programme:	Normal, 40°C, 6.0 kg cotton
Connection:	Cold water 15°C
Test method noise measurement:	IEC-60704-2-4

Transport protection

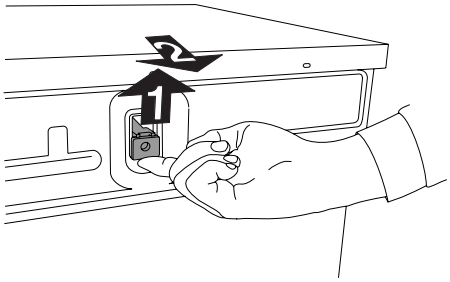
Before the machine is used, the three transport protection devices should be removed as shown below.
Each transport protection device consists of a screw, a washer, and a rubber spacer. The rubber spacers are used after removal as protection for the transport protection device holes.



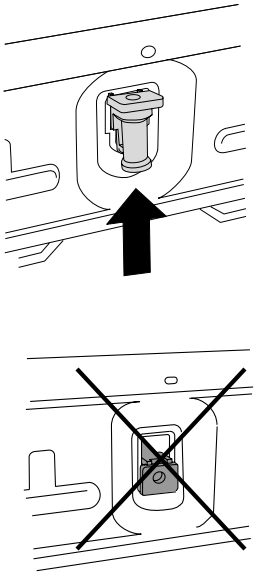
1. First remove the screws and remove the washers.



2. Then remove the rubber spacers.



3. Finally, the rubber spacers should be turned over and replaced in the transport protection device holes.



Installation

Positioning the washing machine

The washing machine can be installed as a built-in or freestanding unit. Position the machine so that the electrical plug is easily accessible.

A. Built-in

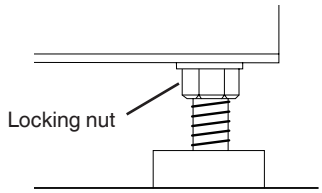
The washing machine can be installed under a counter top with a working height of 850-900 mm. Leave a space of approximately 5 mm around the machine.

B. Freestanding

The washing machine can be positioned beside or under a dryer.

Adjusting the feet

Adjust the feet so that the machine is steady and balanced on the floor. Tighten the locking nuts.



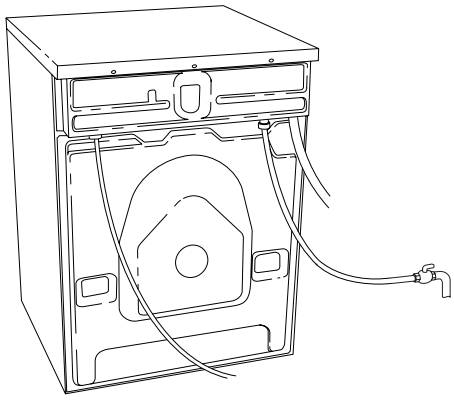
Connection to water supply

Water connection should be carried out by a qualified person.

Connect the machine using the accompanying supply hose. Water pressure should be 0.1–1MPa (approx. 1–10kp/cm^2 ; 10–100N/cm^2).

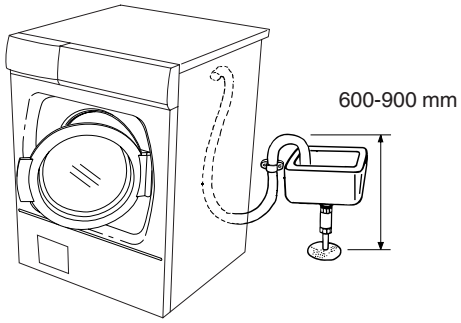
There should be a stopcock on the water pipe.

If the pipes are newly installed, it may be wise to flush them through so that any dirt is washed away. Otherwise, dirt can clog the filter in the machine's water intake and cut off the water supply.



Drainage connection

The machine is supplied with a connected drainage hose that can be fastened to a laundry sink or similar. The height must be 600 - 900 mm above floor level.



A lower position (600 mm) is always preferable. Ensure that the drainage hose has no kinks.

Electrical installation

Electrical connection must be via a plug connected to an earthed wall socket or by cable for fixed installation and all-pole disconnection, by a qualified professional.

Caution! ⚠

If this appliance is supplied from a cord extension set or an electrical portable outlet device, the cord extension set or electrical portable outlet device must be positioned so that it is not subjected to splashing or ingress of moisture.

Connection on delivery

The machine is supplied as single-phase, 230V with plug, heat output 2000 W and has a 10A fuse. Any earth fault fuses must be type A.

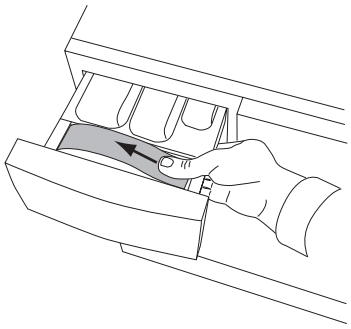
Note!

Repairs and maintenance relating to safety or performance must be carried out by a qualified professional.

Programme plate in multiple languages

Certain machines include double-sided programme plates in different languages (see the detergent compartment and the bag with the user handbook that comes with the machine).

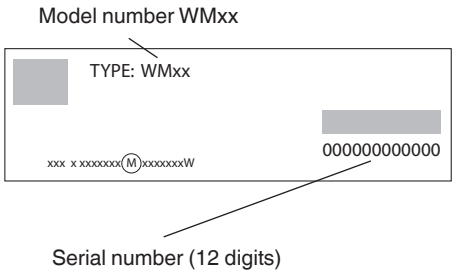
You can replace or turn the card yourself for the most appropriate language for you.
To remove the card from its holder in the detergent compartment, press the card with your thumb and push it sideways (see illustration). The card will then bend slightly and you can easily remove it.
To fit the card, bend it slightly in order to easily insert it into the holder in the detergent compartment.

