

DUCTED SPLIT SYSTEM

J Series

ACSON[®]
International



ACSON DUCTED SPLIT SYSTEM

The J Series provides efficient and reliable cooling performance with capacities ranging from 80,000 to 703,500 Btu/h. Available in horizontal (A5DB-J-FMBNA) and vertical (A5DB-J-FMBRA) discharge configurations, the units are equipped with TXV expansion control, hydrophilic-coated coils, and low-noise centrifugal blowers to ensure consistent and effective air distribution.

Designed for commercial buildings, industrial facilities, and large-scale indoor environments, the J Series is well suited for projects requiring dependable cooling, uniform airflow, and adaptability in installation. With high static pressure capability, it effectively serves spaces with extended ducting or complex layouts, maintaining comfort across wide area.

The modular outdoor design and convertible air discharge options provide flexibility for different site conditions, while robust construction and carefully selected components support reduced maintenance requirements and stable long-term operation.



Model:
A5DB 80-750J

Cooling Capacity:
80,000 - 703,500 BTU/h

Static Pressure:
0.4 - 1.41 Wg

Refrigerant:
R410A

OPTIONAL ACCESSORY

| THERMOSTAT

Model	AETW01-TM
Power Source	95~240Vac, 50/60Hz
Setting Temperature Range	15 - 30°C
Dimension (H x W x D)	86 x 86 x 43.4mm



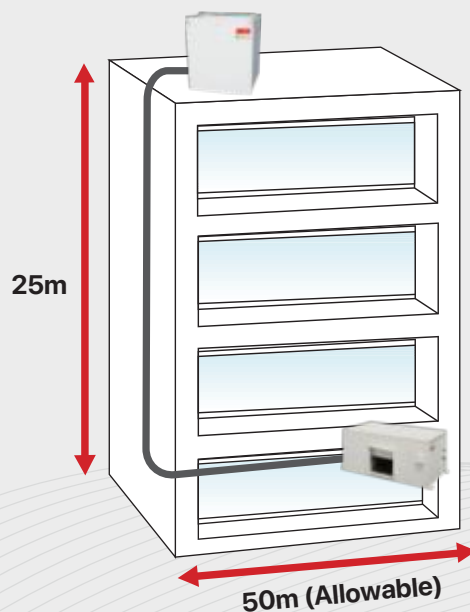
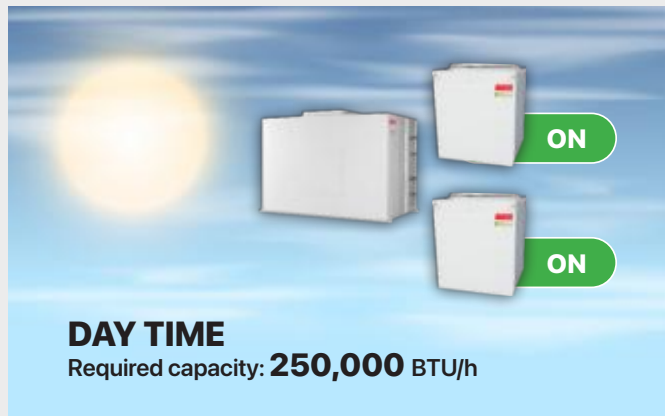
WiFi Control
with Easi Touch App



FEATURE | DUCTED SPLIT SYSTEM

| PARTIAL LOADING

The Acson Ducted Split System incorporates multiple independent refrigerant circuits, each powered by its own compressor. This setup allows the system to operate efficiently at partial loads, which enhances both its reliability and energy savings, especially when demand is low.



| MAXIMUM PIPING LENGTH AND NUMBER OF BENDS

Our system accommodates piping lengths of up to 50 meters and elevations of up to 25 meters, offering exceptional installation flexibility and consistent, reliable performance across a wide range of settings.

| R410A: ENVIRONMENTALLY FRIENDLY AND SAFE REFRIGERANT

R410A refrigerant contains no chlorine, so it does not contribute to ozone layer depletion, making it an environmentally responsible choice. Additionally, it is engineered with safety in mind and designed to operate efficiently under high pressure while meeting strict safety standards to protect both users and equipment.



| COMPREHENSIVE SAFETY FEATURES



Our system includes built-in compressor overload protection, safeguards against high and low pressure, and a phase sequencer that detects incorrect wiring or phase loss during installation and operation. These features work together to ensure reliable, safe, and efficient performance while protecting both the equipment and users.

