Specification (PI)

Model : FBP13AA

No. 52-07-020

ltem			Unit	Specification		
Model / Series / Bland			-	FBP13AA / PAFMAC / PMAC		
modely series y blan		FCU	BTU/Hr	2,700		
Performance *1	Cooling Capacity	FCU and HP	BTU/Hr	6,800 (6,500 ~ 7,800)		
	Cooling Capacity with		BTU/Hr	3,100 (2,000~3,800)		
		FCU	BTU/Hr	3,100		
	Heating Capacity	FCU and HP	BTU/Hr	7,800 (4,800~9,200)		
	Heating Canacity with		BTU/Hr BTU/Hr	3,100 (2,700~3,400)		
	Heating Capacity with Chilled Water Cooling FCU		(BTU/Hr)/W	60.7		
	TPIR *2	Cooling FCU and HP	(BTU/Hr)/W	47.1		
		Cooling (with Hot Water)				
		Heating FCU	(BTU/Hr)/W	68.2		
		Heating FCU and HP	(BTU/Hr)/W	22.4		
		Heating (with Chilled Water)	(BTU/Hr)/W	11.4		
Power Source	<u> </u>	Heating (with Chilled Water)	(BTU/HI)/W			
Power source	Ca alia a	Derver Consumption	-	115V (104V~126V) 1 Phase 60Hz 0.145 (0.135~0.235)		
	Cooling	Power Consumption	kW			
	FCU and HP	Operating Current • Power Factor '	A • %	1.7 (1.6 ~ 2.7)A • 74%		
	Cooling	Power Consumption	kW	0.480 (0.350~0.650)		
	(with Hot Water)	Operating Current • Power Factor '	A • %	5.4 (3.8~7.1)A • 77%		
Electrical	Heating	Power Consumption	kW	0.350 (0.100~0.590)		
Characteristics *1	FCU and HP	Operating Current • Power Factor '	A•%	4.1 (1.2~6.5)A • 74%		
	Heating	Power Consumption	kW	0.270 (0.230~0.330)		
	(with Chilled Water)	Operating Current • Power Factor '	A•%	3.1 (2.7 ~ 3.7)A • 76 %		
	FCU only	Power Consumption	kW	0.045		
		Operating Current • Power Factor '	A•%	0.57A • 69%		
Minimum circuit amp	, , ,		A	10		
Maximum rating of o	overcurrent protective	device (MOP)	A	15		
Compressor	Type • Rated Outpu	t x Quantity	kW	Full Hermetic Rotary Type • 0.3 kW x 1		
	Fan Type x Quantity	Fan Type x Quantity		Double Suction Centrifugal Fan x 1		
Fan System	Air Vol.		CFM	High : 177, Middle : 141, Low : 106		
ran system	Ex-unit Static Pressure		In. Water	0.12		
	Fan Motor Rated Out	put	kW	0.03		
Air	Suction Tomp	For Cooling	۴	63 ~ 90		
All	Suction Temp	For Heating	۴	63~82		
	Inlet Temp.	For Cooling	F	45 (45 ~ 113)		
	(Annual option)	For Heating	۴	113 (45~113)		
Chilled / Het Water	Water Press		PSI	0~142		
Chilled / Hot Water	Water Vol.		GPM	0.8 (0.6~1.0)		
	Water Press. Loss		PSI	1.9		
	Water Contained		Gallon	0.26		
Air Heat Exchanger			—	Plate Fin Type		
Water Heat Exchange	er		_	Plate Type		
Refrigerant (GWP) •	Quantity		lbs	R410A (GWP 2090) • 0.93 lb		
Protection Device	Compressor		_	Thermostat, Current Transformer		
	Fan Motor		-	DC Over Current, Thermal Cut-Off		
	Refrigerant Cycle		-	High-Pressure Switch		
	Control Circuit		—	Fuse		
	Others		-	Drain Sensor		
	Chilled / Hot Water Inlet • Outlet		_	NPT3/4 (Male)		
Piping Connection Part	Drainage Outlet		Inch	OD \$ 1		
Power Supply Conne	÷		_	Terminal block (M5)		
Outer Dimensions	Height • Width • D	Depth	Inch	9 3/4 • 23 5/8 • 22 3/8		
Unit Weight		1 ·	lbs	112		
Accessories				PI Jumper Cable		
ACCE33011E3				ттапрет саме		

Note

1. The heating and cooling capacity and electrical characteristics are measured under the measurement conditions in Table 1 and are the values at 115V.(Refer to *1) Table 1. Performance and electrical characteristics measurement conditions

	Inlet air		Inlet water		
	D.B. Temp.	W.B. Temp.	Temp.	water volume	
Cooling Capacity	80 F	67 F	45 F	standard water volume	
Cooling Capacity with Hot Water	80 F	67 F	113 F	standard water volume	
Heating Capacity	70 F		113 F	standard water volume	
Heating Capacity with Chilled Water	70 F		45 F	standard water volume	

