

4.1.3 FBA

HSP Concealed Ducted Unit

Model	Indoor unit		FBA18AAVJU	FBA24AAVJU
	Outdoor unit		RZA18AAVJU	RZA24AAVJU
Power supply			1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4		Btu/h (kW)	18,000 (5.3)	24,000 (7.0)
Heating capacity ★2, ★4		Btu/h (kW)	20,000 (5.9)	27,000 (7.9)
Heating capacity ★3, ★4		Btu/h (kW)	14,000 (4.1)	19,000 (5.6)
EER2 (rated)		Btu/h-W	13.5	11.7
SEER2 (rated)			16.3	16.2
HSPF2 (rated)			8.5	9.3
Indoor unit			FBA18AAVJU	FBA24AAVJU
Casing/color			Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D	in. (mm)	9–11/16 × 39–3/8 × 31–1/2 (245 × 1,000 × 800)	9–11/16 × 39–3/8 × 31–1/2 (245 × 1,000 × 800)
Coil	Type		Cross fin coil	Cross fin coil
	Type		Sirocco fan	Sirocco fan
Fan	Motor output		163	163
	Airflow rate (H / M / L)	cfm (m³/min)	635 / 565 / 512 (18.0 / 16.0 / 14.5)	742 / 635 / 565 (21.0 / 18.0 / 16.0)
	External static pressure		in.H ₂ O (Pa)	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5
	Air filter			— ★6
Weight		lbs (kg)	82 (37)	84 (38)
Piping connections	Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
	Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
	Drain	in. (mm)	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1–1/4 (32), internal dia. 1 (26))
Remote controller (accessory)	Wired		BRC1NRV71	BRC1NRV71
	Wireless		—	—
Outdoor unit			RZA18AAVJU	RZA24AAVJU
Casing/color			Ivory white	Ivory white
Dimensions	H × W × D	in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)
Coil	Type		Cross fin coil	Cross fin coil
	Type		Hermetically sealed swing type	Hermetically sealed swing type
Compressor	Motor output		1.9	2.4
	Type		Propeller fan	Propeller fan
Fan	Motor output		234	234
	Airflow rate	cfm (m³/min)	3,000 (85)	3,000 (85)
	Weight		lbs (kg)	234 (106)
Piping connections	Liquid	in. (mm)	ϕ3/8 (ϕ9.5) (flare connection)	ϕ3/8 (ϕ9.5) (flare connection)
	Gas	in. (mm)	ϕ5/8 (ϕ15.9) (flare connection)	ϕ5/8 (ϕ15.9) (flare connection)
	Drain	in. (mm)	ϕ1 (ϕ26) (hole)	ϕ1 (ϕ26) (hole)
Safety devices			High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)
Capacity step		%	14 - 100	14 - 100
Refrigerant control			Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length	ft (m)	25 (7.6)	25 (7.6)
	Max. length	ft (m)	230 (70)	230 (70)
	Max. height difference	ft (m)	98 (30)	98 (30)
Refrigerant	Type		R32	R32
	Charge	lbs (kg)	7.5 (3.4)	7.5 (3.4)
Ref. oil	Type		DAPHNE FW68DE	DAPHNE FW68DE
	Charge	L	1.52	1.52

Notes:

- ★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (–8.3°CDB), 15°FWB (–9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5. External static pressure is changeable in 14 stages within the range in parentheses by remote controller.
- ★6. Air filter is not standard accessory, but please mount it in the duct system of the suction side.
Select its dust collection efficiency (gravity method) 50% or more.

