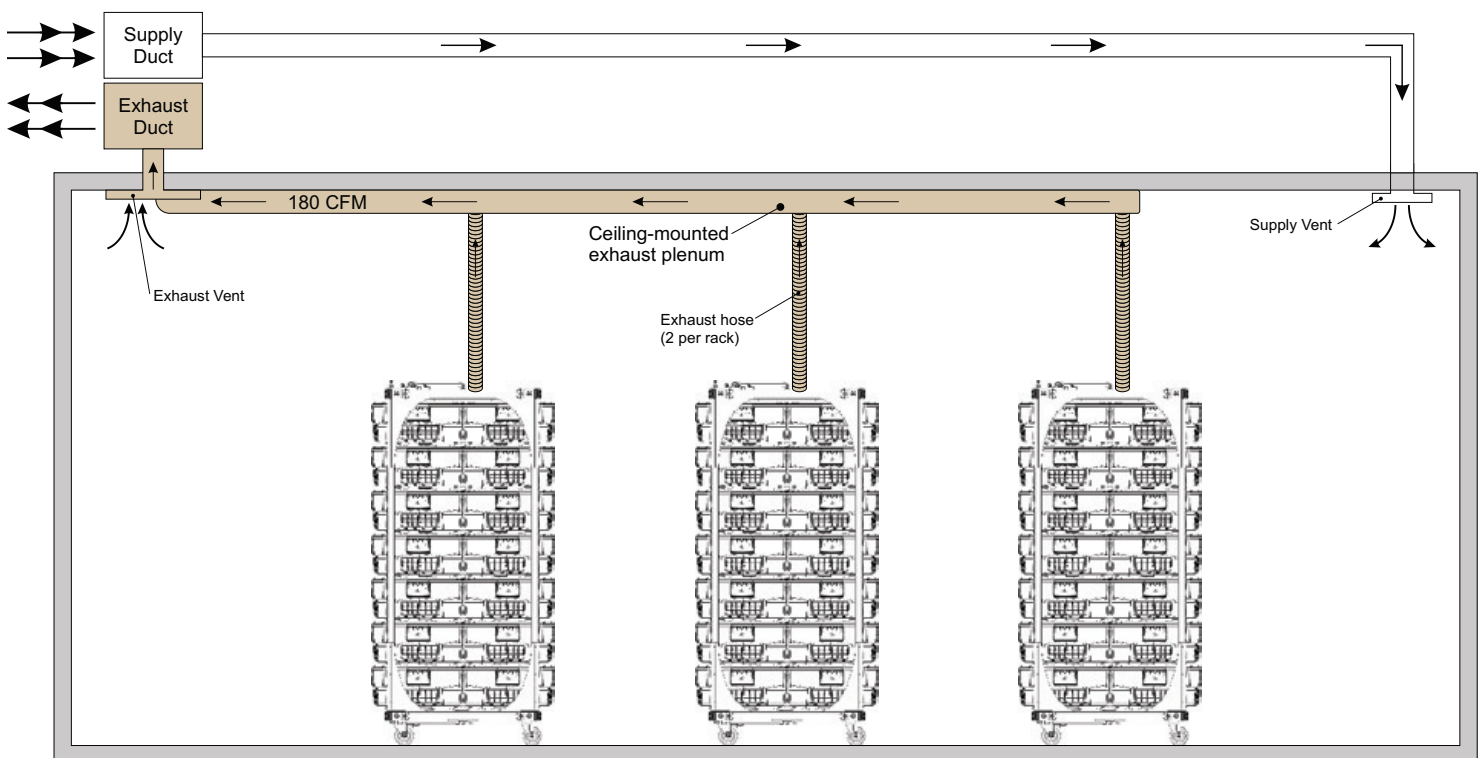


## Optirat GenII SOP - Connecting to Ceiling Drops

Optirat GenII racks connect to a facility's exhaust system with flexible air hoses. The building's heating, ventilation and air conditioning system (HVAC) supplies clean air to each animal room. The air enters through supply vents and exits through exhaust vents.

The room air is filtered as it is drawn in through the front filter of each cage on the rack. Air is then drawn out through the rear exhaust filter of each cage and into the rack's central plenum where it exits through the exhaust hoses connected to the building's exhaust system.



