of

summary

Dishwasher

451N

en

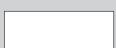
Brief and handy: everything your dishwasher needs ...

Before using for the first time, read the operating instructions!



Adjusting the water softening system*

Ask your water supply company what the water hardness is and enter ...



* only before the first wash or if the water hardness has been changed

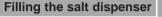
Read off the correct setting for your water hardness ...

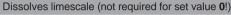
	°dH	°fH	°Clarke	mmol/I		
	0 - 6	0 -11	0 - 8	0 -1,1	\geq	88
	7 - 8	12-15	9 -10	1,2-1,4	\geq	88
	9 -10	16-17	11-12	1,5-1,8	\geq	88
	11-12	18-21	13-15	1,9-2,1	\geq	88
	13-16	22-29	16-20	2,2-2,9	\geq	88
	17-21	30-37	21-26	3,0-3,7	\geq	88
	22-30	38-54	27-38	3,8-5,4	\geq	88
l	31-50	55-89	39-62	5.5-8.9		BB

Quickly sorted ...

How to adjust the water softening system

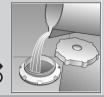
- Rotate the programme button from the 12 o'clock position by one notch
- Switch on the main switch and hold down for at least 3 seconds. The digital display indicates the current set hardness value (factory setting 4).
- Change the set value by rotating the programme selector (0–7).
- Switch off the main switch. The set value is saved.







Unscrew the lid.



Only before using the dishwasher for the first time pour approx. 1 I / 2 pt water into the salt opening.



Pour in max. 1.5 kg / 3 lb 5 oz salt (never detergent!)



Screw on the lid. Switch on dishwasher immediately.

Adding rinse aid

Everything is sparkling clean ...



Press mark 1, lift up lid 2.



Refill whenever level indicator is light!



Pour in rinse aid.



Close the lid. CLICK!

Adding detergent





If required, open the lid (press the

Very dirty dishes, a lot of detergent ...

Warning,

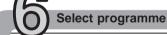
combination products are not suitable for all programmes, follow manufacturer's instructions.

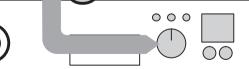


Pour in detergent.



Push the lid shut, press. PLOP!





Switch on the appliance Here we go ...

Press main switch, running time of the selected programme is indicated.

Switch off the appliance Everything o.k. ...

When the display is on 0 (end of programme), press the main switch.



Quick, economical or intensive ...

This overview indicates the max. possible number of programmes. The programmes which correspond to your appliance can be found on your appliance fascia.

The programme data are values measured in the laboratory in compliance with Standard EN 50242. Deviations is practice are possible.

	Intensive 70°	Normal 65°	Eco 50° ∑⊡	Gentle 40°	Quick 45° ↓ →	Prerinse
Duration in minutes	103	140	155	71	30	20
Power consumption in k	^{Wh} 1,40	1,35	0,80	0,70	0,70	0,10
Water consumption in lit	res 20	18	13	14	10	4
With Aqua sensor	17	_	_	11	_	_

Additional programmes **



0

Soaking

... of utensils in the bottom basket. programme starts automatically, 5 g of extra detergent on the open door!

Reduce/save time

... reduces washing time reduces drying time



Flexibility ..

Half load

... for a few items, saves water, energy and time



Time selection

..switches on as soon as you press the time selection button: Alters the programme start in hourly steps

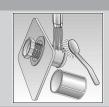
** some models

Maintenance and care

Strainers ... Check if required, clean



Rotate filter cylinder, remove filter system ...



rinse under flowing water ...



Insert ...



Screw in filter system NOTE MARK!

Cleaning the waste-water pump *

- * With some models
- Ladle out water and remove filters
 - Unscrew cover (Torx T20)
- Check area of fan impeller for foreign objects
- Screw in cover and insert filters

Spray arms ... Remove blockages/deposits

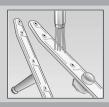
Fault



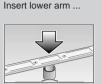
Pull lower arm upwards ...



Unscrew upper arm ...



Clean spray nozzles under flowing water (perhaps with toothpick) ...



Screw in upper arm



Rectifying minor faults yourself ...

... as it is worth doing it yourself!

Residual water in the appliance Possible causes

The programme has not yet ended

Waste water pump blocked

Remedial action

- Clean waste-water pump (see above).
- Close appliance and switch on. or terminate programme (see Terminating the programme).

Appliance is not running / stops

Check water supply Display lights up

Supply fitting not open

Supply hose kinked Supply fitting jammed or calcified



- Open supply fitting.
- Install supply hose without kinks.
- 1. Unscrew water connection.
 - 2. Clean filter in the water connection.
 - 3. Flow rate must be min. 9 l/min. when water supply is open. If the flow rate is less, replace the
 - supply fitting.

Plastic / utensils

Too little detergent

Discoloration caused by food colourings (tomato sauce)

Follow manufacturer's instructions (detergent).

Discoloration is harmless; subsequent rinse cycles will cause it to fade.

Rust on the cutlery

discoloured

Cutlery not rust-resistant Hard knife blades are more susceptible

Extraneous rust

- Use dishwasher-proof cutlery.
- Never wash rusting parts in the appliance.

Fault

Possible causes

Utensils are situated close together or one above the other

Too little detergent

Unsuitable programme selected Spray arm nozzles blocked

Filters dirty, not seated firmly

Spray arms blocked

Remedial action

- Separate the utensils, prevent contact points.
- Follow manufacturer's instructions (detergent).
- Select a more intensive programme.
- Clean the spray arms (see above).
- Clean the filters (see above).
 - Arrange the utensils so that the spray arms can rotate freely.



Utensils are not clean

Sand or gritty residue

on the utensils

Rinse-aid dosage too high / too low

Streaks: reduce dosage. Water or limescale stains: increase dosage.

Milky film on the utensils

(removable)

cloudy / dull

(not removable)

Milky film, glasses

Water softening system incorrectly set;

No salt Glasses not dishwasher-proof Correctly set water softening system.

Refill with salt.

- Use dishwasher-proof glasses.
- Use a detergent suitable for glasses.

More information can be found in the operating instructions

Interrupting the programme ... Terminating the programme ...

- Switch off the main switch.
- To continue, close the door. Switch on the main switch again.

- While the programme is running, rotate the programme selector to the Reset pos. After approx. 3 seconds the digital display indicates 0.
- The programme sequence lasts approx. 1 min.
- When the programme has run, switch off the main switch.

Loading the dishwasher correctly ...

Dishwasher-proof utensils (not soiled with ash, wax, lubricating grease, ink or adhesive labels; remove large remnants of jam, milk products and food according to the operating instructions and check that the spray arms can rotate freely.