C: 4D154510B

HSP Concealed Ducted Unit, continued

Model	Indoor unit		FBA30AAVJU	FBA36AAVJU
	Outdoor unit		RZA30AAVJU	RZA36AAVJU
Power supply			1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4	Btu/h (kW)		30,000 (8.8)	36,000 (10.6)
Heating capacity ★2, ★4	Btu/h (kW)		34,000 (10.0)	40,000 (11.7)
Heating capacity ★3, ★4	Btu/h (kW)		24,000 (7.0)	28,000 (8.2)
EER2 (rated)	Btu/h-W		12.4	11.8
SEER2 (rated)			16.5	16.9
HSPF2 (rated)			8.9	8.8
Indoor unit		FBA30AAVJU		FBA36AAVJU
Casing/color			Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D	in. (mm)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)
Coil	Type		Cross fin coil	Cross fin coil
	Type		Sirocco fan	Sirocco fan
Fan	Motor output	W	390	390
	Airflow rate (H / M / L)	cfm (m ³ /min)	1,094 / 936 / 795 (31.0 / 26.5 / 22.5)	1,130 / 953 / 795 (32.0 / 27.0 / 22.5)
	External static pressure	in.H ₂ O (Pa)	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5
	Air filter		— ★6	— ★6
Weight		lbs (kg)	101 (46)	101 (46)
Piping connections	Liquid	in. (mm)	φ3/8 (φ9.5) (flare connection)	φ3/8 (φ9.5) (flare connection)
	Gas	in. (mm)	φ5/8 (φ15.9) (flare connection)	φ5/8 (φ15.9) (flare connection)
	Drain	in. (mm)	VP25 (external dia. 1-1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1-1/4 (32), internal dia. 1 (26))
Remote controller (accessory)	Wired		BRC1NRV71	BRC1NRV71
	Wireless		—	—
Outdoor unit		RZA30AAVJU		RZA36AAVJU
Casing/color			Ivory white	Ivory white
Dimensions	H × W × D	in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)
Coil	Type		Cross fin coil	Cross fin coil
Compressor	Type		Hermetically sealed swing type	Hermetically sealed swing type
	Motor output	kW	3.1	3.7
Fan	Type		Propeller fan	Propeller fan
	Motor output	W	234	234
	Airflow rate	cfm (m ³ /min)	3,000 (85)	3,000 (85)
Weight		lbs (kg)	234 (106)	234 (106)
Piping connections	Liquid	in. (mm)	φ3/8 (φ9.5) (flare connection)	φ3/8 (φ9.5) (flare connection)
	Gas	in. (mm)	φ5/8 (φ15.9) (flare connection)	φ5/8 (φ15.9) (flare connection)
	Drain	in. (mm)	φ1 (φ26) (hole)	φ1 (φ26) (hole)
Safety devices			High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)
Capacity step		%	9 - 100	9 - 100
Refrigerant control			Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length	ft (m)	25 (7.6)	25 (7.6)
	Max. length	ft (m)	230 (70)	230 (70)
	Max. height difference	ft (m)	98 (30)	98 (30)
Refrigerant	Type		R32	R32
	Charge	lbs (kg)	7.5 (3.4)	7.5 (3.4)
Ref. oil	Type		DAPHNE FW68DE	DAPHNE FW68DE
	Charge	L	1.52	1.52

Notes:

- ★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5. External static pressure is changeable in 14 stages within the range in parentheses by remote controller.
- ★6. Air filter is not standard accessory, but please mount it in the duct system of the suction side.
Select its dust collection efficiency (gravity method) 50% or more.

