ecoblock™

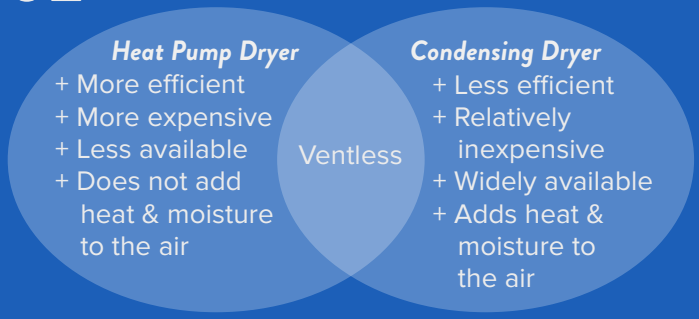
APPLIANCES 101:

KNOW YOUR *EFFICIENT DRYERS*

01 *WHAT ARE HEAT PUMP DRYERS?*

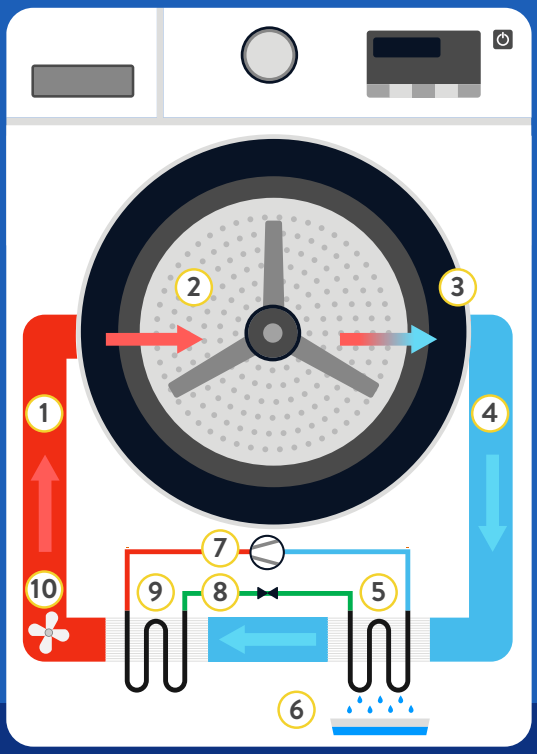
Heat pump (HP) dryers are **ventless, energy-efficient dryers.** Unlike conventional models, which exhaust warm, humid air through a dryer vent to the outside of your home, heat pump dryers **'recycle'** this air: they blow hot air into the **drum chamber, cool and collect** moisture that's absorbed from your clothes, and **reheat and recirculate** the air back to the drum, repeating the cycle. HP dryers can also be **stackable,** letting you save space.

02 *HEAT PUMP VS. CONDENSING?*



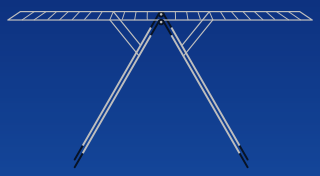
*1) Hot air is blown into the **drum chamber**, where it absorbs moisture from your wet clothes.*

*3) The cool, moisture-free air goes through and reheated by a **compressor**. A small **fan** helps recirculate the air back to the drum chamber, where the drying cycle repeats once more.*



*2) Since heat pump dryers are **ventless**, the moisture from your clothes needs to go somewhere. The dryer uses **refrigerant** to pull the hot, humid air out of the drum chamber and cool it via an **evaporator**. The excess moisture is stored in a **collection tray**, where it can be easily removed, reused, and recycled.*

03 *ALTERNATIVE WAYS TO DRY YOUR CLOTHES**



Clothesline

+ Saves **money & energy**
+ Removes strong odors
+ Prevents shrinkage
+ **Whitens white** laundry

Drying rack

+ **Affordable**
+ **Foldable & portable**; used indoors & outdoors
+ Easy storage
+ Longer clothes lifespan

Stackable HP dryers* and ***all-in-one washer-dryer combos are other space-saving (but more costly) alternatives.*

04 *WHY HEAT PUMP DRYERS?*

Pros

+ Consumes ≤ **50% of the electricity** used by standard electric dryers
+ Dries at **low air temperatures**, making them **gentler** on clothes
+ Dries **consistently, easy to install** & **saves space**
+ **Ventless**: doesn't have a separate vent that goes through to the outside of your home

Cons

+ Higher **initial costs** (**rebates** may be available)
+ **Longer cycle times** than vented dryers
+ All the energy used to run a heat pump dryer stays in the house, resulting in significant savings during the cooler months and costs during the warmer months

Design by Eunice Chung

Sources: Amy Dryden, EcoBlock • Appliances Online • ENERGYSTAR • GreenAmerica • The Spruce • Reviewed