

Technical Bulletin

Number	088
Subject	Hitachi IVX C & P Selection
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On the **Hitachi IVX C & P** systems you can have a diversity range of 50% to 120% but there are some restrictions. This applies mainly to a “minimum capacity size” when mixing and matching units of different capacities.

This is critical to the design of the system. We advise that all designs are checked with Logicool Air Conditioning Distribution Limited.

IVX C – Standard

◆ IVX Standard series

	 Outdoor unit model			
	3 HP	4 HP	5 HP	6 HP
Maximum number of connected indoor units	2		4	
Connected capacity ratio of indoor unit % (number of connected Indoor Units)	90-110% (1 unit)		90-115% (≤ 2 units)	
	90-100% (2 units)		90-100% (3 or 4 units)	
Minimum capacity of indoor units (HP)	0.8			

	 Outdoor unit model		
	8 HP	10 HP	12 HP
Maximum number of connected indoor units	4		
Connected capacity ratio of indoor unit % (number of connected indoor units)	90-115%		
Minimum capacity of indoor units (HP)	1.8		

IVX P – Premium

◆ IVX Premium series

	 Outdoor unit model					
	2 HP (**)	2.5 HP (***)	3 HP	4 HP	5 HP	6 HP
Maximum number of connected indoor units	2		3	5	6	
Connected capacity ratio of indoor unit % (number of connected indoor units)	90-110% (1 unit)		50-120% (≤ 2 units)		50-120% (≤ 4 units)	
	90-100% (2 units) (*)		50-100% (3 units) (*)	50-100% (5 units) (*)	50-100% (5 or 6 units) (*)	
Minimum capacity of indoor units (HP)	0.8					

	 Outdoor unit model		
	8 HP	10 HP	12 HP
Maximum number of connected indoor units	8		
Connected capacity ratio of indoor unit % (number of connected indoor units)	50-120% (≤ 4 units)		
	50-100% (5, 6, 7 or 8 units) (*)		
Minimum capacity of indoor units (HP)	0.8		

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IMPORTANT NOTICE

If you have a Multi Split system, there are restrictions on the size of the smallest fan coil unit you can use, depending on the size of largest fan coil used.

Indoor unit with the highest capacity (HP)	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.5	3.0	4.0	5.0	6.0
Indoor Unit with the lowest capacity (HP)	0.8		1.0			1.3		1.5		1.8		2.0

In the above table you can see, if you use a 6HP the smallest FCU unit you can also have on the system is a 2HP.

If all of the indoor units selected are the **High Efficiency** 4 way blow cassettes (FSN3, not standard FSN3Ei) the capacity is limited to 100% diversity and there are restrictions on the maximum number of units that can be connected.

OU model	2 HP	2.5 HP	3 HP	4 HP	5 HP	6 HP	8 HP	10 HP	12 HP
OU Premium Series Maximum number of IU	1	2	4		4				
OU Standard Series Maximum number of IU	--	1	2		4				

When using Hitachi H-Tool Kit software it is important to observe these rules otherwise the system selection will not be recognised.