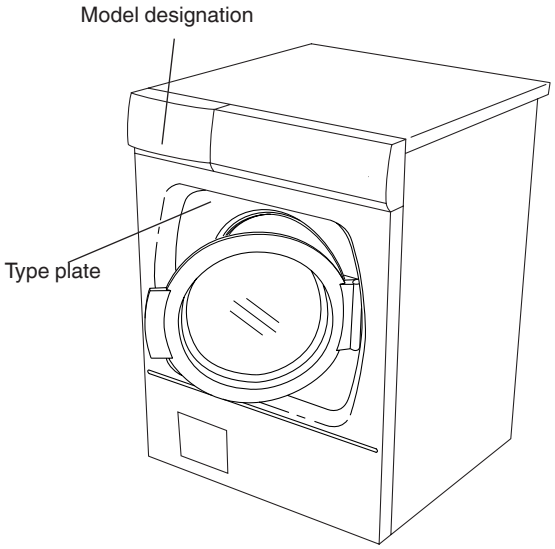


Service

Before contacting the service division,

make sure you know the model designation, type designation and serial number. The model designation can be found on the detergent compartment. Type designation and serial number can be found on the type plate above the washer door.





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Quick guide

1 Washing

• Empty pockets and do up zips.
• Read the item's laundry label.
• Sort your laundry.

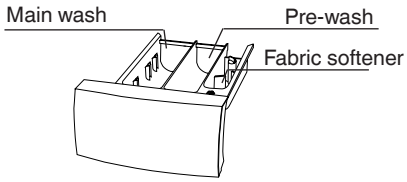
NB! Place underwired bras in a laundry net

2 Load the laundry

• Press the main power switch.
• Press and hold the Key button for 3 seconds to open the door.
• Load the laundry and close the door.

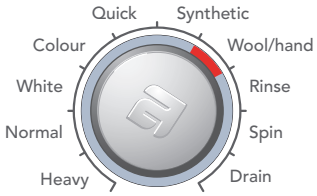
3 Detergent compartment

• Pour detergent into the main wash compartment, and pre-wash compartment as well if required. Pour fabric softener into the compartment on the right with the ❀ symbol.
If you use liquid detergent, follow the detergent manufacturer's recommendations.

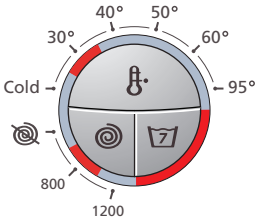


4 Select programme

• Select a programme by turning the programme selector.



• Select any options and settings.



• Press the Start/Stop button.

5 Programme finished

• The text **End** in the display indicates that the wash programme has finished.
• The washer door opens automatically once the programme has finished.
• Remove the laundry.
• Switch off the main power switch.
If you have small children or pets at home, close the washer door once you have removed the laundry.

Item No.: 80 790 18. Rev. 01. We reserve the right to make changes.
Printed on environmentally-friendly paper that meets the demands of the Swedish environmental organisations Miljöförbundet and Naturskyddsföreningen.

CE

Use & Care Guide

Tumble dryer

Dear ASKO customer,
Thank you for choosing this quality product from Scandinavia, made in Vara, Sweden.
We want you to feel assured that the inside of your new machine is just as good as the outside and that the ethics and standards that went into the production of this machine are just as high as the quality and performance that you will receive from it. We hope that this product will give you many years of pleasure.
To get the most out of your new machine, we recommend that you read the Use & Care guide before using the machine.

ASKO T712C

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Before using your machine for the first time

Do not tumble-dry

Certain materials are sensitive to tumble-drying. Always check and follow an item's laundry label. You can read more on page 9, "Before tumble-drying".

Note!

When starting the tumble dryer for the first time or after a long period without use, you may notice a slight thumping sound. This is completely normal and will stop after a few loads.

See the Quick guide on the last page.

Safety instructions

General

- Study and save this Use and Care Guide for future reference.
- Electrical installation, if required, must be carried out by an authorized electrician.
- The machine may only be used for tumble drying in accordance with this Use and Care Guide.
- Repairs and maintenance which affect safety or performance must be carried out by an authorized specialist.
- Damaged supply cord must only be replaced by a qualified professional.
- Adequate ventilation has to be provided to avoid the back flow of gases into the room from appliances burning other fuels, including open fires.

Installation

See the "Installation" chapter.

Safety

The tumble dryer is not to be used if industrial chemicals have been used for cleaning.
The tumble dryer is intended only for drying textile material washed in water.
The tumble dryer is fitted with an overheating protection device, which switches the machine off in the event of excessive temperature.
A float valve switches the machine off if the condensation water hose becomes clogged, or if there is danger of water over flowing from the container.
The appliance is not intended for use by young children or infirm persons without supervision

Children's Safety

Young children should be supervised to ensure that they do not play with the appliance.
The tumble dryer is fitted with a magnetic catch, which allows the door to be opened from the inside. The door is equipped with a switch, which automatically stops the tumble dryer when the door is opened. The machine will not start automatically on closing the door (eg, if a child should close the door from the inside).
Do not allow children to play with the tumble dryer.
The tumble dryer has a magnetic catch, allowing the door to be opened from the inside. The door has a door-switch that automatically stops the tumble dryer when the door is opened. The tumble dryer does not start automatically when the door closes (e.g. if a child closes the door from inside).

Interrupting a program

The easiest way to stop the tumble dryer is to open the door, causing the drum to stop automatically. If you wish to continue the drying process, just close the door and press the button and the machine will start where it was interrupted.
You can also stop the tumble dryer by pressing the button.

Transport/Winter storage

If the machine is to be transported or stored during the winter, on unheated premises, ensure that the condensation water tank is drained.

Packing material

Sort the packing material for recycling according to recommendations by the local authorities.

Disposal

Contact your local refuse collection service or your local authorities for advice on how to scrap the tumble dryer in a proper manner for recycling.
The tumble dryer is made and marked to facilitate recycling.

Caution

During operation, the back of the tumble dryer will get very hot. Leave the machine to cool completely before touching the back.

Safety instructions

To minimize the risk of fire in a tumble dryer, the following should be observed:

• Items that have been spotted or soaked with vegetable or cooking oil constitute a fire hazard and should not be placed in a tumble dryer.
Oil-affected items can ignite spontaneously, especially when exposed to heat sources such as in a tumble dryer. The items become warm, causing an oxidation reaction in the oil. Oxidation creates heat. If the heat cannot escape, the items can become hot enough to catch fire. Piling, stacking or storing oil-affected items can prevent heat from escaping and so create a fire hazard.
If it is unavoidable that fabrics that contain vegetable or cooking oil or have been contaminated by hair care products be placed in a tumble dryer they should first be washed in hot water with extra detergent - this will reduce, but not eliminate, the hazard. The 'cool down' cycle of tumble dryers should be used to reduce the temperature of the items. They should not be removed from the tumble dryer or piled or stacked while hot.

