komfovent®

USER MANUAL:

HOW TO CONNECT TO C5 CONTROLLER

USING KOMFOVENT APP

Content

UAB KOMFOVENT we reserve the right to make changes without prior notice

C5KH2-17-06

All Komfovent air handling unit settings are available through the integrated web site, at the IP address 192.168.0.50, which is set by default at the factory. There are several methods for connection to the controller scheme based on the way of connection.

Connection via browser:
1. Access to the air handling unit parameters directly through the computer, using the Internet browser.
2. Access to the air handling unit parameters in the local area network through the computer, using the Internet browser.
3. Access to the air handling unit parameters on the internet (external network) through the computer, using the Internet browser.

Connect via the Android app named Komfovent:
1. Access to the air handling unit parameters in the local area network through the phone, using the router.
2. Access to the air handling unit parameters online (in the external network) through the phone, using the router.

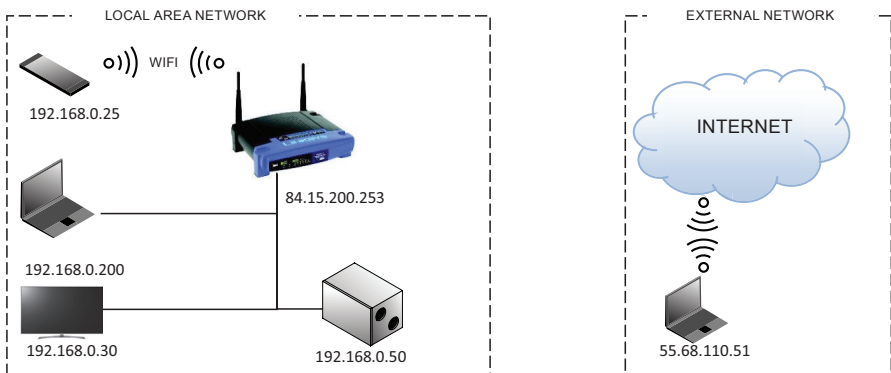This instruction contains a brief overview of the connection methods using the Android app.

1. ACCESS TO THE AIR HANDLING UNIT PARAMETERS IN THE LOCAL AREA NETWORK THROUGH THE PHONE, USING THE ROUTER

It is the simplest way to control the unit from your phone, when you are in the vicinity of the unit. You can only control it by connecting to a local area network router that is connected to the air handling unit.

You must have:
1. Air handling unit with controller (C5), controller version 1.140 and above.
2. Mobile phone with Android OS 4.0.0 (GingerBread) and higher, with Komfovent app.
3. Standard router.

Local area network is the network created by the router from the devices in the local area network for which it has assigned the local area network address. The address is assigned as soon as the device is connected to the router in any way: using a LAN cable or WiFi wireless connection. In this particular case, in the image the mobile phone is connected to the local area network because it is connected to the router wirelessly through WiFi. Therefore, the mobile phone and the air handling unit are in the common Local area network and can interact with each other. It should be emphasized that the local area network has no connection to the nternet.

The scheme for controlling the air handling unit with the mobile phone

Connecting the router to the air handling unit:

1. Connect one end of the LAN cable to the connector of controller in the unit, marked with a special icon.
2. Connect the other end of the LAN cable to one of the several router connections marked with the text "LAN". Their number is usually 4 or more.

Connection to the air handling unit with Komfovent app:

COMPLEXITY

★☆☆☆☆

(Situation 1 – local area network address in the router's default settings: 192.168.0.1)

1. Use your phone to connect to the router's WiFi network to which you have connected the air handling unit.
2. Run the app, if the local area network is located in the xx0.x subnet, the app will immediately connect to the air handling unit.

COMPLEXITY

★★☆☆☆

(Situation 2 – the local area network address is not 192.168.0.x in the factory default settings of the router, but the address is known – for example: 192.168.1.x)

1. Use your phone to connect to the router's WiFi network to which you have connected the air handling unit.
2. Change the subnet number from the panel at the device. Settings are available by clicking *Menu > Settings > Air handling unit > Connectivity.* Change the IP address from 192.168.0.50 to 192.168.1.50.
3. Run the app, because the local area network is located in the subnet xx1.x. The app will attempt to connect to the default factory address, which is 192.168.0.50, but will fail. In such case, in the app, select Menu > Settings > Connectivity > click and hold Add, until the message appears, then click ✓. The app automatically locates the device on the local area network and adds it to the list.
4. Select the air handling unit Komfovent from the list, click the Exit arrow, and confirm the changes.

