

# Daikin ERA,

## The DX condenser for AHU Connection

Complete your R32 solution with the NEW Daikin ERA and achieve best in class comfort and efficiencies, up to 30 kW.



Condensing unit range connectable to Air Curtains and Direct Expansion (DX) Air Handling Units (AHUs) for fresh air and recirculation applications.



ERA-AYF

ERA-AY/AV



Range based on inverter technology with the use of lower GWP R-32 refrigerant for capacities from 6.3 kW up to 30 kW.



Securing the highest comfort conditions due to the quick response of DX systems and the available control logics.



## Lower environmental impact with R-32

The new DX condenser lineup uses low-GWP R-32 refrigerant across models up to 12 HP, helping meet sustainability targets without compromising performance. It's a forward-thinking choice for commercial buildings. Lower environmental impact, same trusted reliability.

## Fast response in any conditions

Cooling and heating start immediately, regardless of indoor or outdoor conditions. This ensures consistent comfort and stable operation across all seasons. Perfect for entrances, retail areas, or fast-changing internal loads.

## Smart load management for medium-sized spaces

Thanks to VRV technology, the system adjusts capacity to match real-time demand. That means better temperature control, fewer fluctuations, and improved energy use in medium-sized applications. Ideal for air curtains or AHU integration in lobbies, corridors, or retail spaces.

## No cold drafts with continuous heating

The system maintains heating even during the defrost cycle, avoiding uncomfortable cold air being blown into the space. This ensures uninterrupted comfort, especially in high-traffic or temperature-sensitive areas. Great for entrances and reception zones.

## Quick to react, efficient to run

ERA units offer a fast response time to changing thermal loads, ensuring rooms stay comfortable even during sudden occupancy or weather changes. High efficiency and responsiveness make them a strong fit for dynamic commercial environments.

## Energy saving with inverter control

Inverter technology continuously adjusts power to match the building's needs, using only the energy required. This means lower running costs and better control. Efficient comfort without waste.

## Flexible integration with wide capacity range

Choose from a wide range of expansion valve kits covering capacities from 6.3 to 30 kW, making integration with air curtains or AHUs simple and scalable. It's a flexible solution for tailored commercial comfort.

### R-32

## ERA Condensing Units

		Single Phase			Three Phase					
		ERA100AV	ERA125AV	ERA140AV	ERA100AY	ERA125AY	ERA140AY	ERA200AYF	ERA250AYF	ERA300AYF
Capacity (kW)	Cooling	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5
	Heating	14.2	16.0	18.0	14.2	16.0	18.0	25.0	31.5	37.5
Refrigerant		R-32	R-32	R-32	R-32	R-32	R-32	R-32	R-32	R-32
Dimensions (mm)	Height	869	869	869	869	869	869	1,430	1,615	1,615
	Width	1,100	1,100	1,100	1,100	1,100	1,100	940	940	940
	Depth	460	460	460	460	460	460	320	460	460
Weight (kg)		102	102	102	102	102	102	144	175	180
Max. Piping Length		50m	50m	50m	50m	50m	50m	50m	50m	50m
Electrical Supply		220-240V / 50Hz			380-415V / 50Hz					
Sound Pressure Level (dBA)	Cooling (Nom.)	49	51	51	49	51	51	55	55	57
	Heating	50	50	50	50	50	50	55	55	57
Configuration	Single Fan - Side Blow						Twin Fan - Side Blow			

# R-32 DX Kit for AHU Connection

## What are the benefits?

### 1) Immediate cooling and heating under any ambient or room conditions

→ less heat transfer losses, fast and accurate response to load changes

→ **better comfort and less energy consumption compared to water cooling/heating coils coupled with chillers**

### 2) Better management of load for medium size spaces due to VRV technologies

- Total solution: AHU can work together with other VRV indoor units in same system
- Extended operating range
- Accurate temperature control due to inverter capacity management
- Quick switchover between cooling & heating

→ **better comfort and wider possibilities compared to water systems and ON/OFF CCUs**

