

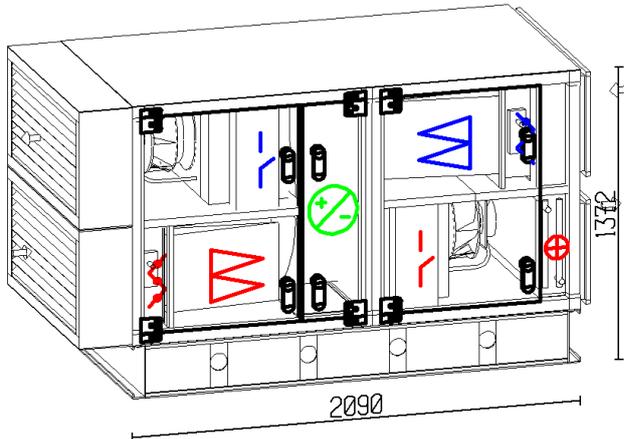


Projekt:

Jednostka: Danvent DV TIME 15

Sumaryczne dane dla jednostki nr: 1, Danvent DV TIME 15

| | | | |
|-----------|-----------|------|-------------------|
| Wielkość | jednostki | 15 | Jednostka dachowa |
| Szerokość | jednostki | 1120 | mm |
| Masa | | 624 | kg |



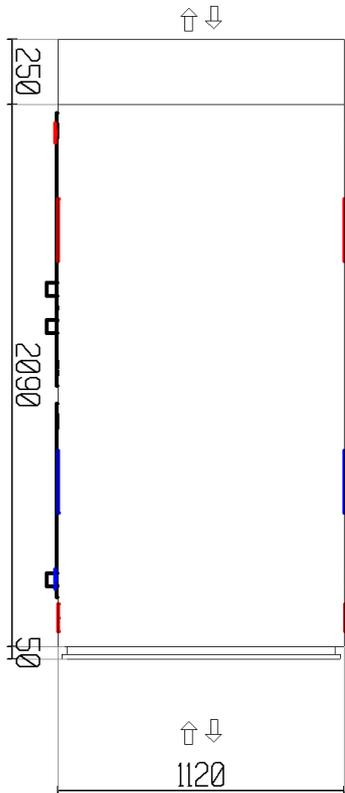
Centrale TIME s wyposażone w zintegrowany układ automatyki na bazie sterownika Corrigo E28.

| | Nawiew | | Wywiew | |
|---|--|-------------------|------------------------|-------------------|
| Przepływ (1,205 kg/m ³) | 3770.00 | m ³ /h | 2840.00 | m ³ /h |
| Prędkość czołowa (jednostka) | 2.11 | m/s | 1.59 | m/s |
| Sprężenie dyspozycyjne | 250 | Pa | 250 | Pa |
| Filtr | M5 | | M5 | |
| Prędkość wentylatora | 2209 | obr/min | 1876 | obr/min |
| Silnik | 1.70 | kW | 1.70 | kW |
| Napięcie | 380 - 480 | V | 380 - 480 | V |
| Prąd znamionowy | 2.60 | A | 2.60 | A |
| Odzysk ciepła | 69.9 % | | | |
| SFP, czyste filtry z uwzględnieniem regulacji prędkości | 107.6 | | kW/(m ³ /s) | |
| Nagrzewnica | 17.70 kW - Powietrze 10.0/24.0°C - Woda 70/50°C - 6.8 kPa - 0.22 l/s | | | |
| Krótce przyłączeniowe | 1" / 1" | | | |