## Optirat GenII SOP - Connecting to Ceiling Drops

1. Identify an area to place the rack where the top of the rack and the hoses will have access to the room's HVAC exhaust. Consult Animal Care Systems technical support for information on HVAC connections, if necessary.  
**Optirat GenII racks must be connected to the building's exhaust system.**
2. Position the side with the locking casters outward. Ensure the rack can be rotated without interference.
3. Remove any exhaust caps (Figure 1), and connect the hoses to the ceiling drop(s) (Figure 2). If using only one hose, leave the other ceiling drop capped with either a solid cap or load simulator cap. Contact Animal Care Systems for guidance about which cap your facility needs.

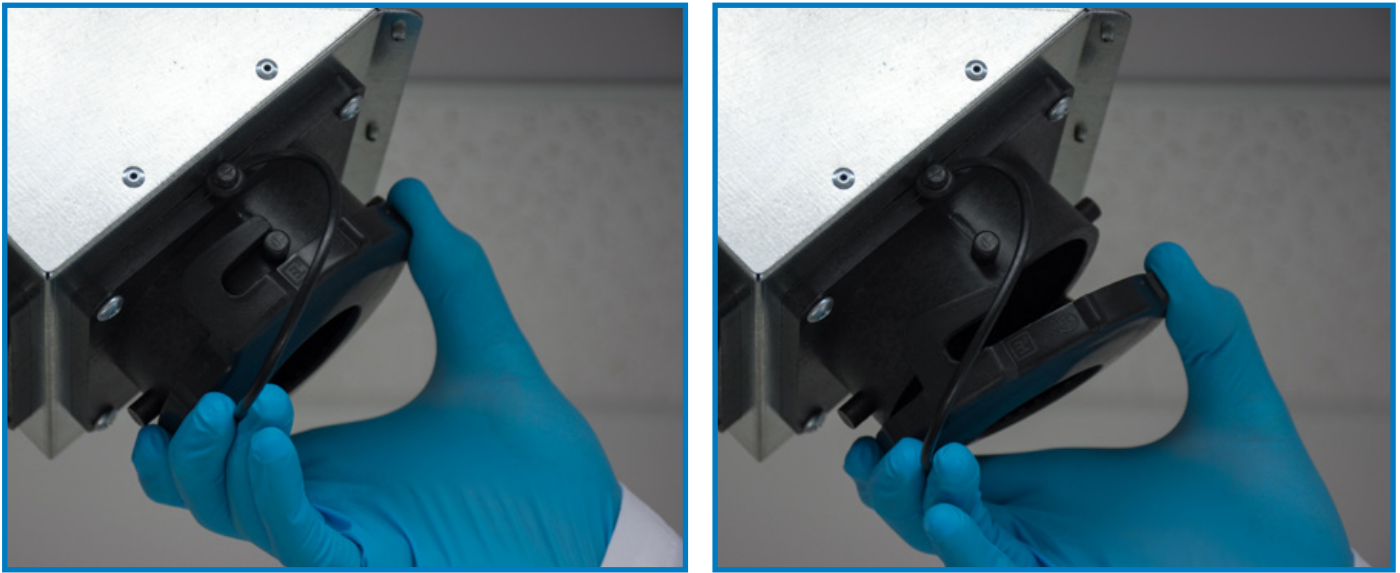