FEATURE | INDOOR UNIT

| ANTI-CORROSION EVAPORATOR

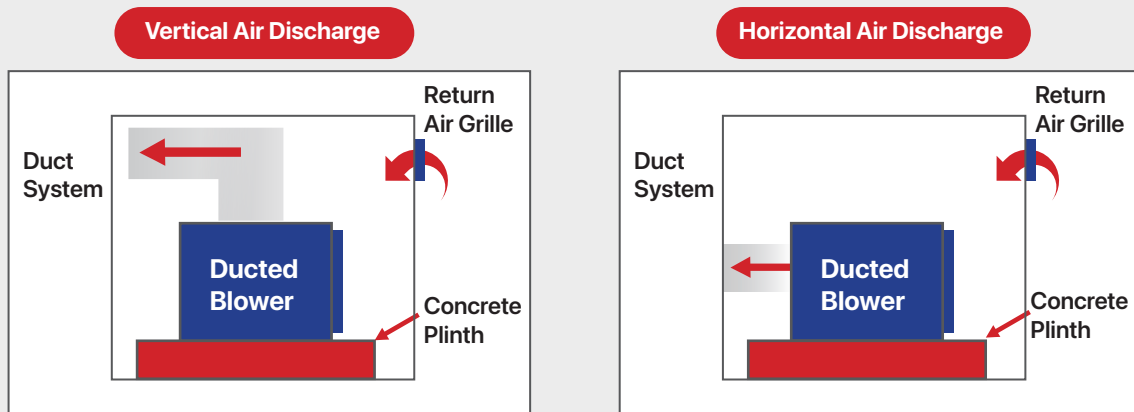
Each coil is manufactured from seamless, inner-grooved copper tubes with mechanically bonded fins for superior heat transfer efficiency to ensure reliability and long-term performance.

| INTEGRATED 2-INCH AIR FILTER SLOT

The indoor unit comes with dedicated 2-inch slots for air filters, allowing flexibility for installation. Filters can be added separately to suit specific project or maintenance needs.

| FLEXIBLE AIR DISTRIBUTION FOR INTERIOR SPACES

Our indoor units feature adjustable airflow direction, allowing customization to suit various room layouts and installation requirements. This ensures effective cooling performance and enhanced comfort throughout indoor spaces.

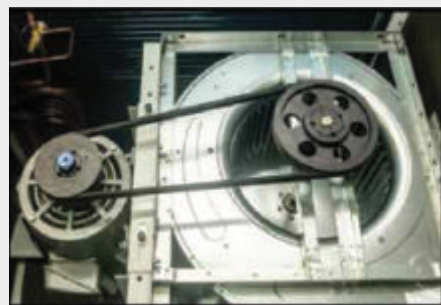


Note : Applicable only to indoor units from 12.5 HP to 50 HP.

| CHANGEABLE DRIVE PACKAGE

The belt-driven evaporator motor provides flexibility to tailor air flow (CFM) and external static pressure (ESP) for different installation needs. Its changeable drive package allows easy modification of pulley and belt settings, enabling on-site adjustment of fan speed to match specific system performance requirements.

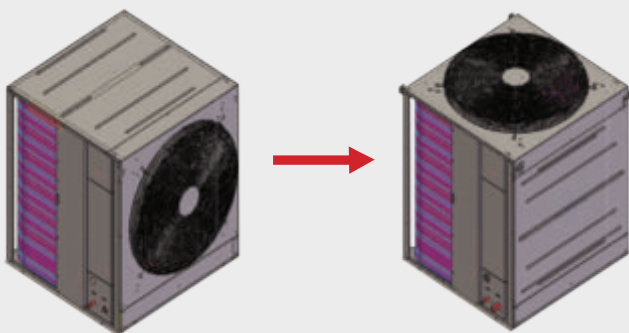
Note : Applicable only to indoor units 12.5 HP and above.



FEATURE | OUTDOOR UNIT

| COIL DESIGN

Engineered for performance and reliability, our L-shaped coil for the 8HP unit and C-shaped coil for all other models deliver efficient heat transfer, balanced airflow, and versatile installation options. Equipped with copper tubes, this evaporator provides excellent corrosion resistance, durability, and efficient heat transfer for long-lasting performance.



Side Throw

Top Throw

| CONVERTIBLE AIR THROW

Designed for flexibility, our outdoor units feature Convertible Air Throw technology, allowing airflow direction to be adjusted based on installation needs. This ensures optimal cooling performance and adaptability across various building layouts and environmental conditions.

Note : Applicable only to outdoor units of 10 HP and above.

| HIGH EFFICIENCY SCROLL COMPRESSOR

Our hermetically sealed scroll compressor delivers exceptional performance with fewer mechanical parts and no suction valves, minimizing efficiency loss. Engineered for quiet operation and long-term reliability, it features built-in thermal protection and advanced safeguards to ensure optimal cooling with lower operating costs.



| PROTECTIVE GRILLE DESIGN

Our outdoor unit features a durable grille that shields the condenser fins from physical damage and debris. This added layer of protection helps maintain optimal airflow and extends the lifespan of the unit, ensuring reliable performance in all environments.

