

SAVE CONNECT module

User Manual

GB

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E&OE

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1 About the SAVE CONNECT module

SAVE CONNECT module is a device that allows to control SAVE ventilation unit with a mobile application or any internet browser. The SAVE CONNECT module also provides additional features: software updates, Local Modbus TCP to RTU conversion mode, configuration file storing/import and export functions and remote technical service possibilities.



Note:

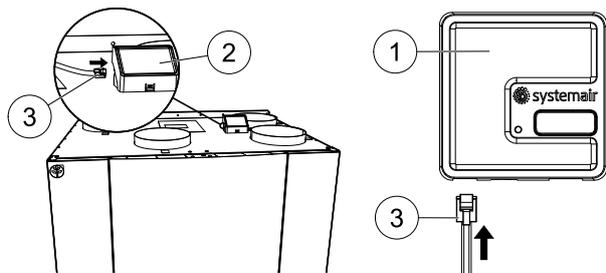
SAVE CONNECT module uses TCP/IP port 8989 for outgoing connections.

The package contains: SAVE CONNECT module, power supply cable and adapter (230 V), Modbus cable RJ10, CE/CD-diverting plug, Ethernet cable and 4 adhesive magnets for easy installation.

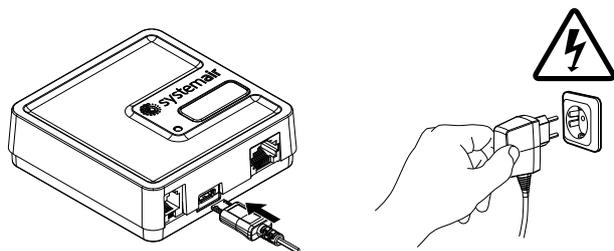
2 Installation and configuration

Units with external control panel need a CE/CD diverting plug since both external control panel and SAVE CONNECT module use the same socket in the connection box and on the main circuit board.

- 1 Connect the SAVE CONNECT module (pos. 1) to the connection box (pos. 2) with a cable RJ10 (pos. 3).
If the unit has more than one control panel, disconnect one of the control panels from the connection box.
Connect the control panel and SAVE CONNECT module to CE/CD-diverting plug. Then connect CE/DC-diverting plug to the connection box using a cable (RJ10).



- 2 Connect power to the SAVE CONNECT module (micro USB port).
After connection to power supply, green LED will start blinking fast.
Fast blinking indicates that the SAVE CONNECT module is trying to connect to the internet.



Different options are available for connection to the internet:

- Ethernet cable connection. See 2.1 *Connection to Internet with Ethernet cable*, page 2.
If Wired connection is an option (recommended).
- Wireless connection using WPS function. See 2.2 *Wireless connection using WPS function*, page 2.
If wired connection is not an option and home router supports WPS function.
- Wi-Fi connection setup using control panel. See 2.3 *Wi-Fi connection setup using a control panel*, page 3.

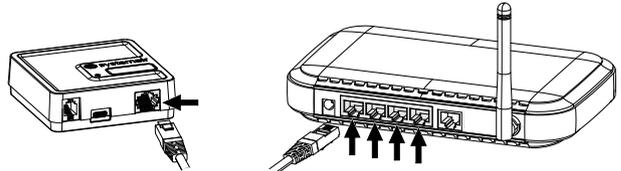
If wired connection is not an option and a home router does not support WPS function.

- Wi-Fi connection setup using a mobile application. See 2.4 *Wi-Fi connection setup using a mobile application*, page 3.

If wired connection is not an option and a home router does not support WPS function and control panel is not available.

2.1 Connection to Internet with Ethernet cable

- 1 Plug the Ethernet cable to the SAVE CONNECT module and the other end to the cable to any free Ethernet socket on your router.
- 2 The SAVE CONNECT module will automatically try to establish connection to the Cloud server. When connection is successful, green LED on the SAVE CONNECT module will start blinking slow.



Note:

Green LED blinking twice per second indicates failure to connect to the Cloud server. Check the Ethernet cable or Internet connection.

