

2009

Renewable energies

Heat pumps

Solar thermal systems

Domestic ventilation

Domestic heating products



Optimal integration



Innovative heating & cooling



Intelligent controls



Efficient combinations

 **Dimplex**

INNOVATIVE HEATING AND COOLING

RENEWABLE ENERGIES COM

The last six months, in particular, have made a lot of house-owners do some hard thinking. First came the record prices for heating oil in summer 2008, then the gas dispute between Russia and the Ukraine at the turn of the year. At times like these, home and building owners wish for nothing as strongly as reliable supplies and foreseeable costs for heating and hot water supplies.



Renewable energies

optimal
integration



Heat pumps

innovative
heating + cooling

An ideal combination of different systems

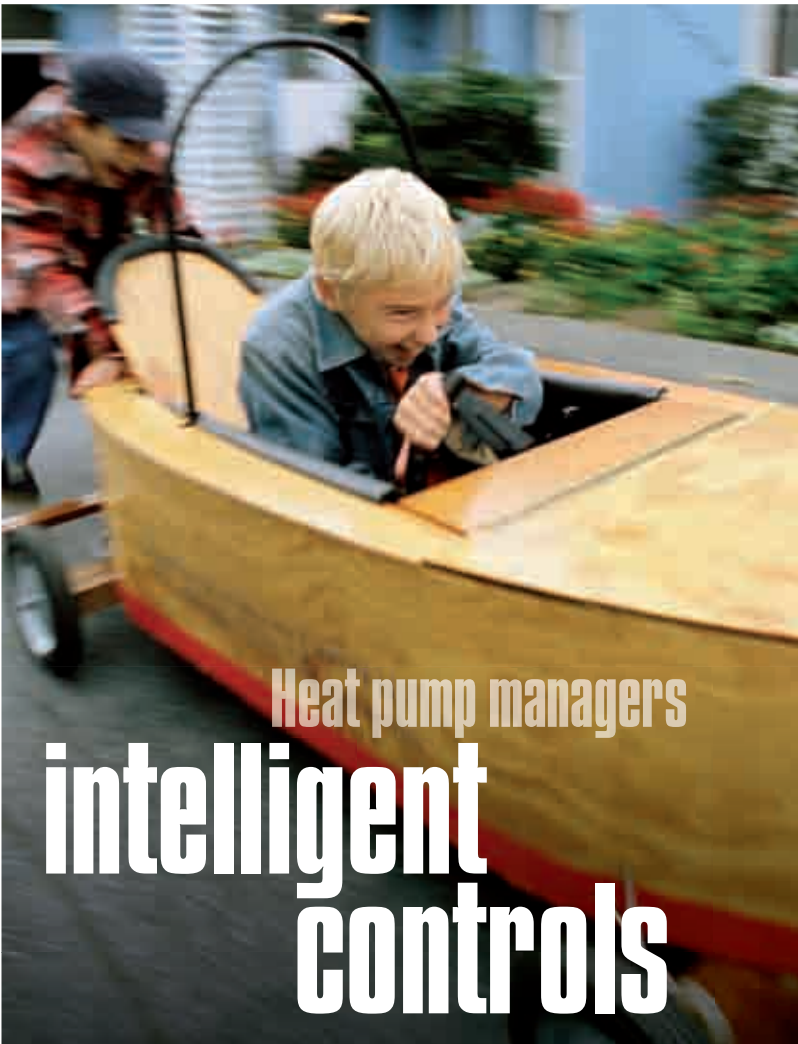
As a system provider in the renewable energy sector, Dimplex stands for a well-filled range covering all requirements for new buildings and heating modernisation projects. Above all, Dimplex is the field leader in the efficient integration of solar energy and ventilation into heat pump heating systems: The system accessories available ideally integrate regenerative heat generators or use fan convectors to reduce the flow temperatures required in order to increase the seasonal performance factor of heat pump heating system.

