

New Design Is Premium, Modern And Distinctive

Thinking of you

Electrolux

235 3 **ACRYLIC ONLAY** Gives distinction and aligns with other Inspiration range appliances. WHITE USER INTERFACE Premium user interface with DirectAccess controls and text & icon display. **ICONIC FLOWLINE** Shaped around the pocket handle for seamless integration with other appliances of the range.

Semi Integrated ()

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Electrolux

Kitchen Retail **Eclipse line**



White LCD display with DirectAccess touch controls



LCD Glass Inlay with White LED display DirectAccess touch controls



Small LED display and LEDs in White, push button controls



Small LED display and white LEDs push button controls



White LEDs, knob controls

Electrical Retail Open range





White LCD, DirectAccess



Small LED display and LEDs in amber, push button controls



Small LED display and LEDs in amber push button controls



Amber LEDs, knob controls

Fully Integrated

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Kitchen Retail **Eclipse line**



Full graphic white display, touch control



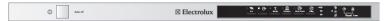
White LED display, touch control



White LED display, push buttons controls



White LED display, push button controls



White LEDs, push button controls



White LEDs, 2 key control

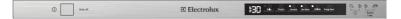
Electrical Retail Open range



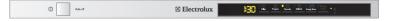
Full graphic white display, touch control



White LED display, touch control



White LED display, push buttons controls



Amber LED display, push button controls



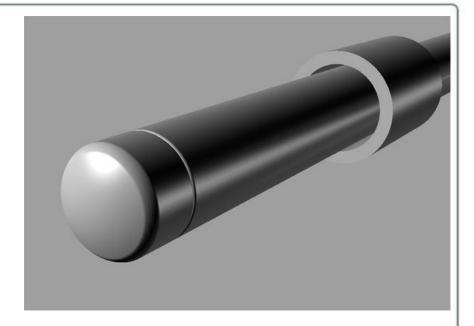
Amber LEDs, push button controls



Amber LEDs, 2 key control

Introduction Thinking of your Electrolux

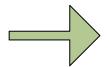
The door opener is part of a dishwasher. In the drying phase the dish washer door is pushed open by the door opener rod and is holding the door open for a period of time before it retracts in the end of the drying phase. The pin is driven by a motor. The (rear) end-position of the pin is indicated by a micro switch. When retracted and micro switch is activated the motor needs to stay energized for 3 seconds to assure good actuation.



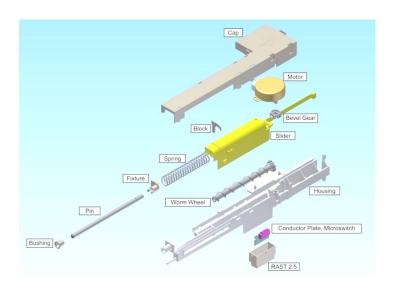
Major project content

Thinking of your Electrolux

By introducing an automatic door opener (=ADO) there is a possibility to reduce the energy consumption with 0,2kWh reaching below 0,82kWh