• Items that have been previously cleaned in, washed in, soaked in or spotted with petrol/gasoline, dry-cleaning solvents or other flammable or explosive substances should not be placed in a tumble dryer.
Highly flammable substances commonly used in domestic environments include acetone, denatured alcohol, petrol/gasoline, kerosene, spot removers (some brands), turpentine, waxes and wax removers.

• Items containing foam rubber (also known as latex foam) or similarly textured rubber-like materials should not be dried in a tumble dryer on a heat setting.
Foam rubber materials can, when heated, produce fire by spontaneous combustion.

• Fabric softeners or similar products should not be used in a tumble dryer to eliminate the effects of static electricity unless this practice is specifically recommended by the manufacturer of the fabric softener or product.

• Undergarments that contain metal reinforcements should not be placed in a tumbledryer.
Damage to the tumble dryer can result if metal reinforcements come loose during drying. When available a drying rack could be used for such items.

• Plastic articles such as shower caps or babies' waterproof napkin covers should not be placed in a tumble dryer.

• Rubber-backed articles, clothes fitted with foam rubber pads, pillows, galoshes and rubber-coated tennis shoes should not be placed in a tumble dryer.

Vented dryers

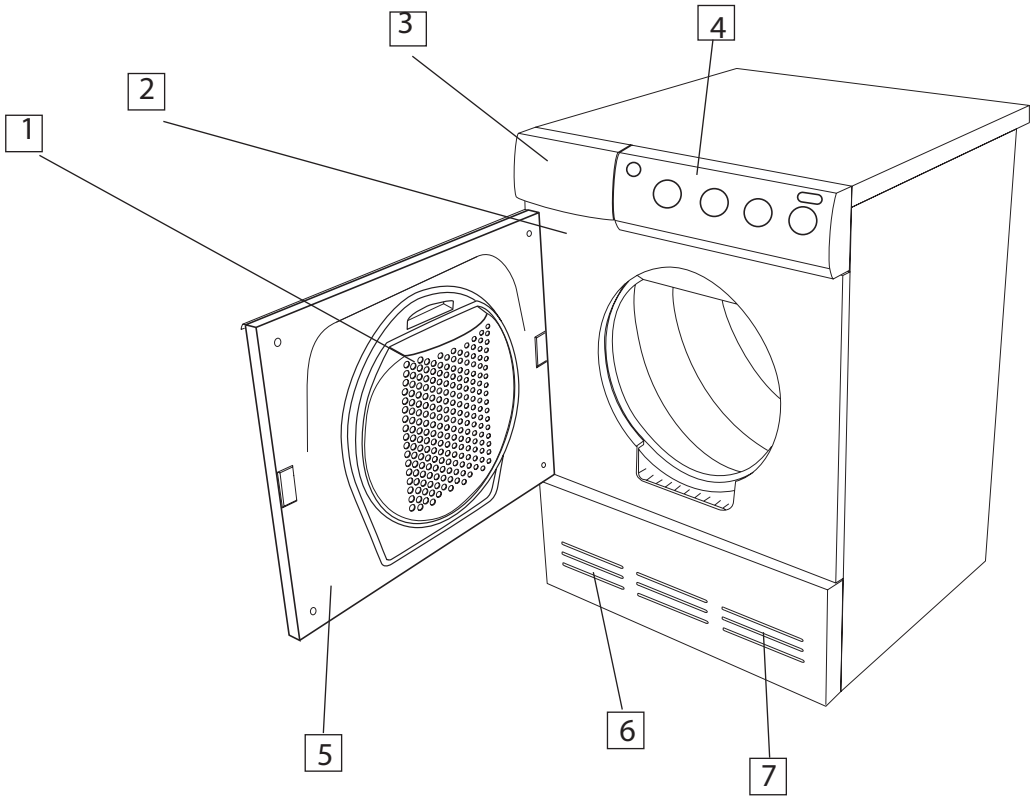
• that there has to be adequate ventilation to avoid the back flow of gases into the room from appliances burning other fuels, including open fires, when operating the tumble dryer.

• that exhaust air must not be discharged into a flue which is used for exhausting fumes from appliances burning gas or other fuels

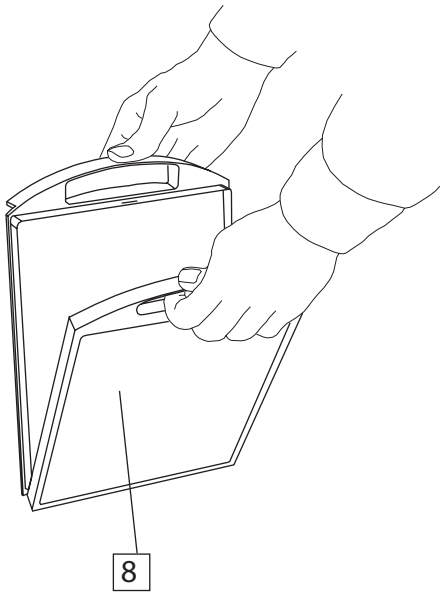
Caution!

Air from the tumble dryer must not be fed through ducts used for equipment that burns gas or other fuels.

