

USER MANUAL

REGISTER BOOSTER FAN

AirSupply

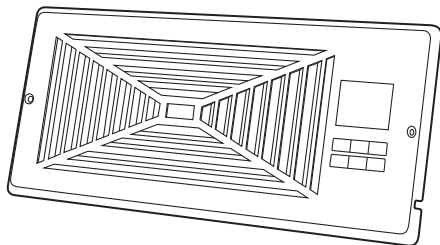
Model: BS410 BS412

IMPORTANT SAFEGUARDS

READ ALL INSTRUCTIONS BEFORE USE.

RETAIN THIS MANUAL FOR FUTURE REFERENCE.

TURBRO



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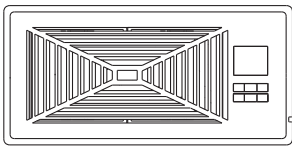
SAFETY INSTRUCTIONS

1. Use the TURBRO register booster fan only as described in this user manual. Do not modify or attempt to repair the device.
2. Keep the device out of reach of children and pets. Use zip ties to prevent the cord from wrapping around the neck and causing suffocation.
3. Do not use the device in areas exposed to water or moisture.
4. Do not use the device with damaged cords or plugs.
5. Do not place the device on soft surfaces, such as carpets or bedding, as this may block the airflow and cause the device to overheat.
6. Do not operate the device with wet hands or in damp conditions.
7. Always unplug the device before cleaning or moving it.
8. Do not use the device near flammable materials or in hazardous areas.
9. Secure the long cord properly to prevent tripping or falling hazards.
10. If you detect any damage or abnormal operation of the device, stop using it immediately and contact TURBRO support at support@turbro.com.

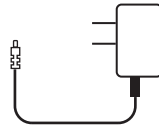
SPECIFICATIONS

Voltage	120V VC to 12V DC
Power	17.5W / 12V DC
Max Airflow	180CFM
Cord Length	12ft
Remote Control	Yes

Package Contents



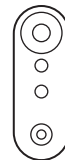
Register Fan (x1)



Power Adapter (x1)



Screw Set (x2)



Infrared Remote Control (x1)



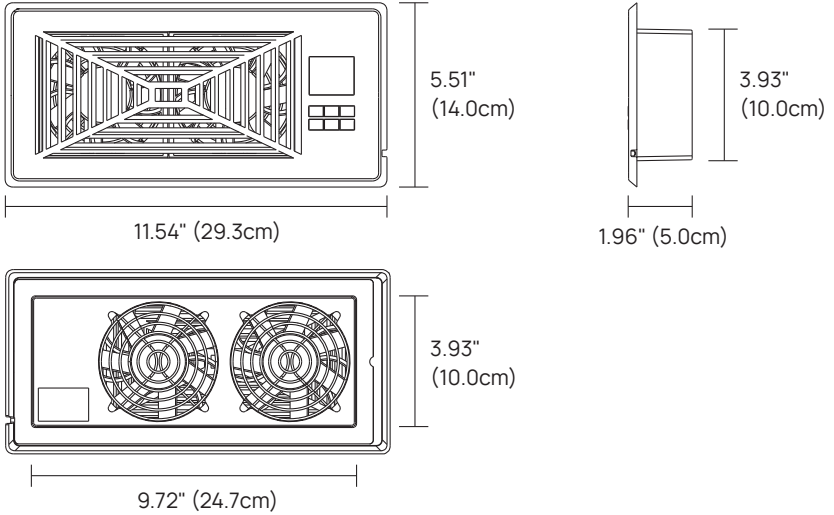
Zip Tie for Cable Management (x1)



