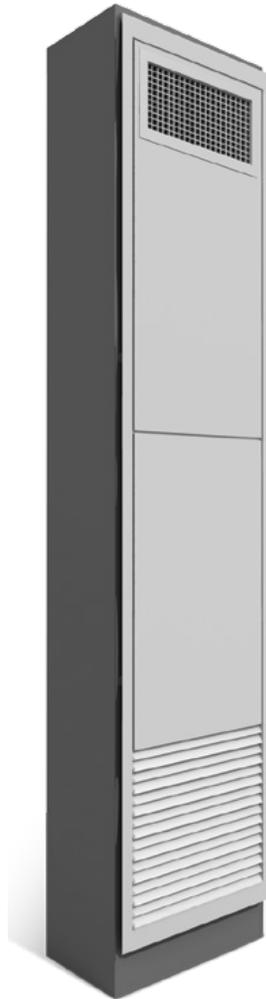




OPERATION AND MAINTENANCE MANUAL

Vertical Fan Coil





Main VFC:

The Unilux Main Vertical Fan Coil unit is designed and certified to operate for your specific space.

The main VFC when installed in the residential unit is connected to the building riser pipes to connect to hot and cold water and condensate or drain pipes; building electrical systems; air handling ducts and pipes; etc. The main VFC is installed behind the drywall and only the front access panel opening and ducts may be visible.

Once the main VFC unit has been installed and walls finished the access panels and filters are installed.

Locate the thermostat and thoroughly review the manual to ensure correct wiring and codes if applicable have been completed.

Turn Main Power Switch to “On” Position

Set the Thermostat to Fan “On” position the VFC main fan will run at the selected speed.

With the Fan switch set to “Auto” position, the fan will run if the system calls for heating or cooling.

The Fan running speed will be determined by the difference between the room temperature and the set point temperature.

The fan will automatically run in high speed if room temperature is $> 7^{\circ}\text{F}$ higher than the set point temperature.

The fan will automatically step down to medium speed when the difference between room temperature and set point temperature is $< 7^{\circ}\text{F}$ and $> 3^{\circ}\text{F}$.

The fan will automatically step down to low speed when the difference between room temperature and set point temperature is $< 3^{\circ}\text{F}$.

With Chilled water in the system and on a call for heating, the motorized valve will remain de-energized and the electric element will be powered.

With Hot Water in the system ($> 85^{\circ}\text{F}$), and on a call for heating, the motorized valve will be energized.

The fan will automatically run in high speed if room temperature is $> 7^{\circ}\text{F}$ lower than the set point temperature.

The fan will automatically step down to medium speed when the difference between room temperature and set point temperature is $< 7^{\circ}\text{F}$ and $> 3^{\circ}\text{F}$.

The fan will automatically step down to low speed when the difference between room temperature and set point temperature is $< 3^{\circ}\text{F}$.



Filter Types, Size and Instructions on Replacement

Throw Away Filters

The throwaway or replaceable filter is commonly used on UNILUX fan coil units. It should be replaced on a regular basis. It is mounted behind the inlet Grille. It is accessible by removing the return air grille-access panel.

Filter must be cleaned a minimum of four times a year. Under certain operating conditions, it may be necessary to change or clean the filters more frequently to obtain maximum unit performance.

The time interval between each replacement should be established based on regular inspection of the filter and should be recorded in the log for each unit. Dirty filters are the cause of the most common system performance complaints. It is essential that filters be serviced on a regular basis.

Untrained personnel can perform basic maintenance functions such as cleaning coils and replacing filters. All other operations should be performed by a trained service technician (see below for detailed instruction guides).

Caution

The units should not be operated at anytime without complete enclosure, supply grille, return air grille, and filter in place. Operation in any other condition could result in motor overloading or burnout, clogging of coil surface, fan blade damage, or all of the above.

UNILUX Model	Filter Size
DLE 350	13.5 X 20
DLE 450	13.5 X 20
DLE 600	13.5 X 20
DLE 800	17.5 X 20
DLE 1000	17.5 X 20
DLE 1200	17.5 X 20



Step By Step Guide to Replace a Filter

Step # 1

To remove the filter open the front access panel door and pull the door towards you, as shown here.



Step # 2

Turn off the electrical power source at top right of the unit. Allow the rotating fan wheel to stop.





Step # 3

Once the panel is open reach to the filter mounted behind the bottom return air grille.



Step # 4

Pull the used filter out while holding the door.





Step # 5

Insert the new filter.



Step # 6

Close the panel door back to its original position.

