

**NEW!**



**MIWE eco:nova**

# MIWE eco:nova



## Energy is getting more expensive...

It is very worthwhile to intensively think about the energy recovery. Thanks to MIWE eco:nova, we offer you a technically mature solution, which is designed for the particular needs in the bakery.

This future-oriented system not only restores nearly a quarter of the energy consumed during baking, but also ensures constant baking results that are independent of the climate for the first time. Thanks to the integrated scrubbing of flue gas, you do not

have to worry much about future changes in emission laws. The innovative bypass guarantees unlimited baking operation, even in the rather improbable case of malfunction. With MIWE eco:nova, you are already prepared today for the future.

- ▶ MIWE eco : nova has been developed as a central system, which can be used for a multitude of different baking ovens; it is available from a baking oven nominal power of 160 kW, as well as expansion stages 320 kW, 480 kW, 640 kW, 800 kW, and 960 kW.
- ▶ Thanks to the separation of steam and flue gas, it has the highest total efficiency, and uses the complete thermal energy of both material flows. In addition to that the upstream separation leads to another raise of the efficiency factor.
- ▶ It recovers approximately one fourth of the energy consumed for baking (and thus also the energy costs), which corresponds to a particularly high system efficiency of up to 37%.
- ▶ The heat exchanger according to the internal bare-tube method with the condensate collecting tank requires less maintenance than other systems. Thanks to the standing position, the maintenance is considerably easy to carry out.
- ▶ Future-oriented and environmentally friendly: a sulphur dioxide flue gas washing unit with  $\text{CaCO}_3$  neutralization has already been integrated, and therefore anticipates future tightening of emission laws.
- ▶ MIWE eco : nova offers an individual and dynamic adjustment of the draft per oven, while a constant total draft is ensured by forced suction (central fan with frequency converter PID control).
- ▶ The draft of every individual baking oven can simply be entered as an additional parameter to optimize the baking process. MIWE eco : nova individually controls the draft according to its specifications.
- ▶ Enormously reduced material and assembly costs for the pipework of your baking ovens: Instead of separate exhausts (and thus a lot of openings to be provided on site), MIWE eco : nova bundles all connected baking ovens to one exhaust. Of course, this also reduces the running costs (chimney sweep, etc.).
- ▶ The innovative MIWE bypass offers maximum reliability: in the event of maintenance work or (in rather improbable) case of malfunction, you can simply continue to bake without any loss.
- ▶ With a 17.8 cm screen diagonal, the Control System MIWE TC offers maximum comfort and clarity: adjustment and control are easy; all operation displays can be intuitively read at a distance, and the statistics area leaves no wish unfulfilled in regard to size and clarity.
- ▶ MIWE eco : nova is prepared for a disposal line (chimney), water supply line, water discharge line, networking, and power supply. Thus, nothing stands in the way of a quick commissioning.
- ▶ It is designed, developed and constructed by a company that permanently works on the improvement of all climatic processes in the baking sector and that knows your needs better than anybody else: MIWE makes baking simple.



## Control system

MIWE eco:nova is equipped with the Touch Control MIWE TC.

All parameters can be comfortably and clearly controlled on a 17.8 cm diagonal screen, and all process values are continually collected and clearly and graphically displayed.

Complete storage and archiving and a multitude of display and evaluation possibilities are further special features of this control system concept, which has been developed with regard to particularly simple and intuitive operation, as well as an especially clear display.

The MIWE eco:nova constantly shows you all operation-relevant parameters in quickly readable graphics, and saves them for on-going documentation (on the left).

The statistical displays (in the middle) support you with the operational optimization: all parameters can be adjusted in different time segments with previous period and average value.

The touch screen displays all pressure parameters of all baking ovens and the status of the respective draft regulation at the push of a button (on the far right).



### MIWE eco:nova

	EN 160	EN 320	EN 480
Burner input power	160 kW	320 kW	480 kW
Outlet capacity	40 kW	80 kW	120 kW
Exterior dimensions in cm (W x D x H)	70x134x220	90 x 207 x 256	90 x 276 x 256
Electr. connected load	1.1 kW	1.9 kW	3.8 kW
Max. ambient temperature	45 °C (without active cooling)	45 °C (without active cooling)	45 °C (without active cooling)
Electr. connected load (active cooling)	No active cooling available	2.4 kW	4.2 kW
Total weight loaded	910 kg	1,210 kg	1,440 kg
Floor load	586 kg / m <sup>2</sup>	649 kg / m <sup>2</sup>	592 kg / m <sup>2</sup>
MIWE bypass	Standard	Standard	Standard

### MIWE eco:nova

	EN 640	EN 800	EN 960
Burner input power	640 kW	800 kW	960 kW
Outlet capacity	160 kW	200 kW	240 kW
Exterior dimensions in cm (W x D x H)	90 x 308 x 256	90 x 340 x 256	90 x 378 x 266
Electr. connected load	3.8 kW	3.8 kW	3.8 kW
Max. ambient temperature	45 °C (without active cooling)	45 °C (without active cooling)	45 °C (without active cooling)
Electr. connected load (active cooling)	4.2 kW	4.2 kW	4.2 kW
Total weight loaded	1,670 kg	1,900 kg	2,130 kg
Floor load	618 kg / m <sup>2</sup>	621 kg / m <sup>2</sup>	627 kg / m <sup>2</sup>
MIWE bypass	Standard	Standard	Standard