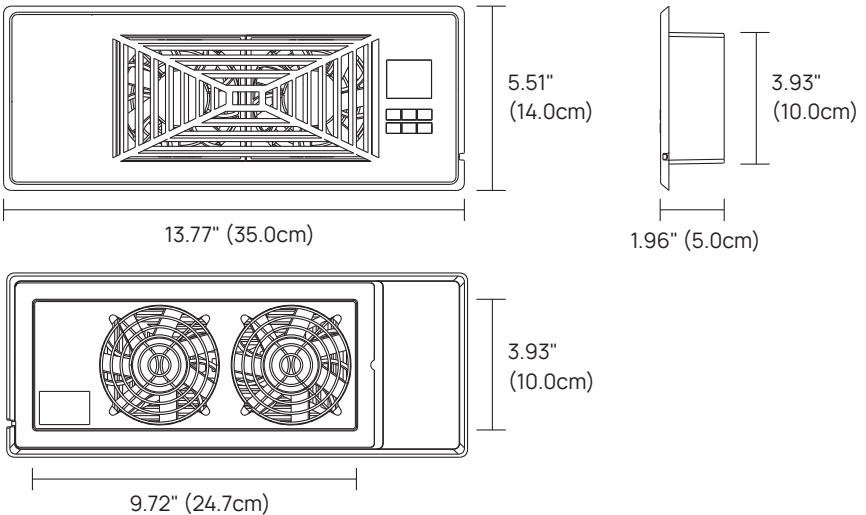
User Manual (x1)

Dimensions

TURBRO BS410 Dimensions



TURBRO BS412 Dimensions

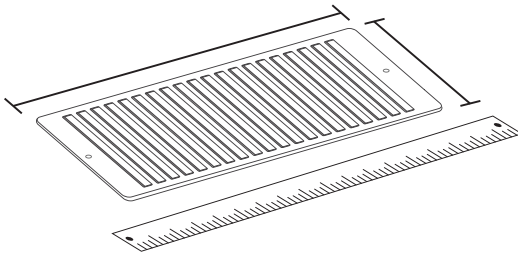


INSTALLATION

Note: Do not install the TURBRO register booster fan on the ceiling or in a location where it may come into contact with water or moisture.

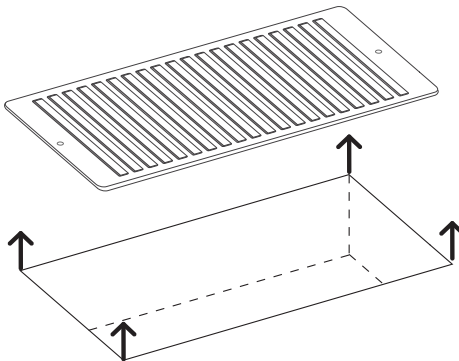
Step 1

Measure your register vent to make sure this model will fit. Standard sizes come in 4x10" for BS410, and 4x12" for BS412.



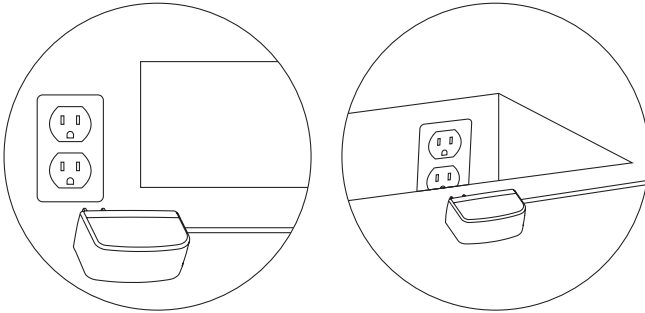
STEP 2

Remove your current register grille from the wall or floor.



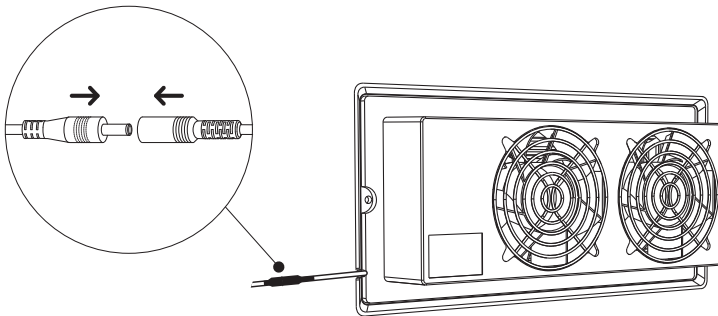
STEP 3

Plug the power adapter into an outlet. This can be next to or inside your register.



