



R410A

Non Inverter

High Static
Ducted Unit



R410A

FBHVN-0215-A

Indoor Unit (Single Skin Ducted Type)

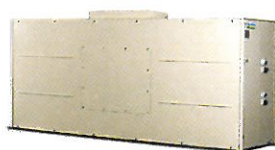
Outdoor Model



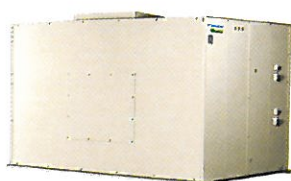
FBHN80/100HBV1X



FBHN125/150HBV1C



FBVN200H2BY1C



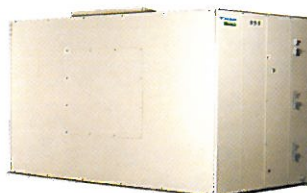
FBVN250/300H2BY1C



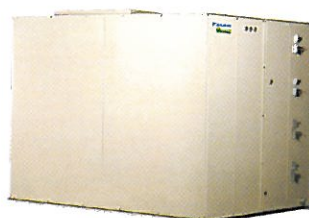
FBVN300/350H3BY1C



FBVN400/500H4BY1C



FBVN450H3BY1C



FBVN600H4BY1X



FBVN750H5BY1X



RHN80HPY1X



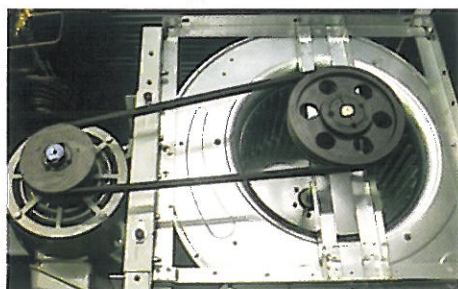
RVN100/125/150HPY1C

● R410A : Ozone-friendly refrigerant

R410A refrigerant has no chlorine content which do not contribute to the depletion of ozone layer

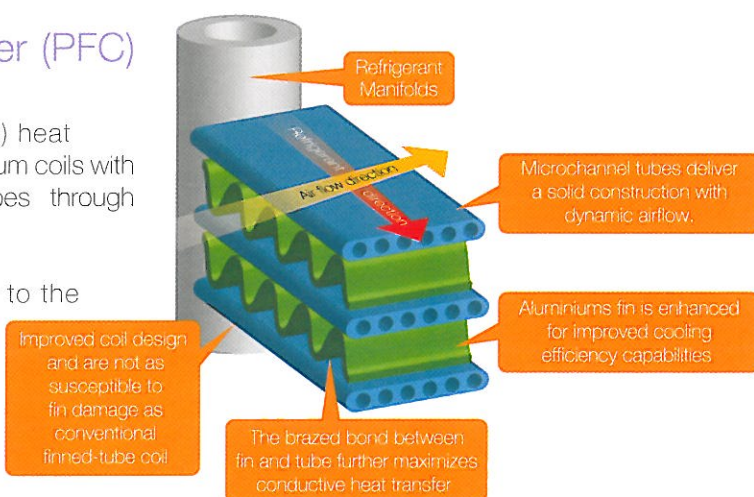
● Changeable drive package

Non-standard external static pressure and air flow requirement can be sized by changing the factory fitted drive package (for belt driven model only).



● Parallel flow condenser (PFC) heat exchanger

- Parallel flow condenser (PFC) heat exchanger utilizes whole aluminium coils with multiple flat microchannel tubes through which refrigerant flow.
- As air travels perpendicular to the refrigerant flow, it provides more contact surface area with microchannel tube, therefore increasing the heat transfer performance.



● Features of PFC Heat Exchanger

- Resistant to galvanic corrosion due to similar properties of material (aluminium) used in the construction of the heat exchanger.
- The total piping length can be extended up to 75 meters, and offers more flexibility in system design
- Easy handling due to compact design of microchannel tube and light weight of aluminium.
- Reduce refrigerant charge thanks to its compact design of PFC heat exchanger
- Robust and easy to clean by using high pressurized water.

● Anti-corrosion Evaporator

R410A ducted blower H-series come standard with hydrophilic coating fin to ensure optimum system effectiveness and durability.

● Part Load operation

The modular unit configuration allows units to operate under partial load condition to meet the required cooling capacity. When any unit is on standby for maintenance or repair, the other condensing units continue to function to cool the premise.

