

1. System layout

Determine the layout of the system:

Definition of different system layouts:

	AHU with single circuit HEX	AHU with interlaced HEX ¹	AHU with interlaced HEX ¹
Pair AHU layout (1 outdoor unit or 1 outdoor unit system or multiple outdoor units to 1 AHU)			
Multi AHU layout (1 outdoor unit or 1 outdoor unit system to multiple AHUs)	Combination of several AHUs (with a single circuit HEX or interlaced HEX ¹)		
	This figure shows AHUs with a single circuit HEX		
Mix AHU layout (1 outdoor unit or 1 outdoor unit system to a mix of AHUs and VRV DX indoor units)	One or several AHUs (with single circuit or interlaced HEX ¹)		
	This figure shows AHUs with a single circuit HEX		

¹ Interlaced HEX is a HEX split in several separate circuits called interlaces

2. Application type: fresh air or 100% recirculation application

Determine whether the AHU will be used for fresh air or 100% recirculation applications.

Fresh air application: In this scenario, the primary role of the AHU is to provide ventilation by introducing external fresh air into the connected space. Some of the air processed by the AHU’s heat exchanger comes from the outdoors. This is important for maintaining an appropriate indoor air quality in the connected space.

100% recirculation application: The AHU functions as an indoor unit. The on-coil temperature of the AHU matches the temperature of the conditioned space. All the air that passes through the AHU’s heat exchanger is recirculated air from within the building or connected space.