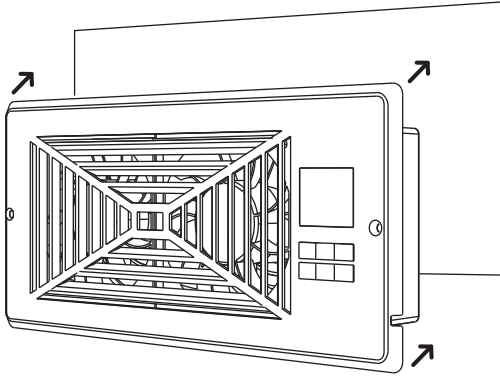
STEP 4

Plug the power adapter cord into the power receptacle of the register fan, and check the display to see if it is illuminated.



STEP 5

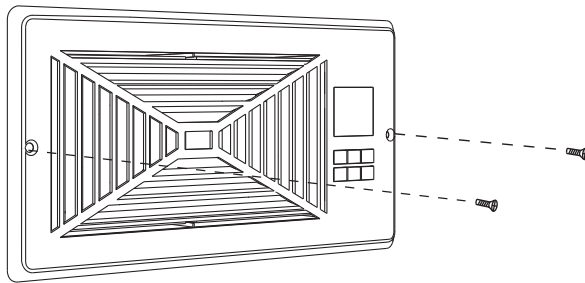
Mounted the register fan on the grille.



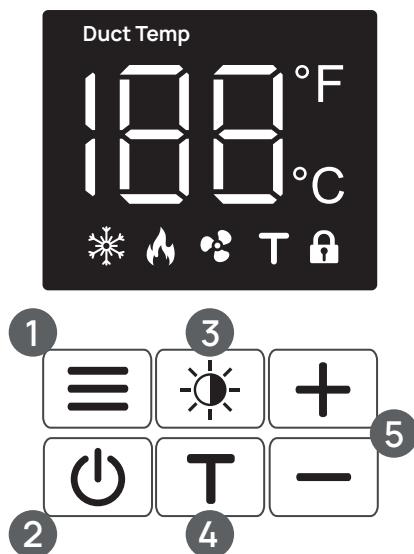
STEP 6

Drill your existing screws into the mounting holes to secure the register fan. If needed, use the attached screws with your register fan.

If the screw holes do not align, you may need to drill new holes.



CONTROL PANEL



1. Mode Button

Cycles through the unit's modes: Duct Temperature display, Cooling Trigger, Heat Trigger, and Fan Speed.

2. Power Button

Press and hold the button for 3 seconds to turn on/off.

3. Brightness Button

Cycles through the button to choose from three different brightness settings.

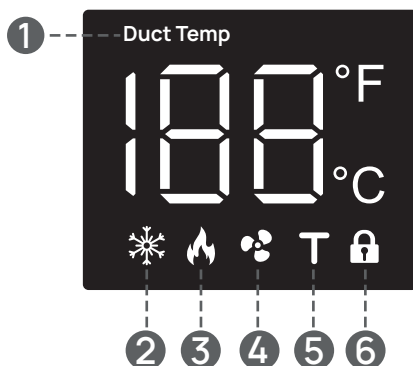
4. TURBO Mode Button

Press the button to turn on/off the TURBO Mode function, which increases the fan speed.

5. '+' / '-' Button

Increase/decrease the temperature setting for the cooling trigger, the heating trigger, and the fan speed.

DISPLAY SCREEN



1. Duct Temperature

Displays the current temperature of the air flowing through the register.

2. Cooling Trigger

Allows you to set a temperature trigger for the fans to run when your air conditioner system is on.

3. Heating Trigger

Allows you to set a temperature trigger for the fans to run when your central heating system is on.

4. Fan Speed / Fan Mode

Displays the setting fan speed, which can be adjusted by using the +/- buttons.