C: 4D154511B

HSP Concealed Ducted Unit, continued

Model	Indoor unit		FBA42AAVJU	FBA48AAVJU
	Outdoor unit		RZA42AAVJU	RZA48AAVJU
Power supply			1 phase, 208/230 V, 60 Hz	1 phase, 208/230 V, 60 Hz
Cooling capacity ★1, ★4	Btu/h (kW)		40,500 (11.9)	48,000 (14.1)
Heating capacity ★2, ★4	Btu/h (kW)		47,000 (13.8)	54,000 (15.8)
Heating capacity ★3, ★4	Btu/h (kW)		32,400 (9.5)	38,000 (11.1)
EER2 (rated)	Btu/h-W		10.5	8.9
SEER2 (rated)			15.6	15.3
HSPF2 (rated)			9.5	9.3
Indoor unit		FBA42AAVJU		FBA48AAVJU
Casing/color			Galvanized steel plate	Galvanized steel plate
Dimensions	H × W × D	in. (mm)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)	9-11/16 × 55-1/8 × 31-1/2 (245 × 1,400 × 800)
Coil	Type		Cross fin coil	Cross fin coil
Fan	Type		Sirocco fan	Sirocco fan
	Motor output	W	390	390
	Airflow rate (H / M / L)	cfm (m ³ /min)	1,377 / 1,130 / 918 (39.0 / 32.0 / 26.0)	1,377 / 1,130 / 918 (39.0 / 32.0 / 26.0)
	External static pressure	in.H ₂ O (Pa)	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5	Standard 0.40 <0.80-0.20> (100 <200-50>) ★5
Air filter			— ★6	— ★6
Weight		lbs (kg)	106 (48)	106 (48)
Piping connections	Liquid	in. (mm)	φ3/8 (φ9.5) (flare connection)	φ3/8 (φ9.5) (flare connection)
	Gas	in. (mm)	φ5/8 (φ15.9) (flare connection)	φ5/8 (φ15.9) (flare connection)
	Drain	in. (mm)	VP25 (external dia. 1-1/4 (32), internal dia. 1 (26))	VP25 (external dia. 1-1/4 (32), internal dia. 1 (26))
Remote controller (accessory)	Wired		BRC1NRV71	BRC1NRV71
	Wireless		—	—
Outdoor unit		RZA42AAVJU		RZA48AAVJU
Casing/color			Ivory white	Ivory white
Dimensions	H × W × D	in. (mm)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)	34-1/4 × 43-5/16 × 18-1/8 (870 × 1,100 × 460)
Coil	Type		Cross fin coil	Cross fin coil
Compressor	Type		Hermetically sealed swing type	Hermetically sealed swing type
	Motor output	kW	4.2	5.1
Fan	Type		Propeller fan	Propeller fan
	Motor output	W	234	234
	Airflow rate	cfm (m ³ /min)	3,000 (85)	3,000 (85)
Weight		lbs (kg)	234 (106)	234 (106)
Piping connections	Liquid	in. (mm)	φ3/8 (φ9.5) (flare connection)	φ3/8 (φ9.5) (flare connection)
	Gas	in. (mm)	φ5/8 (φ15.9) (flare connection)	φ5/8 (φ15.9) (flare connection)
	Drain	in. (mm)	φ1 (φ26) (hole)	φ1 (φ26) (hole)
Safety devices			High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)	High pressure switch, Outdoor fan driver overload protector, Inverter overload protector, Fusible plug, Fuse, Bimetal thermostat (external overload relay)
Capacity step		%	9 - 100	9 - 100
Refrigerant control			Electronic expansion valve	Electronic expansion valve
Ref. piping	Standard length	ft (m)	25 (7.6)	25 (7.6)
	Max. length	ft (m)	230 (70)	230 (70)
	Max. height difference	ft (m)	98 (30)	98 (30)
Refrigerant	Type		R32	R32
	Charge	lbs (kg)	7.5 (3.4)	7.5 (3.4)
Ref. oil	Type		DAPHNE FW68DE	DAPHNE FW68DE
	Charge	L	1.52	1.52

Notes:

- ★1. Indoor temp.: 80°FDB (26.7°CDB), 67°FWB (19.4°CWB) / Outdoor temp.: 95°FDB (35.0°CDB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★2. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 47°FDB (8.3°CDB), 43°FWB (6.1°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★3. Indoor temp.: 70°FDB (21.1°CDB) / Outdoor temp.: 17°FDB (-8.3°CDB), 15°FWB (-9.4°CWB) / Equivalent piping length: 25 ft. (7.6 m), height difference: 0 ft. (0 m).
- ★4. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★5. External static pressure is changeable in 14 stages within the range in parentheses by remote controller.
- ★6. Air filter is not standard accessory, but please mount it in the duct system of the suction side.
Select its dust collection efficiency (gravity method) 50% or more.

C: 4D154511B