



Aurum Manufacturing Inc.

“Old School Values with a New School Touch”

PRODUCT OVERVIEW

Aurum Retrofit

Thank you and Congratulations on the purchase of your new Aurum Retrofit! This owner's manual will outline key information that may be necessary for you and your new fan coil unit. Providing information on the operations of your fan coil unit, the maintenance of your fan coil unit, simplified thermostat instructions, and brief troubleshooting instructions.

Understanding your new equipment is beneficial. Your retrofit is a vertical fan coil unit. A vertical fan coil unit distributes cold or hot air in your home through its two main components - the fan and the coil. Hot or cold water flows through the pipes of the coil while the fan draws in air through the access panel and blows out through your vents.

Your Fan Coil and The Building

Your fan coil is isolated in operations; however, it is fed communally with the building's water supply. The pipe network consists of a boiler and chiller that heat and cool the building's water supply accordingly. This piping system can be either a 2-pipe system or a 4-pipe system. A 2-pipe system provides your home with either heating OR cooling (dependent on building and time of year), versus a 4-pipe system that provides your home with both heating AND cooling all year. Essentially this means with a 2-pipe system your fan coil will not produce heat in the summer or cooling in the winter.



Benefits of a New Aurum Retrofit

Your new Aurum Retrofit is designed to meet and exceed the operations of your previous fan coil system by



Increasing the air flow in your home
Increasing energy efficiency in fan coil operations



Coming equipped with features that decrease the chance of floods occurring
Enhancing and creating optimal comfort in your home



Reducing operation noise
Lowering fan coil operating costs



MAINTENANCE

Homeowner Maintenance

The maintenance of your fan coil system is essential to its optimal operation and longevity. Regular filter changes are highly recommended as well as semi-annual maintenance should be performed by a trained professional. A filter should be replaced once it begins turning grey. **Below is a chart of filter sizes for Aurum fan coil retrofit units.**

To perform a filter change, simply lift the hinged white door on the return air access panel and find the filter against the vented area. Pull the filter out and place a new filter in the same position (be cautious to secure the new filter into the filter slot). Changing the filter DOES NOT require you to open the fan coil unit at any time. Before changing your filter, visit our website's [filter change video](#) for full instructions.


Warning: Your retrofit encloses components that require electrical and water lines, therefore caution is needed for changing your filter your fan coil system.

Professional Maintenance



Aurum highly recommends professional maintenance to be completed semi-annually. This maintenance should at the very least include the vacuuming of the entire fan coil cabinet, testing of the drain pan and drain hose, and testing of all electrical components.

**It is also important to remember your fan coil is installed with a high efficiency motor which is sealed and requires no oiling.

 FILTER SIZE GUIDE Aurum Manufacturing			
Aurum Model	Length	Width	Thickness
DTR350Z BTR350Z	20"-25"	14"	0.5"-1"
DTR450Z BTR450Z	20"-25"	14"	0.5"-1"
DTR600Z BTR600Z	20"-25"	14"	0.5"-1"
DTR800Z BTR800Z	20"-25"	14"	0.5"-1"
DTR600ZW-16 BTR600ZW-16	20"-25"	16"	0.5"-1"
DTR800ZW-16 BTR800ZW-16	20"-25"	16"	0.5"-1"
DTR600ZW-18 BTR600ZW-18	20"-25"	18"	0.5"-1"
DTR800ZW-18 BTR800ZW-18	20"-25"	18"	0.5"-1"
DTR1000ZW-18 BTR1000ZW-18	20-25"	18"	0.5"-1"
CFC800Z	22"+	18"	0.5"-1"
CFC1000Z	22"+	18"	0.5"-1"
CFC1200Z	22"+	18"	0.5"-1"



TROUBLESHOOTING

In the unfortunate event of an issue arising with your fan coil unit, we have presented a list of brief troubleshooting tips and suggestions. If a leak is present, please call your building's property management immediately to minimize the water damage posed by this issue. This section includes simple suggestions to solving your fan coil unit issues. In no way should you put safety at risk attempting to repair your fan coil unit if you are not a certified technician. **PLEASE CALL A CERTIFIED TECHNICIAN TO PERFORM ANY OF THE FOLLOWING REPAIRS AS DANGEROUS EQUIPMENT IS PRESENT.**

No Display on Thermostat?

