K470WX021 (K470W)

Wireless head for radiator

K470W wireless head for radiator, technologically innovative, noiseless and compact, featuring the same dimensions of traditional thermostatic heads.
Use only with the **KD410 Connect-TRV** control unit to control the heating system (KLIMAdomotic TRV series) from remote. The head includes a ring nut with M30 x 1,5 mm connection and an adaptor for use with a wide range of valves with thermostatic option.

✎ **NOTE.** K470WX021 heads cannot be installed on DB radiator valves.
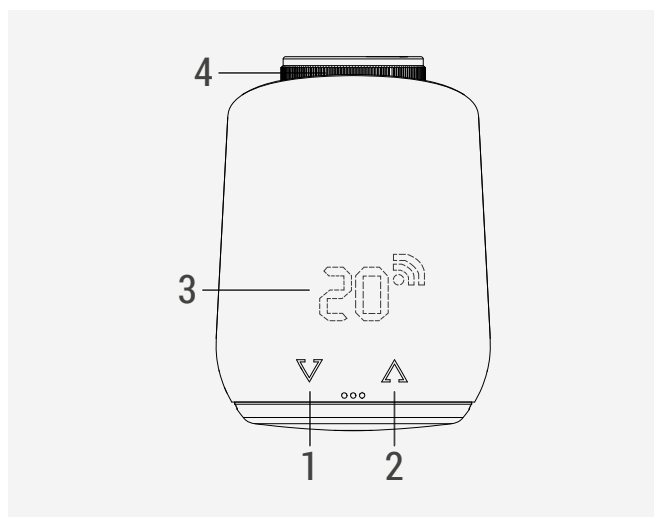
❯ Versions and product codes

PRODUCT CODE	CONNECTION
K470WX021	M30 x 1,5 mm threaded ring nut + R453HY012 adaptor for other radiator valve bodies (except DB series valves)

❯ Technical data

- Communication Standard: HA 1.2 ZigBee
- Radio frequency: 2,4 GHz
- Power supply: 2 x 1,5 V AA batteries
- Protection class: IP20
- Pollution degree: 2
- Temperature control range: 8÷28 °C
- Working temperature: 0÷50 °C
- Storage temperature: -20÷70 °C
- Type of casing: white ABS
- Weight: 230 g with batteries
- Ring nut connection: M30 x 1,5 mm, with R453HY012 adaptor for other Giacomini valve bodies (except DB valves)
- Use only with the **KD410 Connect-TRV** control unit to control the heating system (KLIMAdomotic TRV series) from remote

⚠ **WARNING.** Use alkaline batteries only.
Do not use any type of rechargeable battery.

GIACOMINI
WATER E-MOTION

ICIM
SISTEMA DI GESTIONE CERTIFICATO

ISO 9001:15   ISO 14001:15   ISO 45001:18

❯ Components

1	Button ⌄
2	Button ⌃
3	LED display
4	M30 x 1,5 mm ring nut

❯ Operation

The K470W wireless head can be used only in combination with the **KD410 Connect-TRV** control unit to control the heating system (KLIMAdomotic TRV series) from remote.

⚠ **WARNING.** Keeping the KD410 Connect-TRV off for long periods can cause an higher consumption of the batteries of the K470WX011 head for radiators.

Buttons

BUTTON	STATUS	FUNCTION
▽	Press once shortly	Reduces the desired temperature by 0,5 °C
▽	Press and hold	Reduces instantaneously the desired temperature by 0,5 °C and keeps reducing it by 0,5 °C every 0,5 seconds till the button is pressed or up to the end value
▽	Double click	Activation of "Energy-saving" mode
△	Press once shortly	Increases the desired temperature by 0,5 °C
△	Press and hold	Increases instantaneously the desired temperature by 0,5 °C and keeps increasing it by 0,5 °C every 0,5 seconds till the button is pressed or up to the end value
△	Double click	Activation of "Comfort" mode
RESET BUTTON INSIDE BATTERY COMPARTMENT	Hold and press for 5 s	Unpairing of head from KD410 control unit (LEAVE)
RESET BUTTON INSIDE BATTERY COMPARTMENT	Hold and press for 10 s	Reset of factory settings
▽ & △	Hold and press for 3 s	Activates or deactivates the "Child safety" function
▽ & △	When "Ad" is displayed: hold and press for 3 s	Adaption to valve body

LED display and error signals

LED	MEANING
🛜	Status of wireless connection and pairing. Turns on when the wireless connection is established. Turns off when the wireless connection is lost.
PA	Valve pairing
LE	Valve removal (LEAVE)
Ad	Adaption to valve body
⚬⚬ ⚬⚬	Lights up during adaption procedure
00	Lights up when the buttons are locked for activation/deactivation of the "Child Safety" function
bt	Lights up when the battery charge is lower than 15%
Er	Valve removal failed
E1	No valve movement possible
E2	No valve read
E3	Closing point not read
C1	Valve pairing failed

Setting the desired temperature

The desired temperature can be set only through the KD410 Connect-TRV control unit to control the heating system (KLIMAdomotic TRV series) from remote.

