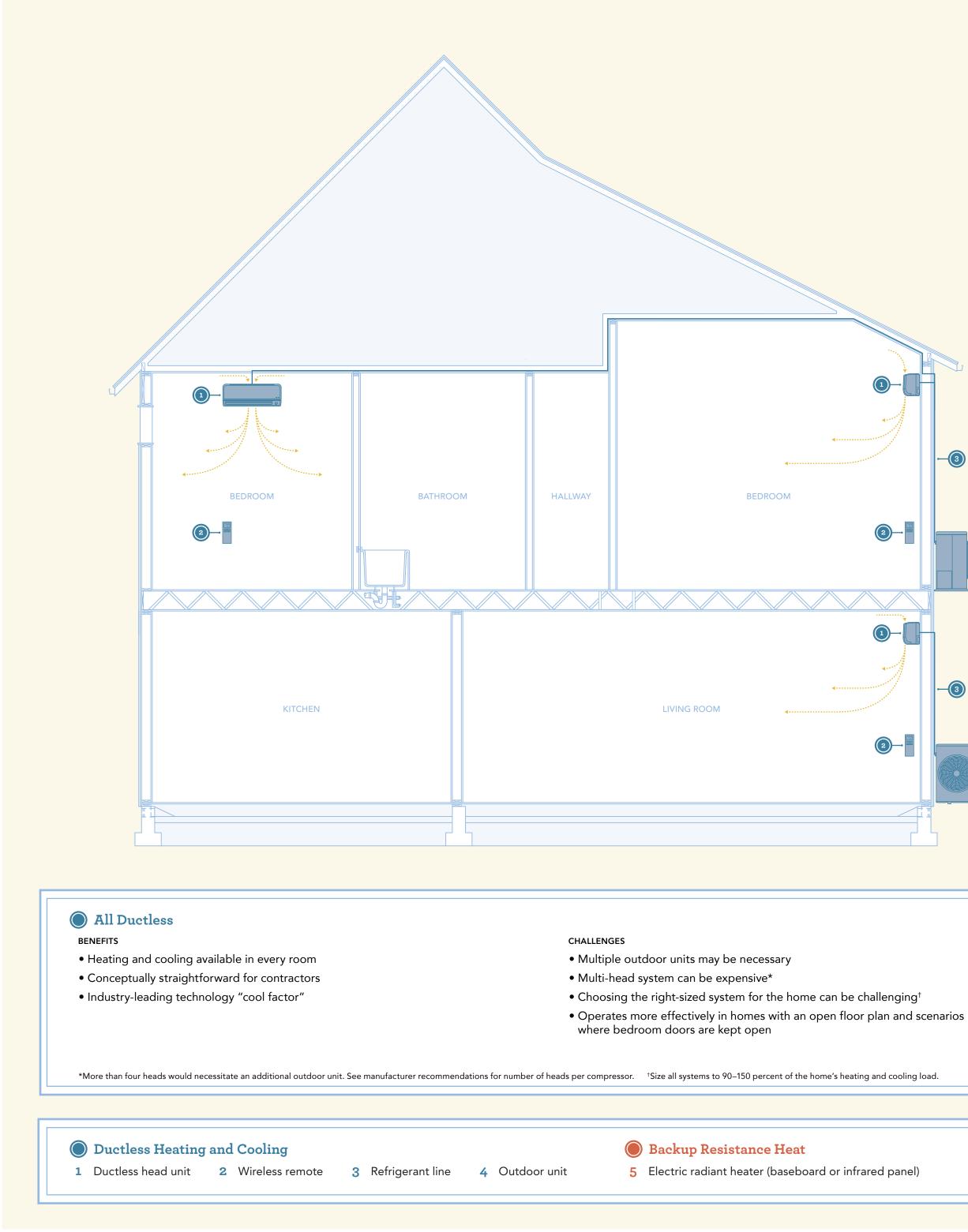
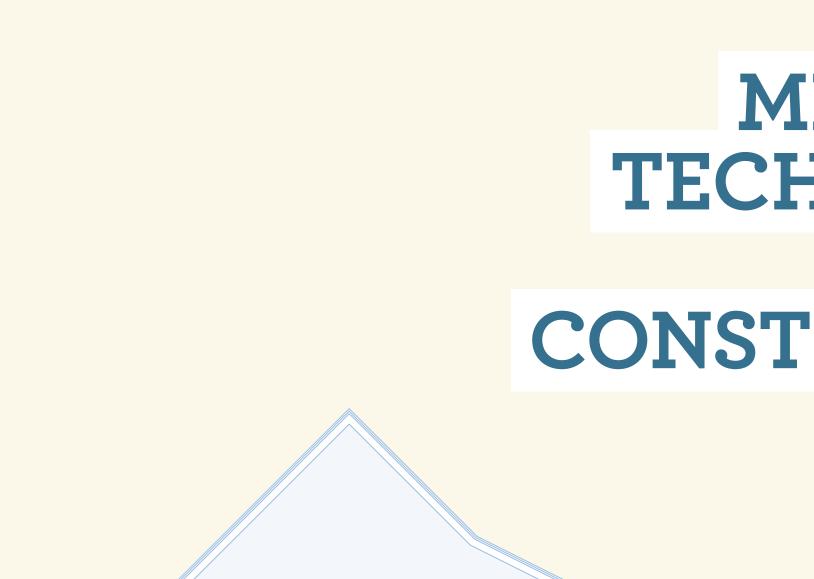
Mini-split technology offers a new range of efficiency and comfort—benefits that previously required higher cost or added complexity. To help you determine which mini-split system is most appropriate for your efficient-home construction project, this guide presents four system options and their respective benefits and challenges.