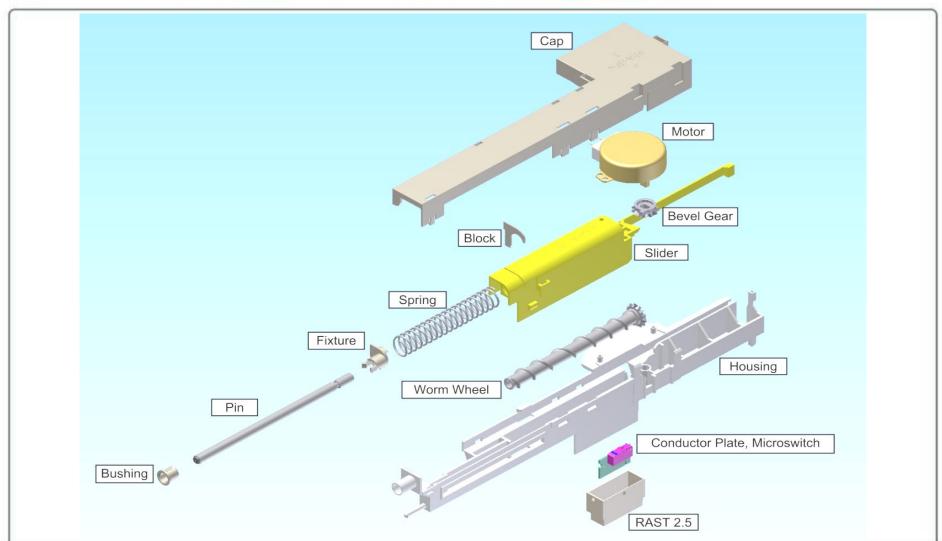




Auto Door Opener - Assembling

Thinking of you

Electrolux



Main ADO Concept – Keep at 5cm

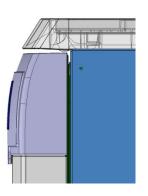
Thinking of you

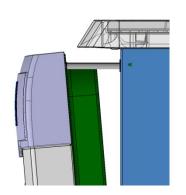
Electrolux

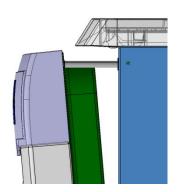
Final rinse done drying starts with closed door ADO pushes door to 5 cm.

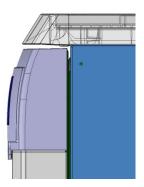
ADO keeps the door at 5 cm for the remaining time for drying

ADO retracts.
Door falls back
(but does not close)









Working Conditions Thinking of your Electrolux

The ADO has two different end positions; a closed position at 0 mm travel and an opened position at 60 mm travel.

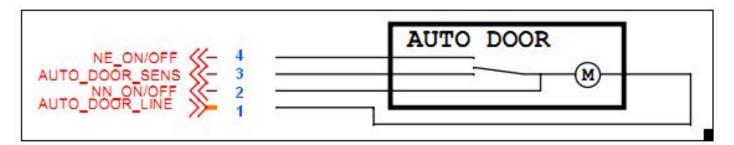
Initially (0-20 mm of opening) the ADO needs to provide an opening force of 70 N. From 20-50 mm a maximum opening force of 35 N is required.

When a force > 70 N is applied the spring will compress and eventually the motor will change rotating direction and the rod will retract.

The time for opening the door is approximately 144 sec for 59mm (TBD with soft tools, depending on stroke and force). The same time the motor need to pull back the pin in the closed position.

Internal connection layout:

- 1.ADO out (Line from relay)
- 2. Neutral (through main switch)
- 3. Sense input (input at neutral potential)
- 4. Neutral (connected directly bypass electronics)



Motor:

Synchronous motor, 16 mm height,

Voltage: 230 Volt +/- 10% (207 V to 253 V)

Power: 3,5 W nominal

Rotating direction: various

E-Label Cycle Profile for ADO

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Today	
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MW 47°C

CR

HR 62°C

Drying Closed door

ADO

MW 53°C

CR

HR 48°C

Drying Closed Door

Drying Open Door

24min

30min

- No increase/decrease of overall cycle time in E-label
- Decrease Hot Rinse temp for energy saving and minimize steam output
- Increase Main Wash temp and time for keeping good cleaning
- Open door half way through the drying
 - To allow for internal condensation
 - Regenaration phase to be finalized
- If ADO is turned off by consumer the HR temp will increase to 62° C
- Other programs with ADO are the Auto & Intensive, i.e. programs tested by test houses. (next slide)
- -ADO can not be combined with sanitize programs like Intensive Care

Cycle profile for Auto and Intensive



Today Auto 47°C MW CR HR 62°C Drying Closed door xxmin **ADO Auto Drying Open** CR 48°C 45-69°C HR MW **Drying Closed Door** Door xxmin xxmin **Today Intensive** MW 47°C HR 62°C CR **Drying Closed door** xxmin **ADO Intesive* Drying Open** 65°C CR 48°C MW HR **Drying Closed Door**

*not intensive care

xxmin

Door

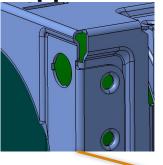
xxmin

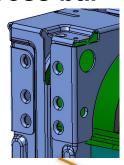
Structual Changes to the DIVA2 Platform

Thinking of you

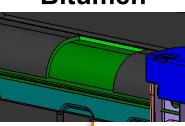
Blectrolux

Upper front cross bar

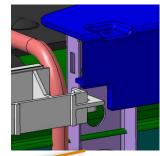


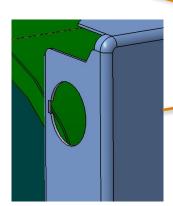






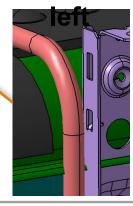
Upper rear cross bar





- -Harness
- SW updateE-label, Auto,Intensive*

Rear upright bar



*Not intensive care