FUNCTION LIST

Category	Functions	Indoor Unit	A5DB80/100J	A5DB125/150J	A5DB200/250/300/ 350/450/400/500/ 600/750J
		Outdoor Unit	A5MC80/100J	A5MC125/150J	A5MC100/125/150J
Basic Function	Operating limit for cooling (°CDB)		19~46	19~46	19~46
	Operating limit for cooling (°FDB)		66.2~114.8	66.2~114.8	66.2~114.8
Compressor	Scroll compressor		✓	✓	✓
Health & Clean	2" return air filter slot		✓	✓	✓
Worry Free (Reliability & Durability)	Auto-restart (after power failure)		✓	✓	✓
	Wiring error check function		✓	✓	✓
	High and low pressure switch		✓	✓	✓
Flexibility	ESP Selection		-	✓	✓
	Water Pump (Water Drainage Pipe Flexibility)		✓*	✓*	-

Notes:

ODU Non Pre-Charged	Max : 50m (Piping length), 25m (Elevation)
Operating Range	Max 46°C outdoor DB
Voltage Protection	No
Phase Protection	Yes
Fresh Air Intake	No
IDU 3 Fan Speed Adjustable	8HP ~ 10HP
IDU Single Fan Speed	12.5HP ~ 75HP
ODU Fin Type	Gold Fin
ODU Coil Guard	With

✓ : Available

- : Not Available

✓* : Optional (Refer to Acson for more details on optional items.)

FEATURES (INDOOR UNIT)

Nomenclature	Classification										
	Control		Fin		Handset	Refrigerant Control	Air Filter	Air Discharge			
	Without Control Module	Without Contactor	Bare	Blue	Without Handset	TXV	Air Filter Slot	Horizontal & Convertible	Horizontal & Not Convertible	Vertical & Convertible	Vertical & Not Convertible
A5DB80J-AMBHA	✓	✓	-	✓	✓	✓	✓	-	✓	-	-
A5DB100J-AMBHA	✓	✓	-	✓	✓	✓	✓	-	✓	-	-
A5DB125J-FMBNA	✓	✓	-	✓	✓	✓	✓	✓	-	-	-
A5DB150J-FMBNA	✓	✓	-	✓	✓	✓	✓	✓	-	-	-
A5DB200J2-FMBNA	✓	✓	-	✓	✓	✓	✓	✓	-	-	-
A5DB250J2-FMBNA	✓	✓	-	✓	✓	✓	✓	✓	-	-	-
A5DB300J2-FMBNA	✓	✓	-	✓	✓	✓	✓	✓	-	-	-
A5DB300J3-FMBNA	✓	✓	-	✓	✓	✓	✓	✓	-	-	-
A5DB350J3-FMBNA	✓	✓	-	✓	✓	✓	✓	✓	-	-	-
A5DB400J4-FMBNA	✓	✓	-	✓	✓	✓	✓	✓	-	-	-
A5DB450J3-FMBNA	✓	✓	-	✓	✓	✓	✓	✓	-	-	-
A5DB500J4-FMBNA	✓	✓	-	✓	✓	✓	✓	✓	-	-	-
A5DB600J4-FMBHA	✓	✓	-	✓	✓	✓	✓	-	✓	-	-
A5DB750J5-FMBHA	✓	✓	-	✓	✓	✓	✓	-	✓	-	-
A5DB125J-FMBRA	✓	✓	-	✓	✓	✓	✓	-	-	✓	-
A5DB150J-FMBRA	✓	✓	-	✓	✓	✓	✓	-	-	✓	-
A5DB200J2-FMBRA	✓	✓	-	✓	✓	✓	✓	-	-	✓	-
A5DB250J2-FMBRA	✓	✓	-	✓	✓	✓	✓	-	-	✓	-
A5DB300J2-FMBRA	✓	✓	-	✓	✓	✓	✓	-	-	✓	-
A5DB300J3-FMBRA	✓	✓	-	✓	✓	✓	✓	-	-	✓	-
A5DB350J3-FMBRA	✓	✓	-	✓	✓	✓	✓	-	-	✓	-
A5DB400J4-FMBRA	✓	✓	-	✓	✓	✓	✓	-	-	✓	-
A5DB450J3-FMBRA	✓	✓	-	✓	✓	✓	✓	-	-	✓	-
A5DB500J4-FMBRA	✓	✓	-	✓	✓	✓	✓	-	-	✓	-
A5DB600J4-FMBVA	✓	✓	-	✓	✓	✓	✓	-	-	-	✓
A5DB750J5-FMBVA	✓	✓	-	✓	✓	✓	✓	-	-	-	✓

FEATURES (OUTDOOR UNIT)

Nomenclature	Classification							
	Control			Fin	Air Discharge			
	Without Contactor	With HP/LP Switch/Sensor	With Phase Sequential Protector	Gold	Horizontal & Convertible	Horizontal & Not Convertible	Vertical & Convertible	Vertical & Not Convertible
A5MC80J-FMBHA	✓	✓	✓	✓	-	✓	-	-
A5MC100J-FMBNA	✓	✓	✓	✓	✓	-	-	-
A5MC125J-FMBNA	✓	✓	✓	✓	✓	-	-	-
A5MC150J-FMBNA	✓	✓	✓	✓	✓	-	-	-
A5MC100J-FMBRA	✓	✓	✓	✓	-	-	✓	-
A5MC125J-FMBRA	✓	✓	✓	✓	-	-	✓	-
A5MC150J-FMBRA	✓	✓	✓	✓	-	-	✓	-