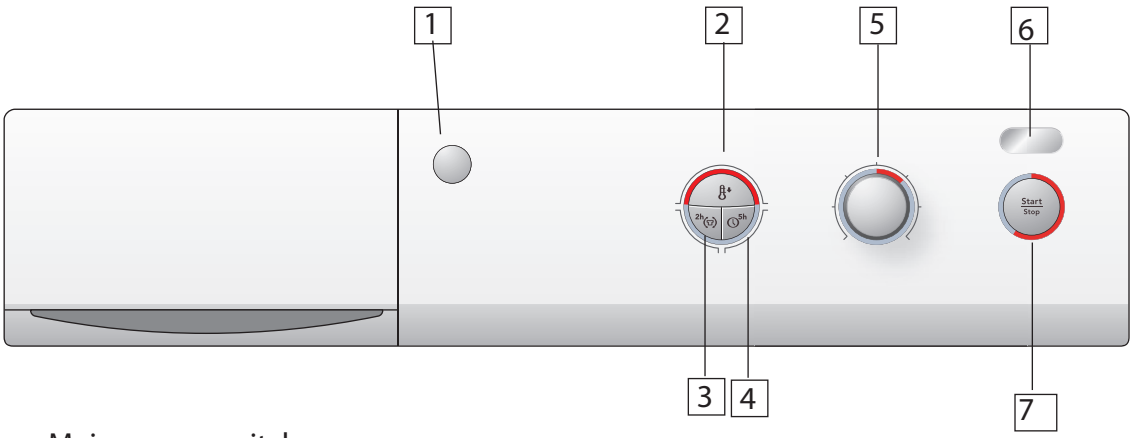
Parts of the tumble dryer



1. Fluff filter holder
2. Type plate
3. Condensed water container
4. Panel
5. Outer door
6. Fan (behind the front plate)
7. Condenser (behind the front plate)
8. Fluff filter

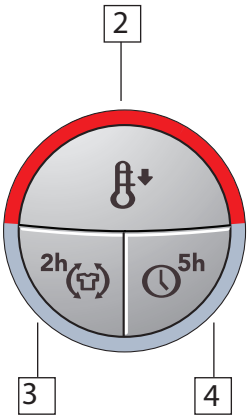


Front panel



1. Main power switch
2-4. Options buttons
5. Programme selector
6. Display
7. Start/Stop

Options buttons



2. Button for selecting Low Temperature
3. Button for selecting Anti-crease Programme
4. Button for selecting Delayed Start 5 h

Advice and tips before you tumble-dry

Here are some tips that may help you before you begin tumble-drying.

Has it been spun?

Items to be tumble-dried should be spun at 1000 rpm or faster. Better spinning saves both energy and drying time.

◯ Laundry labels

Materials that can be tumble-dried
This symbol means that the material is suitable for tumble-drying. Fabrics best suited to tumble-drying are cotton fabrics, terry cloth and synthetic fibres. Garments will be softer and lighter when tumbled than when hung out to dry.

Note!
Wear to fabrics in the tumble dryer is insignificant. The fluff that gets caught in the fluff filter is dust and fibre remnants formed when the items are used.

☒ Materials that must not be tumble-dried

This symbol means that the material is not suitable for tumble-drying.
Certain materials may melt or become a fire hazard if exposed to heat, and others lose their shape or shrink.

And do not tumble-dry...

- materials labelled "Do not dry near heat",
- garments that have been dry-cleaned at home,
- foam plastic,
- fibreglass material,
- wool must not be tumble-dried due to the risk of felting.

Tumble-drying

Below are step-by-step instructions to help you achieve the best possible tumble-drying results.

1 Sort your fabrics

You will achieve the most uniform drying results if the items are the same material.
Do up zips and buttons, fasten belts, sort the items and adjust load and temperature.

2 Turn on the main power switch

3 Open the door, load the items and then close the door

4 Select programme

The choice of programme depends on what you intend to do with the items after tumbling. The programme options are Extra Dry, Dry, Normal Dry, Iron Dry, Timed programme and Airing.

Extra Dry
This programme is for items that are particularly difficult to dry, e.g. jeans with very thick seams.

Note!
Knit fabrics in particular are prone to shrinkage. Use the Dry, Normal Dry or Iron Dry programmes for such items. Stretch clothes back into shape immediately after drying.

Dry, Normal Dry
These programmes shut off the heat once the load is dry without being "bone-dry". The Dry programme shuts off the heat slightly later than Normal Dry. Use trial and error to find out what works best. Use these programmes when you want items to be completely dry.

Iron Dry
This programme shuts off the heat once the load is just damp enough for ironing or pressing.

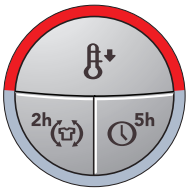
Timed programme 60 min

The Timed programme has a fixed drying time and tumble-dries the load for 60 minutes.

Airing 60 min

Use the Airing programme when you just want to refresh, air or soften up items.

5 Select options



By selecting options, you can tailor drying programmes to suit your own laundry requirements.
The machine remembers which settings and options you choose for each programme and uses these (with one exception - Delayed start) the next time you select the programme in question. You can, of course, change them again if you wish.

Low temperature
Select or deselect Low Temperature by pressing the Temperature button.
Once Low Temperature has been selected, the red field next to the button lights up.

Anti-crease
This option means that the drum will rotate three seconds per minute for two hours once the drying programme has finished. This option prevents the items remaining in the same position and becoming creased. A useful feature if you are not able to remove the load as soon as tumble-drying has finished.
A lighted red field by the button indicates that the Anti-crease option has been activated.

Delayed Start
Select or deselect this option by pressing the Delayed Start button. The machine will start the programme 5 hours after you select this option + the Start/Stop button.
A lighted red field by the button indicates that the option has been activated. If you change your mind, press the Start/Stop button for three seconds. You can now start the machine as usual

6 Press the Start button

Drying time remaining
An estimate of the remaining drying time will be shown in the display within 2 minutes of the drying programme starting. For example, 1:35 means that approximately 1 hour and 35 minutes remain until the load achieves the selected level of dryness. If the Anti-crease option has been selected, the drum will rotate every minute for 2 hours after cooling.

If you want to stop or change a programme.
Press and hold the Start/Stop button for 3 seconds. The red field next to the button goes out.

Note!
The programme is not affected if the programme selector is changed after the programme starts.

To load or remove washing
If you want to load or remove washing once you have started the machine, open the door and the machine will stop automatically. Load more washing, close the door and press the Start/Stop button.

7 Drying programme finished

The text End in the display indicates that the programme has finished.
If the Anti-crease option has been selected, the drum will rotate every minute for 2 hours after cooling.

Important! ⚠
• Clean the fluff filter after each load.
• Drain the condensed water container after each load.

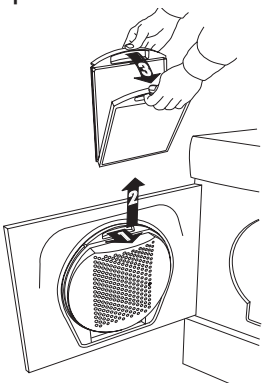
Caution! ⚠
If the fluff filter becomes clogged, the machine's automatic overheating cut-out may be triggered. To enable the machine to be restarted, the filter must be cleaned and the machine allowed to cool for around 30 minutes.