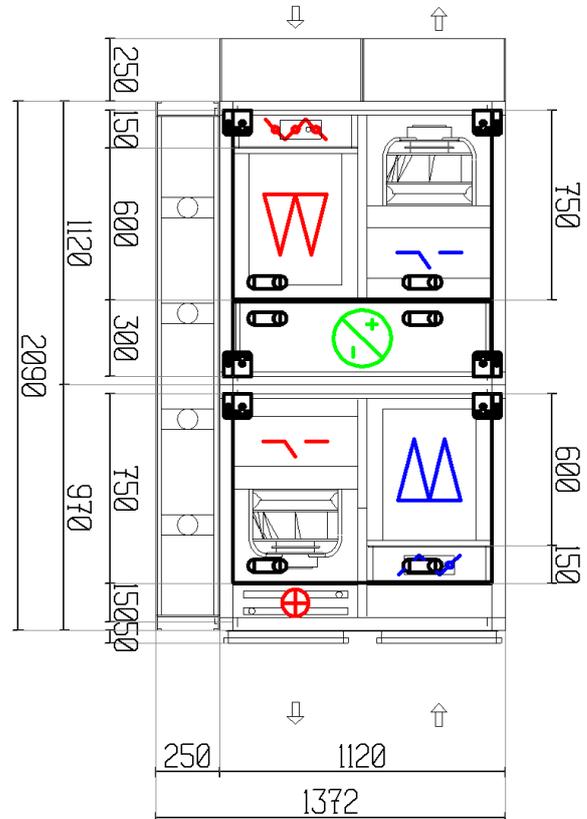
Eurovent energy efficiency class A

| Moc akustyczna | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Hz | Całkowita |
|-------------------------|----|-----|-----|-----|----|----|----|----|----|-----------|
| Powietrze, nawiew | 72 | 68 | 72 | 71 | 79 | 77 | 75 | 70 | dB | 83 dB(A) |
| Powietrze zewnętrzne | 67 | 64 | 68 | 59 | 58 | 58 | 49 | 32 | dB | 64 dB(A) |
| Powietrze, wyrzut | 71 | 67 | 70 | 69 | 78 | 76 | 74 | 70 | dB | 82 dB(A) |
| Powietrze, wywiew | 65 | 62 | 65 | 56 | 55 | 54 | 45 | 28 | dB | 61 dB(A) |
| Moc akustyczna, obudowa | 64 | 60 | 53 | 43 | 44 | 46 | 39 | 25 | dB | 52 dB(A) |

Widok rzutu



Strona serwisowa

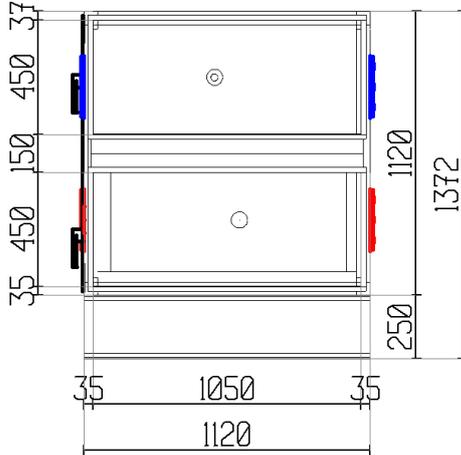




Projekt:

Jednostka: Danvent DV TIME 15

Prawy koniec





Skrócona specyfikacja techniczna

Układ sterowania

| | | | |
|---|---|-----|-----|
| Język w menu sterownika | Polski | | |
| Panel sterowania w dostawie | Tak | | |
| Zewnętrzna komunikacja | Modbus zintegrowany | | |
| Sterowanie temperatury | Kaskadowa regulacja temperatury powietrza wywiewanego | | |
| Sterowanie wentylatora | Sterowanie wydajności powietrza m ³ /h | | |
| Przepływ powietrza kompensowany temperaturowo | Brak | | |
| Czujniki w dostawie | Nie | | |
| Transmitter type | No display | | |
| Siłownik przepustnicy, nawiew | Siłownik ze sprężyną powrotną | | |
| Siłownik przepustnicy, wywiew | Siłownik ze sprężyną powrotną | | |
| Zewnętrzne sterowanie poprzez wejście cyfrowe | Wydajność normalna | | |
| Free cooling | Free cooling bez zewnętrznych czujników | | |
| Konfiguracja wymiennika | Nagrzewnica | | |
| Zabezpieczenie przeciwzamrożeńowe nagrzewnicy | Czujnik temperatury wody i kapilara | | |
| Zawór dla ogrzewania | Zawór 3-drogowy, Kvs 1.60, DN15 | | |
| | Wewnętrzny | | |
| Spadek ciśnienia | 24 | | kPa |
| Wielkość silnika | 2 x 1.70 | | kW |
| Zasilanie główne dla systemu sterowania | | | |
| Przebieg czujnik danych | Napięcie 3x400V + N + PE | 50 | Hz |
| | Maks. I _k | 16 | kA |
| | Min. I _k | 650 | A |
| | Maks. bezpiecznik | 25 | A |
| | Min. bezpiecznik | 10 | A |
| | Wentylator wywiewny, bezpiecznik | 6 | A |
| | Wentylator nawiewny, bezpiecznik | 6 | A |