● High efficiency scroll compressor

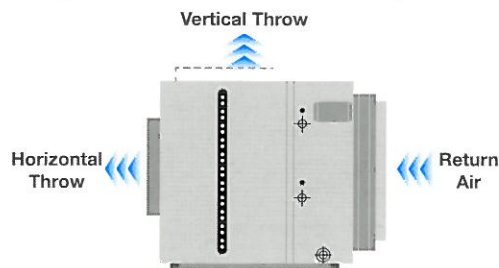
R410A ducted blower H-series is powered by highly energy efficient and reliable scroll type compressor, offering user the vital advantage of quiet operation and efficient cooling.

● Rigid foundation

H-series units are made of electro-galvanized mild steel casing, which are coated with epoxy polyester for protection against corrosion.

● Indoor Air Throw direction

The choices of vertical and horizontal air throw make it versatile to various architectural design (125,000 Btu/hr and above).



● Safety features

- Built in internal overload protection for compressor
- High and low pressure protection
- Phase sequencer to detect for any wrong phase and phase loss during installation and operation

R410A High Static Ducted Type

MODEL	INDOOR UNIT OUTDOOR UNIT		FBHN80HBV1X RHN80HPY1X	FBHN100HBV1X RVN100HPY1C	FBHN125HBV1C RVN125HPY1C	FBHN150HBV1C RVN150HPY1C
NOMINAL COOLING CAPACITY	Btu/hr		80,000	100,000	125,000	150,000
	W		23.447	29.308	36.635	43.962
NOMINAL TOTAL INPUT POWER	W		7,100	10,000	11,350	14,800
NOMINAL RUNNING CURRENT - 1 ϕ [3 ϕ]	A		[12.5]	[17.1]	[19.7]	[28.7]
EER	Btu/hr / W		11.27	10.00	11.01	10.14
POWER SOURCE	V/Ph/Hz		380-415 / 3 / 50			
REFRIGERANT TYPE/ CONTROL			R410A / INDOOR TXV + CAPTUBE			
EXTERNAL STATIC PRESSURE	Pa (in.wg)		100 / 0.40	100 / 0.40	150 / 0.6	150 / 0.6
AIR FLOW	l/s / CFM		1,086 / 2,300	1,416 / 3,000	1,770 / 3,750	2,124 / 4,500
SOUND PRESSURE LEVEL (MEASURED IN SOUND ROOM)	dBA		52	55	53	56
UNIT DIMENSION - HxWxD	INDOOR UNIT	mm	553 x 1402 x 605		776 x 1,540 x 850	
	OUTDOOR UNIT	mm	929 x 1235 x 496	1,067 x 880 x 880	1,067 x 980 x 980	1,166 x 980 x 980
UNIT WEIGHT	INDOOR UNIT	kg	83	84	159	
	OUTDOOR UNIT	kg	111	135	157	177
COPPER PIPE SIZE	LIQUID	mm/in	12.7 / 1/2	12.7 / 1/2	12.7 / 1/2	15.88 / 5/8
	GAS	mm/in	22.23 / 7/8	25.4 / 1.0	28.58 / 1-1/8	34.93 / 1-3/8

MODEL	INDOOR UNIT OUTDOOR UNIT		FBVN200H2BY1C RVN100HPY1C X 2	FBVN250H2BY1C RVN125HPY1C X 2	FBVN300H2BY1C RVN150HPY1C X 2	FBVN300H3BY1C RVN100HPY1C X 3	FBVN350H3BY1C RVN100HPY1C	RVN125HPY1C X 2
NOMINAL COOLING CAPACITY	Btu/hr		200,000	250,000	300,000	300,000	350,000	
	W		58,617	73,271	87,925	87,925	102,579	
NOMINAL TOTAL INPUT POWER	W		19,700	23,880	30,520	29,710	34,550	
NOMINAL RUNNING CURRENT- 1 ϕ [3 ϕ]	A		[35.1]	[40.6]	[58.7]	[52.60]	[60.4]	
EER	Btu/hr / W		10.15	10.47	9.83	10.10	10.13	
POWER SOURCE	V/Ph/Hz		380-415 / 3 / 50					
REFRIGERANT TYPE/ CONTROL			R410A / INDOOR TXV + CAPTUBE					
EXTERNAL STATIC PRESSURE	Pa (in.wg)		200 / 0.8	200 / 0.8	200 / 0.8	200 / 0.8	200 / 0.8	
AIR FLOW	l/s / CFM		2,832 / 6,000	3,540 / 7,500	4,248 / 9,000	4,248 / 9,000	4,956 / 10,500	
SOUND PRESSURE LEVEL (MEASURED IN SOUND ROOM)	dBA		61	63	66	66	66	
UNIT DIMENSION - HxWxD	INDOOR UNIT	mm	885 x 1,794 x 850		1,231 x 1,766 x 1,069		1,486 x 2,022 x 1,069	
	OUTDOOR UNIT	mm	(1,067 x 880 x 880) x 2	(1,067 x 980 x 980) x 2	(1,166 x 980 x 980) x 2	(1,067 x 880 x 880) x 3	1,067 x 880 x 880	(1,067 x 980 x 980) x 2
UNIT WEIGHT	INDOOR UNIT	kg	196	323	337	337	431	
	OUTDOOR UNIT	kg	135 x 2	157 x 2	177 x 2	135 x 3	135	157 x 2
COPPER PIPE SIZE	LIQUID	mm/in	12.7 / 1/2	12.7 / 1/2	15.88 / 5/8	12.7 / 1/2	12.7 / 1/2	12.7 / 1/2
	GAS	mm/in	25.4 / 1.0	28.58 / 1-1/8	34.93 / 1-3/8	25.4 / 1.0	25.4 / 1.0	28.58 / 1-1/8