The highlight among Dimplex's new high-performance heat pumps: LA 35TUR+ for heating and cooling with waste heat recovery

Combined heating and cooling marks the dawn of a new age. The TUR series achieves excellent COPs both for heating and cooling operation. This is made possible by a high-performance evaporator combined with an electronically regulated ventilator and a hydraulic switching system, for which a patent has been applied for. The "+" stands for an additional heat exchanger in the hot gas, which ensures permanent cooling. When hot water is required, the waste heat, which is available free of cost, can be used to heat water without any interruption to the cooling operation.

NTINUE TO GAIN GROUND

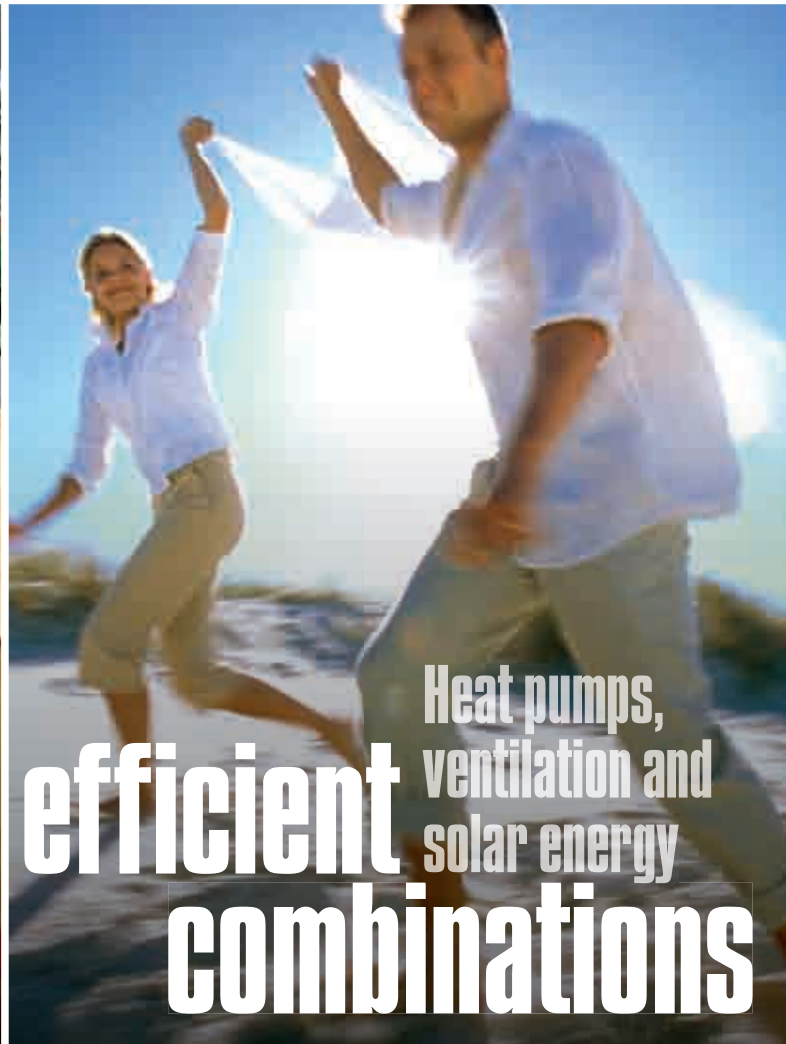
As protection from unpleasant surprises in the future when it comes to heating, more and more home-owners are changing to renewable energy sources. And here they put their trust in manufacturers who offer systems which integrate renewable heat generation for heating and hot water preparation from a single source. Exactly what the Dimplex brand offers with its innovations for 2009.



Heat pump managers
**intelligent
controls**

WPM EconPlus – the intelligent control system

The heat pump manager controls the heat pump heating system and monitors the safety units of the refrigerating circuit. It provides all the functions of a modern heating regulation system. The sensors integrated into the highly efficient air-to-water heat pumps for outdoor installation optimise heating and cooling and allow separate thermal energy metering for heating and domestic hot water preparation. Available as an accessory, the master controller for parallel connection allows the central control of up to 14 heat pumps. Even connections to Ethernet networks and building management systems (KNX/EIB and Modbus) are possible via additional modules.