Ductless and Backup Resistance Heat (Baseboards or Infrared Panels) BENEFITS

- Most effective strategy for reducing overall energy use by heating the core of the home with efficient technology and using backup resistance heat in satellite rooms as needed
- Avoid perceived aesthetic concerns with fewer wall-mounted ductless heads

Ducted Mini-Split 6 Register 7 Duct

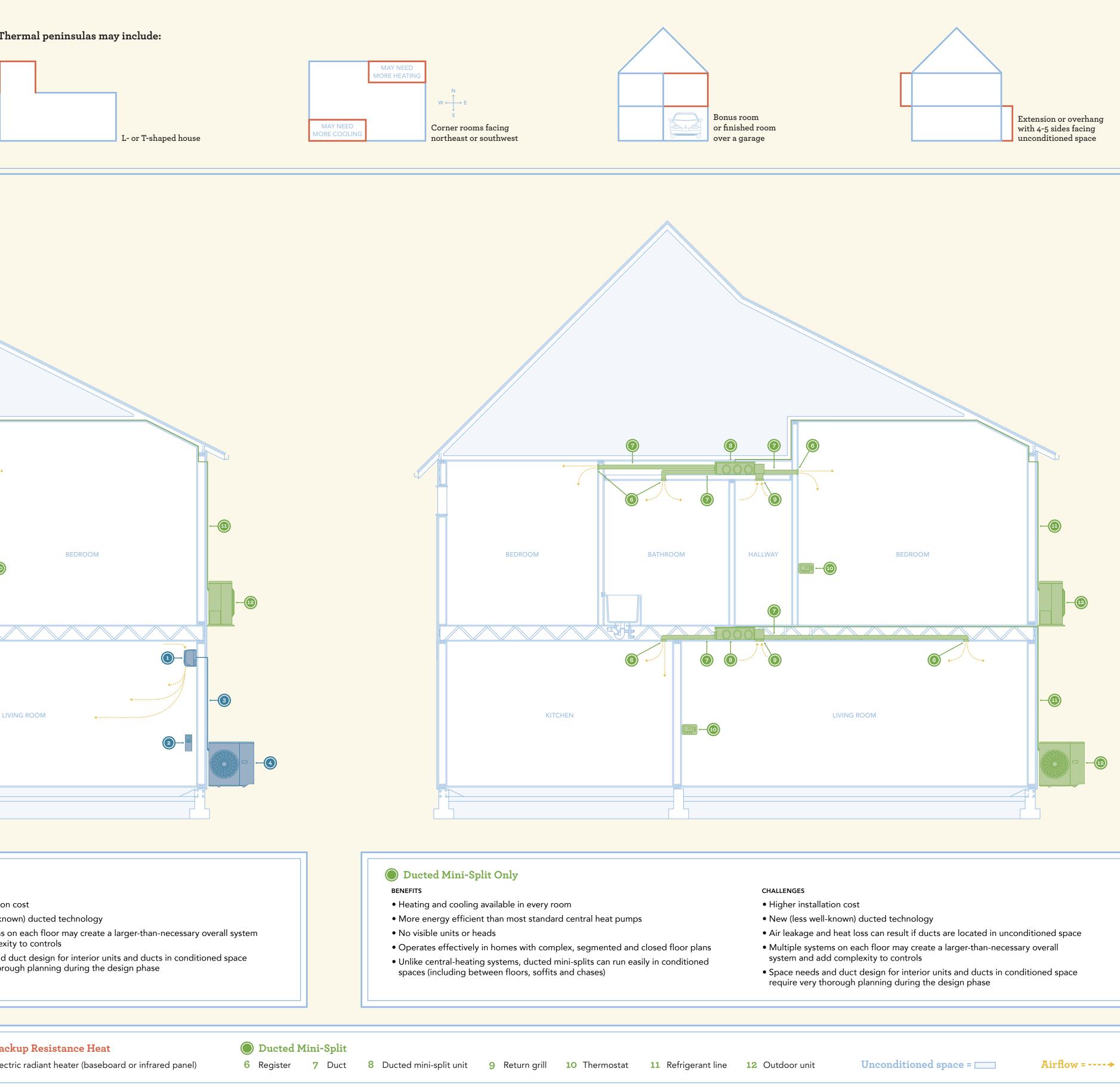
# **MINI-SPLIT** TECHNOLOGY IN NEW **CONSTRUCTION**