COMPLEXITY

★★☆☆☆

(Situation 3 – the local area network address in the router's default settings is unknown: 192.168.x.x)

1. Use your phone to connect to the router's WiFi network to which you have connected the air handling unit. The router will automatically assign the IP address to the phone.
2. Run the app, because the local area network is located in the unknown subnet. The app will attempt to connect to the default factory address, which is 192.168.0.50, but will fail. In such case, in the app, select Menu > Settings > Connectivity > click and hold Add. In the pop up message, note the phone's IP address. It should be something like this: 192.168.?.x. Here – x-any number, ? – a subnet number. Take note or write it down.
3. Cancel the automatic device search in the app.
4. Change the subnet in the control panel on the device. Menu > Settings > Air handling unit > Connectivity. Change one number in the factory IP address from xx0.x (the subnet number you have written down instead of the question mark) 192.168.?.50 and save the changes.
5. In the app, select *Menu > Settings > Connectivity* > click and hold Add, until the message appears, then click ✓. The app automatically locates the device on the local area network and adds it to the list.
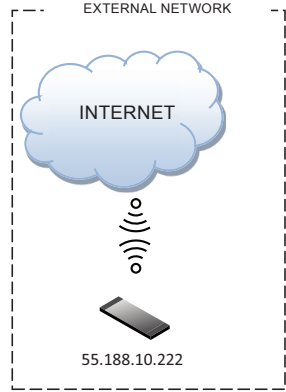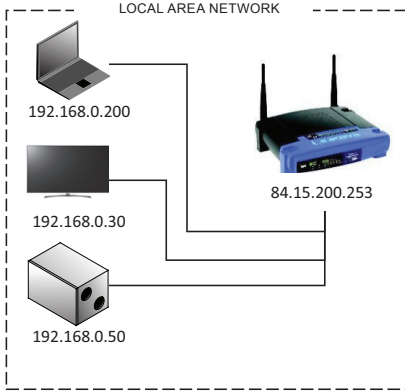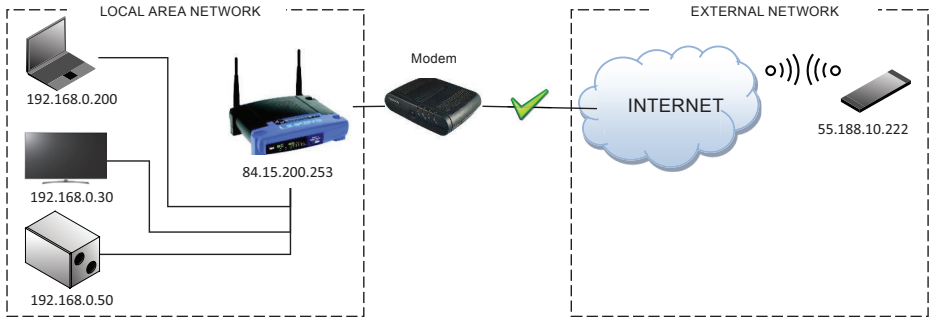6. Select the air handling unit Komfovent from the list, click the Exit arrow, and confirm the changes.

In this case, in the image the mobile phone is connected to the Internet, i.e. the external network, and the router in the local area network has no Internet connection. Therefore, the mobile phone cannot access the air handling unit which is in the router's local area network.

LOCAL AREA NETWORK

192.168.0.200

84.15.200.253

192.168.0.30

192.168.0.50

EXTERNAL NETWORK

INTERNET

55.188.10.222

The scheme which cannot be used for controlling the air handling unit with the mobile phone

2. ACCESS TO THE AIR HANDLING UNIT PARAMETERS ONLINE (IN THE EXTERNAL NETWORK) THROUGH THE PHONE, USING THE ROUTER

By connecting the router to the Internet, one can imagine that part of the router is connected to the external network (internet), and the other part is the part that can create another own local area network with its external devices. See Fig.