Heat pumps,
ventilation and
solar energy
**efficient
combinations**

Efficient combinations

Hot water heat pumps provide hot water throughout the year and can be combined simply and efficiently with solar collectors. For optimal integration of renewable heat sources, the heat pump manager offers an operating mode developed specially for this purpose. Thermal solar energy systems or wood boilers feed into a renewable cylinder which, at a sufficient temperature level, favours renewable energy for heating, hot water or swimming pool requirements and blocks the heat pump.

EFFICIENT. QUIET. ELIGIBLE FOR SUBSIDIES. THE NEW HIGH-EFFICIENCY AIR-TO-WATER HEAT PUMPS

LA 35TUR+ air-to-water heat pump for heating and cooling

- Max. flow temperature 65 °C
- Upper operating limit for cooling 45 °C
- Two performance levels for modulating operation
- Waste heat recovery in cooling operation
- Optimised operation for heating and cooling (patent applied for)
- Integrated thermal energy meter
- Electronically controlled fan



Universally applicable air-to-water heat pumps for outdoor installation

- Product series can be used up to a heat consumption of approx. 40 kW: LA 9TU, LA 12TU, LA 17TU, LA 25TU, LA 40TU
- “Owl’s wing” ventilator blades produce a natural-sounding noise
- High COPs due to high-performance evaporator
- Encapsulated compressor housing with solid-borne sound insulation for low noise emissions
- Hydraulic connections can be led out of the heat pump either downwards or to the side (special accessory).
- LA 17TU, LA 25TU and LA 40TU with two performance levels for modulating heating operation



WPM EconPlus / WPM EconR heat pump managers

- Heat pump managers for high-efficiency air-to-water heat pumps installed outdoors
- Pressure sensors in the refrigerating circuit for optimised heating and cooling operation
- Integrated thermal energy meter
- Can be extended by additional modules (Ethernet, KNX/EIB, ...)
- Simplified connection via separate terminal blocks for 24 V and 230 V
- WPM EconR for reversible heat pumps for heating and cooling



LI 40AS air-to-water heat pump for indoor installation in universal design

- Indoor installation (white)
- Two performance levels for modulating operation
- Space-saving design – no air ducts required on the air inlet side
- Flow temperature up to a maximum of 58 °C
- Eligible for subsidies thanks to high COPs
- Encapsulated compressor housing with solid-borne sound insulation for low noise emissions
- Air ducts available for the air circuit on the air outlet side (special accessory)
- Rain guards for air inlets and air outlets available (special accessory)
- WPM 2006 Plus wall-mounted heat pump manager



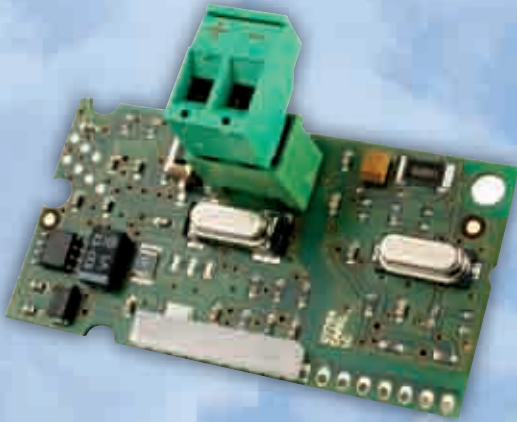
INTELLIGENT CONTROLS

Creating a control concept for parallel connection of heat pumps



- Heat pumps for heating and/or cooling from the heat sources air, ground and ground water can be connected in parallel
- Parallel connection of up to 14 heat pumps
- Control of a monovalent, mono-energy or bivalent system with up to 30 performance levels
- Control of up to three central heating circuits (additional mixer controls possible)
- Central or local domestic hot water preparation
- Automatic operating mode switching: Automatic / Summer / Cooling
- System hydraulics dimensioned by the manufacturer

Connection of heat pump manager to KNX/EIB (EWPM) building management technology



The European Installation Bus (EIB) makes it possible to control heating systems as well as locking and alarm systems, lighting and blinds. The EIB additionally allows the remote monitoring and control of the heat generator. EIB is currently being installed mainly in new residential and commercial buildings, but it can also be integrated when old buildings are modernised. The EWPM additional module for KNX/EIB is the interface for connecting a heat pump manager to building management technology.