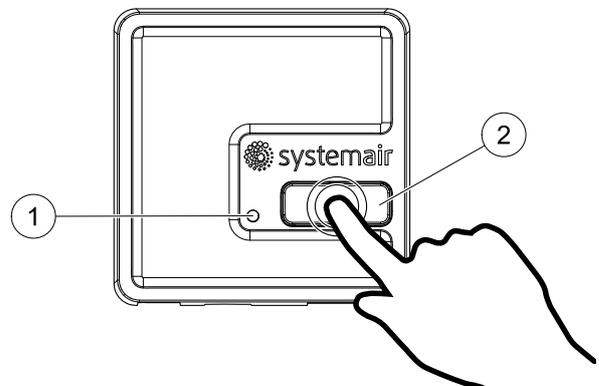
Proceed to chapter 5 *First login to SAVE CONNECT application* for login instructions.

2.2 Wireless connection using WPS function

- 1 Start WPS (Wi-Fi Protected Setup) on your wireless router (see your router manual for WPS activation). Make sure your wireless router supports WPS function. If your router does not support WPS function, see chapter 2.3 *Wi-Fi connection setup using a control panel*, page 3 for detailed information how to set up Wi-Fi connection using control panel.



- 2 Once WPS is activated, press and hold activation button (pos. 2) on the SAVE CONNECT module for 5 seconds until the red LED starts blinking twice per second and then release activation button.
- 3 When the SAVE CONNECT module successfully connects to the router (should not take longer than 1 minute), LED on the SAVE CONNECT module will start blinking once per second in green colour. If LED continues to blink fast in red colour, it means Wi-Fi connection was not



established. Reset the SAVE CONNECT module to default settings and try again. See chapter 3 *Resetting to default settings*, page 5.

- 4 Once the SAVE CONNECT module is connected to the wireless router, it will automatically establish connection with the Cloud server (it should not take longer than 1 minute). The LED will continue blinking once per second in green colour.
Proceed to chapter 5 *First login to SAVE CONNECT application* for login instructions.

2.3 Wi-Fi connection setup using a control panel

If your wireless router does not support WPS, Wi-Fi connection should be set up manually. Therefore you need to find Wi-Fi name and add password using control panel.

1. In control panel go to *Service -> Communication -> WLAN settings* menu.
2. Press *Scan for networks* button. The SAVE CONNECT module will search for available Wi-Fi networks (should not take longer than one minute).
3. After search is complete, find the network name to which the SAVE CONNECT module should connect and select it. Wi-Fi network must be password protected.
4. After required Wi-Fi name selection, password pop-up window appears in control panel screen. Insert your Wi-Fi network password.
5. If password is correct and connection to Wi-Fi network is successful, the SAVE CONNECT module will establish connection to Cloud server automatically. The SAVE CONNECT module LED will start blinking slowly in green colour.

Proceed to chapter 5 *First login to SAVE CONNECT application* for login instructions.

2.4 Wi-Fi connection setup using a mobile application



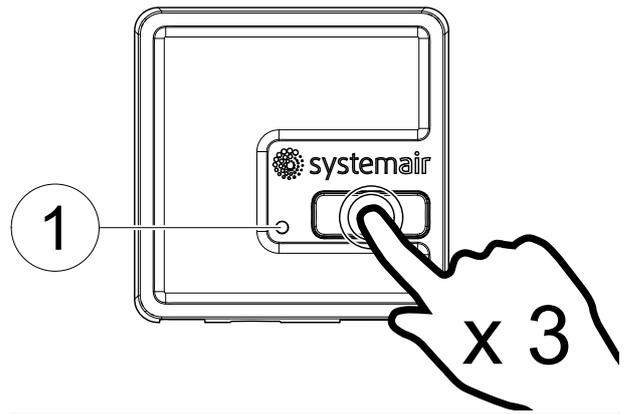
Note:

Location and Storage permissions have to be enabled for SAVE CONNECT application.

If previously described connection methods are not available – Wi-Fi settings can be set up using the Mobile Application.

1. Activate a hotspot mode by pressing a button on the SAVE CONNECT module 3 times in 3 seconds. Orange colour LED (1) should start blinking.

The SAVE CONNECT module will reboot and switch to the hotspot mode – broadcasting its own Wireless Local Area Network (WLAN). Name of the broadcasted WLAN matches the IAM ID (IAM_2480000xxxxx).



