

## Frico Control

### One system, numerous possibilities

FC Control allows you to optimize your comfort with minimum effort, customized to your specific needs. Read more about some of its many smart and automatic features below.



#### Energy savings with precise control

By receiving and reacting to information about the current room temperature in addition to the air curtain's inlet and outlet temperatures, the right amount of heat is added to avoid overshoots and thus reducing energy consumption.

Included in FC Pro.



#### Automatic heat blocking

To avoid unnecessary heating, the system automatically blocks any additional heat when the outdoor temperature reaches a given value (15°C by default).

Included in FC Pro.



#### Vestibule function

By installing two air curtains with a setting for vestibules, a dual function can be obtained. The outer air curtain operates with a higher airflow with less heat, providing a stronger outer shield. The inner air curtain operates with a lower airflow with more heat, providing more comfort and lower sound level.

Included in FC Smart and FC Pro.



#### Enhanced water control

Water heat is more accurately controlled with improved water functions and modulating actuators. Automatic functions such as bypass, frost protection and return water temperature control (with sensor FCWTA) improve product functionality without any additional effort.

Available with FC Smart, FC Pro or FC Building.





### Easy set-up and operation

The system automatically detects any products or sensors that are connected to it and immediately becomes functional. If anything is removed, a notification is sent out, and the system remains operational according to the new conditions.

*Included in all levels.*



### Optimized energy consumption with door contact

An easily installed door contact is included in all control levels. This enables the air curtain to become active only when needed and remain on stand-by when the door is closed, thus saving energy.

*Included in all levels.*



### Wireless sensors offer easier installations

Indoor and outdoor temperatures can be measured by wireless sensors, which allows for quicker and easier installations as no preparatory work is needed to connect cables through walls.

*Applies to FCTXRF. Indoor/outdoor wireless sensor (for FC Smart, FC Pro)*



### Control with app

The Frico app with its user-friendly interface makes it easy to set up and control products directly from your smartphone or tablet, allowing you to control your comfort with ease. The app FRICO CONTROL is available for both iOS and Android.

*Included in FC Smart and FC Pro.*



### Create zones

The zone feature allows you to create different zones for different conditions in a larger system, to create maximum comfort and energy savings in all areas. All zones can be controlled from the same app.

*Available with FC Smart or FC Pro.*



### Automatic airflow control

In order to generate the best possible door protection in any given condition, the system automatically adjusts the airflow steplessly between 0-100% based on the indoor and outdoor temperature.

*Included in FC Pro.*

Frico air curtains come with an integrated PC-board and are supplemented with the intelligent control system FC of your choice, working together to create many smart and energy saving features. There are four different packages to choose from, depending on your requirements.

## FC Direct

### Entry level

- Door contact
- Calendar function
- Filter timer
- Built-in temperature sensor

## FC Smart

### FC Direct +

- Control via app (Bluetooth)
- Wireless sensors possible
- Adjustable calendar function
- Away and Boost function
- Adjustable filter timer
- Vestibule function
- Zone possibility
- Enhanced water control possible

## FC Pro

### FC Direct + FC Smart +

- Automatic air flow control
- Automatic heat blocking

## FC Building - BMS

### FC Direct +

- 0-10V, potential free contact or Modbus
- Automatic air flow control\*
- Automatic heat blocking\*
- Heat and fan settings
- Alarm indication
- Read values
- Enhanced water control possible
- \* Requires outdoor temp signal



### Content

- FCCF control panel
- FCBC05 communication cable, 5 m
- FCDC door contact

## FC Direct

Entry level control system for a great start. The door contact provides an automatic energy-saving function, as the air curtain becomes active only when the door is open. When the door is closed, it remains on stand-by or runs on a lower fan speed if extra heat is needed. With the calendar function, you can choose periods of comfort and reduced mode. The control panel has a built-in temperature sensor, which is used for control when external sensors are not used.

Item number	Type	Description
74684	FCDA	FC Direct, first level control system



### Content

- FCCF control panel with built-in temperature sensor
- FCBC10 communication cable, 10 m
- FCDC door contact
- FCLAP local access point Bluetooth

## FC Smart

Second level control system for full freedom. FC Smart comes with all features from FC Direct plus additional energy saving features and the possibility of app control (Bluetooth). The app gives you access to all functions in the system, allowing you to set it up exactly the way you want it. It also enables you to create different zones with different settings in a larger system. The app FRICO CONTROL is available for both iOS and Android.

