



Big Dutchman®



Vento

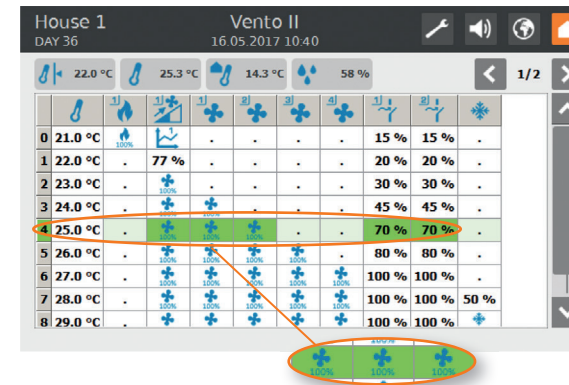
The easy-to-use climate computer for
pig and poultry houses

Vento – the well-structured, user-friendly climate computer for pig and poultry houses



Vento is a climate computer developed by Big Dutchman that is easy to understand and very user-friendly. The computer is also incredibly simple to install and to put into operation. Fresh air and exhaust air, heating and cooling are controlled reliably. Vento is ideally suited for use in pig and poultry houses (broilers, layers, breeders), especially where these are located in hot-climate areas. The well-arranged 7-inch touchscreen shows

relevant curves as graphs. Functions that are used on a daily basis are immediately available in the menu, making the computer very easy to handle.



Vento controls the climate based on both the temperature and the fan steps that were previously set for the specific temperatures. The display immediately shows the corresponding ventilation level.

Advantages

- ✓ Vento is the ideal climate computer to start automated poultry production: it helps to improve the house climate and therefore to increase the birds' performance;
- ✓ easy to install and to put into operation, even without training;
- ✓ fresh air and exhaust air can be controlled as natural ventilation or as side, tunnel or CombiTunnel ventilation;
- ✓ the active ventilation level is displayed;
- ✓ automatic data backup always occurs at midnight.

COMBINATION OF BIG DUTCHMAN STANDARD COMPONENTS FOR OPTIMAL CLIMATE CONTROL WITH VENTO

CL 1200 B/F or CL 1911 F wall inlet

- ✓ for universal application and optimal fresh air supply
- ✓ available as flange inlet or for incorporation into the wall
- ✓ can be opened either all at once or individually



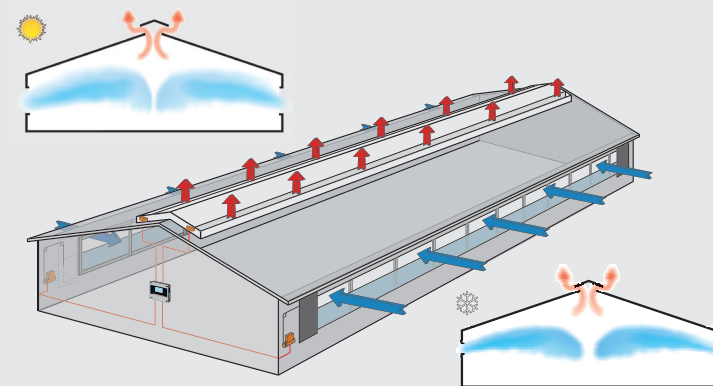
CL 175 actuator

- ✓ regulates the flap position of the wall inlets
- ✓ compact design, robust and maintenance-free
- ✓ relay-controlled and available for 24 V DC as well as 230 V AC
- ✓ electric switch for manual operation included

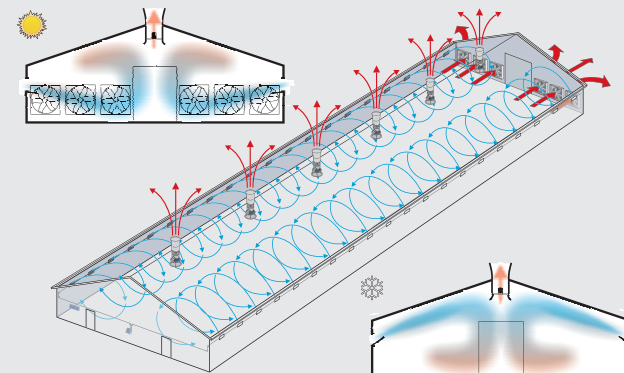


Heating: JetMaster or BoxHeater

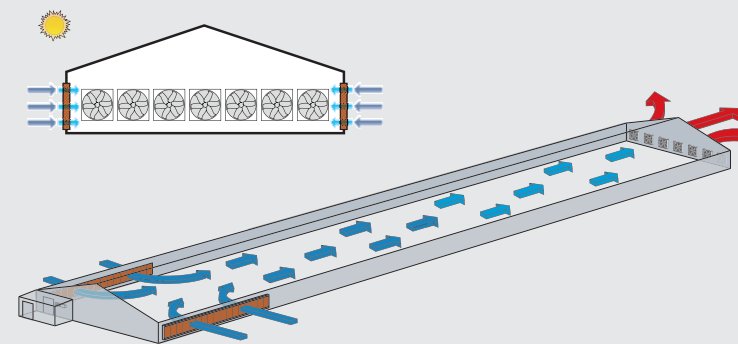
- ✓ for operation with natural gas or propane
- ✓ temperature-sensitive control
- ✓ built-in fan distributes the warm air
- ✓ the generated heat is 100 % beneficial to the animals, no heat loss.



