



Big Dutchman®



MC 235

The computer for optimum environment control
in smaller poultry houses

MC 235 – the clearly arranged, user-friendly computer for



The **MC 235** by Big Dutchman is a must for a safely operating ventilation system in growing poultry or keeping laying hens.

MC 235 is characterized by exact control, security and user-friendliness. In addition control of heating, humidification and cooling is also included in its program range functions as e.g. soaking.

The most important characteristics at a glance:

- ✓ **PID climate computer:** the house temperature can be adjusted easily and exact
- ✓ **Compact Flash Card:** simplifies the installation of new software and user-adapted user to store a backup copy of the individual settings;
- ✓ **Display:** graphically displays any relevant curve progression. The menu allows functions → user-friendliness;
- ✓ **different user levels:** are protected by passwords, non-authorized persons therefore cannot change settings;
- ✓ **modular hardware:** can be expanded without difficulty whenever new house functions are required.

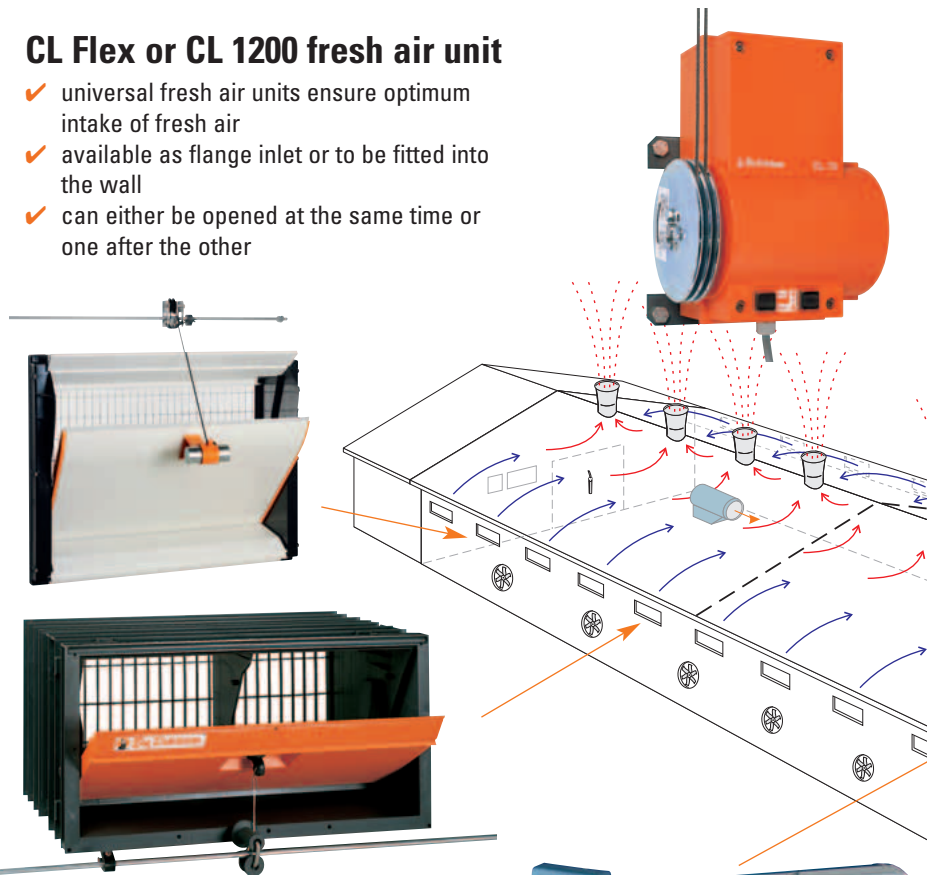
Important functions

- ✓ controls up to 8 MultiStep® groups → low power consumption;
- ✓ controls different heating systems, on/off or infinitely variable should hot water systems be used;
- ✓ indication of exhaust air volume in m³/h;
- ✓ control of cooling and humidification;
- ✓ cycle-controlled ventilation during minimum ventilation;
- ✓ humidity control with/without heat;
- ✓ extended curve control (temperature, heat, humidity, floor heating, minimum and maximum ventilation);
- ✓ up to 4 water meters register water consumption;
- ✓ water alarm in case of oversupply or under-supply in comparison to the previous day;
- ✓ sequential connection of 2 infinitely variable fan groups;
- ✓ control of up to 4 timers for light/feeding;
- ✓ trend curves;
- ✓ in-between function (soaking, washing, drying);
- ✓ frost protection for empty houses;
- ✓ environment control function → temperature or ventilation can be increased during check-up walks in the house;
- ✓ log-file for fail-safe alarm and operational data;
- ✓ access codes;
- ✓ integration of PC program BigFarmNet Manager.

Cooperation of Big Dutchman standard components

CL Flex or CL 1200 fresh air unit

- ✓ universal fresh air units ensure optimum intake of fresh air
- ✓ available as flange inlet or to be fitted into the wall
- ✓ can either be opened at the same time or one after the other



Fogging Cooler

- ✓ ideal for cooling, humidifying and soaking
- ✓ ensures comfortable temperatures in the house on hot summer days
- ✓ provides the right air humidity
- ✓ cuts down on dust
- ✓ special nozzles made of stainless steel allow for very low flow rates but very high passage speeds and thus create a very fine aerosol fog



environment control in smaller poultry houses

your poultry house, whether it involves

n to temperature and humidity control,
Besides it has several in-between

ly to the required temperature level;
ed configurations. It also enables the

for immediate access to daily-used

efore are not able to change computer

nctions are needed.



