



Vento

The easy-to-use climate computer for livestock production

Vento – the well-structured, user-friendly climate compute



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 houses for livestock production, 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.

COMBINATION OF BIG DUTCHMAN STANDARD COMPO

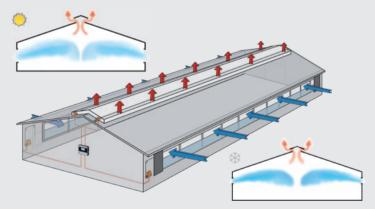
CL 1200 B/F or CL 1911 F wall inlet

- 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

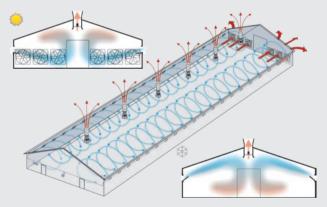


CL 175 actuator

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



Natural ventilation with curtain control



Negative-pressure ventilation in side mode



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)



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



r for houses for livestock production



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 livestock production: it helps to improve the house climate and therefore to increase the animals' 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.

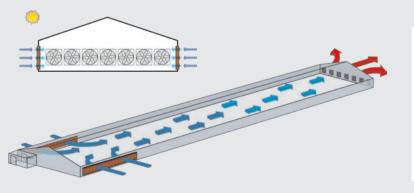
NENTS FOR OPTIMAL CLIMATE CONTROL WITH VENTO



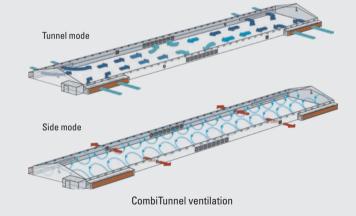
Heating: JetMaster or BoxHeater

- 🖌 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





Tunnel ventilation with pad cooling





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.

4 fresh air inlets

Exhaust air: 2 stepless exhaust air groups

1 x cooling

378 T

8 on/off exhaust air groups

2 analogue or relay-controlled

emergency openings 378 M/

4 inside temperature sensors

1 outside temperature sensor

2 recirculating air groups

temperature-controlled

emergency air relay

1 humidity sensor

1 pressure sensor

up to 6 timers

1 water meter

1 feed meter

Overview of functions

Fresh air:

Heating:

Cooling:

opening:

Sensors:

Timers:

Water:

Feed:

Emergency

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 cubic metres per hour per 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;





Europe, Middle East & Africa: Big Dutchman International GmbH P.O. Box 1163 · 49360 Vechta, Germany Tel. +49(0)4447 801-0 · Fax -237 big@bigdutchman.de www.bigdutchman.de

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.

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.

USA: Big Dutchman, Inc. Tel. +1 616 392 5981 · bigd@bigdutchmanusa.com www.bigdutchmanusa.com Brazil: Big Dutchman (Brasil) Ltda.

Tel. +55 16 2108 5300 · bigdutchmanbrasil@bigdutchman.com.br www.bigdutchman.com.br

Russia: 000 "Big Dutchman" Tel. +7 495 2295 161 · big@bigdutchman.ru · www.bigdutchman.ru

Asia/Pacific: BD Agriculture (Malaysia) Sdn. Bhd. Tel. +60 3334 83 555 · bdasia@bigdutchman.com · www.bigdutchman.com

China: Big Dutchman (Tianjin) Livestock Equipment Co., Ltd. Tel. +86 10 6476 1888 · bdcnsales@bigdutchman.com www.bigdutchman.cn