POWER SUPPLY

Power Supply		HP						
		8	10	12.5	15	20	25	30
Indoor Unit	220-240V/1Φ/50Hz	✓	✓	-	-	-	-	-
	380-415V/3Φ/50Hz	-	-	✓	✓	✓	✓	✓
Outdoor Unit	380-415V/3Φ/50Hz	✓	✓	✓	✓	✓	✓	✓

Power Supply		HP					
		35	40	45	50	60	75
Indoor Unit	220-240V/1Φ/50Hz	-	-	-	-	-	-
	380-415V/3Φ/50Hz	✓	✓	✓	✓	✓	✓
Outdoor Unit	380-415V/3Φ/50Hz	✓	✓	✓	✓	✓	✓

SPECIFICATION

DUCTED BLOWER SYSTEM (A5DB-J / A5MC-J) (Singular Units)

Model	Indoor Unit			A5DB 80J	A5DB 100J
	Outdoor Unit			A5MC 80J	A5MC 100J
Nominal Capacity	BTU/h			80,000	100,000
	W			23,400	29,300
Nominal Total Input Power	W			7,480	10,045
Nominal Running Current	A			18.33	24.20
EER	BTU/h/W			10.68	9.96
	W/W			3.13	2.92
Power Source			V/Ph/Hz	IDU: 220-240 / 1 / 50 ODU: 380-415 / 3 / 50	
Refrigerant	Type			R410A	
	Charge		kg / lb	4.6 / 10.14	6.5 / 14.33
Indoor Unit	Control	Air Discharge		HORIZONTAL & NON-CONVERTIBLE	
	Air Flow	High	l/s / CFM	1,180 / 2,500	1,416 / 3,000
	External Static Pressure with Filter		Pa / in.wg	100 / 0.4	
	Sound Pressure Level		dba	52	55
	Unit Dimension	Height	mm / in	553 / 21.77	
		Width	mm / in	1,402 / 55.20	
		Depth	mm / in	605 / 23.82	
	Packing Dimension	Height	mm / in	700 / 27.56	
		Width	mm / in	1,522 / 59.92	
		Depth	mm / in	880 / 34.65	
	Unit Weight		kg / lb	83 / 182.98	84 / 185.20
Outdoor Unit	Air Flow		l/s / CFM	2,926 / 6,200	3,351 / 7,100
	Sound Pressure Level		dBA	70	
	Unit Dimension	Height	mm / in	929 / 36.58	1,042 / 41.02
		Width	mm / in	1,256 / 49.45	900 / 35.43
		Depth	mm / in	511 / 20.12	954 / 37.56
	Packing Dimension	Height	mm / in	1,078 / 42.44	1,224 / 48.19
		Width	mm / in	1,432 / 56.38	1,092 / 42.99
		Depth	mm / in	732 / 28.82	1,127 / 44.37
	Unit Weight		kg / lb	130 / 286.6	156 / 343.92
	Pipe Connection	Size	Liquid	12.70 / 1/2	
			Gas	22.23 / 7/8	25.40 / 1

Notes:

1. All specifications are subjected to change by the manufacturer without prior notice.
2. All units are being tested and comply to ISO 13253.
3. Indoor rated CFM is with the filter attached.
4. Nominal cooling capacity are based on the conditions below:

Cooling	
Indoor	27 °C DB / 19 °C WB
Outdoor	35 °C DB / 24 °C WB

SPECIFICATION

DUCTED BLOWER SYSTEM (A5DB-J / A5MC-J) (Singular Units)

Model		Indoor Unit		A5DB 125J	A5DB 150J
		Outdoor Unit		A5MC 125J	A5MC 150J
Nominal Capacity			BTU/h	125,000	150,000
			W	36,600	44,000
Nominal Total Input Power			W	11,440	14,830
Nominal Running Current			A	22.49	29.67
EER			BTU/h/W	10.92	10.10
			W/W	3.20	2.96
Power Source			V/Ph/Hz	IDU: 380-415 / 3 / 50 ODU: 380-415 / 3 / 50	
Refrigerant	Type			R410A	
	Charge		kg / lb	7.8 / 17.20	8.6 / 18.96
Indoor Unit	Control	Air Discharge		HORIZONTAL / VERTICAL & CONVERTIBLE	
	Air Flow	High	l/s / CFM	1,770 / 3,750	2,124 / 4,500
	External Static Pressure with Filter		Pa / in.wg	150 / 0.6	
	Sound Pressure Level		dBa	53	55
	Unit Dimension	Height	mm / in	776 / 30.55	
		Width	mm / in	1,540 / 60.63	
		Depth	mm / in	850 / 33.46	
	Packing Dimension	Height	mm / in	920 / 36.22	
		Width	mm / in	1,783 / 70.20	
		Depth	mm / in	1,184 / 46.61	
	Unit Weight		kg / lb	159 / 350.54	
Outdoor Unit	Air Flow		l/s / CFM	3,540 / 7,500	5,522 / 11,700
	Sound Pressure Level		dBA	71	74
	Unit Dimension	Height	mm / in	1,127 / 44.37	
		Width	mm / in	1,020 / 40.16	
		Depth	mm / in	990 / 38.98	
	Packing Dimension	Height	mm / in	1,300 / 51.18	
		Width	mm / in	1,211 / 47.68	
		Depth	mm / in	1,162 / 45.75	
	Unit Weight		kg / lb	185 / 407.86	198 / 436.52
	Pipe Connection	Size	Liquid	mm / in	15.88 / 5/8
			Gas	mm / in	28.58 / 1 1/8