Cleaning the fluff filter
1. Grasp the filter handle and pull it towards you.

2. Pull the filter out of its holder.

3. Open the filter and remove the fluff by hand.

4. Fold the filter up and re-insert it into its holder. The filter may need to be cleaned if limescale deposits occur, see "Care and cleaning" chapter.



Draining the condensed water container

The condensed water container must be drained after each load.

Remove the condensed water container, empty out the water and replace the container.

If the condensed water container becomes full to overflowing, the programme is interrupted and F1 is shown in the display. Empty the container and press the Start/Stop button to restart the programme. See also Error Messages on page 16 in the "Troubleshooting" chapter.

Note!

Do not remove the condensed water container while the machine is switched on.

Advice!

As the condensed water is decalcified, it can be used in steam irons. Pour through a coffee filter.

Automatic drain

If you want the water to drain automatically, please see Installation.

8 Once drying has finished

Switch off the main power switch. Remove the clothes, and close the door to prevent small children from climbing into the machine.

Consumption values

For the consumption values given below, the following prerequisites apply:
Temperature of intake air: 20 °C.
Moisture content of intake air: 65 %.
Drying temperature: Normal or low.
Element power: 1950 W.
Before tumble-drying, cotton fabrics are spun at 800 and 1600 rpm (long spin).
Before tumble-drying, other fabrics (crease-resistant and acrylic) are spun at 800 rpm (short spin).

Programme	Material	Temperature	Max. load (kg)	Energy consumption (approx. kWh)		Programme time (approx. min.)	
				800 rpm	1600 rpm	800 rpm	1600 rpm
Extra Dry	Cotton, linen	Normal	6.0	5.0	4.1	155	130
Dry	Cotton, linen	Normal	6.0	4.2	3.2	130	100
Dry	Crease-resistant, polyester/cotton	Normal	3.0	1.8	-	60	-
Normal Dry	Cotton, linen	Normal	6.0	3.8	2.9	120	95
Normal Dry	Crease-resistant, polyester/cotton	Normal	3.0	1.7	-	55	-
Normal Dry	Acrylic, rayon, acetate	Low	3.0	2.1	-	80	-
Iron Dry	Cotton, linen	Normal	6.0	3.4	2.3	105	75

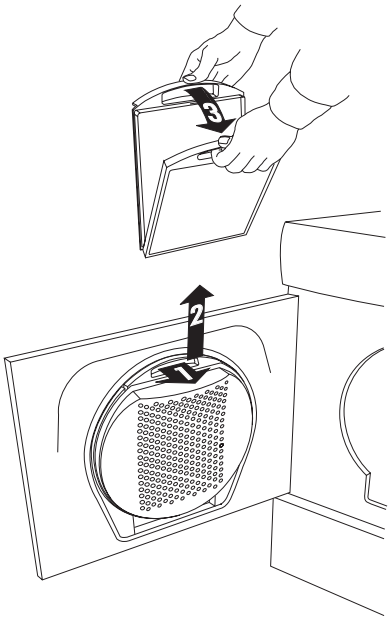
Care and cleaning

Cleaning the fluff filter

The fluff filter must be cleaned after each load.
If you have very hard water, this can cause limescale deposits in the fluff filter. Check for any limescale deposits when cleaning the fluff filter and, if necessary, wash down the filter by hand.

1. Grasp the filter handle and pull it towards you.

2. Pull the filter out of its holder.



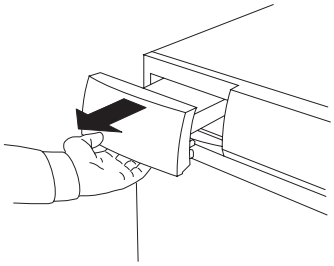
3. Open the filter and remove the fluff from all sides by hand. Use a soft dry cloth to remove any coating.

4. Replace the filter in its holder.

Note!
If you have hard water, the filter should be washed down with water to get rid of any limescale deposits.
Dry the filter carefully with a towel.

Draining the condensed water container

The condensed water container must be drained after each load.
Remove the condensed water container, empty out the water and replace the container.



If the condensed water container becomes full to overflowing, the programme is interrupted and the error message F1 is shown in the display. Empty the container and press the Start/Stop button to restart the programme.
See also Error Messages on page 16 in the "Troubleshooting" chapter.

Note!
Do not remove the condensed water container while the machine is switched on.

Cleaning the outside of the machine

Clean the outside of the machine and the programme panel with a mild cleaner. Do not use any solvents, as these can damage the machine. Do not hose down or spray the machine with water.

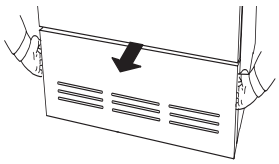
Note!
Do not allow dust to accumulate around the machine. Keep the area around the tumble dryer clean and cool; dust, heat and moisture prolong drying times.

Cleaning the condenser

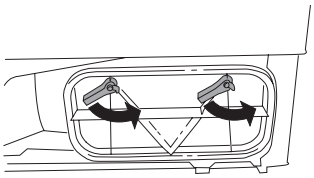
The condenser should be cleaned at least three times a year. If you have pets, the condenser must be cleaned more frequently.

1. Switch off the main power switch.

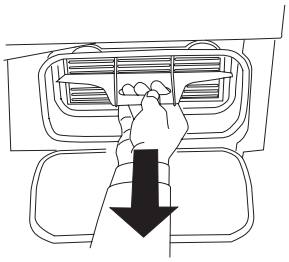
2. Remove the front plate.



3. Open the condenser panel by turning the two knobs anticlockwise.



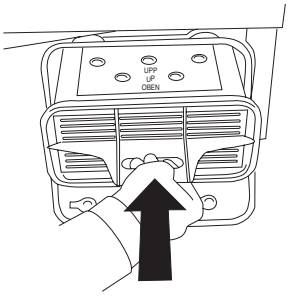
4. Remove the condenser and rinse the lamellas clean using a hand shower, for example. Do not poke around in the lamella springs, as you may damage the condenser. Do not use pointed metal objects during cleaning.