Connection of a heat pump manager to an Ethernet network (NWPM)



The NWPM additional module acts as an interface between the heat pump manager and an Ethernet network for the remote setting/monitoring of the heat pump. The module allows settings to be changed and operating data to be read out via PC. A PC with a network plug connection or an Ethernet network is required for this. Visualisation is carried out via the existing browser.

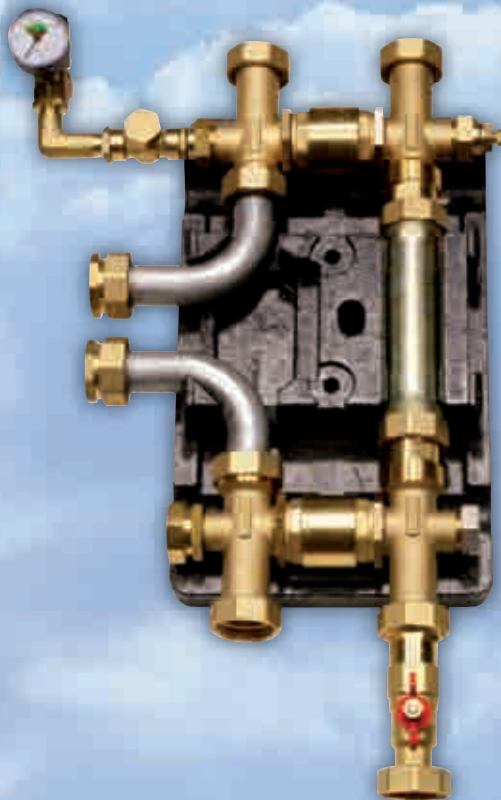
WMZ 25/32 thermal energy meter



- WMZ 25 can be used for a volume flow of up to 2.5 m³/h
- WMZ 32 can be used for a volume flow of up to 5.0 m³/h
- Wear-free flow metering via Kármán vortex street with low pressure losses
- Immersion sensor for highly accurate measurement
- Determining separate thermal energy volumes for heating and DHW preparation and display on the heat pump manager
- Wired ready for assembly in the hot water distribution system

Software update via SmartKey (special accessory) is necessary!

DDV 25/32 dual differential pressureless manifold



The DDV has the following advantages:

- Hot water flow is guaranteed in all operating conditions
- Energy savings through reduction of pump runtime to approx. 2000 h/p.a.
- Avoidance of mixing losses through use of a series-connected buffer tank with the possibility of external energy infeed
- Can be combined with hydraulic components for connecting mixed and unmixed heating circuits
- The DDV 25 is recommended for heat pump heating systems with a maximum heating water flow of 2.0 m³/h. The DDV 32 is available for heating water flows of up to 2.5 m³/h.

EFFICIENT HEATING AND HOT WATER PREPARATION



BWP 20A hot water heat pump

- The waste heat (20 °C) contained in the indoor air is used for domestic hot water preparation
- Operating limit from 15 °C to 35 °C for installation in living quarters
- Water temperature can be set from 23 °C to 60 °C
- Heat-up time from 15 °C to 45 °C: 7.6 h
- DN 125 outgoing air stubs for optimum connection to exhaust air systems
- Volume flow: 140 m³/h (ventilator runs either permanently or only during hot water heating)
- Quiet operation
- Min. installation dimension of 60 cm allows covering with a front panel

Fan convectors

Dimplex fan convectors, with their active air circulation, can reduce heating costs in comparison with conventional radiators, as they provide the same heating performance at lower flow temperatures. In combination with a heat pump heating system, a flow temperature that is just 1 °C lower reduces the energy consumption of the heat pump by 2.5%.