5. TURBO Function

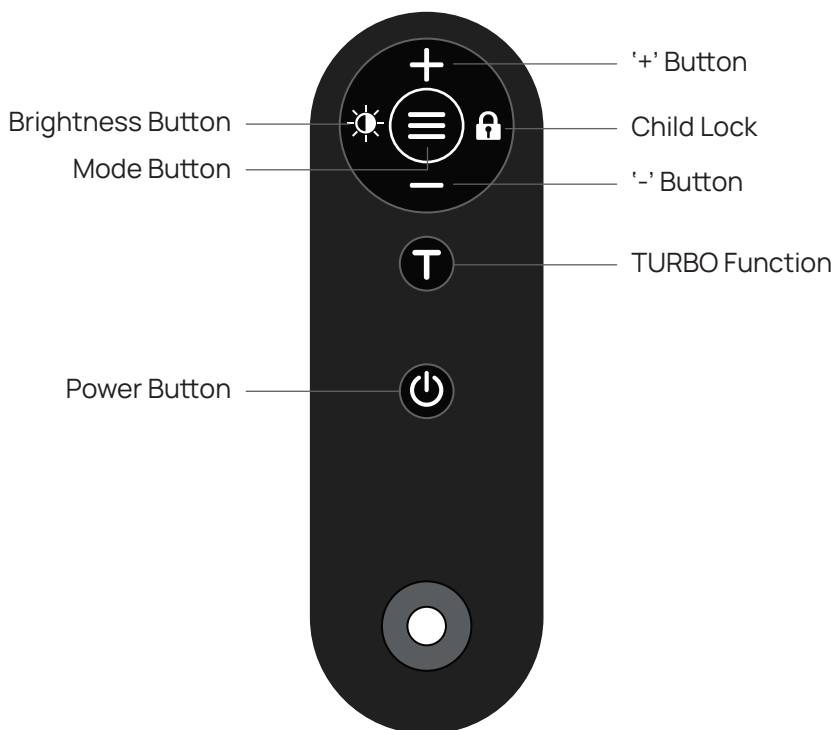
Displays the TURBO Function is ON/OFF.

When the TRUBO Function is on, the fan will run at the highest speed and bring the air from the air conditioner/central heating system to cover the area in a shorter time, which may be noisy.

6. Child Lock

Press and hold the 'Mode' button for three seconds to activate the Child Lock function.

Remote Control



OPERATING

Important Notes

This product is used to boost your existing AC or heater's airflow. It allows you to set temperature points where the fans will turn on if the airflow's temperature falls below or rises above the cooling or heating trigger's setting, respectively.

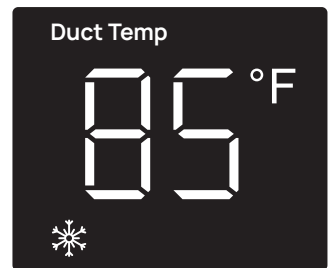
This product has adjustable fan speeds and a TURBO Function. Use the fan speed setting to set your desired airflow boost. Keep in mind the faster the fans spin, the louder they will be.

Monitor your airflow temperature accurately by using our Duct Temperature display.

Please note that the temperature display mode measures the airflow temperature, which may be different from your AC or heater's thermostat reading.

Duct Temperature Display

This mode displays the airflow temperature in the duct measured by the probe and also shows the cooling trigger or heating trigger icon, depending on which mode is active. While on this display mode, the cooling and heating triggers, as well as the max fan speed setting, are still active unless you disable them.



Cooling Trigger Adjustment

Use this mode to set the temperature trigger for your air conditioner. Please note you are **NOT** setting your desired temperature.

In this mode, the fans will run if the probe temperature meets or falls below the trigger's cold temperature setting. It will not run if the probe temperature is above the trigger's cold temperature setting.

While entering the Cooling Trigger mode the numbers will flash and the default temperature is 82°F, press the '+' or '-' buttons to set the cooling trigger temperature from 32-140°F (0-60°C). Without any input for 8 seconds, the setting will be confirmed and exit the Cooling Trigger mode and return to Duct Temperature Display automatically.

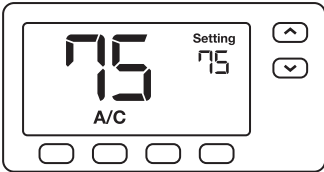


To calibrate your register booster fans, turn on your AC and wait for a few minutes until the probe temperature stabilizes. Set your cooling trigger to this number or higher.