Child Safety Function

Press the ⌄ and ⌃ buttons for 3 seconds to activate/deactivate the Child Safety function.

❯ Head installation and removal

Possible installation positions

⚠ Installation positions not recommended as the radiator temperature may affect the head.

Start up

K470W heads are not paired to any KD410 control unit upon production.
For proper use, the head must be paired to a KD410 control unit.
The head can be removed from the KD410 Connect-TRV control unit whenever needed.
Pairing and removal must be performed from the KD410 Connect-TRV control unit.

✎ **NOTE.** To pair or remove the K470W head to or from the KD410 control unit, also make reference to the KD410Y002 Connect-TRV user manual.

## Installing the head and pairing to the control unit

From the KD410 control unit, add a new valve in the desired room.
Insert the batteries in the K470W head (see "Installing the batteries"), "PA" will appear on the display and a 99-sec countdown will start while pairing of the head and the control unit is in progress.
Once the pairing is completed, the wireless symbol will blink and the "Ad" led will be displayed.
Now the head can be installed on the radiator valve (see "Installing the head on the valve body"); press the ⌄ and ⌃ buttons to adapt the head to the valve stroke; 6 led symbols will start blinking.
Once the head is adapted, the display will show the desired temperature.
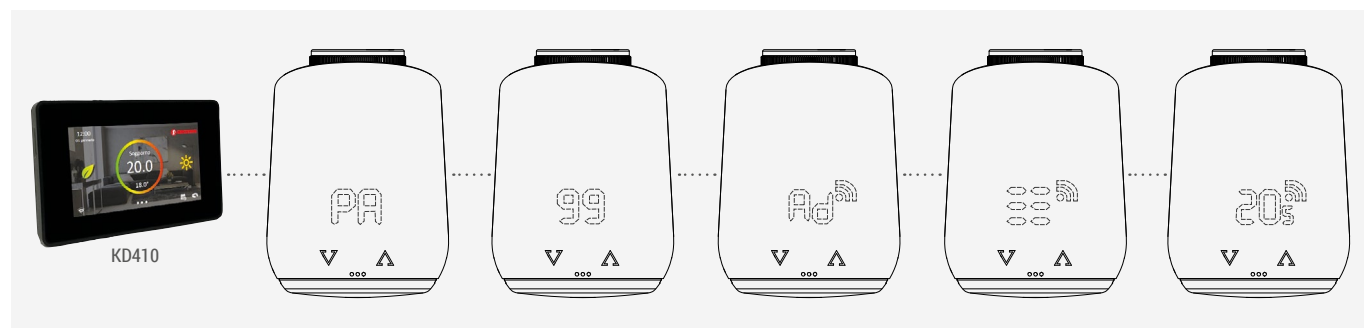
Installing the batteries
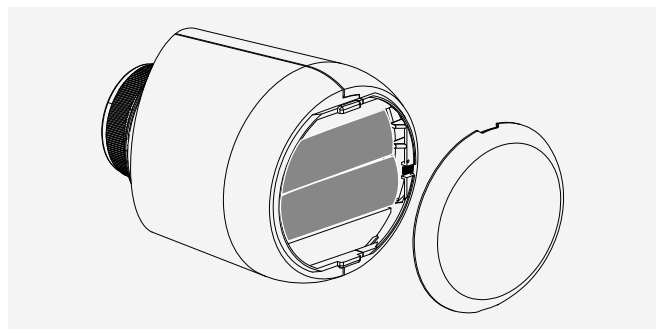
Remove the head cover by pulling it off.
Insert the batteries in the correct orientation, then close the cover.
The K470W head configuration will not change when replacing the batteries.

Installing the head on the valve body
The head can be installed on the valve body once the K470W head and the KD410 control unit are paired.