LOCAL AREA NETWORK

192.168.0.200

84.15.200.253

192.168.0.30

192.168.0.50

Modem

EXTERNAL NETWORK

INTERNET

55.188.10.222

To prevent the router being lost in the external network, and maintain communication with the router and with other devices in the network, the router must have a uinique IP address assigned by your Internet provider. Therefore, let's assume that the Internet provider has assigned the address to the router – 84.15.200.253. Now, all devices on the external network can access our router at this address, but the local area network created by the router and the devices in it are still out of reach. Meanwhile, devices in the local area network can interact with each other and access the devices on the external network (internet).
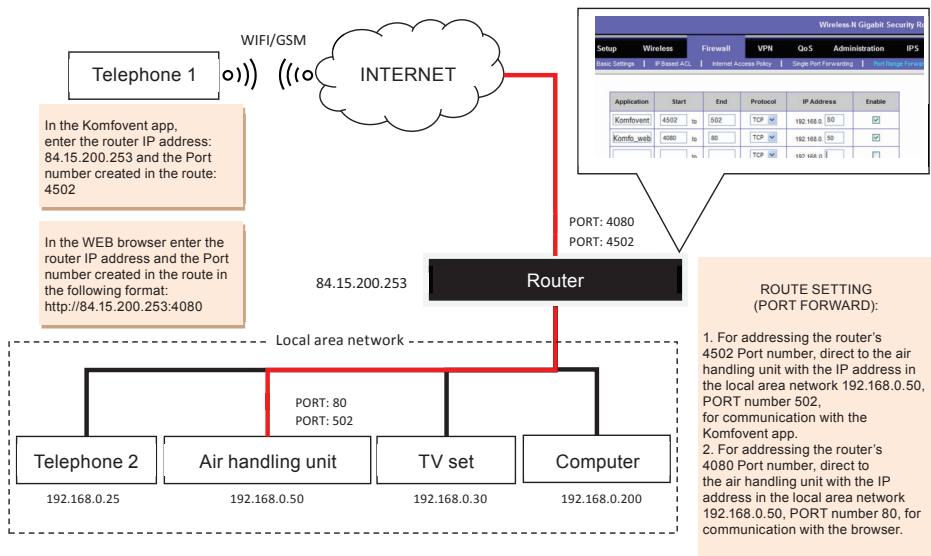
COMPLEXITY

★★★★☆

(Situation 1 – the phone on the Internet wants to reach the Komfovent air handling unit)

First, create a route in the router (Port forwarding), and indicate in it: the way in which the device from the external network will communicate with the device in the local area network.

This is very simple. Assign the unique port number to the specific address of the device in the local area network, indicating the protocol type (TCP or UDP).

With this specified data, the router will know what the device from the external network is trying to access and route its data to the device on the local area network.

The Komfovent device communicates with other devices using two ports: Port 80 with the browser and Port 502 with Komfovent app, using the TCP protocol type. This is how it looks schematically:

You can create external, i.e. (Start) Port numbers based on your preferences. It is important to remember or write them down. You must specify them for connection to the external devices. Internal (End) Port numbers of devices are usually indicated by the manufacturer, otherwise they should be determined by yourself.

Let's have a look at what's going on in the picture above. The phone 1, using the Komfovent app, wirelessly (GSM/WiFi) connects to the Internet by specifying the router address 84.15.200.253 and the PORT number 4502. The router receives the request, and using its settings creates a tunnel for data transfer to the air handling unit with an IP address on the local area network 192.168.0.50 and Port number 502. In this way, the devices on the Internet can connect to, and control the air handling unit.

When connecting through the browser, on the device's address bar, enter the router address and specify the Port number in the following format: http:// 84.15.200.253:4080. We will access the air handling unit, which is within the router's local area network.

⚠ Important – the type of network you are using – the local or external, depends on the address you are using to connect to the ventilation unit.

1. If you are connecting to the unit via WiFi indicating an IP address such as 192.168.0.50 and the Port number 502 – you are on the local area network. (It is not possible to login at this address when you are on the external network).

2. If you connected to the device over the Internet, i.e. by turning on the mobile data or WiFi and have entered the IP address: 84.15.200.253, PORT number 4502 – you are on the external network.

In both cases, the result will be the same – you will connect to the ventilation unit and can control it.

The essential differences between these connections are: In case 2, the data travel path will be very long, although it may be that you are physically close to the device and the router, which may cause connection interruptions and slow down the performance of the app. Meanwhile, in case 1 there will be no communication failures, but you can control the ventilation unit only while being within the router's visibility zone. When you leave, the connection to the ventilation unit will be terminated.