Osoba dokonująca uruchomienia zobowiązana jest zapewnić odpowiednie dodatkowe zabezpieczenia elektryczne falowników zgodnie z przepisami.

Jednostka nawiewna składa się

Przepustnica

| | | |
|---------------------|----------|----|
| Spadek ciśnienia | 4 | Pa |
| aluzje przepustnicy | Standard | |

Filtr

| | | |
|--|-------------|-----|
| Obliczeniowy spadek ciśnienia | 110 | Pa |
| Początkowy spadek ciśnienia/Końcowy spadek ciśnienia | 64/156 | Pa |
| Przekrój, przekrój czołowy | 2.73 | m/s |
| Przekrój, powierzchnia filtra | 0.22 | m/s |
| Klasa filtra | M5 | |
| Wielkość filtra | 2x[490x392] | |
| Długość filtra | 535 | mm |



Projekt:

Jednostka: Danvent DV TIME 15

Obrotowy wymiennik ciepła

| | | Nawiew | Wywiew | |
|--------------------------------|--|---------------------------|------------|------|
| ZIMA | Przepływ powietrza | 3770 | 2840 | m3/h |
| | Spadek ciśnienia | 205 | 150 | Pa |
| | Temperatura powietrza przed/za | -16.0/12.0 | 24.0/-12.1 | °C |
| | Wilgotność wzgl dna powietrza przed/za | 100/29 | 20/97 | % |
| | Moc | 40.06 | | kW |
| | Sprawność odzysku ciepła | 69.9 | | % |
| | Współczynnik odzysku wilgoci | 53.9 | | % |
| Typ wymiennika ciepła | | Wymienik odzysku ciepła | | |
| Sprawność (wys. przetłoczenia) | | D14 - Wysoka | | |
| Napęd rotora | | Zmienna prędkość /rotora/ | | |
| Dane elektryczne | | 1x230V, 40W, 0.7A | | |
| Sektor czyszczenia | | 1 szt. | | |

Wentylator, Plug Fan

| | | |
|-------------------------------------|------------------|------|
| Przepływ powietrza | 3770 | m3/h |
| Sprężenie dyspozycyjne | 250 | Pa |
| Spadek ciśnienia | 38 | Pa |
| Ciśnienie statyczne | 642 | Pa |
| Ciśnienie całkowite | 681 | Pa |
| Moc absorbowana | 0.96 | kW |
| Prędkość wentylatora | 2209 | RPM |
| Maks. prędkość wentylatora | 2600 | RPM |
| Sprawność przy ciśnieniu statycznym | 69.8 | % |
| Sprawność przy ciśnieniu całkowitym | 74.1 | % |
| Współczynnik K (r=1,2 kg/m3) | 148 | |
| typ wentylatora | L-R3G355-AY40-01 | |
| Napęd bezpośredni | | |

Silnik

| | | | |
|--|---------------------------------------|-----|--|
| Typ silnika | Silnik EC (komutowany elektronicznie) | | |
| Wielkość silnika | M3G 112-GA | | |
| Zabezpieczenie silnika | Built-in | | |
| Moc znamionowa | 1.70 | kW | |
| Prędkość (nominalna) | 2600 | RPM | |
| Prąd, A | 2.60 | A | |
| Sprawność silnika z uwzględnieniem regulacji prędkości | 82.6 | % | |
| Napięcie | 380 - 480 | V | |
| Moc pobierana ze źródła zasilania z uwzględnieniem regulacji prędkości | 1.17 | kW | |