2. Connect to the broadcasted WLAN (IAM_2480000xxxxx). The ID is printed on the backside of the SAVE CONNECT module.

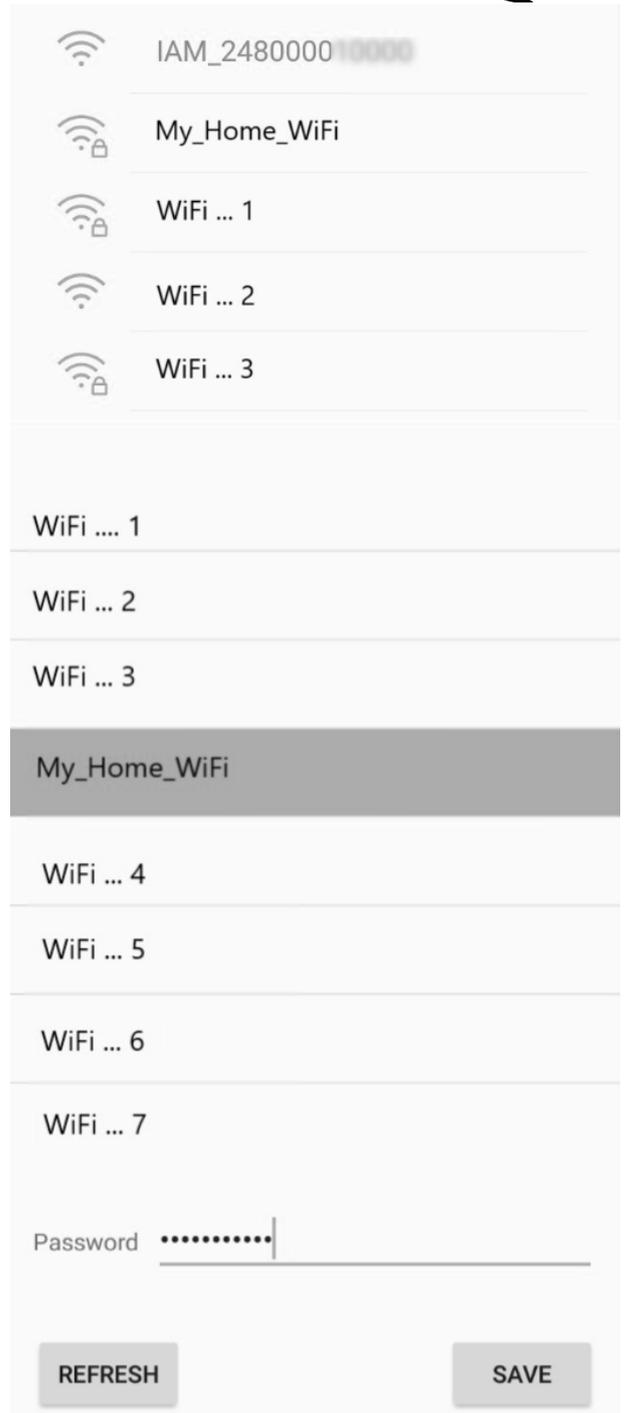
This network is open and no password is required to connect to it. The SAVE CONNECT WLAN will be broadcasted for 5 minutes or until the configuration is completed.

3. Launch the SAVE CONNECT application once connected to the SAVE CONNECT WLAN (for application download and settings instructions refer to 5 *First login to SAVE CONNECT application*).



Application will automatically scan for available Wi-Fi networks, this process can take up to 20 seconds. Choose desired network and enter the security password. Press **SAVE**.

This will enable the SAVE CONNECT module to connect to your home network.





Note:

The SAVE CONNECT module is not allowed to connect to unprotected networks! Make sure your selected Wi-Fi network has a password. If the Wi-Fi network list do not appear or application shows an error, check application permissions in the device settings.

4. Quit the mobile application and connect to your usual Wi-Fi.
5. Proceed to chapter 5 *First login to SAVE CONNECT application* for login instructions.

3 Resetting to default settings

In case of connection failure, the SAVE CONNECT module have to be reset. Disconnect the power supply cable, press and hold the activation button and while it is pressed, reconnect power supply cable. The red LED will start blinking, wait until it stops blinking (~10 seconds) and then release the activation button.