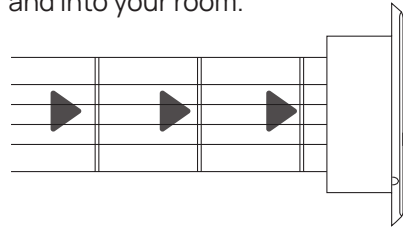
Note: To avoid confusion, if the Heating Trigger Mode is activated, the Cooling Trigger mode will be inactivated automatically, and the screen will display 'OF'.

Programming

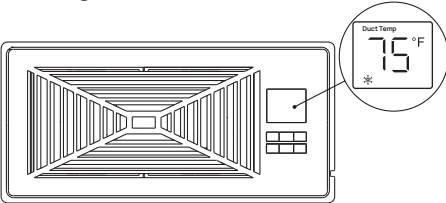
1. Your air conditioner turns on.



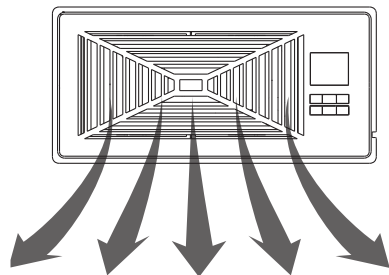
2. Cold air blows through the duct and into your room.



3. When the probe detects the airflow temperature has fallen below your Cooling Trigger setting, it will activate the fans.



4. The fans will pull cold air from your duct to boost your AC output.



5. If the AC is turned off, the probe will detect a higher temperature than your Cooling Trigger setting, telling the fans to turn off.

Heating Trigger Adjustment

Use this mode to set the temperature trigger for your heater. Please note you are NOT setting your desired temperature.

In this mode, the fans will run if the probe temperature meets or rises above the trigger's hot temperature setting. It will not run if the probe temperature is below the trigger's hot temperature setting.

While entering the Heating Trigger mode the numbers will flash and the default display is 'OF'. Press the '+' or '-' buttons to set the heating trigger temperature from 32-140°F (0-60°C). Without any input for 8 seconds, the setting will be confirmed and exit the Heating Trigger mode and return to Duct Temperature Display automatically.

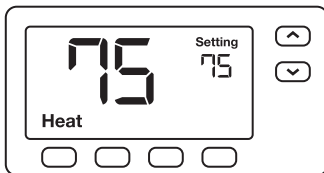


To calibrate your register booster fans, turn on your heater and wait for a few minutes until the probe temperature stabilizes. Set your heating trigger to this number or lower.

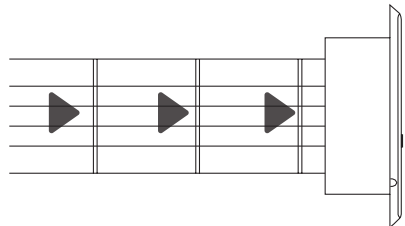
Note: To avoid confusion, if the Cooling Trigger Mode is activated, the Heating Trigger Mode will be inactivated automatically, and the screen will display 'OF'.

Programming

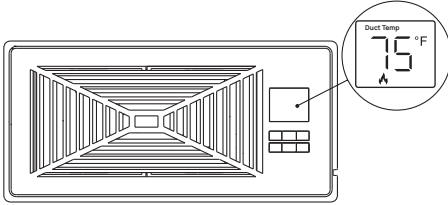
1. Your central heating system turns on.



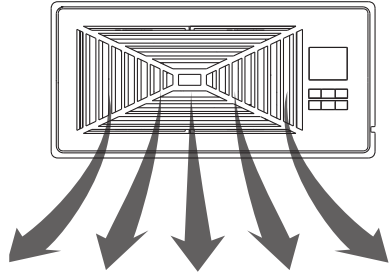
2. Heated air blows through the duct and into your room.



3. When the probe detects the airflow temperature has risen above your Heating Trigger setting, it will activate the fans.