Figure 1

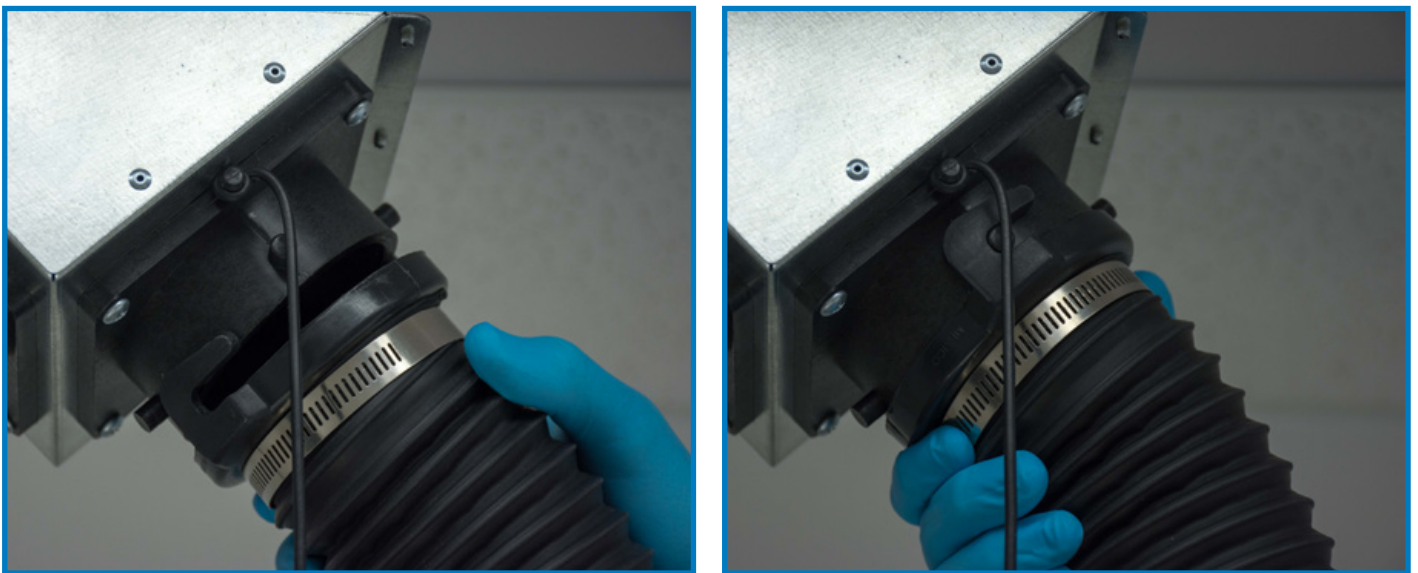


Figure 2

## Optirat GenII SOP - Connecting to Ceiling Drops

4. (If using a rack status monitor, consult Opti Rack SOP 1)
5. Connect the hose(s) to the rack. If using a rack status monitor, connect the sensor tube before the exhaust hose (Figure 3). If using only one hose, the other opening on the rack must be capped (with M21080). If using two hoses, ensure the sensor tube's black and blue tubing points away from the other hose.

If airflow measurements exceed the recommended values, iris dampers (M49D100, M49D150) should be fitted in line with the air hoses.

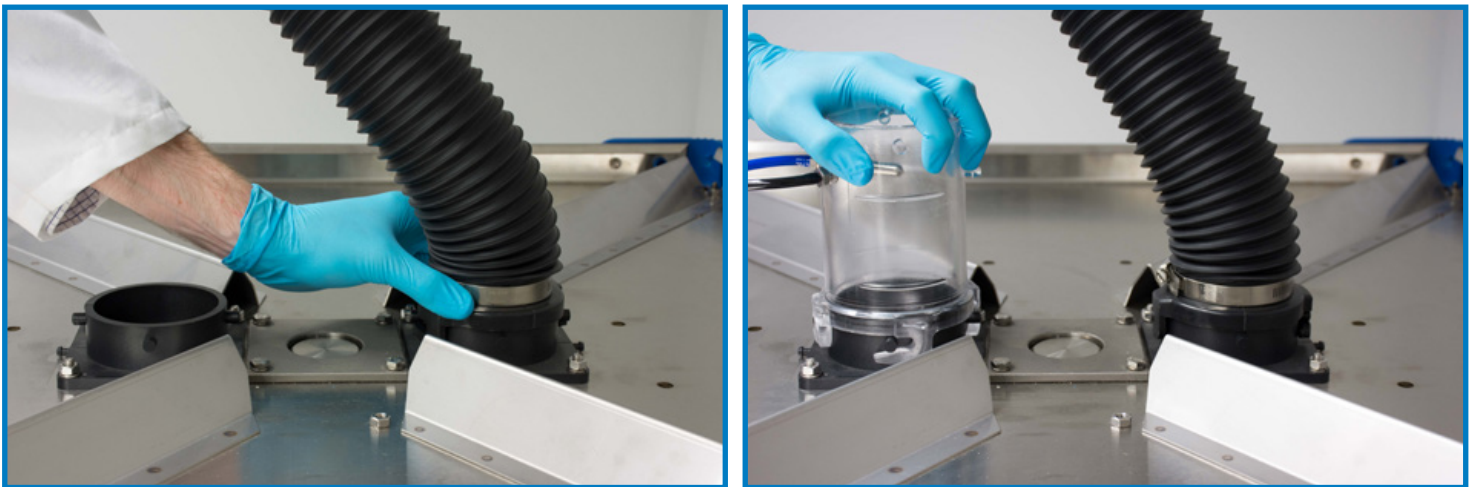


Figure 3



 **If the rack's unused exhaust port is not capped, the rack will receive no airflow.**