Notes:

1. All specifications are subjected to change by the manufacturer without prior notice.
2. All units are being tested and comply to ISO 13253.
3. Indoor rated CFM is with the filter attached.
4. Nominal cooling capacity are based on the conditions below:

Cooling	
Indoor	27° C DB / 19° C WB
Outdoor	35° C DB / 24° C WB

SPECIFICATION

DUCTED BLOWER SYSTEM (A5DB-J / A5MC-J) (Modular Units)

Model		Indoor Unit		A5DB 200J2	A5DB 250J2	A5DB 300J2
		Outdoor Unit		A5MC 100J x 2	A5MC 125J x 2	A5MC 150J x 2
Nominal Capacity			BTU/h	200,000	244,400	287,000
			W	58,620	71,630	84,120
Nominal Total Input Power			W	19,700	23,880	30,520
Nominal Running Current			A	28.87	41.22	59.48
EER			BTU/h/W	10.17	10.24	9.42
			W/W	2.98	3.00	2.76
Power Source			V/Ph/Hz	IDU : 380-415 / 3 / 50 ODU : 380-415 / 3 / 50		
Refrigerant	Type			R410A		
	Charge		kg / lb	6.50 x 2 / 14.33 x 2	7.80 x 2 / 17.20 x 2	8.60 x 2 / 18.96 x 2
Indoor Unit	Control	Air Discharge		HORIZONTAL / VERTICAL & CONVERTIBLE		
	Air Flow	High	l/s / CFM	2,832 / 6,000	3,540 / 7,500	4,248 / 9,000
	External Static Pressure with Filter		Pa / in.wg	150 / 0.6	200 / 0.8	
	Sound Pressure Level		dbA	61	63	66
	Unit Dimension	Height	mm / in	885 / 34.84	1231 / 48.47	
		Width	mm / in	1794 / 70.63	1766 / 69.53	
		Depth	mm / in	850 / 33.47	1069 / 42.09	
	Packing Dimension	Height	mm / in	1154 / 45.43	1506 / 59.29	
		Width	mm / in	2052 / 80.79	2034 / 80.08	
		Depth	mm / in	1188 / 46.77	1412 / 55.59	
	Unit Weight		kg / lb	196 / 432.11	323 / 712.10	337 / 742.96
Outdoor Unit	Air Flow		l/s / CFM	3,351 / 7,100	3,540 / 7,500	5,522 / 11,700
	Sound Pressure Level		dBA	70	71	74
	Unit Dimension	Height	mm / in	1,042 / 41.02	1,127 / 44.37	
		Width	mm / in	900 / 35.43	1,020 / 40.16	
		Depth	mm / in	954 / 37.56	990 / 38.98	
	Packing Dimension	Height	mm / in	1,224 / 48.20	1,300 / 51.18	
		Width	mm / in	1,092 / 42.99	1,211 / 47.68	
		Depth	mm / in	1,127 / 44.37	1,162 / 45.75	
	Unit Weight		kg / lb	156 / 343.92	185 / 407.86	198 / 436.52
	Pipe Connection	Size	Liquid	mm / in	12.70 / 1/2	
			Gas	mm / in	25.40 / 1	28.58 / 1 1/8
						34.92 / 1 3/8

Notes:

- All specifications are subjected to change by the manufacturer without prior notice.
- All units are being tested and comply to ISO 13253.
- Indoor rated CFM is with the filter attached.
- Nominal cooling capacity are based on the conditions below:

Cooling	
Indoor	27 °C DB / 19 °C WB
Outdoor	35 °C DB / 24 °C WB

SPECIFICATION

DUCTED BLOWER SYSTEM (A5DB-J / A5MC-J) (Modular Units)