4. The fans will pull heated air from your duct to boost your heater output.



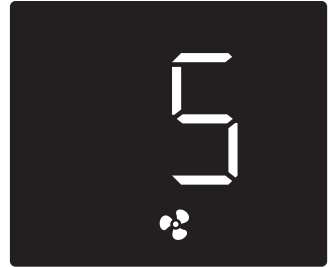
5. If the heater is turned off, the probe will detect a lower temperature than your Heating Trigger setting, telling the fans to turn off.

Fan Speed Adjustment / Fan Mode

While entering the Fan Speed mode, the default fan speed is 5. Press the '+' and '-' buttons to change the fan speed from 0-10.

If you do not exit the fan mode manually, the unit will keep working at the fan speed you set.

Note: Please note that the higher the fan speed, the louder the noise level and the greater the boost to airflow. It's important to find the right balance between airflow and noise level that works best for your needs.



TURBO Function

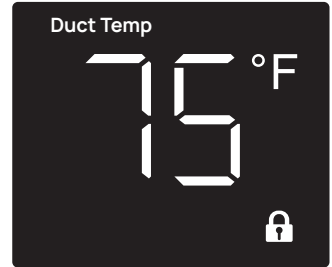
Press the TURBO Mode button to turn on the TURBO function. The screen will show 'on' and the 'T' icon will illuminate. To turn off the TURBO function, press the TURBO Mode button again, and the screen will show 'OF' and return to the Duct Temperature Display after 5 seconds.



The TURBO function is used to boost your AC or heater's airflow in a shorter time. While the TRUBO Function is on, the fans will run at its Max speed, but this will increase the noise output.

Child Lock

To lock the controller, hold the **'Mode'** button for three or more seconds. The screen will display the Child Lock icon. While the display is locked, the control panel and remote control will not be able to be used until you press and hold the **'Mode'** button for three seconds to exit the Child Lock function.



Brightness Adjustment

To adjust the brightness of the display, press the 'Brightness' button to navigate to the Display Brightness screen. Here, you can choose from three different brightness levels, with level 2 being the brightest and 0 turning off the screen. To turn on the screen, press any button and it will return the brightness to level 2.

Fahrenheit Or Celsius

To change the temperature scale between Fahrenheit and Celsius, press and hold the '+' and '-' buttons simultaneously until the letters change. All digits displayed will be automatically converted to the designated scale.

FAQ

Q: What is the TURBRO register booster fan used for?

A: The TURBRO register booster fan is used by inserting it into the wall or floor register to boost the airflow and let more cooled or heated air into your room.

Q: Will I be able to mount this fan on my ceiling?

A: For safety reasons, we do not recommend mounting the Booster Fan on your ceiling.

Q: Does the TURBRO booster fan have a filter?

A: The TURBRO register booster fan is not specifically designed to be used with filters.

Q: Does the temperature displayed on the screen represent the room temperature?

A: No. The temperature displayed on the screen represents the current temperature in the duct behind the booster fan. The reading is obtained from the probe of the TURBRO register booster fan.

Q: My register booster fan is too loud. How do I decrease the fan noise?

A: To minimize the noise coming from the booster fan, decrease the fan speed.

WARRANTY INFORMATION

TURBRO provides a 1-year limit for TURBRO Booster Fan, from the date of purchase, subject to the following conditions and limitations.

WHAT IS COVERED?

- Any alteration or misuse of the product will nullify this warranty.
- This warranty is non-transferable and is effective for the original buyer from the authorized seller only.
- This warranty is limited to the repair or replacement of part(s) proved to be defective in material or workmanship after said defect is confirmed by the manufacturer's inspection.
- The manufacturer may, at its discretion, fully discharge all obligations with respect to this warranty by refunding the wholesale price of the defective part(s).

WHAT IS NOT COVERED?

- Damage caused by the owner when attempting to fix or alter the product themselves.
- Damage caused by misuse, abuse, neglect, alterations, or unauthorized repair.
- Natural depreciation.

HOW TO REQUEST WARRANTY SERVICES?

- To obtain the benefit of this warranty please leave a message online (turbro.com/pages/contact-us) , or send an email to support@turbro.com. Our customer service will address your issue within 24 hours.

WHAT WILL TURBRO DO?

- Replace the item.
- Refund the item under certain circumstances.

TURBRO



 support@turbro.com

 www.turbro.com