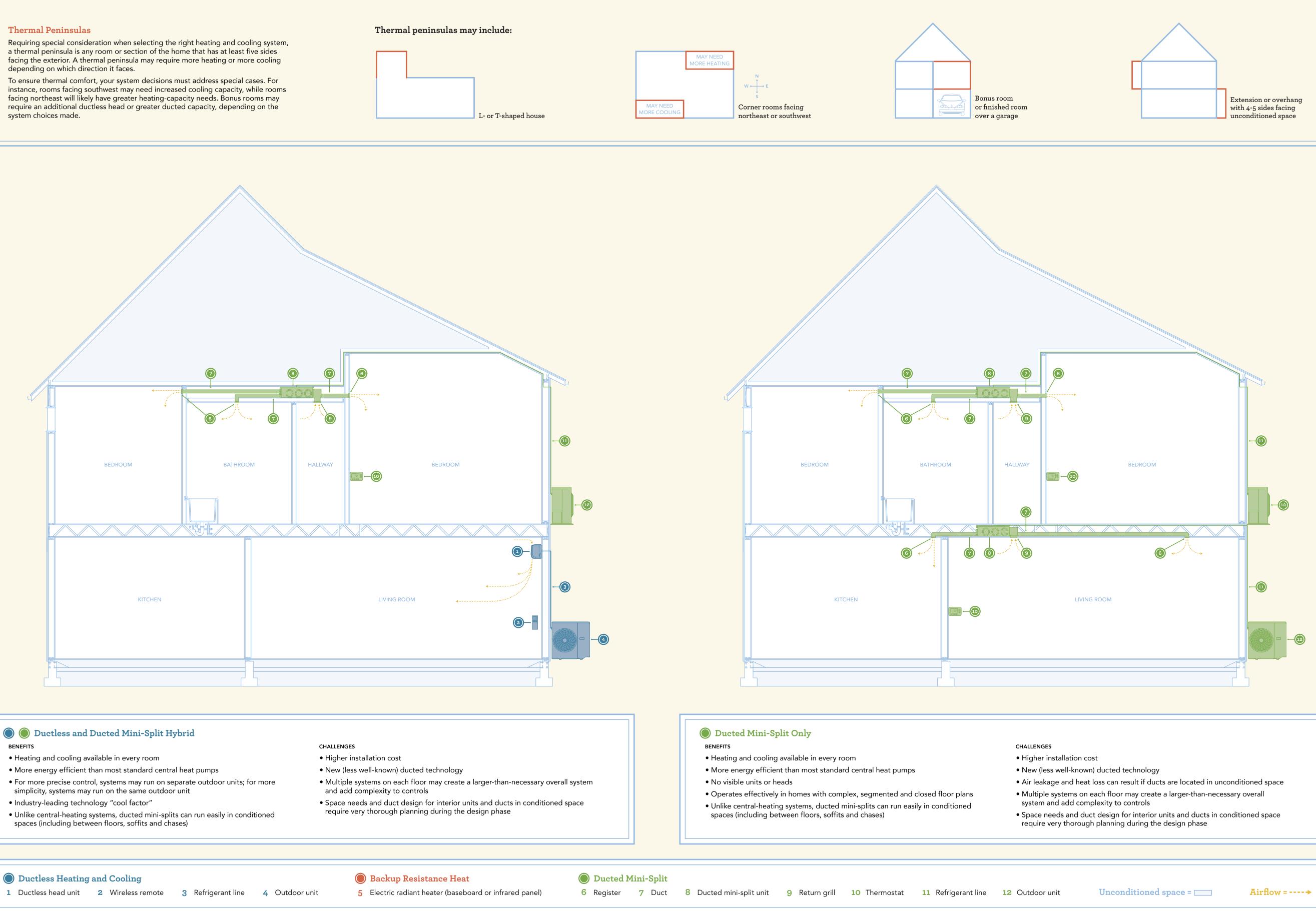


### Thermal Peninsulas

Requiring special consideration when selecting the right heating and cooling system, a thermal peninsula is any room or section of the home that has at least five sides facing the exterior. A thermal peninsula may require more heating or more cooling depending on which direction it faces.

instance, rooms facing southwest may need increased cooling capacity, while rooms facing northeast will likely have greater heating-capacity needs. Bonus rooms may require an additional ductless head or greater ducted capacity, depending on the system choices made.





## BENEFITS

- For more precise control, systems may run on separate outdoor units; for more simplicity, systems may run on the same outdoor unit
- Unlike central-heating systems, ducted mini-splits can run easily in conditioned spaces (including between floors, soffits and chases)



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