Nagrzewnica, Czynnik

| | | |
|---------------------------------|-----------|------|
| Przepływ powietrza | 3770 | m3/h |
| Spadek ciśnienia | 35 | Pa |
| Temp. powietrza przed/za | 10.0/24.0 | °C |
| Moc | 17.70 | kW |
| Prędkość czółowa | 2.67 | m/s |
| Rodzaj czynnika | Woda | |
| Temperatura czynnika wlot/wylot | 70.0/50.0 | °C |
| Przepływ czynnika | 0.22 | l/s |
| Spadek ciśnienia czynnika | 6.8 | kPa |
| Prędkość czynnika | 0.60 | m/s |



Projekt:

Jednostka: Danvent DV TIME 15

| | | |
|------------------------------------|--|----|
| Pojemno wodna | 3.6 | l |
| Strona przył czeniowa | Strona podł czenia chłodnicy/nagrzewnicy | |
| Wielko poł czenia Wlot/wylot | 1" / 1" | |
| Materiał rury | Cu | |
| Materiał lamelek | Al | |
| Szeroko szczeliny między lamelkami | 2.1 | mm |
| Ilo rz dów | 2 | |
| Kod wymiennika ciepła | DVH-15-W-Z-2-5-450-870-2.1-CU-AL-H-1 | |

Jednostka wywiewna składa si

Sekcja pusta

| | | |
|------------------|-----|----|
| Spadek ciśnienia | 2 | Pa |
| Długo | 150 | mm |

Przepustnica

| | | |
|---------------------|----------|----|
| Spadek ciśnienia | 2 | Pa |
| aluzje przepustnicy | Standard | |

Filtr

| | | |
|--|-------------|-----|
| Obliczeniowy spadek ciśnienia | 90 | Pa |
| Początkowy spadek ciśnienia/Końcowy spadek ciśnienia | 44/136 | Pa |
| Prędkość, przekrój czołowy | 2.05 | m/s |
| Prędkość, powierzchnia filtra | 0.16 | m/s |
| Klasa filtra | M5 | |
| Wielkość filtra | 2x[490x392] | |
| Długość filtra | 535 | mm |

Obrotowy wymiennik ciepła

Ustalane dane dla wlotu

Wentylator, Plug Fan

| | | |
|---|------------------|-------------------|
| Przepływ powietrza | 2840 | m ³ /h |
| Spręż dyspozycyjny | 250 | Pa |
| Spadek ciśnienia | 21 | Pa |
| Ciśnienie statyczne | 516 | Pa |
| Ciśnienie całkowite | 538 | Pa |
| Moc absorbowana | 0.59 | kW |
| Prędkość wentylatora | 1876 | RPM |
| Maks. prędkość wentylatora | 2600 | RPM |
| Sprawność przy ciśnieniu statycznym | 69.0 | % |
| Sprawność przy ciśnieniu całkowitym | 72.0 | % |
| Współczynnik K (r=1,2 kg/m ³) | 148 | |
| typ wentylatora | L-R3G355-AY40-01 | |
| Napięcie bezpośredni | | |

Silnik

| | |
|------------------------|---------------------------------------|
| Typ silnika | Silnik EC (komutowany elektronicznie) |
| Wielkość silnika | M3G 112-GA |
| Zabezpieczenie silnika | Built-in |

Projekt:

Jednostka: Danvent DV TIME 15

| | | |
|--|-----------|-----|
| Moc znamionowa | 1.70 | kW |
| Pr dko (nominalna) | 2600 | RPM |
| Pr d, A | 2.60 | A |
| Sprawno silnika z uwzgl dnieniem regulacji pr dko ci | 77.1 | % |
| Napi cie | 380 - 480 | V |
| Moc pobierana ze zródła zasilania z uwzgl dnieniem regulacji pr dko ci | 0.76 | kW |

Pozostałe cz ci

Dobór

| Produkt | Wymiary (szeroko x wysoko x długo) | Masa |
|-----------|-------------------------------------|--------|
| AHU1-2490 | 1220 x 1490 x 2490 mm | 626 kg |

Rama montażowa jest dostarczona zmontowana razem z sekcjami centrali.

