

# GLOBAL PX<sup>SERIES</sup>

## CONTROL OPTIONS



**Touchscreen HMI**



**BACnet gateway**



**MODBUS RTU / ETHERNET**



**WIFI**



**SAT3**



**KNX**

## AVAILABLE OPTIONS

- Internal electrical post heating coil (KWout)
- Internal electrical pre-heating coil (KWin)
- Internal water post heating coil (IBA)
- Exteral post heating/cooling coil (EBA)
- Motorised dampers (CT)
- Flexible sleeve 20mm (MS20)
- Flexible sleeve 30mm (MS30)
- Slip clamps 20mm (SC20)
- Air inlet/Outlet with grill (AU)
- Roof for outdoor installation (OUT)
- External 2nd filterstage (EFI)

## THE CORRECT OPERATING MODE IS AN IMPORTANT FACTOR

### AIRFLOW OR PRESSURE

Whether the ventilation system is operated on the basis of constant pressure or constant airflow or via a 0–10V control system depends on the area of application and the specific on-site requirements. The integrated master/slave control system ensures that operation is always well-balanced.

### THE ADVANTAGES IN DETAIL

- Sufficiently high reserve pressure
- Constant airflow
- Demand control: constant airflow linked to a 0–10 V signal
- Constant pressure via an external pressure sensor

#### Constant airflow mode

A typical area of application is non-residential buildings, e.g. offices and business premises as well as schools, nurseries and sports halls with stable volumes of air.

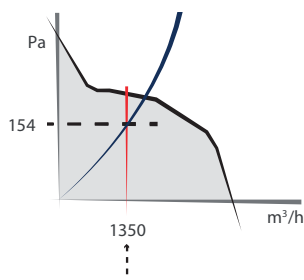
#### Demand control mode

Alternatively, the airflow can be automatically adapted in line with the ventilation requirements and on a user-specific basis via the 0–10 V input, e.g. by means of a CO<sub>2</sub> sensor, or the control system can be used via the customer's building service management/instrumentation and control system.

#### Constant pressure mode

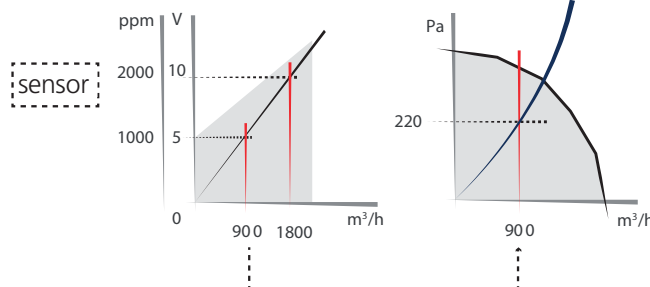
A prime example is undoubtedly apartment buildings with the opportunity to control the ventilation in individual apartments separately. The pressure remains constant even when the ventilation is increased or decreased in one apartment as required, by means of an airflow control unit. The airflow stays the same in all the other apartments, i.e. the ventilation system always runs within the ideal range. An external pressure sensor is required for constant pressure mode.

### THE 3 MAIN OPERATING MODES:



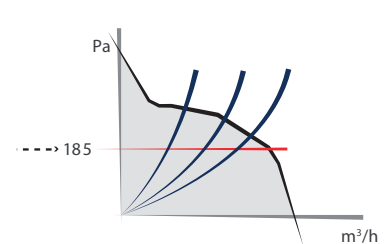
#### Constant Airflow mode

The airflow is kept constant, irrespective of external changes in pressure.



#### Demand control mode

**A linear voltage/airflow ratio.** The airflow can be controlled via a 0–10 Volt signal.



#### Constant pressure mode

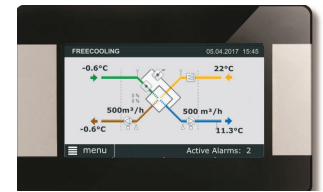
The pressure is kept constant, regardless of external changes in pressure. A pressure sensor is required.

## Touchscreen REMOTE CONTROL

Remote control with touchscreen display and integrated timer with 6 actions per day and 'off day' functionality. For configuring and controlling the operation of 1 heat recovery unit. The commissioning menu, alarm history and maintenance menu are all of them focussed on

efficient operation.

