

VARIABLE REFRIGERANT FLOW (VRF / VRV)

ONE LOOP. HEATED OR COOLED INDEPENDENTLY.

PIPE HEAT RECOVERY

PIPE HEAT-RECOVERY MAINS

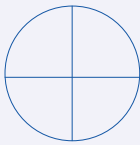
REFRIGERANT MAINS. Compact 2- or 3-pipe lines replace bulky ducts and air handlers. Smaller shafts, smaller penetrations, more usable ceiling.

BRANCH CONTROLLER. Meters refrigerant to each zone and, in 3-pipe systems, routes reclaimed heat between zones that are cooling and zones that are heating.

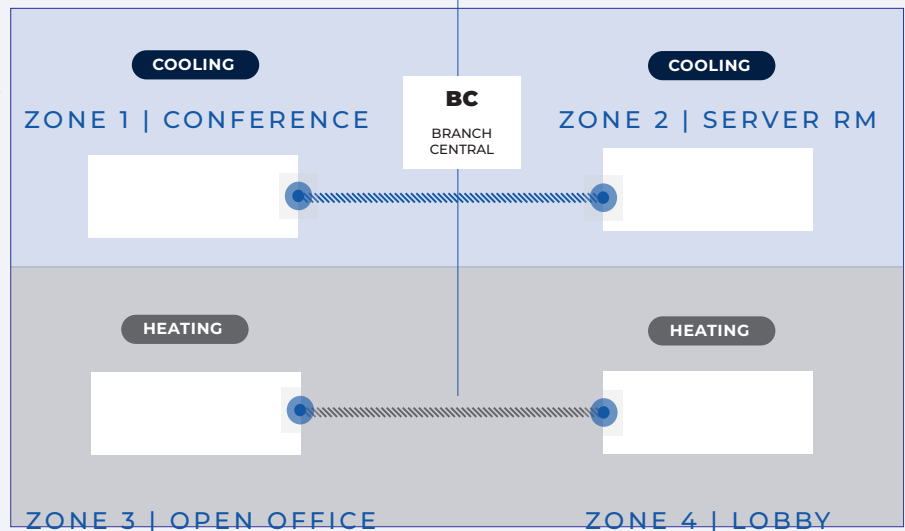
INDOOR UNITS. One per zone, each with its own setpoint and a live monitored point. Small, quiet, ducted or ductless.

OUTDOOR CONDENSING UNIT

One inverter-driven unit modulates refrigerant to the exact load instead of cycling on and off. That's where the efficiency and the longer equipment life come from.



INVERTER COMPRESSOR



CONSIDERATION	VRF / VRV	CONVENTIONAL UNITARY
Part-load operation	Cycles on / off	Modulates continuously to load
Zoning	One setpoint per large area	Per-zone setpoints
Heat and cool at once	Needs separate systems	Built in via heat recovery
Ductwork and Space	Bulky ducts + air handlers	Compact refrigerant lines

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