Model			Indoor Unit		A5DB 300J3	A5DB 350J3		A5DB 400J4
			Outdoor Unit		A5MC 100J x 3	A5MC 100J x 1	A5MC 125J x 2	A5MC 100J x 4
Nominal Capacity			BTU/h		300,000	350,000		400,000
			W		87,930	102,580		117,230
Nominal Total Input Power			W		29,710	34,550		39,330
Nominal Running Current			A		43.31	57.99		57.78
EER			BTU/h/W		10.10	10.13		10.17
			W/W		2.96	2.97		2.98
Power Source			V/Ph/Hz		IDU: 380-415 / 3 / 50 ODU: 380-415 / 3 / 50			
Refrigerant	Type				R410A			
	Charge		kg / lb	6.50 x 3 / 14.33 x 3	6.50	7.80 x 2	6.50 x 4	
Indoor Unit	Control	Air Discharge		HORIZONTAL / VERTICAL & CONVERTIBLE				
	Air Flow	High	l/s / CFM	4,248 / 9,000	4,955 / 10,500		5,663 / 12,000	
	External Static Pressure with Filter		Pa / in.wg	200 / 0.8	200 / 0.8		250 / 1.01	
	Sound Pressure Level		dbA	66	66	66	66	
	Unit Dimension	Height	mm / in	1,231 / 48.47	1,486 / 58.50		1,486 / 58.50	
		Width	mm / in	1,766 / 69.53	2,022 / 79.61		2,174 / 85.59	
		Depth	mm / in	1,069 / 42.09	1,069 / 42.09		1,336 / 52.60	
	Packing Dimension	Height	mm / in	1,506 / 59.29	1,766 / 69.53		1,766 / 69.53	
		Width	mm / in	2,034 / 80.08	2,279 / 89.72		2,431 / 95.71	
		Depth	mm / in	1,412 / 55.59	1,412 / 55.59		1,684 / 66.30	
	Unit Weight		kg / lb	337 / 742.96	431 / 950.19		488 / 1075.86	
Outdoor Unit	Air Flow		l/s / CFM	3,351 / 7,100	3,351 / 7,100	3,540 / 7,500	3,351 / 7,100	
	Sound Pressure Level		dBA	70	70	71	70	
	Unit Dimension	Height	mm / in	1,042 / 41.02	1,042 / 41.02	1,127 / 44.37	1,042 / 41.02	
		Width	mm / in	900 / 35.43	900 / 35.43	1,020 / 40.16	900 / 35.43	
		Depth	mm / in	954 / 37.56	954 / 37.56	990 / 38.98	954 / 37.56	
	Packing Dimension	Height	mm / in	1,224 / 48.20	1,224 / 48.20	1,300 / 51.18	1,224 / 48.20	
		Width	mm / in	1,092 / 42.99	1,092 / 42.99	1,211 / 47.68	1,092 / 42.99	
		Depth	mm / in	1,127 / 44.37	1,127 / 44.37	1,162 / 45.75	1,127 / 44.37	
	Unit Weight		kg / lb	156 / 343.92	156 / 343.92	185 / 407.86	156 / 343.92	
	Pipe Connection	Size	Liquid	mm / in	12.70 / 1/2			
			Gas	mm / in	25.40 / 1	25.40 / 1	28.58 / 1 1/8	25.40 / 1

Notes:

1. All specifications are subjected to change by the manufacturer without prior notice.
2. All units are being tested and comply to ISO 13253.
3. Indoor rated CFM is with the filter attached.
4. Nominal cooling capacity are based on the conditions below:

Cooling	
Indoor	27 °C DB / 19 °C WB
Outdoor	35 °C DB / 24 °C WB

SPECIFICATION

DUCTED BLOWER SYSTEM (A5DB-J / A5MC-J) (Modular Units)

Model	Indoor Unit			A5DB 450J3	A5DB 500J4	A5DB 600J4
	Outdoor Unit			A5MC 150J x 3	A5MC 125J x 4	A5MC 150J x 4
Nominal Capacity	BTU/h			422,000	500,000	563,300
	W			123,680	146,540	165,090
Nominal Total Input Power	W			45,930	49,990	61,620
Nominal Running Current	A			90.57	87.04	120.56
EER	BTU/h/W			9.18	10.00	9.14
	W/W			2.69	2.93	2.68
Power Source			V/Ph/Hz	IDU: 380-415 / 3 / 50 ODU: 380-415 / 3 / 50		
Refrigerant	Type			R410A		
	Charge		kg / lb	8.60 x 3	7.80 x 4 / 17.20 x 4	8.60 x 4 / 18.96 x 4
Indoor Unit	Control	Air Discharge		HORIZONTAL / VERTICAL & CONVERTIBLE		HORIZONTAL / VERTICAL & NON-CONVERTIBLE
	Air Flow	High	l/s / CFM	6,371 / 13,500	6,371 / 15,000	8,495 / 18,000
	External Static Pressure with Filter		Pa / in.wg	250 / 1.01	250 / 1.01	300 / 1.21
	Sound Pressure Level		dba	68	68	70
	Unit Dimension	Height	mm / in	1,486 / 58.50	1,486 / 58.50	1,918 / 75.52
		Width	mm / in	2,174 / 85.59	2,174 / 85.59	2,174 / 85.59
		Depth	mm / in	1,336 / 52.60	1,336 / 52.60	1,775 / 69.88
	Packing Dimension	Height	mm / in	1,766 / 69.53	1,766 / 69.53	2,122 / 83.54
		Width	mm / in	2,431 / 95.71	2,431 / 95.71	2,399 / 94.45
		Depth	mm / in	1,684 / 66.30	1,684 / 66.30	2,005 / 78.94
	Unit Weight		kg / lb	533 / 1175.06	580 / 1278.68	899 / 1981.96
Outdoor Unit	Air Flow		l/s / CFM	5,522 / 11,700	3,540 / 7,500	5,522 / 11,700
	Sound Pressure Level		dba	74	71	74
	Unit Dimension	Height	mm / in	1,127 / 44.37	1,127 / 44.37	1,127 / 44.37
		Width	mm / in	1,020 / 40.16	1,020 / 40.16	1,020 / 40.16
		Depth	mm / in	990 / 38.98	990 / 38.98	990 / 38.98
	Packing Dimension	Height	mm / in	1,300 / 51.18	1,300 / 51.18	1,300 / 51.18
		Width	mm / in	1,211 / 47.68	1,211 / 47.68	1,211 / 47.68
		Depth	mm / in	1,162 / 45.75	1,162 / 45.75	1,162 / 45.75
	Unit Weight		kg / lb	198 / 436.52	185 / 407.86	198 / 436.52
	Pipe Connection	Size	Liquid	mm / in	15.88 / 5/8	15.88 / 5/8
			Gas	mm / in	34.92 / 1 3/8	34.92 / 1 3/8

