



The highly contagious nature and patient care requirements of COVID-19 are requiring hospitals to quickly convert floors to critical care units. Proper ventilation is required to care for patients and protect healthcare workers.

CASE STUDY

Healthcare

At a Glance

Location

Community Hospital in Nashville, TN

Area Served

26,262 sqft

Situation

Immediately convert 8th floor of hospital to a dedicated COVID-19 patient care unit in less than 3 weeks.

Solution

Q-PAC manufactured and Quick Shipped 5 fan array systems in just 2 days which were installed in less than 4 hours.

How Q-PAC Systems helped a Nashville, TN hospital quickly prepare for treating COVID-19 patients

Challenges

The eighth floor of a Nashville hospital needed to be quickly transformed to increase the bed count for COVID-19 patients. The existing HVAC equipment on the floor was not designed for occupied space. Achieving the 10 day turnaround schedule from design to installation would prove difficult given the hospital ventilation system requirements, 30" installation space height available, and physical access restrictions.

Actions

Q-PAC worked closely with our local representative Mechanical Resource Group in Nashville to:

1. Design the fan systems to meet the airflow and static pressure requirements using the QUIPS selection tool
2. Internally fabricate and assemble the modular wall, Quick Connect wiring, control panel, and ECM fans
3. Quick Ship the 5 integrated fan systems as packaged kits with labeling and fasteners in under 48 hours
4. Install the fan systems using Q-PAC's plug and play capabilities and on call technical support team

Results

Q-PAC exceeded the fan system delivery, installation, and operational expectations of both the project contractor and hospital. Each system's modular and integrated design measured less than 25" in height with all components being hand carryable for fast and easy installation. All 5 fan systems were installed in less than 4 hours upon delivery with fewer installation personnel and electrician support being required.

Notable Highlights

- 2-day Quick Ship of 5 ECM fan systems
- 3 1/2 hour local installation time
- No rigging equipment or special handling needed
- No maintenance is required