Temperature-controlled emergency opening MC 278 T

The temperature-controlled emergency opening fail-safe system MC 278 T ensures survival of the birds in case of power failure or technical break-downs. 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 system is to react can be adjusted at the MC 278 T. This means that in an emergency, the intake and exhaust air elements will not open fully at once, but gradually – depending on the temperature. The emergency opening function itself is built into the MC 235.

for optimum environment control

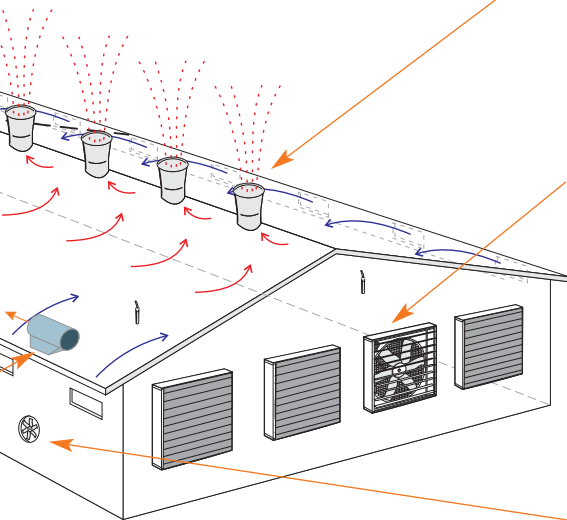
CL 75 winch motor

- ✓ adjusts the fresh air unit flaps
- ✓ compact in design, very rugged and needs no maintenance
- ✓ standard version features a steel wire with two tracks, which can also be expanded
- ✓ is relay-controlled and available for 24 V DC as well as 230 V AC
- ✓ including electric switch for manual operation



CL 600 exhaust air chimney

- ✓ good exhaust air performance
- ✓ smooth, dirt-repelling surface
- ✓ the self-supporting roof plate construction does not require any additional suspension or bracing
- ✓ the integrated fan is very easy to assemble and available in different versions
- ✓ two diameters are available (650/900 mm)



AirMaster

- ✓ effective fan with a very large diameter
- ✓ high air performance with low energy consumption
- ✓ shutter opens by the pressure of the air flow and stays open by counterweights → low air resistance
- ✓ low noise level
- ✓ motor without cooling fan → very low maintenance
- ✓ solid, rugged and simple construction

Heating JetMaster or RGA

- ✓ with or without removal of exhaust gas
- ✓ ensures optimum temperatures in the house
- ✓ can be operated with natural gas or propane
- ✓ is controlled by a thermostat
- ✓ flame guard
- ✓ built-in fan ensures wide operating range → good distribution of the warm air
- ✓ the heat generated is 100 % beneficial to the birds



Axial fan with frame

- ✓ for incorporation into a wall
- ✓ the frame has an aerodynamic shape and consists of high-quality cast steel
- ✓ the blades are made of diecast aluminium → long service life
- ✓ high air performance with low energy consumption
- ✓ easy to adjust, low noise level
- ✓ available with a diameter of 300 to 920 mm

MC 235-S, MC 235-L and MC 235-XL – 3 extension stages for all requirements

MC 235-S (MC 235-S1 for one house; MC 235-S2 for two houses) is equipped with 5 relays per house; i.e. a maximum 5 of the listed functions are available.

MC 235-L (MC 235-L1 for one house; MC 235-L2 for two houses) is equipped with 10 relays per house; i.e. a maximum 10 of the listed functions are available.

MC 235-XL is equipped with 20 relays per house; i.e. a maximum 20 of the listed functions are available.

Attention: Relay-controlled servomotors always occupy two relays.

Functional survey MC 235-S / MC 235-L / MC 235-XL

Intake air:	fresh air inlet 1 fresh air inlet 2 parallel or sequence controlled fresh air inlet 3 parallel or sequence controlled fresh air inlet 4 parallel or sequence controlled intake air fan 1 intake air fan 2 relay for extra intake air via outside or inside temperature frost protection
Exhaust air:	exhaust air flap infinitely variable 1a exhaust air flap infinitely variable 1b exhaust air flap infinitely variable 2a exhaust air flap infinitely variable 2b speed control exhaust air A internal or external 0-10 V speed control exhaust air B internal or external 0-10 V no. of MultiStep® groups: MC 235-S: 2; MC 235-L: 4; MC 235-XL: 8
Central exhaust air system:	control of central exhaust air

Emergency opening:	temperature-controlled emergency opening emergency air relay
Heating:	room heating zone heating
Cooling, humidifying, soaking, spraying	
Sensors:	floor heating humidification sensor CO ₂ sensor for minimum ventilation other sensors (pressure, temperature, NH ₃ , O ₂ , humidity)
Environment control function	
Timer:	up to 4 timers
Water meter:	up to 4 water meters
Free range function (manual entry "free range open")	
Key switch for depleting function	
BigFarmNet Manager	

BigFarmNet Manager

This management program allows to display the entire house climate graphically and in table form and to apply it at your home PC. BigFarmNet Manager runs under Windows and offers the user a clear display of all connected houses and their in-house climate conditions. This includes for example inside and outside temperatures, air humidity in the house and the flap position of intake and exhaust air units. The connection of the MC 235 with your PC at home is realized by a BFN web link database and DSL or ISDN.

- ✓ optimized user surface with symbols and graphical elements
- ✓ detailed alarm log, history and analysis
- ✓ remote control of MC 235 as well as rapid data exchange between PC and MC 235.

Furthermore, a combined climate and production version optimized for broiler growing is available. For this, an additional MC 95 computer is used.



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