Notes:

- All specifications are subjected to change by the manufacturer without prior notice.
- All units are being tested and comply to ISO 13253.
- Indoor rated CFM is with the filter attached.
- Nominal cooling capacity are based on the conditions below:

Cooling	
Indoor	27 °C DB / 19 °C WB
Outdoor	35 °C DB / 24 °C WB

SPECIFICATION

DUCTED BLOWER SYSTEM (A5DB-J / A5MC-J) (Modular Units)

Model		Indoor Unit		A5DB 750J5
		Outdoor Unit		A5MC 150J x 5
Nominal Capacity			BTU/h	703,500
			W	206,180
Nominal Total Input Power			W	78,640
Nominal Running Current			A	154.15
EER			BTU/h/W	8.94
			W/W	2.62
Power Source			V/Ph/Hz	IDU: 380-415 / 3 / 50 ODU: 380-415 / 3 / 50
Refrigerant	Type			R410A
	Charge		kg / lb	8.60 x 5 / 18.96 x 5
Indoor Unit	Control	Air Discharge		HORIZONTAL / VERTICAL & NON-CONVERTIBLE
	Air Flow	High	l/s / CFM	10,619 / 22,500
	External Static Pressure with Filter		Pa / in.wg	350 / 1.41
	Sound Pressure Level		dB(A)	71
	Unit Dimension	Height	mm / in	2,197 / 86.50
		Width	mm / in	2,174 / 85.59
		Depth	mm / in	1,775 / 69.88
	Packing Dimension	Height	mm / in	2,401 / 94.53
		Width	mm / in	2,399 / 94.45
		Depth	mm / in	2,005 / 78.94
	Unit Weight		kg / lb	946 / 2085.57
Outdoor Unit	Air Flow		l/s / CFM	5,522 / 11,700
	Sound Pressure Level		dBA	74
	Unit Dimension	Height	mm / in	1,127 / 44.37
		Width	mm / in	1,020 / 40.16
		Depth	mm / in	990 / 38.98
	Packing Dimension	Height	mm / in	1,300 / 51.18
		Width	mm / in	1,211 / 47.68
		Depth	mm / in	1,162 / 45.75
	Unit Weight		kg / lb	198 / 436.52
	Pipe Connection	Size	Liquid	mm / in
			Gas	mm / in

Notes:

1. All specifications are subjected to change by the manufacturer without prior notice.
2. All units are being tested and comply to ISO 13253.
3. Indoor rated CFM is with the filter attached.
4. Nominal cooling capacity are based on the conditions below:

Cooling	
Indoor	27 °C DB / 19 °C WB
Outdoor	35 °C DB / 24 °C WB

INDOOR & OUTDOOR UNITS

R410A Ducted Blower J Series with Copper Fin Tube Heat Exchanger System

Capacity (BTU/h)	Indoor Unit	Outdoor Unit	Capacity (BTU/h)	Indoor Unit	Outdoor Unit
80,000	 A5DB 80J	 A5MC 80J	300,000	 A5DB 300J3	 A5MC 100J x 3
100,000	 A5DB 100J	 A5MC 100J	350,000	 A5DB 350J	 A5MC 100J + A5MC 125J x 2
125,000	 A5DB 125J	 A5MC 125J	400,000	 A5DB 400J	 A5MC 100J x 4
150,000	 A5DB 150J	 A5MC 150J	422,000	 A5DB 450J	 A5MC 150J x 3
200,000	 A5DB 200J	 A5MC 100J x 2	500,000	 A5DB 500J	 A5MC 125J x 4
244,440	 A5DB 250J	 A5MC 125J x 2	563,300	 A5DB 600J	 A5MC 150J x 4
287,000	 A5DB 300J2	 A5MC 150J x 2	703,500	 A5DB 750J	 A5MC 150J x 5

*All pictures shown are for illustration purpose only.

DUCTED SPLIT SYSTEM UNIT LINE-UP

Model	HP											
	8	10	12.5	20	25	30	35	40	45	50	60	75
J-Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Convertible Discharge	-	-	✓	✓	✓	✓	✓	✓	✓	✓	-	-

Notes:

A5DB 125H - 500H4 have convertible discharge.