**Installation on Giacomini valves with thermostatic option and M30 x 1,5 mm connection (H and HDB series)**
Screw the head ring nut (B) on the radiator valve (A).
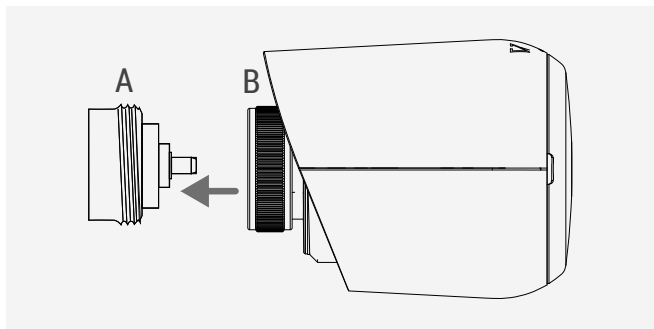
Installation on other Giacomini valves with thermostatic option (except DB series valves)
Use the R453HY012 ring nut included in the package of the head to install it on other Giacomini valves with thermostatic option.
Connect the threaded ring nut (C) to the reference pins (P) on the radiator valve (D).
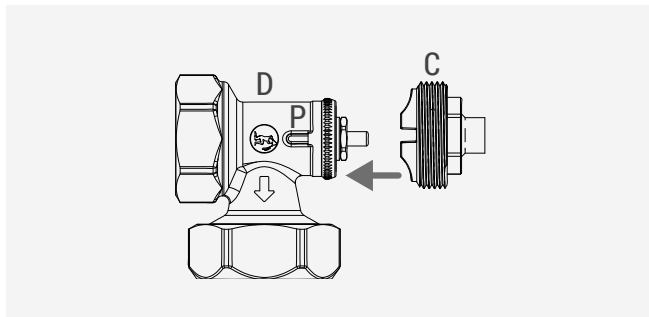
Screw the head ring nut (B) on the radiator valve (C+D).
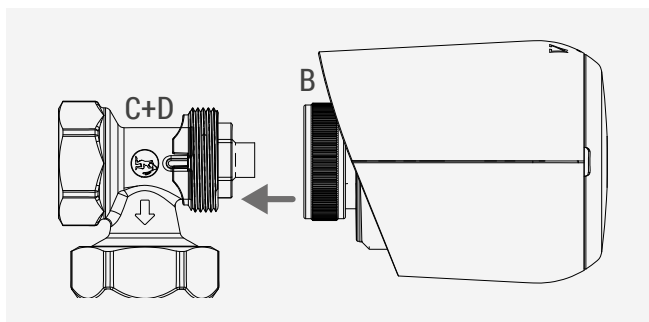
**Removing the head and unpairing from control unit (factory setting reset)**
To unpair a K470W head from the KD410 control unit, open the head battery compartment and press the reset button.
First "LE" will be displayed, then a "10-sec" countdown will start and finally the "PA" led will appear.
This means that the head has been unpaired and that it can be removed by unscrewing the ring nut.
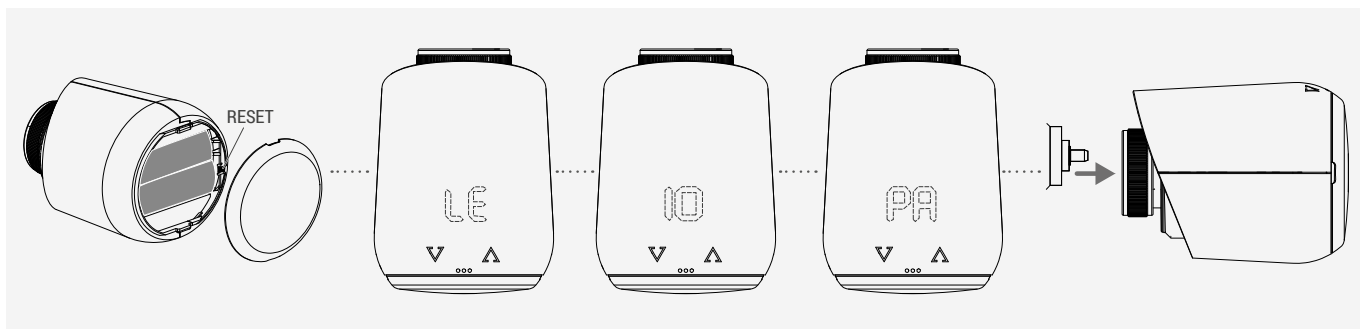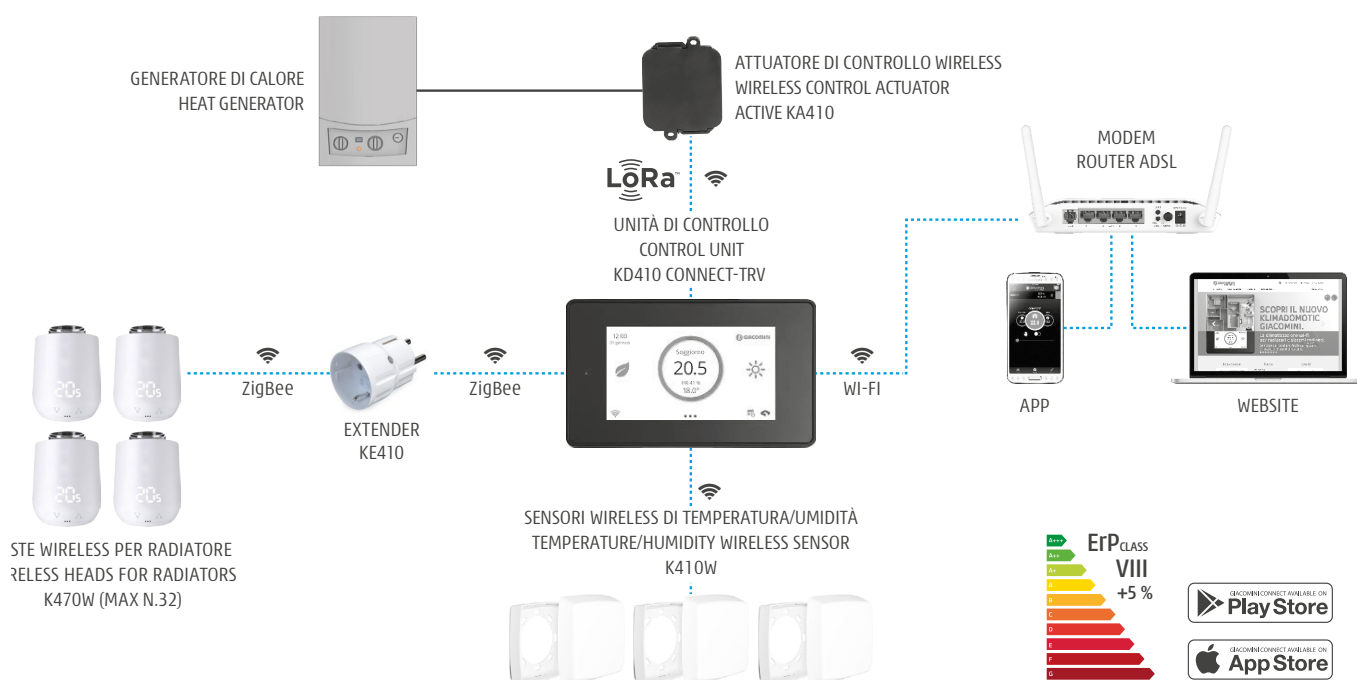
● Dimensions
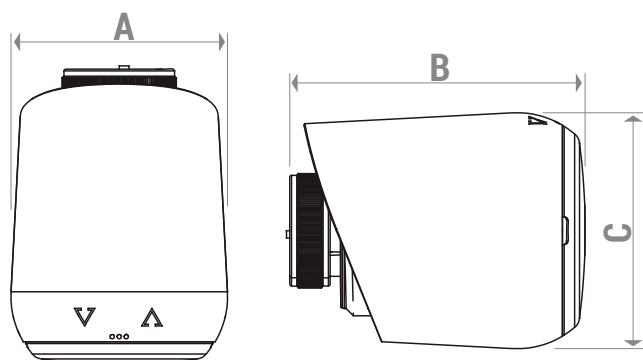
PRODUCT CODE	A [mm]	B [mm]	C [mm]
K470WX021	62	83	68