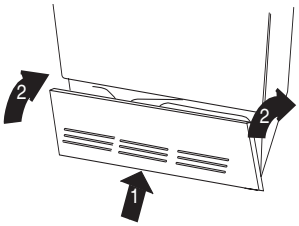
Note!

Do not put the condenser in a dishwasher.

5. Replace the condenser. When reinstalling the condenser, check that it is replaced in the correct way. The top of the condenser is labelled “upp”, “up” and “oben”.



6. Replace the front plate.



Troubleshooting

The machine will not start

Check
• that the outer door is properly closed
• that the main power switch is pressed
• that you have set the programme correctly
• that the Delayed Start option has not been selected. If so, the time remaining until start will be shown in full hours in the display (e.g. 5, 4, 3h). To cancel the programme, see page 10
• that any plug is connected
• that your home's fuses (circuit breakers) are intact, swap two circuit breakers. You cannot always tell from outside if a circuit breaker is broken
• that the overheating cut-out has not been triggered (see below).

Overheating cut-out
The overheating cut-out shuts off the tumble dryer if the temperature is too high, e.g. because dust is clogging the fluff filter.
• Clean the filter.
• Check also that the condensed water container is not full and, if necessary, clean the condenser. See "Care and cleaning" on page 14.
• The overheating cut-out will reset automatically once the machine has cooled.

Drying takes too long
• Empty the condensed water container and check that neither the fluff filter nor the condenser is clogged. See "Care and cleaning" on page 14.
• Prolonged drying times may also be due to the condenser dryer being placed in a room that is too small and the air in the room (cooling air) being too hot.
• Make sure that the tumble dryer has access to more cold air, e.g. by opening doors and/or windows.

Error messages

• If F1 flashes in the display, the condensed water container is full.
Empty the container and restart.

• If F2 flashes in the display, the maximum permitted programme time has been reached. For remedial action, read "Drying takes too long" in the "Troubleshooting" section.

Technical information

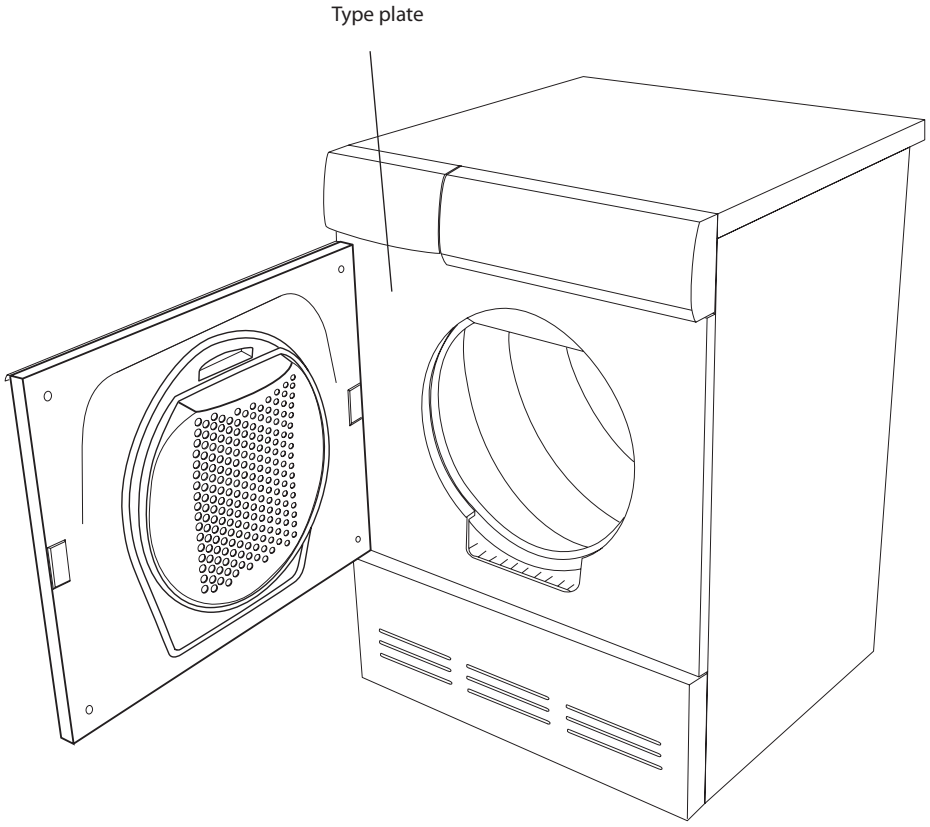
Technical data

Height:	850 mm
Width:	595 mm
Depth:	585 mm
Weight:	47 kg
Cylinder volume:	111 l
Max. drying capacity:	6.0 kg
RPM:	52 rpm
Rated power:	See type plate.
Drying drum material:	Stainless steel.
Outer casing material:	Powder-coated and hot-galvanized sheet steel or stainless steel.
Setup:	Stacking or freestanding.
Drain:	2.0 m rubber hose
Standard tests	
Europe:	
Drying performance:	AS/NZS 2442.1:1996. Dry, 6.0 kg cotton, temperature Normal.
Energy declaration:	AS/NZS 2442.1:1996. Dry, 6.0 kg cotton, temperature Normal. The machine has been tested for single-phase 10/16A.
Test method noise measurement:	IEC 60 704-2-6.

Service

Before contacting the service division,

you should find out whether the fault is anything you can take care of yourself. See the chapters "Troubleshooting" and "Care and cleaning". If you do need to contact the service division after all, make sure you know the model designation, type designation and serial number.
The model designation can be found in the stamped hole on the first page of the Use & Care Guide. Type designation and serial number can be found on the type plate.



Installation

Positioning the tumble dryer

The tumble dryer can be positioned as freestanding or in a stack. Remember that the tumble dryer produces heat and should therefore not be located in a room that is too small. If the room is very small, drying will take longer due to the limited quantity of air.

Caution! ⚠

The machine must not be installed behind a lockable door, a sliding door or a door with hinges on the opposite side to those of the tumble dryer.

Advice!

To improve ventilation, leave the door to the room where the tumble dryer is located open.

Caution! ⚠

Any electrical installation must be carried out by qualified professionals.

A. Freestanding

The tumble dryer can be positioned beside the washing machine.

