INTELLIGENT REGULATION
for Ventilation Technology

Clever Control
- Color TFT screen 2,8 inch
- 114 (h) x 85 (w) x 14 (d) mm
- Prepared for flush-mount installation

Intelligent PCB Box
- Electronic PCB Regulation
- Vanosh Protection
- 218 (w) x 140 (h) x 64 (d) mm

PCB Power Supply
- Input: 100-240VAC 50/60Hz (AC)
- Output: 24V DC (DC)
- EU 2 pins / BS 3 pins plugs

RJ11 + RJ45 Cables
- Easy Plug & Play installation
- RJ11 (4 Pinos), 7m length
- RJ45 (8 Pinos), 3m length

Outdoor Temperature Sensor
- Real-time temperature values
- IP65 Protection

Door Contact
- Monitoring Door Status
- Magnetic contact

Advanced functions:
- Intelligent proactive regulation
- Manual / Automatic Functioning
- Energy saving modes: Eco, Medium and Comfort
- Different programs depending on installed temperature sensors
- Lots of functions to fulfill the client needs
- Fixed / Flexible door delay (progressive / adaptive)
- Calendar (Timer ON day/ON night/OFF)
- Alarms: general, filter, anti-freezing, overheating, fans overheating, airflow, fire, external, heating locked, etc.
- Day / Night Temperatures
- Multi-Equipment management
- Multilanguage
- User / Basic / Advanced configurations
- Control lock option
- 3 Temperature sensors: inside, outside and air jet
- Unheated, electrical or water heated, heat pump (also combined)
- Modulating valve for water heated (includes 24V power supply)
- AC and EC fans

External communication:
- 2 independent Modbus RTU - BMS
- Configurable IN/OUT Digital/Analogical - BMS
- Modbus TCP Ethernet - BMS (optional)
- PC program (RS485)
- WiFi / Bluetooth (optional)
- Android application
- External monitoring (IP)

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CLEVER KIT INCLUDES:
- (-) Compatible with all already installed Airtècnics air curtains (with telephone cable)
Total Ultimate Control for air curtains management

The future is here with the new generation Clever control. Maximum control, maximum energy saving. Clever automatically adapts the functioning of the air curtain to the entrance conditions in order to keep the comfort saving energy.

USER-FRIENDLY

Multilanguage and easy icons for fully understanding.
Main state screen indicates the most important settings including: Ventilation speed, heating, temperatures, door state, working mode and program, filter state, day/night, timer, etc.
Different menu configurations depending on who is managing the equipment: Simplified "User" mode, "Screen" to configure the TFT, "Basic" with main parameters and "Advanced" for professionals.

ADAPTIVE DOOR DELAY

When the door closes, the air curtain remains working at door open conditions for certain time to be ready if it opens again. The power of the unit during this delay time is divided into two strength stages, where the first is stronger than the second one in order to save energy.

There are two types: "Fixed" where you can select the duration of the delay, or "Flexible" which adapts automatically the time depending on how often the door is open.

ENERGY SAVING

Clever Control has 3 grades of comfort and energy efficiency which can be adjusted in all manual and automatic programs. "Eco" mode uses the less energy possible without compromising too much the comfort, while "Comfort" spends more ventilation/heating to maintain or achieve quicker the set temperature. As indicates, "Medium" is in between both modes.

BMS CONNECTION

Clever uses Modbus RTU protocol to communicate between the PCB and TFF control, so it can be connected directly to a Modbus RTU BMS system. Available Modbus Ethernet with extra module.

The Clever PCB has several digital IN/OUT and analogical IN/OUT (0-10V) to control/monitor directly the unit (ON/OFF, fan speed, heating, temperature set, alarms, etc...).

PC / ANDROID APP

Any Windows PC, Android or IOS device can manage the air curtain with the same functions as the Clever TFF control. If an IP is assigned, the unit can be externally fully controlled through internet. Extra WiFi / Bluetooth module required for Android.

MULTI-EQUIPMENT

Clever PCB can manage different types of units: Air curtains, fan heater, AHU, etc.
Once programmed, it can work by itself without any TFF control. Clever controller display shows the functioning and is used to program each device. One TFF can manage up to 255 different units, each one with its own program. The system detects and shows automatically how many units are connected. End user can customize the name of each equipment.

INTELLIGENT REGULATION

Depending on door state, how often the door is open/closed, internal/external temperature or discharge temperature, Clever optimizes the ventilation and heating to make an efficient barrier for an optimal climate separation. Manual or automatic functioning with many different programs depending on heating type (water, electrical, heat pump or unheated) and installed temperature sensors. Lots of extra functions to fulfill all client needs.

FULLY PROGRAMMABLE

In Advanced configuration mode, user can set the minimum/maximum of many parameters, like ventilation speed or heating when door is open/closed, set the temperatures for day/night and air outlet, the door delay, etc.

TIMER / CALENDAR

Once programmed, the air curtain starts and turns off according to the client needs. Calendar function to turn ON/OFF automatically the unit depending on each different day of the week or predefined groups of days. User can select between Day or Night modes with 2 different Set temperatures in order to save energy.

FILTER ALARM

Indicates when filter needs replacing/cleaning. Clever offers 2 options: By "Timer" of functioning hours or by "Pressure Sensor" switch. Filter sign will change color depending on the state from green to orange and finally red combined with a flashing message on the screen.

CLEAN FILTER ⬅️ DIRTY FILTER ⬅️ REPLACE FILTER ⬅️