

Johnson Controls – Hitachi Air Conditioning

SET FREE Σ (Gen 2 ODU) : HAPQ \rightarrow JCH-IN







HITACHI

New SET FREE Σ Range

										nditioning solutions
HP		8	10	12	14	16	18	20	22	24
SET FREE FSXNK	Appearance	12								
	Dimension (WxDxH)	950 x 76	5 x 1720							
	Compressor	INV-50CC	I	NV-65CC	INV-65 + Cor	INV-65 + Const-E855				
	Heat Exchanger	2 Row	3 Row		3 Row		•			
	Fan Quantity (Dia.)		1 No. (644 mm)							

SET FREE Σ	Appearance	HITAC	-	нтасні		HITACHI			
	Dimension (WxDxH)	950 x 765 x	: 1725	1210 x 765 x 1725			1600 x 765 x 1725		
	Compressor	AA50PHD	D	C80PHD	AA50PHD +AA50PHD		DC80PHD+DC80PHD		
	Heat Exchanger	2 Row (U shape)	2 Row (U shape) 3 Row (U shape)		pe)	3 Row (W Shape)			
	Fan Quantity (Dia.)	1 No. (644	2 No. (544 m	m)	2 No. (644mm)				

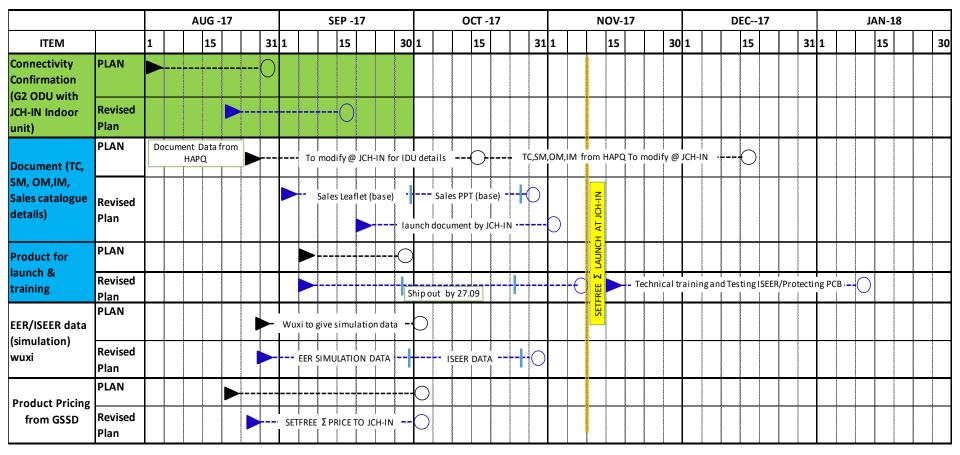
- > SET FREE Σ modular ODU combination goes upto 96 HP (24HPx4).
- >> SET FREE Σ modular ODU working range is upto 48 DegC (stable) and 52 DegC (Inter (3) Johnson Controls Hitachi Air Conditioning



Air conditioning solutions

SET FREE Σ launch activity plan

SETFREE Σ (WUXI base Design) to JCH-IN (8.0 HP to 24 HP)



- HAPQ dispatched sample odu on 5th Oct'17 for launch.
- Global Marketing team provided sales leaflet by Sept' end and will provide base sales PPT by

Oct' end. JCH-IN to modify content & prepare for launch sales catalogue and PPT.