- Check your breaker - The fuse/breaker may be loose or switched off.
- Check thermostat - There may be no power available at the thermostat for a few reasons *(This is to be done by a certified technician)*
 - Loose wire
 - Poor connection
 - Improper installation
- Check float sensor on drain pan. If the floater attached to the drain pan has been activated, the power to the thermostat will disconnect. In this case, your drain pan is filling with water and should be tended to by a professional. *(This is to be done by a certified technician)*

No Air Blowing

- Check Filter – In rare occasions if your fan coil filter is too dirty, air will not pass through it. If this is the case, replace filter immediately.
- Check Vents – Your supply and return vents should never be covered.
- Check Motor – Loose wiring, or a burnt-out motor may result in your fan coil not blowing out air. *(This is to be done by a certified technician)*

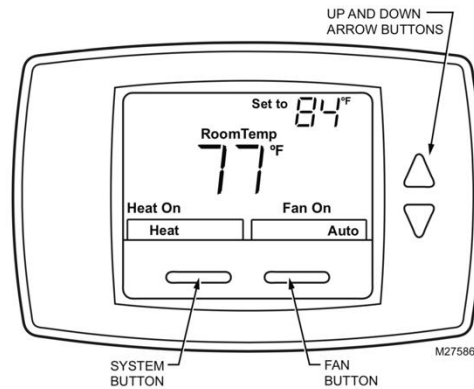
Air Blowing but Not Cool or Hot

- Check with Building Management- Speak with your property management or superintendent to ensure the building mechanical system are operating properly. If the water supply from the building is not on, the fan will blow but without the heated or cooled air.
- Check Shut off Valves – It is possible that while installing, the technician did not open the main shut off valves to your fan coil unit. If the valves are close, water will not be able to pass through your fan coil unit. Check to ensure the valves are opened, and water is passing through *(This is to be done by a certified technician)*
- Check actuator - The actuator not opening can result in air not blowing hot or cold as it is not allowing water to pass through the coil. *(This should be done by a certified technician)*
- Check water supply temperature - The fan coil will produce air temperatures in accordance with the supplied water temperature. If the air coming from the fan coil is not hot or cold ENOUGH, the water entering your fan coil may not be hot or cold ENOUGH. *(This is to be done by a certified technician)*



SIMPLIFIED THERMOSTAT GUIDES

HONEYWELL TB6575A1000/TB8575A1000 SuitePRO

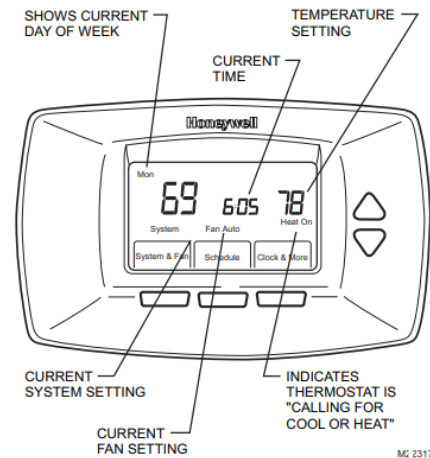
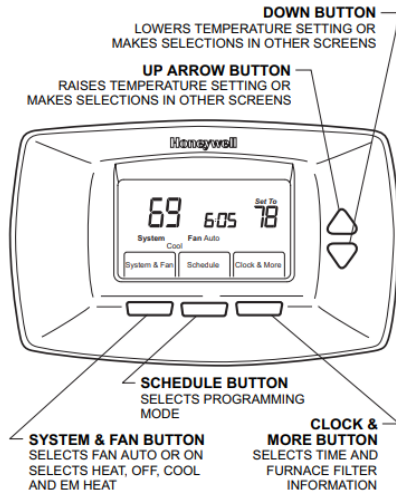