The fan integrated in this series ensures quiet, uniform heat distribution throughout the room. Electronic controls continuously adapt fan speed to the heating requirement of the room, thus combining a high level of comfort with a low flow temperature to provide an extremely efficient, energy-saving heating system. Fan convectors are thus also excellent in combination with underfloor heating. The same flow temperature of both heat distribution systems also reduces installation and investment costs.





SOLK 1204AM solar collector

Solar radiation is collected reliably and efficiently by the solar collectors, and is then used for heating the transfer medium. The collector design (meander version with collection manifold) is suitable for both small and larger collector surfaces. Compact domestic hot water preparation is thus possible in addition to efficient supplementary heating with a larger collector surface.

Depending on the local requirements, the collectors can be mounted horizontally or vertically onto the roof. Accessory packages for free-standing installation and mounting on flat roofs are also available.

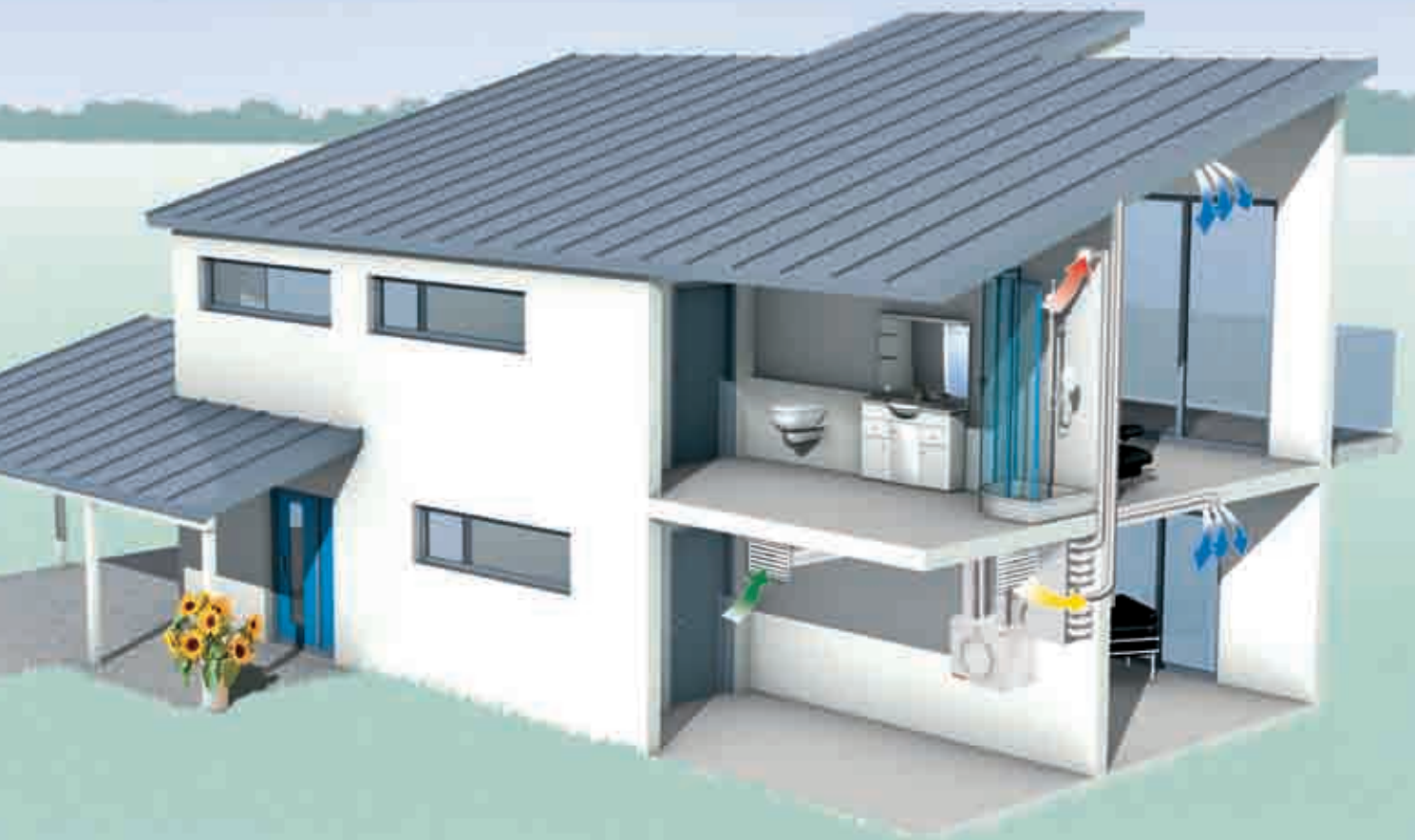


SOLPU 2 pump group / solar station

- Solar station for high volume flows
- Wilo ST 25 / 7 circulating pump
- All-metal thermometer up to 160 °C
- Flow volume display 5-40 l/min
- Safety valve 6 bar (approved for solar systems) manometer 0-6 bar
- Gravity control in flow and return flow
- Integrated air scoop for continuous air extraction during operation
- Integrated purging and filling unit / connections
- Thermal insulation made of expanded polypropylene
- Connections 1" external thread, flat sealing EPDM
- Supplied with overvoltage protection for solar sensor and sensor sleeve for collector field



EFFICIENT VENTILATION



ZL 300 central ventilation device with heat recovery



- Successor to the previous ZL 270 series
- Maximum volume flow 300m³/h (control levels programmable in the range 50 – 300 m³/h)