UAB KOMFOVENT

VILNIUS Ozo g. 10, LT-08200
Tel. +370 5 277 9701
Mob. +370 685 44 658
el. p. info@komfovent.com

KAUNAS Taikos pr. 149, LT-52119
Tel.: +370 37 473 153, +370 37 373 587
Mob. +370 685 63 962
el. p. kaunas@komfovent.com

KLAIPĖDA Dubysos g. 25, LT-91181
Mob. +370 685 93 706, +370 685 93 707
el. p. klaipeda@komfovent.com

ŠIAULIAI Metalistų g. 6H, LT-78107
Tel. +370 41 500 090
el. p. siauliai@komfovent.com

PANEVĖŽYS Beržų g. 44, LT-36144
Mob. +370 640 55 988
el. p. panevezys@komfovent.com

EXPORT & SALES DEPARTMENT
Tel.: +370 5 205 1579, +370 5 231 6574
Fax +370 5 230 0588
export@komfovent.com

**GARANTINIO APTARNAVIMO SK. /
SERVICE AND SUPPORT**
Tel. +370 5 200 8000
Mob. +370 652 03 180
service@komfovent.com

www.komfovent.com

PARTNERS

AT	J. PICHLER Gesellschaft m. b. H.	www.pichlerluft.at
AU	Pacific HVAC	www.pacifichvac.com
BE	Ventilair group	www.ventilairgroup.com
	ACB Airconditioning	www.acbairco.be
CZ	REKUVENT s.r.o.	www.rekuvent.cz
CH	WESCO AG	www.wesco.ch
	SUDCLIMATAIR SA	www.sudclimatair.ch
	CLIMAIR GmbH	www.komfovent.com/en/business/more/contact-us/
DK	UNIQ COMFORT ApS	www.uniqcomfort.dk
	AIR2TRUST	www.air2trust.com
EE	BVT Partners	www.bvtpartners.ee
FR	AERIA	www.aeria-france.fr
GB	ELTA FANS	www.eltafans.com
HR	Microclima	www.microclima.hr
HU	AIRVENT Légtechnikai Zrt.	www.airvent.hu
	Gevent Magyarország Kft.	www.gevent.hu
	Merkapt	www.merkapt.hu
IR	Fantech Ventilation Ltd	www.fantech.ie
IS	Blikk & Tækniþjónustan ehf	www.bogt.is
	Hitataekni ehf	www.hitataekni.is
NL		
	DECIPOL-Vortvent	www.vortvent.nl
NO	Ventistål AS	www.ventistal.no
	Thermo Control AS	www.thermocontrol.no
PL	Ventia Sp. z o.o.	www.ventia.pl
SE	Nordisk Ventilator AB	www.nordiskventilator.se
SI	Agregat d.o.o	www.agregat.si
SK	TZB produkt, s.r.o.	www.tzbprodukt.sk

ООО «АМАЛВА-Р»
Россия, Москва
ул. Выборгская д. 16,
стр. 1, 2 этаж, 206 офис
Тел./факс +7 495 640 6065
info.msk@komfovent.com
www.komfovent.ru

ООО «АМАЛВА-ОКА»
390017 г. Рязань
Ряжское шоссе, 20 литера Е, пом Н6
Тел.: +7 4912 950575, +7 4912 950672,
+7 4912 950648
info.oka@komfovent.com
www.komfovent.ru

ИОOO «Комфовент»
Республика Беларусь, 220125 г. Минск,
ул. Уручская 21 – 423
Тел. +375 17 266 5297, 266 6327
info.by@komfovent.com
www.komfovent.by

Komfovent AB
Ögärdesvägen 12B
433 30 Partille, Sverige
Tel. +46 31 487 752
info_se@komfovent.com
www.komfovent.se

Komfovent Oy
Muuntotie 1 C1
FI-01 510 VANTAA
Tel. +358 0 408 263 500
info_fi@komfovent.com
www.komfovent.com

Komfovent GmbH
Konrad-Zuse-Str. 2a, 42551 Velbert,
Deutschland
Tel. +49 0 2051 6051180
info@komfovent.de
www.komfovent.de

Komfovent SIA
Bukaišu iela 1,
LV-1004 Riga
Tel. +371 67 20 1572
info@komfovent.lv
www.komfovent.lv

VORTVENT

Buitendijks 63, 3356 LX Papendrecht
Tel: +31(0)85-782 64 00
Email: info@vortvent.nl

C5KH2-17-06