BUILD THE FUTURE:
SMART ENERGY CAREERS

HVAC Heat Pump Technician

Also known as HVAC Residential Installers

Job Summary:

HVAC Heat Pump Technicians install, repair, and maintain heat pump systems, which heat and cool homes. A good heat pump installer knows how to set up and troubleshoot HVAC equipment and can explain how it works to customers. A heat pump is part of a home heating and cooling system that moves heat from one place to another instead of creating it, making it very energy efficient. Heat pumps are becoming more popular because they use electricity instead of natural gas, and improve comfort.

Why You'll Want to Check This Out!

- **No sitting behind a desk** – work with your hands and technical tools!
- **Start working and earning** in as little as 1–2 years.
- **Good pay and steady jobs** – people always need heating and cooling!
- **Help the planet** – install systems that save energy and cut pollution.
- **Build a career that can grow** – start as a tech and move up to supervisor, manager, or even run your own business.

A Day on the Job:

- Install heat pump equipment, machines, wiring, or programs.
- Repair machines or systems using the right tools.
- Do routine maintenance on equipment and figure out what kind of maintenance is needed.
- Test and inspect products, services, or processes to make sure they work correctly.
- Communicate clearly with customers, crew members, and program staff.
- Teach clients energy-saving techniques and best practices.
- Keep accurate records of energy audits and recommendations.
- Stay up to date on energy efficiency technology and industry trends.
- Use critical thinking to identify the strengths and weaknesses of products.

Pay Range:

$22.98 – $40.68 / hour

Source: CEFColorado.org/hvac-tech

> *"I love my job because every day is different! Every customer has different needs, and every property has its own heating and cooling challenges to overcome."*
>
> ***- Tom Vasselli, All Climate Systems, Thornton***

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HVAC Heat Pump Technician

Where You Can Work:

- HVAC services & installation companies
- Hospitals and healthcare centers
- Schools and other educational institutions
- Construction companies
- Factories and industrial buildings
- Companies that take care of commercial properties
- City, state or government buildings

What You'll Need to Learn:

Education:

- A high school diploma or equivalent is generally required.

Training Options:

- **Dual-enrollment programs in high school** let you earn credit toward a degree or certificate, before graduation.
- **Pre-apprenticeships** give you hands-on experience and help you decide if the trades are right for you. Denver has several Pre-Apprenticeship Programs (bit.ly/4qwfVXu).
- **Apprenticeships** let you "earn while you learn". You get paid as you train, and employers usually cover most of these costs.

Colleges and Programs

- **Technical Colleges** focus on practical training for specific jobs. They often have specialized equipment that mimics real-world work environments, so you're ready to work right after graduation.
- **Community Colleges** offer a variety of pathways, including associate and bachelor's degrees, certificates, and career and technical education programs. Colorado has 13 community colleges and over 35 locations across the state: Community Colleges in Colorado (bit.ly/48M0Muz).

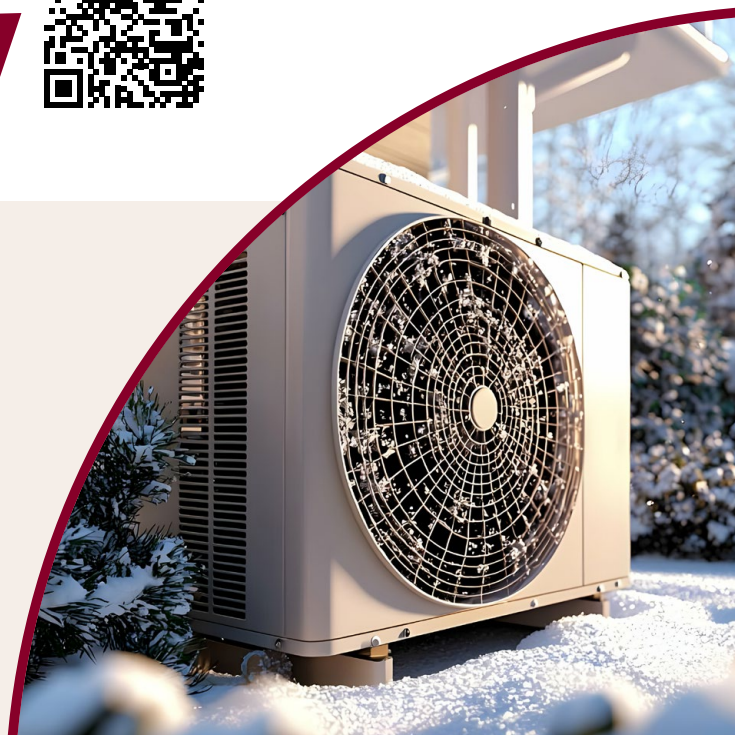
How You Can Move Up:

Learn more about this job and how you can move from entry-level to advanced positions to owning your own business! Scan the QR code or visit GreenBuildingsCareerMap.org

Learn more:

Heating, Air Conditioning, and Refrigeration Occupational Description

(bit.ly/4rLRvs7)



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