- If your fan coil unit is installed with the Honeywell TB6575A1000/TB8575A1000 SuitePRO Thermostat.
- The thermostat will display two sets of temperatures, the current room temperature (middle) and the desired temperature (to the top right).
- The desired temperature can be set or adjusted with the up and down arrows on the right side of the thermostat
- The bottom of the thermostat contains two buttons:
 - The bottom left button is the system button and controls which mode your system will run in
 - HEAT – Thermostat control the heating system (With a 2-pipe system, in the winter this setting should be used when your building provides heated water)
 - OFF – Both heating and cooling systems are off
 - COOL – Thermostat controls the cooling system (With a 2-pipe system, in the summer this setting should be used when your building provides chilled water)
 - AUTO- This setting will switch between both heating and cooling settings based on the variation from room temperature and desired temperature (only recommended with a 4-pipe system)
 - The bottom right button is the fan button and controls which fan speed your system will run in
 - HIGH – The fan will run on high speed constantly (or until turned off)
 - MEDIUM – The fan will run on medium speed constantly (or until turned off)
 - LOW– The fan will run on low speed constantly (or until turned off)
 - AUTO- The fan will run automatically and turn off once the room temperature equals the desire temperature.
- Ultimately, it is recommended to keep the fan option in AUTO mode for optimal performance

For full instructions, please download a pdf. file of your Honeywell TB7100A1000 MultiPRO Thermostat found here:
<https://customer.honeywell.com/resources/TechLit/TechLitDocuments/62-0000s/62-0278.pdf>



HONEYWELL TB7100A1000 MultiPRO



- If your fan coil unit is installed with the Honeywell TB7100A1000 MultiPRO Thermostat.
- The thermostat will display two sets of temperatures, the current room temperature (to the left) and the desired temperature (to the right).
- The desired temperature can be set or adjusted with the up and down arrows on the right side of the thermostat.
- The bottom of the thermostat contains three buttons:
 - The bottom left button is the system and fan button which controls which mode your system will run in and at what speed
 - FAN ON – runs fan constantly
 - FAN AUTO – runs fan automatically; turns off when reached desired temperature
 - HEAT – Thermostat control the heating system
 - OFF – Both heating and cooling systems are off
 - COOL – Thermostat controls the cooling system
 - AUTO- This setting will switch between both heating and cooling settings based on the variation from room temperature and desired temperature (only recommended with a 4-pipe system)
 - The center button is the schedule button used to select programming modes.
 - Programming Heating and Cooling Schedule – The thermostat can control up to four different schedule periods per day and each are at 15-minute intervals.
 - Occupied1 – Work arrival time. Period to keep space at a comfortable temperature.
 - Unocc1 – Work exit time. Period to keep space at an energy-saving temperature.
 - Occupied2 – Second occupied period.
 - Unocc2 – Second unoccupied period
 - The bottom right button is used to control the clock and other features such as time and filter information.
 - The thermostat is designed to, under normal use, automatically keep the current time and day in the memory for up to ten years once the calendar is set.

For full instructions, please download a pdf. file of your Honeywell TB7100A1000 MultiPRO Thermostat found here:

<https://customer.honeywell.com/resources/techlit/TechLitDocuments/63-0000s/63-2674.pdf>



SAFETY TIPS AND POTENTIAL HAZARDS

Your fan coil unit has live power and water running through it and poses potential safety risks. As a homeowner, you should NEVER under any circumstances try to service or repair your fan coil unit. Repair and service not performed by a certified technician will void any manufactures warranty.

- **DO NOT LEAVE WINDOWS OR DOORS OPEN WHILE OPERATING FAN COIL**

- During **the winter months** the low temperatures pose an extreme risk of having your coil freeze. A frozen coil leads to coil pipes bursting and resulting in uncontrollable flooding.
 - The result of this voids manufactures warranty.
- During **the summer months** the high temperatures increase the presence of moisture in your fan coil system. With an increase variation in room temperature and desired temperature, the fan coil system will constantly run, resulting in:
 - Extra stress on your fan coil system, and
 - Major decrease in operational efficiency
 - Extra condensation results in potential water damage

- **DO NOT BLOCK RETURN AIR GRILLS (BOTTOM OF PANEL)**

- Furniture and/or other items should create a clearance of at least 12-18 inch in front of the fan coil's return grills. Please ensure there is a clearance of at least 18 inches between your fan coil unit and furniture.
- **Failure to do so will result in**
 - Extra stress on your fan coil system, and
 - Major decrease in operational efficiency

- **DO NOT TOUCH ANY FAN COIL COMPONENTS BEHIND PANEL**

- Almost all of your fan coil components (including your thermostat) have live power running through them and should therefore not be touched by anyone but a certified technician.
- Potential harm caused for misuse of fan coil system.
 - The result of this voids manufactures warranty.



We thank you for choosing Aurum Manufacturing.
We're happy we can assist in making your home life more comfortable.