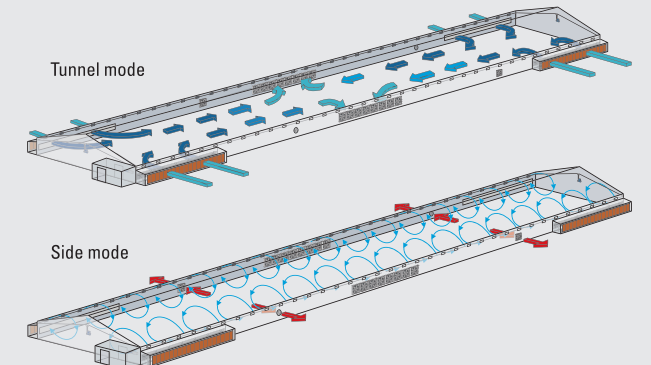
Natural ventilation with curtain control



Negative-pressure ventilation in side mode



Tunnel ventilation with pad cooling



CombiTunnel ventilation



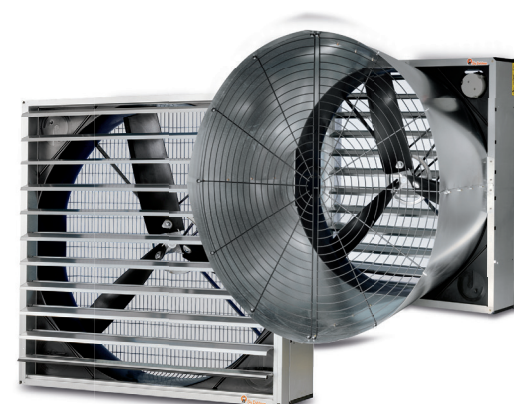
CL 600 exhaust air chimney

- ✓ high air performance
- ✓ smooth, dirt-repellent surface
- ✓ self-supporting, very light roof plate construction renders additional suspension unnecessary
- ✓ the corresponding chimney fan is easy to install
- ✓ available in two diameters (600/920 mm or 23.6"/36.2")



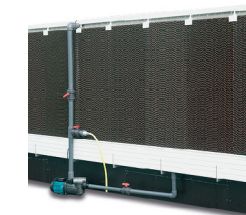
Axial fan with frame

- ✓ for incorporation into the wall
- ✓ the frame is made of high-quality cast steel while the blades are made of die-cast aluminium for a long service life
- ✓ high air performance with low energy consumption
- ✓ easy to control, low noise level
- ✓ available with diameters from 350 to 920 mm (13.8" to 36.2")



AirMaster V 130/V 140

- ✓ effective and pressure-resistant fans with a large diameter
- ✓ with or without cone
- ✓ highly efficient even with low energy consumption
- ✓ the air flow pressure opens the shutters, i.e. there is little air resistance
- ✓ low noise level
- ✓ solid, robust, simple design



Cooling: RainMaker

- ✓ ideal and very efficient cooling system
- ✓ cellulose or plastic pads
- ✓ water reservoir is integrated into the frame system, making an additional water tank superfluous
- ✓ water supply is visible at all times
- ✓ easy to assemble

Two extension stages of Vento: the right computer for all requirements

Vento-S is equipped with 12 relays per house, i.e. a maximum twelve of the listed functions are available.

Vento-L is equipped with 22 relays per house, i.e. a maximum 22 of the listed functions are available.

Note: Relay-controlled actuators always occupy two relays.

Important functions

- ✓ individual switching of two stepless fan groups;
- ✓ cycle ventilation for minimum ventilation rates;
- ✓ cycle times can be calculated automatically because minimum ventilation rates are provided in m³/h and animal;
- ✓ humidity control with/without heat;
- ✓ control of different heating systems, on/off or continuously for hot-water heating systems;
- ✓ control of the cooling system;
- ✓ registration of the water consumption as measured by the water meter;
- ✓ water alarm in case of over- or

- undersupply as compared to the previous day;
- ✓ control of up to six timers for light/feeding;
- ✓ production curves for the temperature and for minimum ventilation;
- ✓ individual pressure control with fresh air;
- ✓ trend curves;
- ✓ log file for alarm and operation.

Overview of functions

Fresh air:	4 fresh air inlets
Exhaust air:	2 stepless exhaust air groups 8 on/off exhaust air groups 2 recirculating air groups
Heating:	2 x analogue or relay-controlled
Cooling:	1 x cooling
Emergency opening:	temperature-controlled emergency openings 378 M/378T Emergency air relay
Sensors:	4 inside temperature sensors 1 outside temperature sensor 1 humidity sensor 1 pressure sensor
Timer:	up to 6 timers
Water:	1 water meter
Feed:	1 feed counter



Temperature-controlled emergency opening 378 T

The optional temperature-controlled emergency opening system 378 T helps to ensure survival of the livestock in case of power failures or technical breakdowns. The system comprises a 24 V DC power supply unit with built-in maintenance-free battery and charger and a separate temperature probe.

The temperature at which the emergency opening function is to be activated can be adjusted at the 378 T. This means that in the case of an emergency, the air inlets and outlets will be controlled based on the temperature. The emergency function itself is part of the Vento.

Uninterruptible power supply (UPS)

We recommend using an uninterruptible power supply in regions where power failures may occur with some regularity. This optional UPS ensures that power is supplied to the Vento even in case of a blackout so that no data is lost.



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