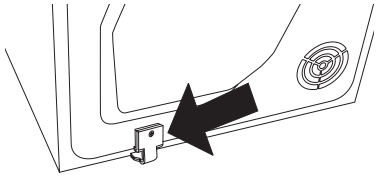
B. Stacking

The tumble dryer can be placed on top of an Asko washing machine. In this case you use the stacking attachments that come with the machine:

2 foot cups. These can be found in a bag in the drum.

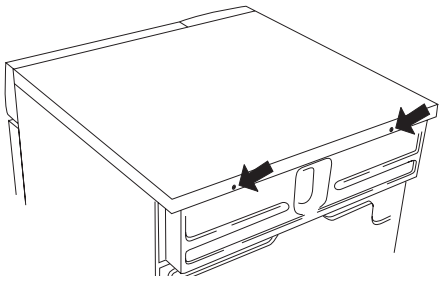
2 anti-tilt devices. These come attached to the bottom left corner on the back of the machine.

Extending plates can be ordered from your local retailer.

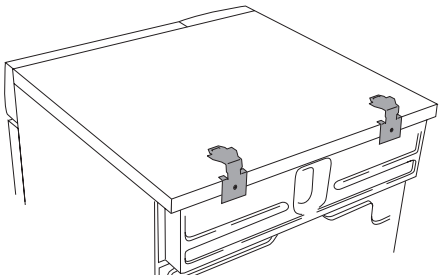


How to fit the stacker

1. Undo the two screws indicated on the back of the washing machine.

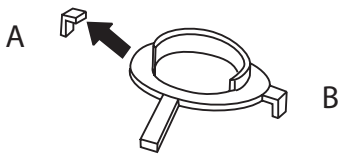


2. Secure the anti-tilt device using the screws as shown in the picture.

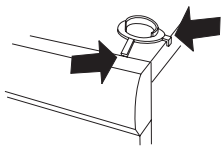


3. Attach the plastic cups that will hold the tumble dryer's front feet to the washing machine's top cover. This is essential, as once the tumble dryer's feet are resting in the plastic cups you know the dryer is correctly positioned on the washing machine.

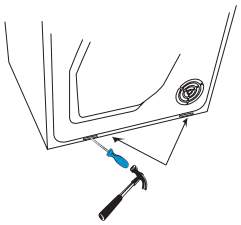
Break off tag A on the cup fitted on the right side and tag B on the cup fitted on the left side. Then remove the paper from the self-adhesive surface under the plastic cups.



4. Fit the plastic cups so that the "tags" marked with arrows are against the front edge of the cover and side edge and press firmly onto the cover. Then break off the remaining tags.

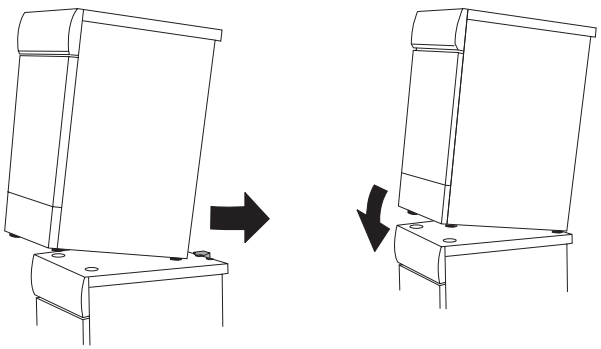


5. Open the knock-out holes on the back of the tumble dryer (where present) with the aid of a hammer and screwdriver. They must not be fully removed, just opened!



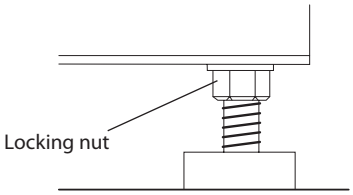
6. Push the tumble dryer in under the metal angles, keeping the front edge raised 1 - 2 cm.

7. Lower the tumble dryer's front feet into the plastic cups and adjust so that the dryer is balanced.



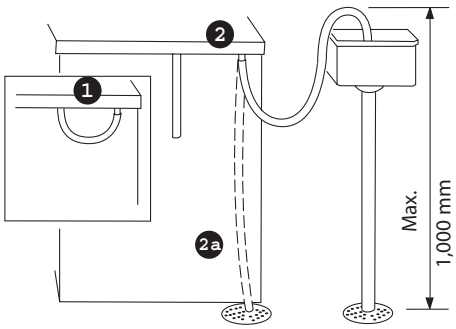
Adjusting the feet

Screw the feet in or out so that the tumble dryer is steady and balanced on the floor or on the washing machine. Then tighten the locking nuts.



Condensed water

The machine is supplied as shown in Option 1 (inset). This means that the condensed water is pumped into the condensed water container. This must then be removed and emptied by hand.
Option 2 allows you to remove the small short hose from the blue nipple. Then attach the enclosed rubber hose to the blue nipple. The water can then be pumped out into a laundry sink or a floor drain (2a).



Electrical installation

The machine must only be connected to an earthed wall socket.

Caution: ⚠

If this appliance is supplied from a cord extension set or an electrical portable outlet device, the cord extension set or electrical portable outlet device must be positioned so that it is not subjected to splashing or ingress of moisture.

Connection on delivery

The machine is supplied as single-phase, 230V, heat output 1950W (see type plate) and has a 10A fuse. Any earth fault fuses must be type A.

Alternative connection

It is possible to switch over from 10A (heat output 1950W) to 16A (heat output 2500W). Switching must be carried out as follows:

1. Shut off the power.
2. Press and hold the Start/Stop button, and switch on the power.
3. Release the Start/Stop button once the programme indicator lights up.
4. Press the Start/Stop button 5 times (within 10 seconds).
5. Adjust the programme selector so that the Extra Dry light comes on (10 o'clock).
6. Press the Start/Stop button to store the setting.

If you want to reset the machine to a 10A connection:

1. Repeat steps 1-4.
2. In step 5, adjust the programme selector so that the Extra Dry light goes out.
3. Press the Start/Stop button to store the setting.