Ośłona wlotu powietrza

| Produkt | Rozmiary (szer. x wys.) |
|------------|-------------------------|
| Zewn trzny | 1050x450 mm |
| Nawiew | 1050x450 mm |
| Wywiew | 1050x450 mm |
| Wywiew | 1050x450 mm |



Integrated Systemair control system

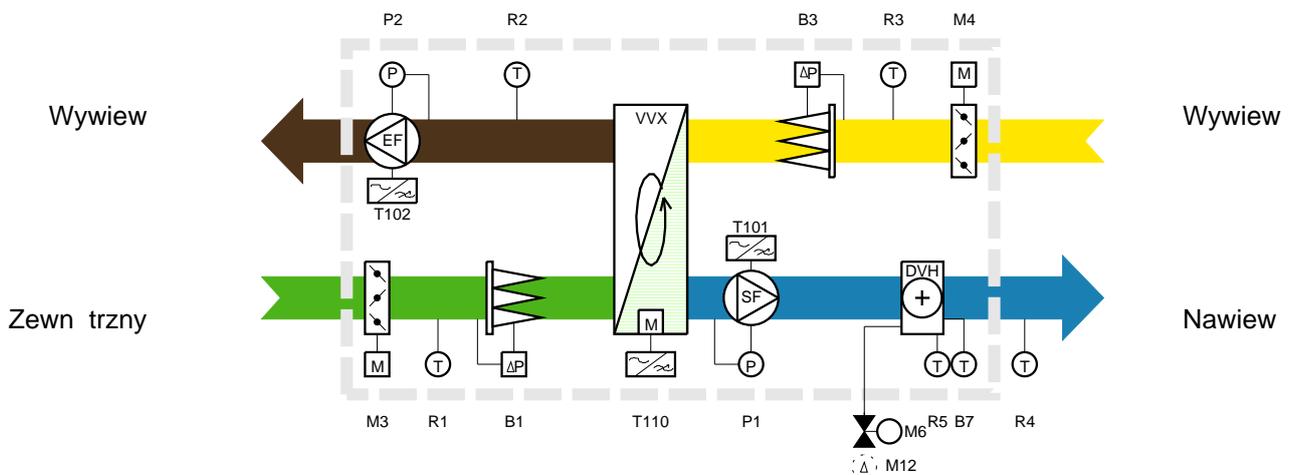
The air handling unit is built with a complete and fully integrated control system - based on 2 controllers - the Systemair E28-2 port controller and a Systemair E15 expansion

that are mounted in 2 cabinets. One cabinet is placed in the supply fan section and one cabinet in the exhaust fan section. The air handling unit can either run stand alone or cabled against a building management system

Before shipment the unit has been assembled and has passed a final functional test and inspection.

Order-specific set-up and parameters are stored in the controllers during this process. The test report is delivered with the air handling unit.

