

HVAC Interface & Wiring Port Compatibility Matrix

A comprehensive technical reference for centralized control addressing, external device requirements, and polarity.

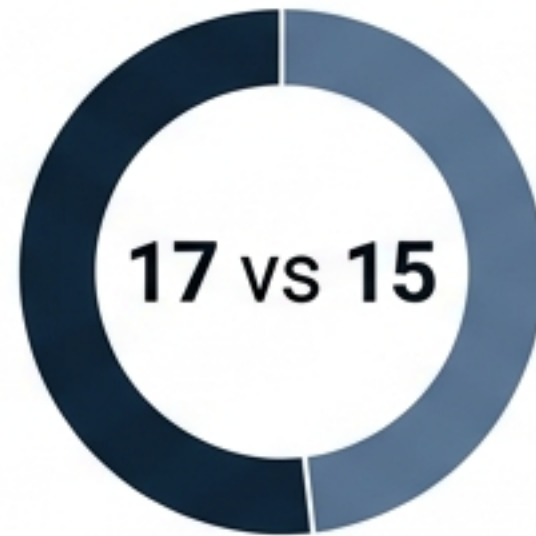
System Architecture Trends at a Glance

Most Common VRF Port

X, Y

Used in 56% (18 of 32) of system configurations, followed by F1, F2 (34%).

Polarity Split



17 configurations require polarized connections; 15 do not.

External Device Demand

~40%

13 of 32 listed configurations strictly require an external device connection.

Centralized Addressing

3

Only 3 specific configurations function as a centralized control address (Daikin Multi, Daikin Single, Toshiba).



= Yes / Required



= No / Not Required

Compatibility Matrix: Daikin – Haier

Brand	VRF side wiring port	AC side wiring port	Polarity of wiring port*①	Must connect an external device?	Is it a centralized control address?
Daikin Multi External Unit	F1, F2	F1, F2 (External -Internal)	×	✓	✓
Daikin - Single External Unit	F1, F2	F1, F2 (Internal-External)	×	×	✓
Mitsubishi Electric - Multi External Unit *②	F1, F2	M1, M2 (TB7)	×	✓	×
Mitsubishi Electric - Single External Unit	F1, F2	M1, M2 (TB3)	×	×	×
Mitsubishi Electric - Power Multi Lingyao	F1, F2	M1, M2 (External Unit) M1, M2 (Cable distribution cabinets)	×	×	×
Hitachi	F1, F2	1, 2	×	×	×
Toshiba	F1, F2	U1, U2	×	×	✓
Panasonic	F1, F2	U1, U2	×	×	×
Hisense	F1, F2	1, 2	×	×	×
Haier	F1, F2	P, Q	×	×	×

Compatibility Matrix: York – LG

Brand	VRF side wiring port	AC side wiring port	Polarity of wiring port*①	Must connect an external device?	Is it a centralized control address?
York - Qingdao	F1, F2	1, 2	✗	✗	✗
York - Guangzhou	X, Y	A2, B2	✓	✓	✗
GREE	H, L	G1, G2	✓	✓	✗
	H, L	D1, D2	✓	✗	✗
TCL	H, L	F1, F2	✓	✗	✗
Mitsubishi Heavy Industries	X, Y	A1, B1	✗	✗	✗
	X, Y	A2, B2	✗	✗	✗
Midea, Bosch, Carrier	X, Y	X, Y	✓	✓	✗
	X, Y	P, Q	✓	✗	✗
Midea - Cool Style	X, Y	A, B (External)	✓	✓	✗
Oaks	X, Y	A, B	✓	✗	✗
Samsung	X, Y	F1, F2	✗	✗	✗
LG	X, Y	A, B (CEN)	✓	✗	✗

Compatibility Matrix: McVeil – Trang

Brand	VRF side wiring port	AC side wiring port	Polarity of wiring port* ^①	Must connect an external device?	Is it a centralized control address?
McVeil	X, Y	Apc, Bpc	✓	✓	✗
Tianjia	X, Y	A3, B3	✓	✗	✗
chigo	X, Y	P, Q	✓	✗	✗
Trang	X, Y	A, B	✓	✓	✗
York household water machine	X, Y	A, B	✓	✓	✗
	X, Y	A2, B2	✓	✓	✗
McQuay household water machine	X, Y	Apc, Bpc	✓	✓	✗
Carrier household water machine	X, Y	A, B	✓	✓	✗
Trang household water machine	X, Y	CN29 (A, B)	✓	✓	✗

*^① Refer to system manual for specific polarity testing procedures.