Article	CID
TACtouch	372096



## SAT MODBUS

Interface for configuration, visual display and controlling the operation via MODBUS RTU

Article	CID
SAT MODBUS	025006



## SAT ETHERNET

Interface for configuration, visual display and controlling the operation via MODBUS TCP/IP

Article	CID
SAT Ethernet	025072



## BACnet gateway

For communicating with the heat recovery devices via a BACnet TCP/IP protocol. Up to four units can be integrated through the interface. The optional SAT Ethernet interface is required.

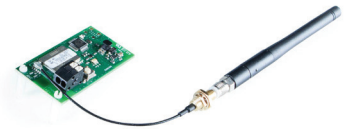
Article	CID
BACnet	025095



## SAT Wifi

The Wifi interface with MODBUS TCP/IP, allows for a wireless connection to the air handling unit. Typically this accessory would be used in order to control the unit with the smart phone application.

Article	CID
SAT wifi	025071



## SAT KNX

Interface for configuration, visual display and controlling the operation via KNX

Article	CID
KNX	025045



## SAT3

The SAT3 combined with the TAC5 controller allows signalling the following with 2 free of potential contacts: Fan is actually running and alarm on a pre-set pressure variation. This status is expressed by closing the contact

Article	CID
SAT3	370005

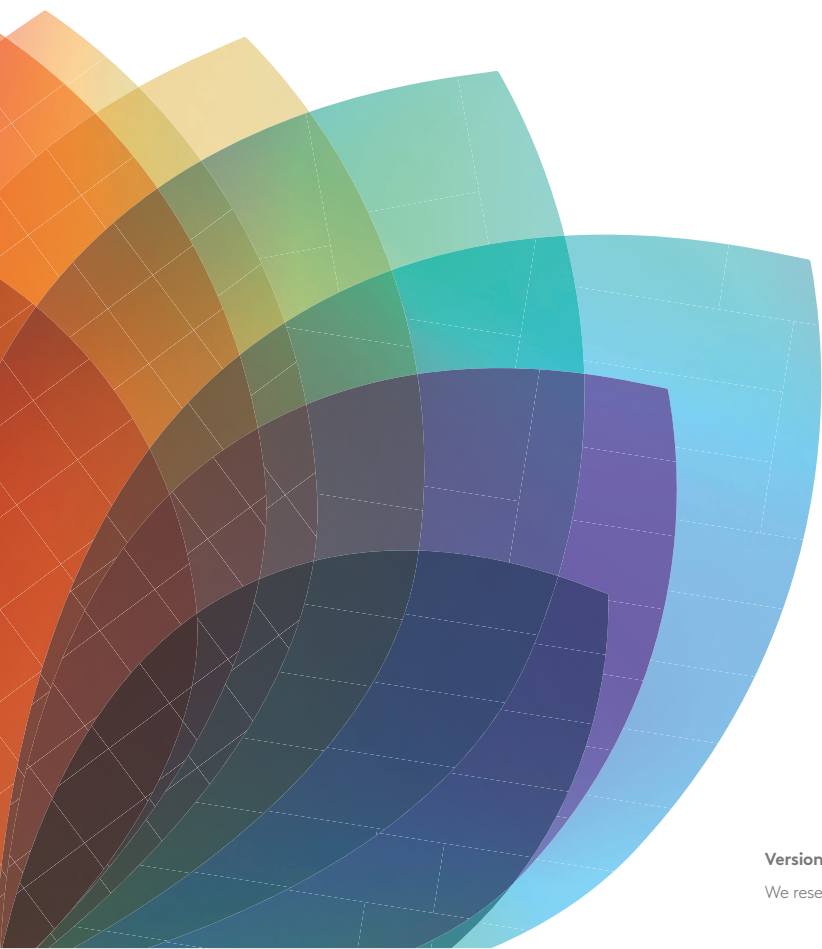


## SAT BA/KW

Used for external cooling, heating, change over or electrical coils.

Article	CID
SAT BA/KW	025007





Version: 20201006

We reserve the right for changes.