System sterowania



Szczegółowa specyfikacja techniczna

| | Przewód numer | Składnik numer | Strona/ indeks | Analogowy Wyj cie | Analogowy Wej cie | Cyfrowy Wyj cie | Cyfrowy Wej cie |
|--|----------------|----------------|----------------|-------------------|-------------------|-----------------|-----------------|
| Podstawowe komponenty | W312 | R1 | | | 3 | | |
| | W313 | R2 | | | | | |
| | W310 | R3 | | | | | |
| Sterowanie przepływu powietrza | | | | | | | |
| 2 ustalone przepływy powietrza | W350 | P1 | | | 2 | | |
| | W351 | P2 | | | | | |
| Presostat filtra nawiewu | Internal wires | B1 | | | | | 1 |
| Presostat filtra wywiewu | Internal wires | B3 | | | | | 1 |
| Silnik EC (komutowany elektronicznie) | | | | | | | |
| Wentylator wywiewny | W101.1 | T101 | | 1 | | | 1 |
| | W101.2 | T101 | | | | | |
| Wentylator nawiewny | W102.1 | T102 | | 1 | | | 1 |
| | W102.2 | T102 | | | | | |
| Konfiguracja wymiennika | | | | | | | |
| Ochrona przeciwzamro eniowa nagrzenwicy - czujnik po stronie wody oraz termostat kapilarny | W314 | R5 | | 1 | | 1 | 1 |
| | W371 | B7 | | | | | |
| Siłownik przepustnicy powietrza nawiewanego | | | | | | | |
| Siłownik ze spr yn powrotn | W330s | M3s | | | | 1 | |
| Siłownik przepustnicy powietrza wywiewanego | | | | | | | |
| Siłownik ze spr yn powrotn | W331s | M4s | | | | 1 | |
| Zewn trzne czujniki w dostawie do instalacji na miejscu | | | | | | | |
| Podstawowe komponenty | W311 | R4 | | | | 1 | |
| Zawór i siłownik, ogrzewanie | | | | | | | |
| Zawór 3-drogowy | W320 | M6 | | 1 | | | |



Projekt:

Jednostka: Danvent DV TIME 15

Panel sterowania

W90

C1

Recovery with rotary heat exchanger

The capacity of the rotary heat exchanger is stepless via the modulating control of rotary speed.

Cabinets and mains supply

The 2 cabinets with terminal blocks, relays, fuses, 24 V DC power supply and controller are mounted according to the supplied wiring diagram. The controllers are configured according to the customer's order and confirmed in the order confirmation. Specification is also delivered with the unit. On the site mains power supply must be connected directly to the cabinet placed in the supply fan section. The installer on site has full responsibility to ensure that any unit/installation which requires additional protection of the mains power supply relating to frequency converters or any other such device is all carried out according to local statutory requirements.

The supply disconnecting device for the unit is not included. But supply disconnecting device is available without cable and uninstalled - see the order confirmation.

External electrical components

Temperature sensor for supply air is provided with cable and connected to the cabinet placed in the supply fan section.

Depending on the customer's choice there are terminals in the cabinet for;

- pressure transmitters in ducts for pressure control
- valve for heating and circulation pump for heating coil
- temperature sensor for frost protection of the hot water heating coil
- electrical heating coil
- valve for cooling with chilled water.
- other sensors

The above-mentioned components are not provided with cable and the above-mentioned components are delivered uninstalled.

Control panel with 10 m cable is not connected to controller.

Controller and control panel

The control panel must be connected by cable (10 m) to the controller in the cabinet placed in supply fan section, and the programming and normal handling is carried out from the control panel with display and buttons - the Systemair Control Panel - the SCP. The protection class of the control panel is IP 41. It is possible to control the unit with the control panel up to 1200 metres away from the unit with the assistance of a repeater (optional). The distance between repeater and control panel is restricted to the 10 metres of cable in the control panel. Protection class for the repeater is IP20. The cable between the controller in the unit and the repeater is not delivered by Systemair. The repeater must be connected to the cabinet in supply fan section.

Schedules

The controller has individual schedules for start, stop and high/low air flow rate for each week-day as well as schedules for holidays.

The controller has automatic summer-winter-time change over.

Outside normal operating hours, free cooling is available according to settings.

Cooling recovery

If the extract air temperature is lower than the outdoor air temperature, and there is a cooling demand in the rooms, the cooling recovery will be activated. The heat exchanger signal is reversed to give increasing cooling recovery on increasing demand.