- Various control panels are available for switching the fan levels (wireless, flush-mounted/surface-mounted)
- Automatic summer bypass with adjustable switching temperature for interrupting heat recovery in summer
- CO₂ sensor and humidity sensor can be connected optionally for ventilator control according to need
- Degree of recovery approx. 90%
- Automatic defrosting



DXL 100 / 100H / 100T ventilators for small rooms

- Volume flow 80 m³/h
- For use in WCs, bathrooms, etc.
- DXL 100H: with additional hygrostat for ventilation control according to need
- DXL 100T: with additional, adjustable hygrostat and run-down relay

DXL 200 / 200EC ventilators for small rooms

DXL 200

- Volume flow 110 m³/h
- For use in WCs, bathrooms, etc.

DXL 200EC

- Volume flow 110 m³/h
- For use in WCs, bathrooms, etc.
- With additional humidity control / hygrostat and EC motor
- Run-down control settable up to 20 minutes



GXL 6 / 9 / 12 wall and window ventilators

GXL 6

- Max. volume flow 270 m³/h
- One control level, switchable via a standard ON/OFF switch

GXL 9

- Max. volume flow 730 m³/h
- Two control levels and direction reversal (fresh air/ exhaust air) via remote control (GXL CK)



GXL 12

- Max. volume flow 1600 m³/h
- Two control levels and direction reversal (fresh air/exhaust air) via remote control (GXL CK)

HEAT EXACTLY WHERE YOU NEED IT



EF 12 series rapid bathroom heaters

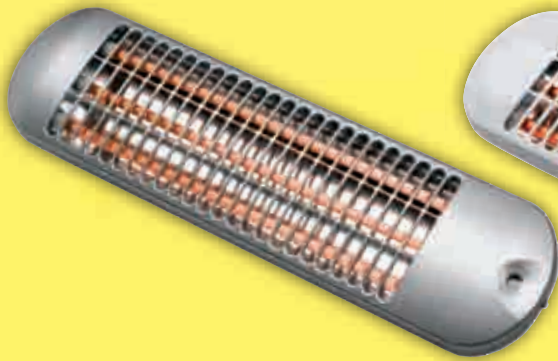
- Replaces the previous EF 6/20 series
- All-metal casing
- Device versions: EF 12/20 (2kW, no timer function), EF 12/20 TI (2kW with 60 min. timer), EF 12/20 TID (2kW with 24h timer) EF 12/10 (1kW, no timer function)
- Adjustable room thermostat
- Heat output 2000 W (one heating level), EF 12/20 TI with 2 x 1.0 kW for thermostat / timer
- Degree of protection IP 24, protection class I
- VDE certification
- Easy replacement, as it has the same mounting points as the predecessor series