4 LED indicator codes

WLAN	Ethernet	Cloud	RED LED	GREEN LED
Connected	–	Not Connected	Blinks fast	–
Disconnected	–	Disconnected	Blinks slow	–
Connected	–	Connected	–	Blinks slow
–	Connected	Not Connected	–	Blinks fast
–	Disconnected	Disconnected	–	Blinks fast
–	Connected	Connected	–	Blinks slow

Fast blinking – every 500 milliseconds. Slow blinking – every 2 seconds.

5 First login to SAVE CONNECT application

Download and install SAVE CONNECT mobile application on your device. Application is available for both Android and iOS operating systems.



Application also be accessed directly through the website (<https://homesolutions.systemair.com>) by using any web browser.

- Change language if necessary by pressing the language icon in the top right corner.
- Create new account if you do not have one and follow the steps in the mobile application.

6 Setting the SAVE CONNECT module to Modbus TCP converter mode

The SAVE CONNECT module is configured to work in a Cloud mode by default – allowing the customer to connect to the SAVE unit using the mobile application. Alternatively, it can be switched to a Modbus TCP converter mode. This change can be done in the SAVE CONNECT module interface.

- 1 Find the SAVE CONNECT module IP address. The IP address is dynamic and will be different at different installations.
- 2 Open your internet browser and enter the IP address of your SAVE CONNECT module (e.g. <http://172.16.10.50>).
- 3 Type in the SAVE CONNECT module interface password in the opened login screen.
The password can be found on a back label of the SAVE CONNECT module.



IAM settings

A MB: 1.11.0
B HMI: 1.13.0
 HMI resources: 1.6.0
B Cloud connection: Connected
 Mainboard connection: Connected

C	Connection mode	<input checked="" type="radio"/> Homesolutions Cloud <input type="radio"/> Modbus Gateway TCP-RTU/RS485	
	D	IAM Modbus device	2
E	Configuration		<input checked="" type="radio"/> DHCP <input type="radio"/> Static
	IP address	000.000.000.000	
	Netmask	000.000.000.000	
	Gateway	000.000.000.000	
	DNS	192.168.002.254	
F	Network name (SSID)	DIR-615	
	Wireless password (Key)		
G	Disable this web interface	Confirm <input type="checkbox"/>	

H IAM SW version: 1.6.0
 IAM HW version:

A. Main Board (MB), Control panel (HMI) and language pack (HMI resources) versions stored in the SAVE CONNECT module. The SAVE CONNECT module can be used to update SAVE units with older firmware versions.

B. Connection status of the SAVE CONNECT module.

C. Connection mode:

- Homesolutions Cloud mode allows the SAVE CONNECT module to connect to Homesolutions Cloud enabling the user to use the mobile APP (default selection).

- Modbus Gateway TCP-RTU/RS485 mode switches the SAVE CONNECT module to Modbus TCP converter mode.

D. Indicates the modbus device ID.

E. Choose between automatically generated IP or static IP.

F. Allow the SAVE CONNECT module to connect to the router directly by providing your local Wi-Fi network name and password. This can be used if the router does not support WPS function. The device supports WPA-PSK and WPA2-PSK only.

G. You can disable web interface by ticking `confirm` selection.

H. Software and hardware version of the SAVE CONNECT module.

Detailed Modbus parameter list can be found at product description on systemair.com website (Item Number: 323606).

Use device ID "1" to read/write Main Board Modbus registers and device ID "2" to read the IAM Modbus registers.

7 Declaration of Conformity

Manufacturer



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LT-20174 Ukmergė, LITHUANIA
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www.systemair.com

hereby confirms that the following product:

Radio equipment: SAVE CONNECT

(The declaration applies only to product in the condition it was delivered in and installed in the facility in accordance with the included installation instructions. The insurance does not cover components that are added or actions carried out subsequently on the product).

Comply with all applicable requirements in the following directives:

- Radio Equipment Directive 2014/53/EU
- ROHS Directive 2011/65/EU

The following harmonized standards are applied in applicable parts:

EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011 / A2:2013	basic requirements for the safety of information technology equipment – Part 1. Article 3.1 (a)
EN 62311:2008	assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0Hz – 300GHz). Article 3.1(a)
EN 301 489-1 v2.1.1; EN 301 489-1 v2.2.0	Electromagnetic Compatibility (EMC) standard for radio equipment and services. Part 1: Common technical requirements. Article 3.1(b)
EN 301 489-3 v2.1.0	Electromagnetic Compatibility (EMC) standard for radio equipment and services. Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz. Article 3.1(b).
EN 301 489-17 v3.1.1; EN 301 489-17 v3.2.0	Electromagnetic Compatibility (EMC) standard for radio equipment and services. Part 17: Specific conditions for broadband Data Transmission Systems. Article 3.1(b)
EN 300 328 v2.1.1	Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques. Article 3.2

Symbol explanation



Use only power supplies which are provided by manufacturer and in original packing of this product.