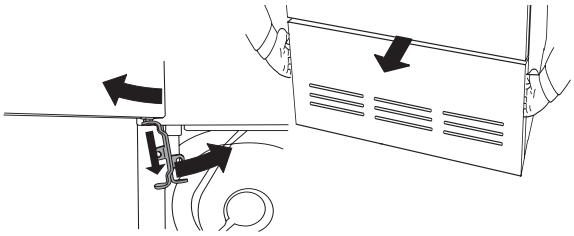
The machine now has a 10A connection.

Door hanging

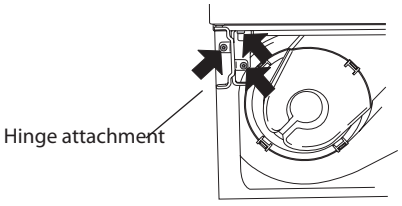
The tumble dryer comes with the door hung on the left. However, it is possible to change the door to right hung.

Proceed as follows:

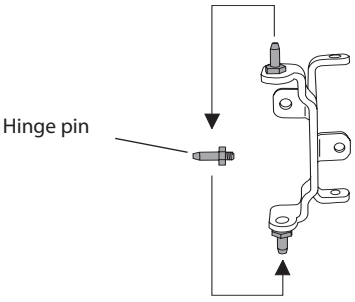
1. Remove the lower front plate and undo the three screws holding the hinge attachment.



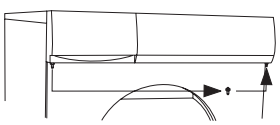
2. Angle the lower edge of the door out to the left while turning the hinge attachment as indicated by the arrows.



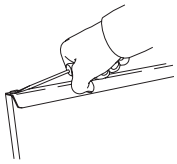
3. Move the hinge pin. For right hanging, the hinge attachment must then be turned upside down.

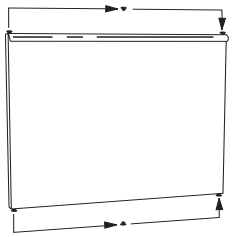


4. Then move the hinge pin in the panel's lower edge.



5. Next you must move the plastic plugs on the upper and lower edges of the door. Use a flat screwdriver.

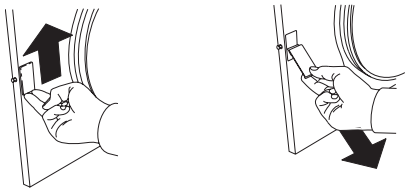




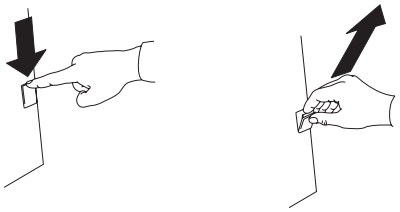
6. Unscrew the two screws on the sides of the door, around five millimetres, to allow the door magnet and cover washer on the inside of the door to be removed.

7. Then remove the door magnet (1) and cover washer (2).

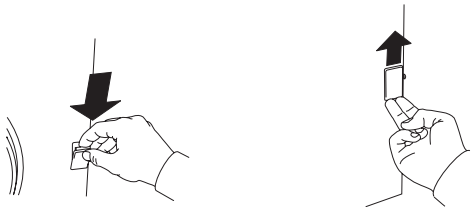
1



2



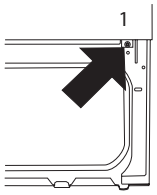
8. Insert the door magnet in place of the cover washer.



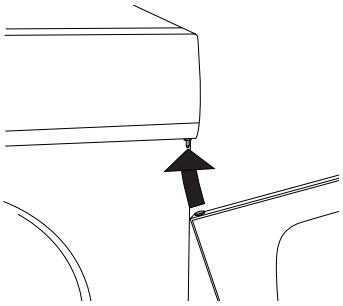
9. Insert the cover washer in place of the door magnet.

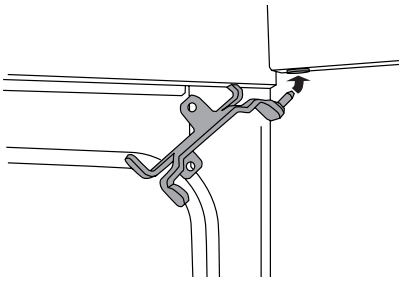
10. Insert the screws so that the door magnet and cover washer are held in place.

11. Remove the screw indicated. If using a condenser dryer, you must also open the condenser panel.

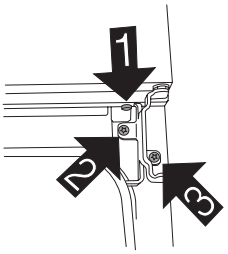


12. Then fit the door securely on the right side of the machine.



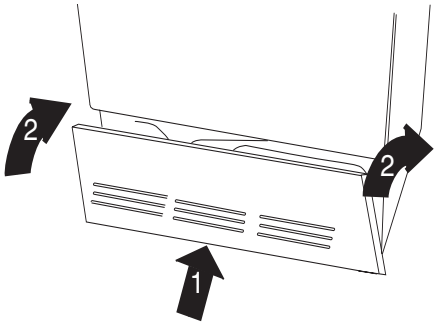


13. Secure the hinge attachment using the screws in the sequence shown in the picture.



14. Replace the screw unfastened in point 11.

15. Replace the lower front plate.



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Quick guide

1 Fabrics

• Sort fabrics of the same kind to ensure as uniform drying as possible.

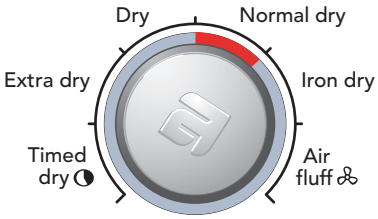
2 Press the main power switch

3 Load the laundry

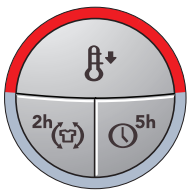
• Close the door.

4 Select a programme and any options

• Turn the Programme selector to the required programme.



• Select any options and settings.



5 Press the Start/Stop button

6 Drying programme finished

• The text End in the display indicates that the programme has finished.
• Clean the fluff filter after each load.
• Empty the condensed water container.

7 Once tumble-drying has finished

• Switch off the main power switch, and close the door.

Item No.: 80 790 33. Rev. 02 We reserve the right to make changes.
Printed on environmentally-friendly paper that meets the demands of the Swedish environmental organisations Miljöförbundet and Naturskyddsföreningen.

CE