



## ZL 300 / ZL 400 central domestic ventilation unit with passive heat recovery and summer bypass

### Energy-efficient, airtight building envelopes in newly constructed buildings lead to hazardous air quality

The legal requirements concerning the energy efficiency of newly constructed buildings have been considerably tightened over the last few years. Above all, this has meant an increase in the requirements placed on building insulation.

The result: The natural exchange of air via joints or cracks is either reduced or completely prevented. Air that is moist and polluted with carbon dioxide and other harmful substances is no longer replaced, which can lead to the formation of mildew and to health problems such as headaches and asthma. The solution is to install a modern ventilation system.

### Controlled domestic ventilation from Dimplex - intelligent and energy-saving

The ZL 300 und ZL 400 domestic ventilation units ensure a controlled air exchange in residential buildings of up to approx. 220 and 300 m<sup>2</sup>. Air extraction takes place in the rooms which are most subjected to moisture and odours, e.g. the bathroom and kitchen. Fresh air is channelled into living and bedrooms. The ventilation unit contains a cross counterflow heat exchanger, which heats the fresh air using heat extracted from the exhaust air. The building thus retains the majority of its heat energy. In summer, the automatic bypass can be used to create more pleasant temperatures in the building by using the cool night air.



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**Dimplex**  
INNOVATIVE HEATING AND COOLING



ZL 300 / ZL 400 domestic heating devices with integrated bypass

### Central domestic ventilation unit with high degree of heat recovery (up to 90%)

- ✓ Efficient EC ventilators, constant volume flow regulated, ventilation output freely programmable
- ✓ Menu-based multilingual operation with plain text display, three ventilation levels switchable via external remote control, no additional adaptors are required to connect the operator controls
- ✓ Integrated temperature-controlled summer bypass automatically uses the cool evening air at night by interrupting heat recovery (switching temperature adjustable between 18 and 26°C)
- ✓ Convenient and energy-saving: Air volume regulation according to need by determining the exhaust air quality via an optional CO<sub>2</sub> and/or humidity sensor
- ✓ Can be connected to building management technology systems using integrated digital and analogue inputs and outputs

### Intelligent detailed solutions

The ZL 300 / ZL 400 combine a compact, lightweight design with easy installation. Includes integrated ice protection with automatic defrosting. When used in connection with fireplaces which are dependent on ambient air, the self-diagnosing system prevents vacuums from forming in the building. The filters can be changed simply and without tools, and maintenance work can be carried out via easily accessible components without having to remove the device from the pipe system.

### Device information for ZL 300 / ZL 400

Order reference		ZL 300	ZL 400
Application in living spaces	m <sup>2</sup>	Approx.90-220	Approx.120-300
Ventilator levels	Unit(s)	3	3
Air volume flow standard (freely programmable)	m <sup>3</sup> /h	90 / 160 / 250	130 / 240 / 350
Sound pressure level at a distance of 1m	dB(A)	30 / 34 / 45	60
Connection voltage	V	1/N/PE ~230 V, 50 Hz	1/N/PE ~230 V, 50 Hz
Power consumption, max.	W	33 / 61 / 130	200
Degree of protection according to VDE		IP 20	IP 20
Heat recovery efficiency	%	to 90	to 87
Filter class		G4	G4
Air connections	mm	Ø 160	Ø 160
Width x Height x Depth	mm	750 x 725 x 469	750 x 725 x 469

Essential accessories <sup>1</sup>		
Wired remote control unit (surface-mounted or flush-mounted installation)		PFB 03 / PFB 03 UP
Wired remote control unit with timer (surface-mounted installation)		KFB 04
Radio remote control + radio receiver <sup>2</sup>		KFB FS + KFB FE
CO <sub>2</sub> sensor		CARBON
Humidity sensor for indoor air (duct / wall installation)		HYGROS / HYG 200

Accessories		
Smoke alarm (for automatic switch-off in case of fire)		FUMAR
Electric preheating or reheating		EH 15/160
Air filter box for outside air (F5 / F7 panel filter)		LFB 160 + EPF 44 F5 / EPF 44 F7
Replacement device filter (2 units, G4) / bypass filter (1 unit, G4)		EFG 300 / EFB 300

<sup>1</sup> Essential accessories: At least 1 remote control device or 1 sensor is required for ventilation unit operation.

<sup>2</sup> A maximum of 6 wall transmitters can be used in combination with a radio receiver.

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Subject to change and errors!  
 As of 08/2009