RECYCLING: this product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/ EU in order to be recycled or dismantled to minimize its impact on the environment.

Ukmergė, 17-06-2021

Nerijus Lapackas
Technical Manager

8 USER AGREEMENT

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This Agreement takes effect when you click an "I Accept" button or check box presented with these terms or, if earlier, you use the Service, or by the explicit date otherwise agreed upon ("**Effective Date**").

You represent to us that you are lawfully able to enter into contracts. If you are entering into this Agreement for an entity, such as the company you work for, you represent to us that you have legal authority to bind that entity.

The Service

The purpose of the Service is to install, maintain and control Systemair Residential air handling unit. To use the service additional hardware must be connected to the air handling unit.

Systemair does not warrant that the Service will be error-free or that you will experience uninterrupted performance.

Systemair is not liable for any defect in the Service such as, but not limited to, damaging content such as malware, viruses, Trojan horses or hoax-viruses. You are obliged to ensure that all appropriate safeguards are in place in order to prevent the introduction of such damaging content into the Service through your use.

The Internet is a public medium and Systemair cannot guarantee complete security via the Internet, and is not liable for breaches of such security.

Systemair may use subcontractors in order to provide the Service.

Use of the Service

You may use the Service in accordance with the provisions set out in this Agreement.

You are granted non-exclusive, non-transferable right to use the Service.

To use the Service you may be asked to create an account. You are responsible for all activities associated with the use of your account, regardless of whether those activities are undertaken by you, your employees or a third party.

Your undertakings

You are responsible for having the appropriate hardware and/or software, including Internet connection, to use the Service. Systemair is not liable for any interference with or prevention of your access to and/or use of the Service.

You are responsible for providing your own backup of the data, information or content you upload or store through use of the Service. Systemair has no obligation to store or retain the data, information or content and may delete it at any time if you materially breach this Agreement.

You are responsible for any third party applications, software or hardware you use together with the Services.

You are responsible for the review of and compliance with any law, regulation, norm or directive applicable in view of your use of the Service.

You are responsible for obtaining and maintaining all permits and registrations and fulfil all other legal requirements for data transfer, data access and data processing in connection with your use of the Service. You shall indemnify and not hold Systemair or its supplier(s) liable for any claim, proceeding, action, fine, loss, cost (including professional fees) and damages proceeding or action against Systemair as a result of a breach of this provision.

You must not:

- modify, decompile, reverse engineer, disassemble, attempt to discover the source code or algorithms of, or create derivative works based on the Service or any part thereof, unless and to the extent permitted by mandatory law;
- disable or circumvent any access control or related device, process or procedure established with respect to the Service or any part thereof. Such prohibited conduct includes, without limitation, any efforts to gain unauthorised access to the Service, other user accounts, computer systems or networks connected to the Service, through hacking, password mining or any other means, log into an account with a password not assigned to the respective user, access identifiable information not intended for the respective user, test the security measures of the Service and/or attempt to identify system vulnerabilities, or to attempt to disable the Service; and
- transfer, resale, license, rent, lease, lend, assign, copy or otherwise make available the Service in whole or in part to any third party.

While using the Service you must not, and may have to reimburse Systemair for any costs and/or damages Systemair or its supplier(s) incurs due to the breach of:

- harm other persons, or infringe their personal rights;
- infringe industrial property rights and copyrights or any other proprietary rights;
- present false identity with the purpose of misleading others;
- upload malware, viruses, Trojan horses, hoax-viruses or any other programs that could damage data or the Service; or
- upload data (including hyperlinks) that may harm or damage the Service, or data that you are not entitled to, in particular illegal data or data in breach of confidentiality obligations.