### 3) Top energy efficiency and reliability

- Energy saving due to inverter technology
- No inrush current
- Less start/stop cycles, longer compressor lifetime
- VRT control increases seasonal efficiency (when Z control is applied)
- VRT allows numerous settings targeting either higher efficiency or quick response

→ **lower running costs**

### 4) Continuous heating

- Avoid cold drafts during defrost cycle
- Fresh air can be continuously supplied at comfortable temperatures

→ **better comfort**

Range	Outdoor units	Control box	Expansion Valve Kits EKEXVA***														
			EKEACB	EKEXVA50	EKEXVA63	EKEXVA80	EKEXVA100	EKEXVA125	EKEXVA140	EKEXVA200	EKEXVA250	EKEXVA300	EKEXVA350	EKEXVA400	EKEXVA450	EKEXVA500	
ERA	ERA100AV1	P	-	P	P	P	-	-	-	-	-	-	-	-	-	-	-
	ERA125AV1	P	-	-	-	P	P	-	-	-	-	-	-	-	-	-	-
	ERA140AV1	P	-	-	-	P	P	P	-	-	-	-	-	-	-	-	-
	ERA100AY	P	-	P	P	P	-	-	-	-	-	-	-	-	-	-	-
	ERA125AY	P	-	-	-	P	P	P	-	-	-	-	-	-	-	-	-
	ERA140AY	P	-	-	-	P	P	P	-	-	-	-	-	-	-	-	-
	ERA200AYF	P	-	-	-	-	-	-	P	P	-	-	-	-	-	-	-
	ERA250AYF	P	-	-	-	-	-	-	P	P	-	-	-	-	-	-	-
ERQ	ERA300AYF	P	-	-	-	-	-	-	P	P	P	P	P	P	-	-	-
	ERQ100A7V1B	P	-	P	P	P	P	P	-	-	-	-	-	-	-	-	-
	ERQ125A7V1B	P	-	P	P	P	P	P	-	-	-	-	-	-	-	-	-
	ERQ140A7V1B	P	-	-	P	P	P	P	P	-	-	-	-	-	-	-	-
	ERQ125A7W1B	P	-	P	P	P	P	P	P	-	-	-	-	-	-	-	-
	ERQ200A7W1B	P	-	-	-	P	P	P	P	P	-	-	-	-	-	-	-
	ERQ250A7W1B	P	-	-	-	-	P	P	P	P	P	-	-	-	-	-	-
	H/P (RYYQ, RXYQ, RXYSQ, RXYTQ, RXYLQ, RXYS(C)Q, RWEYQ (H/P))	P/M	P/M (65% <sup>[1]</sup> < CR < 110%)														
VRV VI + [R410A]	VRV-i (RXYQ)	P/M <sup>[2]</sup>	P/M (65% <sup>[1]</sup> < CR < 110%)														
	H/R (REYQ, RWEYQ (H/R))	M <sup>[3]</sup>	M <sup>[3]</sup> (65% <sup>[1]</sup> < CR < 110%)														
VRV 5 [R-32]	H/P (RXYSQ, RXYA)	P/M	P/M (65% <sup>[1]</sup> < CR < 110%)														
	H/R REYA	M <sup>[3]</sup>	M <sup>[3]</sup> (65% <sup>[1]</sup> < CR < 110%)														

P: Pair combination - One or more outdoor units connected to an (interlaced) coil of one AHU.

M: Mix or multi application - Combination of (multiple) AHU(s) with (mix application) or without (multi application) VRV DX indoor(s).

[1] For 65% < CR < 75% please refer to the specifically required coil size

[2] Only Z or Z' control possible (no interlaced coils)

[3] Only Z or Z' control possible (no interlaced coils). Technically is possible to connect H/R in pair application, but this carries no benefit

**Size**  
**EKEXV63 now compatible with ERA100**



**EKEXVA** electronic expansion valve (fully brazed and wired in case of a Daikin AHU)

DX coil

EKEA control box (fully mounted and wired in case of a Daikin AHU)



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