H 260/4 rapid heaters for bathrooms

- Metal casing with metal front and metal rear plate
- Adjustable room thermostat
- Heat output 2000 W (one heating level)
- Indicator lamp for heating operation
- Degree of protection IP 24, protection class I
- VDE certification
- Easy replacement, as it has the same mounting points as the predecessor series

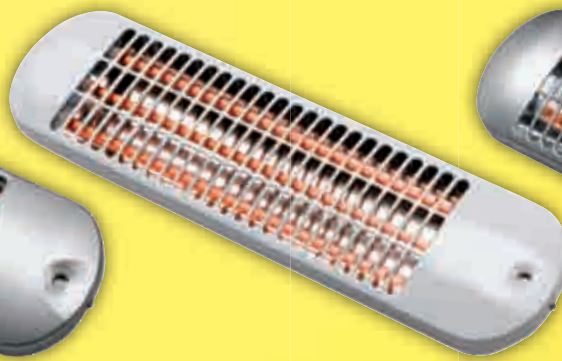


Infrared radiators



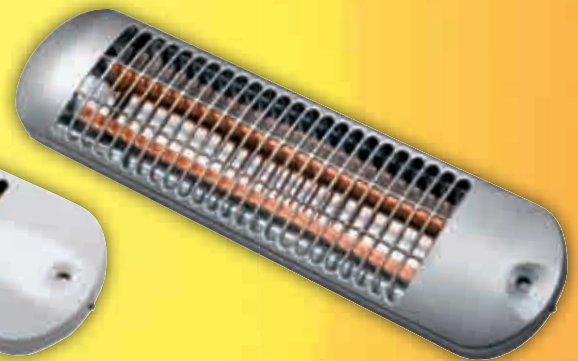
BS 1801 S infrared radiator

- Four control levels: OFF / 600 W / 1200 W / 1800 W
- Three heating elements
- Horizontal wall mounting
- Degree of protection IP 24, protection class I
- VDE certification
- Easy replacement, as it has the same mounting points as the predecessor series