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Systemair may at any time limit your access to, or use of the Service in order to limit damage caused Systemair, its supplier(s) or other users, by your use, or the supply of, the Service.

Systemair has the right to immediately suspend and/or deny you use of the Service in order to stop further distribution of data or information through the Service, if it is likely that such distribution violates applicable law, or if your use of the Service subject Systemair or its supplier(s) to liability.

Systemair has the right to update and modify the Service from time to time, and such updates or modifications may make it necessary for you to update, download or install necessary applications. Updates, modifications or maintenance may interrupt your use of the Service. Systemair is entitled to further develop and improve the Service, and for this purpose implement changes.

Modifications and adjustments to the Service and to this Agreement

Systemair has at any time the right to execute changes to the Service and to the Agreement in situations such as, but not limited to, when laws, regulations, engineering standards or other technical regulations change or are newly enacted.

Data and information

In connection with your use of the Service, data and information will be collected. That data or information may consist of, but is not limited to, data and information you upload or provide directly through use of the Service, as well as data and information sent, collected or made available through use of the Service or through use of Systemair or third party units, devices and/or machines connected or used through the Service.

You hereby grant Systemair, its supplier(s) or affiliates, not limited in time, the irrevocable right to compile, use, distribute, display, store, process, reproduce, transfer to third parties, create derivative works, including without limitation comparative data sets, statistical analyses and use in any other way, the data or information (1) for Systemair's purpose of providing the Service and (2) on an anonymized or pseudonymized basis for the purpose of improving Systemair's, its supplier(s) or affiliates products and offerings, provided such use is not prohibited by mandatory law.

You are responsible for, and warrant, that you have obtained all rights, permissions and consents necessary to upload any data or information. You have the sole responsibility for the accuracy, quality, integrity, legality, reliability and appropriateness of all the data and information.

You will defend, indemnify and hold blameless Systemair from and against any losses arising out of or relating to any third party claim concerning your infringement and/or omission of your obligations under this article.

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In order for Systemair to provide the Service and to improve Systemair's products and offerings, data and information may be collected as explained under Data and information above.

Systemair, its supplier(s) or affiliates will also compile, store, process and use personal data, such as, but not limited to, name and address data and other information and data related to you as a person, in order to provide the Service.

Systemair, its supplier(s) or affiliates may use subcontractors to process your personal data, and the personal data may be transferred to countries outside the EU/EES.

Through this agreement you hereby consent to Systemair's use of your personal data as explained above.

Indemnification

You will defend, indemnify and hold blameless Systemair, its supplier(s), affiliates or licensors, and each of their respective employees, officers, directors, and representatives from and against any losses arising out of or relating to any third party claim concerning: (a) your use of the Service in a manner not authorised by this Agreement; (b) violation of applicable law by you or your use of the Service.

Limitation of liability

Systemair, its supplier(s) or affiliates will under no circumstances be liable for any direct or indirect damages such as, but not limited to, loss of profits, loss of business, loss of use or of data, computer failure or malfunction, interruption of business or for special, incidental, exemplary or consequential damages of any kind whether under this Agreement or otherwise, even if Systemair has been advised of the possibility of such damages.

In no case will Systemair, its supplier(s) or affiliates cumulative liability for all claims of damages arising out of or related to this Agreement, and whether the claim for such damages is based in contract, strict liability, negligence or tort, or any other legal or equitable theory, other than liability under mandatory law, exceed fifteen (15) percent of the payments made by you for the use of the Service in the twelve (12) months prior to such claim.

The rights and remedies contained in this Agreement are exclusive and not cumulative.

Any claims in accordance with this provision are subject to a limitation period of one (1) year after their coming into effect.

Confidentiality

You are required to keep confidential, even after the termination of the Agreement, any information and data disclosed between you and Systemair.

Term of Agreement, termination of Agreement

This Agreement becomes effective at the Effective Date. It shall remain in force for the period of time specified in a separate written agreement with Systemair, or if no such agreement has been made, for the time you use the Service.

Systemair is entitled to (in addition to any other rights Systemair may have) to terminate the Agreement with immediate effect in the event that there is a breach of any of the obligations set out in this Agreement.

Systemair is further entitled to terminate the Agreement with immediate effect in the event that Systemair or its affiliate(s) or subcontractor(s), for any reason, are prohibited or unable to provide the Service.



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