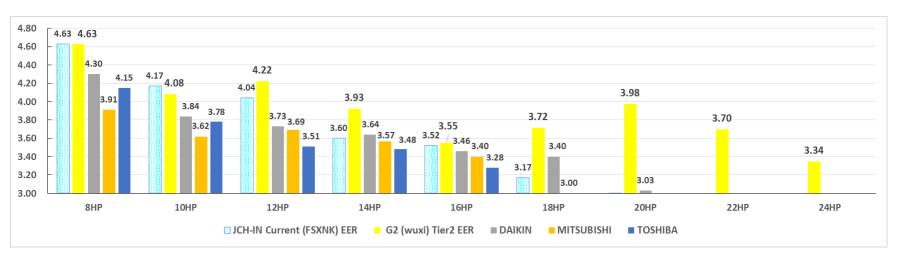
Performance Comparison

HITACHI Air conditioning solutions

Cooling EER

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ltem s	8H P	10H P	12H P	14H P	16H P	18H P	20H P	22H P	24H P
DU Combination	1.0HP ×1 1.5HP ×1 3.0HP ×2	1.5HP ×1 3.0HP ×3	1.5HP ≯4 3.3HP ≯2	1.5HP ×2 3.0HP ×4	1.5HP ×1 3.0HP ×4 3.3HP ×1	3.0HP ×3 3.3HP ×3	1.5HP ×2 3.0HP ×6	1.5HP ×1 3.0HP ×6 3.3HP ×1	3.0HP ×3 3.3HP ×5
G 2 (wuxi) Tier2 EER	4.63	4.08	4.22	3.93	3.55	3.72	3.98	3.70	3.34
JCH-N Current(FSXNK)	4.63	4.17	4.04	3.60	3.52	3.17	M odu le C om b ination		
DAKN	4.30	3.84	3.73	3.64	3.46	3.40	3.03 <i>Module Combination</i>		om bination
M IT SUBISH I	3.91	3.62	3.69	3.57	3.40	3.00	Module Combination		
TO SH BA	4.15	3.78	3.51	3.48	3.28		Module Combination		



- > SET FREE Σ series (G2 ODU) EER is simulation data considering HAPQ K3 4 way cassette unit.
- > JCH IN has asked to provide data using best cassette Indoor unit.



Sales price to JCH-IN:

> JCH-IN is waiting for final sales price of the Gen2 ODU from GSSD.

Gen 2 ODU (Open discussion points)

ISEER Data from Wuxi:

- Wuxi Shared ISEER data on 23rd Oct'17, Discussion is ON to understand the data as deration at 39 DegC seems to be higher than existing JCH-IN (FSXNK) ODU
- We have asked Wuxi to share comparative EER/ISEER simulation data using similar configuration of cassette IDUs as used by SMZ for FSXNK data calculation.

Technical Training to JCH-IN Team:

We are discussing Wuxi/HAPQ technical member to visit JCH-IN to give technical training to Design/service and sales team members (sample odu received for Launch can be used for training).

Packing style confirmation:

JCH-IN team will check packing style (strength) on sample ODUs once the ODU reach at Delhi for launch and will confirm to Wuxi if there is some need to improve.

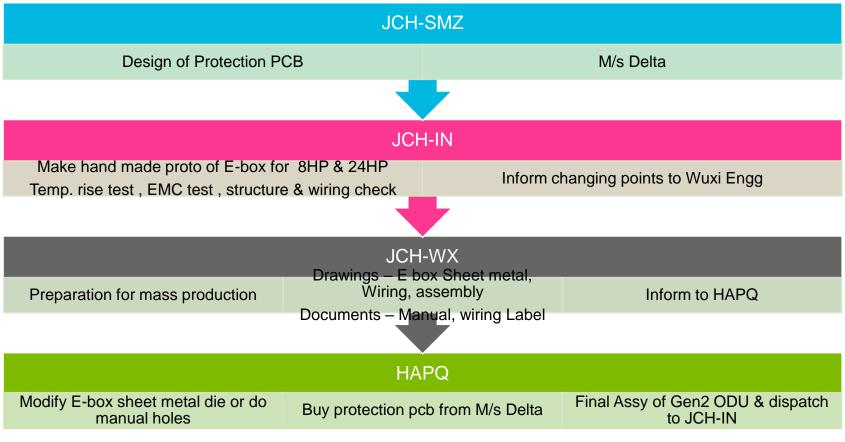
Johnson

Gen 2 ODU (Open discussion points)

Protection PCB :

> Small Protection PCB with Magnetic switch will be used for random power ON delay & under /

over voltage protection on input mains supply.



> Full schedule of implementation of Protection PCB as running change will be shared by

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