MODEL	INDOOR UNIT OUTDOOR UNIT		FBVN400H4BY1C RVN100HPY1C X 4	FBVN450H3BY1C RVN150HPY1C X 3	FBVN500H4BY1C RVN125HPY1C X 4	FBVN600H4BY1X RVN150HPY1C X 4	FBVN750H5BY1X RVN150HPY1C X 5
NOMINAL COOLING CAPACITY	Btu/hr		400,000	450,000	500,000	600,000	750,000
	W		117,233	131,887	146,542	175,850	219,812
NOMINAL TOTAL INPUT POWER	W		39,330	45,930	49,990	61,620	78,640
NOMINAL RUNNING CURRENT- 1 ϕ [3 ϕ]	A		[70.2]	[89.3]	[85.6]	[118.9]	[152.1]
EER	Btu/hr / W		10.17	9.80	10.00	9.74	9.54
POWER SOURCE	V/Ph/Hz		380-415 / 3 / 50				
REFRIGERANT TYPE/ CONTROL			R410A / INDOOR TXV + CAPTUBE				
EXTERNAL STATIC PRESSURE	Pa (in.wg)		250 / 1.0	250 / 1.0	250 / 1.0	300 / 1.2	350 / 1.4
AIR FLOW	l/s / CFM		5,664 / 12,000	6,372 / 13,500	7,080 / 15,000	8,496 / 18,000	10,620 / 22,500
SOUND PRESSURE LEVEL (MEASURED IN SOUND ROOM)	dBA		66	68	68	70	71
UNIT DIMENSION - HxWxD	INDOOR UNIT	mm		1,486 x 2,174 x 1,336		1,918 x 2,174 x 1,775	2,197 x 2,174 x 1,775
	OUTDOOR UNIT	mm	(1,067 x 880 x 880) x 4	(1,166 x 980 x 980) x 3	(1,067 x 980 x 980) x 4	(1,166 x 980 x 980) x 4	(1,166 x 980 x 980) x 5
UNIT WEIGHT	INDOOR UNIT	kg	488	533	580	899	946
	OUTDOOR UNIT	kg	135 x 4	177 x 3	157 x 4	177 x 4	177 x 5
COPPER PIPE SIZE	LIQUID	mm/in	12.7 / 1/2	15.88 / 5/8	12.7 / 1/2	15.88 / 5/8	15.88 / 5/8
	GAS	mm/in	25.4 / 1.0	34.93 / 1-3/8	28.58 / 1-1/8	34.93 / 1-3/8	34.93 / 1-3/8

1. DUE TO PRODUCT INNOVATION, ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE
2. ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 13253
3. NOMINAL COOLING CAPACITY ARE BASED ON THE CONDITIONS BELOW:
COOLING - 26.7°C DB / 19.4°C WB INDOOR AND 35°C DB / 23.9°C WB OUTDOOR
4. SOUND PRESSURE LEVEL ARE MEASURED IN SOUND ROOM, SOMEHOW DURING ACTUAL OPERATION, THE SOUND PRESSURE LEVEL WILL BE HIGHER AS A RESULT OF ROOM SPECIFICATION CONDITION
5. THE RUNNING CURRENT MEASURED AT SITE MAY VARY FROM THE SPECIFICATIONS STATED
6. FOR DIFFERENT INDOOR/OUTDOOR AIR THROW, KINDLY REFER TO OUR NETWORK DEVELOPMENT EXECUTIVES / REPRESENTATIVES

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