2. TPIR stands for Total performance per Power Input Ratio, and it is shown as follows: (Refer to *2) TPIR = (FCU capacity + HP capacity) / Power consumption
 3. The values of power factor is "overall power factor value". (Refer to *3)
 4. Electric Leakage Breaker is recommended, or follow the local electric code.
 5. FCU" and "HP" in the table represent the fan coil and heat pump, respectively.
 6. The compressor's heat is considered as an equivalent of work (power consumption W) for the heat source capacity.
 7. Specifications are cubiest to chapten without paties advanced Place versity the provident photoe or

7. Specifications are subject to change without notice advanced. Please verify the specification before or

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Item			Unit	Specification		
Model / Series / Blan	d		-	FBP13AA / PAFMAC / PMAC		
,,,	I	FCU	kW	0.8		
	Cooling Capacity	FCU and HP	kW	2.0(1.9~2.3)		
	Cooling Capacity with		kW	0.9(0.6~1.1)		
	cooling suprairy ma	FCU	kW	0.9		
	Heating Capacity	FCU and HP	kW	2.3(1.4~2.7)		
	Heating Canacity with		kW	0.9(0.8~1.0)		
Performance *1	ricating capacity with	Heating Capacity with Chilled Water		17.8		
	T P I R *2	Cooling FCU Cooling FCU and HP	kW/kW kW/kW	13.8		
		Cooling (with Hot Water)	kW/kW	1.88		
			Heating FCU kW/kW 20.0			
		0		6.57		
		Heating FCU and HP	kW/kW			
) C		Heating (with Chilled Water)	kW/kW	3.33		
Power Source			-	115V(104V~126V) 1 Phase-60		
	Cooling	Power Consumption	kW	0.145(0.135~0.235)		
	FCU and HP	Operating Current • Power Factor *3	A • %	1.7(1.6~2.7) • 74		
	Cooling	Power Consumption	kW	0.480(0.350~0.650)		
	(with Hot Water)	Operating Current • Power Factor *3	A • %	5.4(3.8~7.1) • 77		
lectrical	Heating	Power Consumption	kW	0.350(0.100~0.590)		
Characteristics *1	FCU and HP	Operating Current • Power Factor *3	A•%	4.1(1.2 ~ 6.5) • 74		
	Heating	Power Consumption	kW	0.270(0.230~0.330)		
	(with Chilled Water)	Operating Current • Power Factor *3	A•%	3.1(2.7 ~ 3.7) • 76		
	FCU	Power Consumption	kW	0.045		
	100	Operating Current • Power Factor *3	A•%	0.57 • 69		
Vinimum circuit amp	pacity (MCA)		A	10		
Maximum rating of o	overcurrent protective	device (MOP)	A	15		
Compressor	Type • Rated Output	t x Quantity	kW	Full Hermetic Rotary Type • 0.3 x 1		
	Fan Type x Quantity		— m³∕min	Double Suction Centrifugal Fan x 1		
Fan System	Air Vol.	Air Vol.		High:5, Middle:4, Low:3		
Fan System	Ex-unit Static Pressure		Pa	30		
	Fan Motor Rated Output		kW	0.03		
A :	Custian Tanan	For Cooling	°C	17~32		
Air	Suction Temp	For Heating	°C	17~28		
	Inlet Temp.	For Cooling	°C	7 (7~45)		
	(Annual option)	For Heating	°C	45 (7~45)		
	Water Press		kPa	0~980		
Chilled / Hot Water	Water Vol.			3.0 (2.4~3.6)		
	Water Press. Loss		kPa	13		
	Water Contained		L	1.0		
Air Heat Exchanger			-	Plate Fin Type		
Water Heat Exchange	er		-	Plate Type		
Refrigerant (GWP) •			kg	R410A (2090) • 0.42		
	Compressor			Thermostat, Current Transformer		
	Fan Motor		1 - 1	DC Over Current, Thermal Cut-Off		
Protection Device	Refrigerant Cycle		-	High-Pressure Switch		
	Control Circuit			Fuse		
	Others			Drain Sensor		
	Chilled / Hot Water Inlet • Outlet			NPT3/4 (Male)		
Piping Connection Part	Drainage Outlet			OD¢26		
Power Supply Conne	-		mm —	•		
11 /	1	Venth		Terminal block (M5)		
Outer Dimensions Height • Width • Depth		mm	250 • 600 • 570			
Unit Weight			kg	51		
Accessories				PI Short-Circuit Line		

Note

1. The heating and cooling capacity and electrical characteristics are measured under the measurement conditions in Table 1 and are the values at 115V.(Refer to *1) Table 1. Performance and electrical characteristics measurement conditions

	Inlet air		Inlet water	
	D.B. Temp.	W.B. Temp.	Temp.	water volume
Cooling Capacity	26.7°C	19.4°C	7°C	standard water volume
Cooling Capacity with Hot Water	26.7°C	19.4°C	45°C	standard water volume
Heating Capacity	21.1°C		45°C	standard water volume
Heating Capacity with Chilled Water	21.1°C		7°C	standard water volume

2. TPIR stands for Total performance per Power Input Ratio, and it is shown as follows: (Refer to *2) TPIR = (FCU capacity + HP capacity) / Power consumption
3. The values of power factor is "overall power factor value". (Refer to *3)
4. Eletric Leakage Breaker is recommended, or follow the local eletric code.
5. FCU" and "HP" in the table represent the fan coil and heat pump, respectively.
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