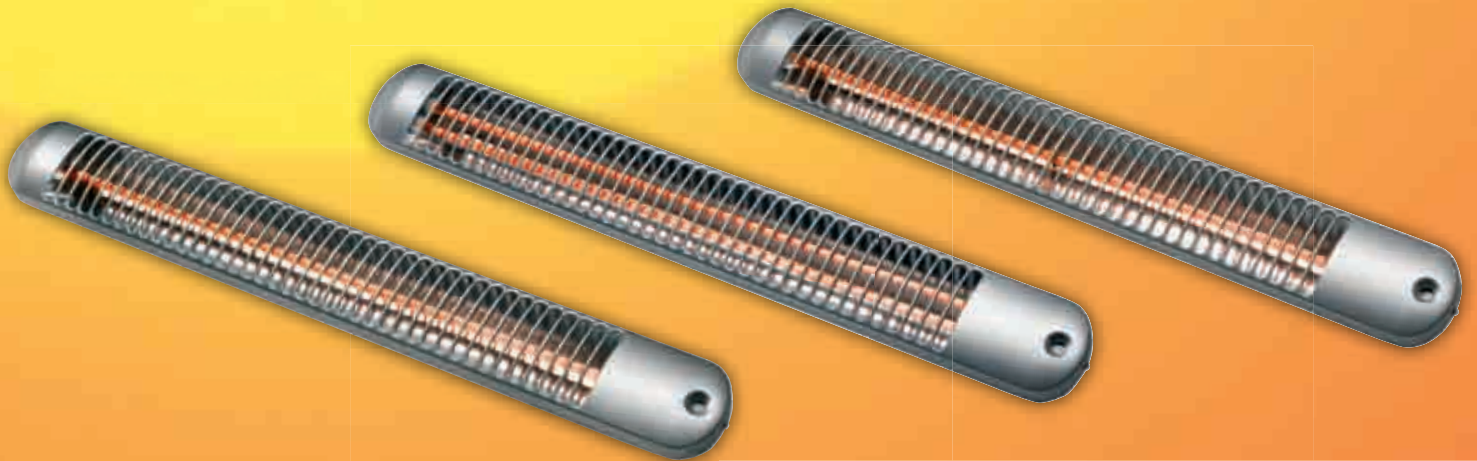
BS 1801 W infrared radiator

- Four control levels: OFF / 600 W / 1200 W / 1800 W with pull switch and setting indicator
- Three heating elements
- Horizontal wall mounting
- Degree of protection IP 24, protection class I
- VDE certification
- Easy replacement, as it has the same mounting points as the predecessor series



BS 1201 S infrared radiator

- Three control levels: OFF / 600 W / 1200 W
- Two heating elements
- Horizontal wall mounting
- Degree of protection IP 24, protection class I
- VDE certification
- Easy replacement, as it has the same mounting points as the predecessor series



BK 1201 S infrared radiator

- Two control levels: OFF / 1200 W
- One heating element
- Horizontal wall mounting
- Degree of protection IP 24, protection class I
- VDE certification
- Easy replacement, as it has the same mounting points as the predecessor series

BS 2001 S infrared radiator

- Four control levels: OFF / 800 W / 1200 W / 2000 W
- Two heating elements
- Horizontal wall mounting
- Degree of protection IP 24, protection class I
- VDE certification
- Easy replacement, as it has the same mounting points as the predecessor series

BY 801 S infrared radiator for changing tables

- Two control levels: OFF / 500 W
- Special heating element with protective grid (safety heating element)
- Horizontal wall mounting
- Degree of protection IP 24, protection class I
- VDE certification
- Easy replacement, as it has the same mounting points as the predecessor series

HEAT EXACTLY WHERE YOU NEED IT



FW 550 S frost protection monitor

- Heat output 600 W
- Adjustable thermostat
- Horizontal wall mounting
- Degree of protection IP 20, protection class I
- BEAB certification



H 450 TS fan heater

- Compact fan heater
- Two heating levels – 1000 W and 2000 W
- Freely adjustable thermostat
- Cold air level
- BEAB certification

K 811 / K 821 free-standing convectors

- Replaces the existing K 810 / K 820 series
- Freely adjustable thermostat
- Assembly material for wall mounting provided
- Degree of protection IP 20, protection class I
- BEAB certification
- K 821 with additional, switchable fan level as an option





CAB / DAB...V2 hot-air curtains

- CAB 10E / CAB 15E / DAB 10E and DAB 15E as successors to CAB 10E V2 / CAB 15E V2 / DAB 10E V2 and DAB 15E V2
- Simple connection via data cable between the devices and the control element (data cable type CAT5)
- Control element CAB C5 required
- Several devices can be combined using connecting set CAB M1 V2



DIMPLEX IS THE INTELLIGENT SOLUTION

As the largest manufacturer of electrically-operated heating systems worldwide, the Glen Dimplex Group has been developing and producing innovative heat pump systems in its Kulmbach plant for over 30 years. You can count on the experience of Dimplex. Dimplex heat pump technology is highly sophisticated and will pay for itself in just a few years. Thousands of installed systems are daily proof of this. Let us convince you as well.

Quality in trade

Dimplex works closely together with specialists from the electrical, plumbing and heating trades. Your heat consumption is calculated in close cooperation with our planning offices to ensure optimal device selection and dimensioning. Your specialised Dimplex partner offers competent advice and a comprehensive service in addition to device installation.

We are there when you need us

When you decide in favour of Dimplex devices, you can be sure that we will continue to provide you with help and advice after your purchase. Our qualified after-sales service partners offer speedy support, right when you need it most.

Even more efficient: Combine your heat pump with a **ventilation system** with heat recovery or with a **solar energy system** from Dimplex.

For further information, visit
www.dimplex.de and www.heizung-waermepumpe.de
The Dimplex heat pumps DVD is also available there,
which contains further information.



Dimplex

INNOVATIVE HEATING AND COOLING

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