Access rights - passwords

There are 3 different log-on levels

- Operator level or basic level - (no password) - access to read values and to change user relevant settings concerning schedules, temperature, air flow and to cancel alarm and even to restart the system after having removed the reason that triggered the alarm.
- Service level (password) - access to change fundamental values, access to store new settings,



- access to restart the system according to user's own former settings or original factory settings.
- System level which has the highest authority level (special password) with full read/write access to all settings and parameters (also access to the configuration of the whole system)

Alarms and safety functions

If an alarm condition occurs, the Alarm LED on the control panel will flash. The LED will continue to flash as long as there are unacknowledged alarms. Alarms are logged in the alarm list. The list shows the type of alarm, date and time for the alarm and alarm class - A, B or C:

- Alarm type A will stop the fans and close the dampers or switch the unit to a special mode according to the configuration
- Alarm type B is only to inform the users of a failure. The unit is still running as well as possible
- Alarm type C - only to inform the user that the unit has been switched away from automatic running mode to manual control

For frost protection of the heating coil a temperature sensor is installed in a return circuit of the coil. The control signal to the mixing valve is kept at a level that secures that water return temperature is at all times kept at a factory set minimum. This protection is also active when the unit is not running. This extended system offers maximum protection safety. If the water temperature is getting too low anyway, the unit including fans is shut down.

Alarm signal

A relay with potential free contact is mounted in the board. The potential free contact is activated by alarm.

Flexible System

A qualified service technician - on the site and at the request of the user - will be able to adapt the regulation further to the requirements of the users;

- The air flow regulation can be changed between 2 methods that are constant air volume through the fans or constant pressure in the ducts.
- The temperature control mode can be changed between room temperature control, supply air temperature control and outdoor compensation of the selected temperature.
- In addition to the fixed schedule, an external start signal for extended operation is available.
- In addition or as an alternative to the fixed schedule, an external start/stop input signal is available.
- A large number of other alternative functions are optional.

Cascaded extract temperature control

The control of the supply air temperature is based on the values from 2 temperature sensors:

- a sensor inside the extract section giving the mixed average temperature from the rooms
- a sensor installed by the installer in the supply air duct. The sensor is delivered with 10 m cable, and connected to terminals.

The supply air temperature is controlled by a cascaded room temperature programme to achieve a constant, settable room temperature. The set points for the room temperature as well as the temperature limits for the supply air temperature can be adjusted on the control panel. The output from the room temperature PI-loop controls the supply air temperature. The set-point value is achieved by controlling the capacity of the heat exchanger, heating coil and cooling coil (if installed). The control of all capacities is fully modulating.

Air flow control - m³/h

The air flow rates of supply and extract air are controlled separately. The supply and extract air at Normal and Reduced airflow in m³/h are set separately on the control panel. On each fan a pressure transducer measures the difference between the pressure before the inlet cone of the fan and the pressure in the measuring probe in the inlet cone. Through a formula with a factor for each fan size, the output signal from the pressure transducer is calculated by the controller to the actual airflow in m³/h.

Cabinet in the extract fan section on TIME

The cabinet is integrated in the air handling unit according to the technical documentation. The cabinet is placed behind the inspection door/ shielding for the extract fan. The name of the cabinet is cabinet number 2. No external electrical components are connected to this cabinet (LON bus - if delivered - must



be connected to the controller in this cabinet). All components in this section are connected directly by cables to this cabinet. Cable strips are premounted for easy installation of cables from the cabinet in this section to the cabinet in the supply fan section. When the air handling unit is assembled on the site, all cable entries must be sealed.

Cabinet built in the supply fan section on TIME

The cabinet is integrated in the air handling unit according to the technical documentation. The cabinet is placed behind the inspection door/ shielding for the supply fan. The name of the cabinet is cabinet number 1. All components in this section are connected directly by cables to the cabinet in this section. All external electrical components must be connected to this cabinet. All cables from the external components must be lead into the section through a cable entry in the bottom of the section. On site all cables inside the unit from the external components must be provided with plugs according to the wiring diagram. When the assembly of the air handling unit on site is finished, it is very important that the cable entry (a pipe) in the bottom of the section is properly sealed by the installer to avoid any entry of "false" air.