● Reference standards

The K470W wireless heat complies to the Standards set forth by the EMC 2014/53/EU Directive.

● Example of application with KLIMAdomotic products

GENERATORE DI CALORE
HEAT GENERATOR

ATTUATORE DI CONTROLLO WIRELESS
WIRELESS CONTROL ACTUATOR
ACTIVE KA410

MODEM
ROUTER ADSL

LoRa

UNITÀ DI CONTROLLO
CONTROL UNIT
KD410 CONNECT-TRV

ZigBee

EXTENDER
KE410

ZigBee

WI-FI

APP

WEBSITE

STE WIRELESS PER RADIATORE
RELESS HEADS FOR RADIATORS
K470W (MAX N.32)

SENSORI WIRELESS DI TEMPERATURA/UMIDITÀ
TEMPERATURE/HUMIDITY WIRELESS SENSOR
K410W

ErP CLASS
VIII
+5 %

Play Store

App Store

❯ Product specifications

K470WX021

Wireless head for radiator. Communication Standard HA 1.2 ZigBee. Radio frequency 2,4 GHz. Ring nut connection M30 x 1,5 mm, including adaptor for other valve bodies (except DB series valves). LED display and multifunction buttons. Power: 2 x 1,5 V AA batteries. Protection class: IP20. Pollution degree: 2. Temperature control range: 8÷28 ˚C. Working temperature 0÷50 ˚C. Storage temperature -20÷70 ˚C. White ABS casing. Dimensions 62 x 83 x 68 mm. Compliant to EMC 2014/53/EU Directive. Use with the KD410 Connect-TRV control unit to control the heating system (KLIMAdomotic TRV series) from remote.