Heat Pump Handbook:

Maximizing Performance and Savings

Your new Air Source Heat Pump (ASHP) is an excellent way to increase energy efficiency and reduce costs. To make sure you get the most out of your system, we've compiled some best practices for operation. These practices will help you unlock significant energy savings and maximize the comfort of your home.

Rhode Island Energy™
Efficiency Programs

Best practices for operation

Temperature Settings

The modern ASHP is a variable speed device that maintains temperature cheaper than it recovers temperature.

Changing the thermostat temperature can increase the condenser's motor speed, resulting in increased electric usage.

The best way to adjust the ASHP temperature setting during heating or cooling seasons is to alter only 2-3°F at a time. This will allow the outdoor compressor to operate at a lower motor speed, using less electricity.

If you have remote access via Wi-Fi connection, minor 2-3°F adjustments can be done in several steps to raise or lower the unit setting when you are away.

Summer operation

During the cooling season, the same principle of consistency applies. Set your desired temperature and avoid frequent adjustments. Remember, ASHPs maintain temperature more efficiently than they recover it, so constant thermostat changes will increase operating costs.

Dual system operation

For those who have chosen to keep their existing heating system alongside their new ASHP, it's important to stage your thermostat properly. Set your ASHP as the primary heat source by setting its thermostat to your desired temperature. Then, set the existing heating system's thermostat 2-3°F lower. This ensures that if the ASHP cannot maintain comfort, the existing heat will briefly activate to warm the room before shutting off, allowing the ASHP to economically maintain the desired temperature.

Keep it clean, keep it efficient

Regular maintenance is essential for optimal ASHP performance. For ductless systems, wash or rinse the accessible filters in the indoor units monthly. If you have a ducted indoor unit, change the filters at minimum before each heating and cooling season. Depending on usage, more frequent filter changes may be beneficial.

By implementing these best practices, you'll not only reduce your environmental impact but also enjoy enhanced comfort and potentially lower energy bills. Remember, small adjustments in your daily habits can lead to substantial improvements in your heat pump's performance.

For support visit www.rienergy.com/heatpumps

Rhode Island Energy™
Efficiency Programs