Number of sections with internal electrical components - 1

Danvent TIME air handling unit delivered in 1 section. The mains power supply, cables from external components must be mounted in the board no. 1 placed in the supply air section. The mains power supply cables and cables from the external components must be lead to the board inside the section through a cable entry in the bottom of the section.

Extract fan - TIME ec

The extract air fan is driven by an EC motor with the impeller mounted directly on the motor shaft. All parameters in the motor speed control have been configured and tested from factory. The installer on site has full responsibility to ensure that any unit/installation which requires additional protection of the mains power supply relating to frequency converters in the EC motors is carried out according to local statutory requirements.

Supply fan TIME ec

The supply air fan is driven by an EC motor with the impeller mounted directly on the motor shaft. All parameters in the motor speed control have been configured and tested from factory. The installer on site has full responsibility to ensure that any unit/installation which requires additional protection of the mains power supply relating to frequency converters in the EC motors is carried out according to local statutory requirements.

Frost protection of the heating coil - water temperature sensor as well as capillary temperature sensor on the coil surface.

For frost protection, the water temperature in the coil is transmitted to the controller by a temperature sensor in a water return circuit of the coil. The controller always generates a signal to the valve motor that keeps a sufficient flow of hot water to protect the coil against frost. This frost protection is also activated when the running mode is "off".

If the water temperature falls below the set point temperature the fans stop, the dampers close, and an alarm is activated.

For additional frost protection, a mechanical thermostat with a capillary tube mounted on the surface of the coil will stop the fans directly if the temperature falls below the thermostat set-point. In addition it will cause a controlled shut down of the unit - dampers close and all other functions stop, and an alarm is activated.

Terminals for 230 V circulation pump are available in the control cabinet. The pump for the heating circuit will always run when the outdoor temperature is lower than a settable value (+10 °C). At higher outdoor temperatures the pump will run when the heating output is larger than 0 %%. The pump has a settable, shortest running time and the pump will be exercised once daily at 3 p.m.

Pump is not included in the delivery.

3-way valve - heating coil

The Heating coil capacity is controlled by a 3-way control valve with a modulating valve motor.

Valve and valve motor are included in the delivery. Valve, valve motor and temperature sensor for frost



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protection are not installed and no cable is included. We recommend that the control valve is always installed in the return pipe to the heating system.

Damper - supply air, spring-return motor

The damper is opened and closed by a spring-return damper motor - torque 20 Nm - running time 150/16 seconds.

Damper - extract or exhaust air, spring-return motor

The damper is opened and closed by a spring-return damper motor - torque 20 Nm - running time 150/16 seconds.

No fire thermostats and/or fire detectors delivered

The unit is delivered without fire thermostats or other fire detectors. If fire thermostats or other fire detectors are installed later on, software in the controller can be activated by a qualified service technician for activation of fire protection sequences.

Filter guard over bag filter in supply air

Filter guard over bag filter in supply air installed and connected to the controller for display of alarm when the mechanically set limit is exceeded.

Filter guard over bag filter in extract air

Filter guard over bag filter in extract air installed and connected to the controller for display of alarm when the mechanically set limit is exceeded.

Communication to BMS systems with MODBUS

The controller has been prepared for communication via RS485 communication port to a MODBUS based BMS system (Building Management System).

The controller can work as a stand-alone system without any support from other controllers.

Free cooling

The outdoor temperature is measured by a sensor inside the unit in the outdoor air entrance. If the outdoor temperature after midnight is below the room temperature set point and the actual extract temperature is above the set point temperature, the fans start during the summer to cool down the building during night. The function is only active before and after time scheduled operation. All parameters can be set individually. When conditions for room temperature is reached the unit stops. After 1 hour the system will start up again if the room temperature is too high again. Optional room- and outdoor temperature sensors will improve performance of this function.

Extended running - normal speed

A digital input - just to pressing a button - can force the unit to start at the normal speed although the timer says the running mode should be "off". The unit will run for the set time. The cabinet has been prepared with additional terminals for the connection of cable. Cable and button are not delivered by Systemair