Item number	Type	Description
74685	FCSA	FC Smart, second level control system



*Content*

- FCCF control panel
- FCBC10 communication cable, 10 m
- FCDC door contact
- FCLAP local access point Bluetooth
- FCTXRF indoor/outdoor wireless sensor

**FC Pro**

Third level control system for maximum savings. FC Pro comes with all features from FC Direct and FC Smart plus additional automatic energy saving features. By receiving and reacting to information about indoor and outdoor temperatures, the right amount of heat and air flow is added to avoid overshoots and thus reducing energy consumption.

Item number	Type	Description
74686	FCPA	FC Pro, third level control system



*Content*

- FCCF control panel
- FCBC10 communication cable, 10 m
- FCDC door contact
- FCBAP building access point

**FC Building - BMS system**

Comprehensive control system for buildings, with the option to control via 0-10V, potential free contact (e.g. a relay) and/or Modbus RTU (RS485). FC Building enables you to receive product information status and alarms. Modbus allows for full use of all the energy saving features within the control system.

Item number	Type	Description
74687	FCBA	FC Building, BMS system

FC Control system helps to create many smart and energy saving features. In addition to our four packages, components can be added to expand and customize the system. With the app levels (FC Smart and FC Pro) it is also possible to create and control different zones. Each added zone needs to be equipped with one FC Direct and can be designed to fit its specific needs by adding different accessories.



### FC Direct, control kit

Control panel for fan and heat, door contact and 5 m communication cable. Used for additional zones with FC Smart and FC Pro. IP44.



### FCRTX, external room temperature sensor

For reading of the room temperature on another location than that of the control panel, incl. 10 m sensor cable. IP20.



### FCOTX, outdoor temperature sensor

Reading the outdoor temperature, incl. 10 m sensor cable. Enables automatic air curtain control and heat blocking. IP44.



### FCLAP, local access point

Local access point for extra wireless sensors (when operating more than 8 sensors) and extended range for wireless sensors or app control (Bluetooth), incl. 10 m communication cable. IP44.



### FCSC/FCBC, cable

FCSC Sensor cable available in 10 or 25 m for extra length. FCBC Communication cable for additional products within the same zone, available in 5, 10 or 25 m.



### FCDC, door contact

The door contact regulates the airflow on/off. Allows you to control air curtains at different doorways individually within the same zone.



### FCTXRF, indoor/outdoor wireless sensor

Indoor/outdoor wireless sensor with same features as FCRTX and FCOTX. The set up as outdoor or indoor sensor is made by a switch inside the sensor. Range up to 50 m. Battery life: 3-5 years. IP44.

#### FC Direct

*Content*

- FCCF control panel
- FCBC05
- FCDC

#### FC Smart

*Content*

- FCCF control panel
- FCBC10
- FCDC
- FCLAP

#### FC Pro

*Content*

- FCCF control panel
- FCBC10
- FCDC
- FCLAP
- FCTXRF

#### FC Building - BMS

*Content*

- FCCF control panel
- FCBC10
- FCDC
- FCBAP building access point

Item number	Type	Description	Dimensions
74684	<b>FCDA</b>	FC Direct, first level control system	89x89x26 mm (FCCF)
74694	<b>FCRTX</b>	External room temperature sensor	39x39x23 mm
74695	<b>FCOTX</b>	Outdoor temperature sensor	39x39x23 mm
74699	<b>FCLAP</b>	Local access point for extra wireless sensors and extended range	89x89x26 mm
74718	<b>FCBC05</b>	Extra communication cable, 5 m	5 m
74719	<b>FCBC10</b>	Extra communication cable, 10 m	10 m
74720	<b>FCBC25</b>	Extra communication cable, 25 m	25 m
74721	<b>FCSC10</b>	Extra sensor cable, 10 m	10 m
74722	<b>FCSC25</b>	Extra sensor cable, 25 m	25 m
17495	<b>FCDC</b>	Door contact	
74703	<b>FCTXRF</b>	Indoor/outdoor wireless sensor (for FC Smart, FC Pro)	89x89x26 mm