

2-Pipe Chilled Water aka hydronic cooling and dehumidification



Pros



Flexible air handling options (ducted, ductless, multiple sizes and configurations available).



Minimal indoor space requirements.



Usually results in lower overall electrical infrastructure than DX units.



Flexible air handling options can result in better room air homogenization.



N+1 redundancy possible at a minimal cost addition.



Ability to easily expand operations if phasing plan is identified ahead of time.



Flexible tonnage.



Share equipment between rooms without sharing air between rooms (great for flips).



Lower ongoing maintenance.



High longevity (~20+ years).



Significant economization (free cooling) options.



Cons



Initial expense can be slightly higher than packaged DX or split units.



More engineering work is required to design the water piping loop properly than simpler systems.



More complicated to install than most DX systems.



Requires a mechanical room in the building (small).



Standalone dehumidifiers are required.