A5DB 600H4 - 750H5 is upon request, and not field convertible.

DOUBLE SKIN DUCTED BLOWER SYSTEM

| A5DSB-J/A5MC-J)

Acson Double Skin Ducted Blower are ideal for light commercial applications with large or open spaces. It is designed in order to fulfill the indoor air quality requirement where the cooling capacity is within range of 80,000 to 500,000 BTU/h and up to a static pressure of 1.0 in Wg.

Common Features:

All the framework is insulated with 1 inch double skin Polyurethane (PU) insulation panel and all frames are insulated with Polyethylene (PE) that is chemical resistant. PE is a resilient type closed-cell foam that ideal for shock absorbing, vibration dampening, minimize heat loss and avoid condensation to take place. Adding double skin PU insulation panel accomplishes few benefits:

- Excellent Thermal Barrier (prevent heat lost and sweating)
- Condensation Control
- Superior Silent Operation (lined with 1 inch sound-proof insulation to avoid transmission of vibration)
- Air Tightness

DOUBLE SKIN DUCTED BLOWER SYSTEM (A5DSB-J)

Copper Fin Tube

Copper tubes ensure strong corrosion resistance, durability, and efficient heat transfer for long-lasting performance.

**50mm and 25mm double skin PU insulation panel is available upon request.*



SPECIFICATION

DOUBLE SKIN DUCTED BLOWER SYSTEM (A5DSB-J, A52DSB-5* / A5MC-J) (Singular Units)

Model			Indoor Unit		A5DSB 80J	A5DSB 100J	A5DSB 125J	A5DSB 150J
			Outdoor Unit		A5MC 80J	A5MC 100J	A5MC 125J	A5MC 150J
Nominal Capacity			BTU/h		80,000	100,000	125,000	150,000
			W		23,400	29,300	36,600	44,000
Nominal Total Input Power			W		7,480	10,045	11,440	14,830
Nominal Running Current			A		18.33	24.20	22.49	29.67
EER			BTU/h/W		10.68	9.96	10.92	10.10
			W/W		3.13	2.92	3.20	2.96
Power Source			V/Ph/Hz		IDU: 220-240 / 1 / 50 ODU: 380-415 / 3 / 50		IDU: 380-415 / 3 / 50 ODU: 380-415 / 3 / 50	
Refrigerant	Type				R410A			
	Charge		kg / lb		4.6 / 10.14	6.5 / 14.33	7.8 / 17.20	8.6 / 18.96
Indoor Unit	Control	Air Discharge		HORIZONTAL & NON-CONVERTIBLE			HORIZONTAL / VERTICAL & CONVERTIBLE	
	Air Flow	High	l/s / CFM	1,180 / 2,500	1,416 / 3,000	1,770 / 3,750	2,124 / 4,500	
	External Static Pressure with Filter		Pa / in.wg	100 / 0.4			150 / 0.6	
	Sound Pressure Level		dbA	52	55	53	55	
	Unit Dimension (25mm)	Height	mm / in	632 / 24.88			842 / 33.15	
		Width	mm / in	1,438 / 58.61			1,588 / 62.52	
		Depth	mm / in	730 / 28.74			973 / 38.31	
	Unit Dimension (50mm)	Height	mm / in	682 / 26.85			891.8 / 35.11	
		Width	mm / in	1,488 / 58.58			1638 / 64.99	
		Depth	mm / in	730 / 28.74			1,023 / 40.27	
	Packing Dimension (25 & 50mm)	Height	mm / in	844 / 33.23			1,190 / 46.85	
		Width	mm / in	1,782 / 70.16			1,878 / 73.94	
		Depth	mm / in	1,040 / 40.94			1,275 / 50.20	
	Unit Weight		kg / lb	99 / 218			180 / 397	
Outdoor Unit	Air Flow		l/s / CFM	2,926 / 6,200	3,351 / 7,100	3,540 / 7,500	5,522 / 11,700	
	Sound Pressure Level		dBA	70	70	71	74	
	Unit Dimension	Height	mm / in	929 / 36.58	1,042 / 41.02	1,127 / 44.37	1,127 / 44.37	
		Width	mm / in	1,256 / 49.45	900 / 35.43	1020 / 40.16	1020 / 40.16	
		Depth	mm / in	511 / 20.12	954 / 37.56	990 / 38.98	990 / 38.98	
	Packing Dimension	Height	mm / in	1,078 / 42.44	1,224 / 48.19	1,300 / 51.18	1,300 / 51.18	
		Width	mm / in	1,432 / 56.38	1,092 / 42.99	1,211 / 47.68	1,211 / 47.68	
		Depth	mm / in	732 / 28.82	1,127 / 44.37	1,162 / 45.75	1,162 / 45.75	
	Unit Weight		kg / lb	130 / 286.6	156 / 343.92	185 / 407.86	198 / 436.52	
	Pipe Connection	Size	Liquid	mm / in	12.70 / 1/2			15.88 / 5/8
Gas			mm / in	22.23 / 7/8	25.40 / 1	28.58 / 1 1/8	34.92 / 1 3/8	

Notes:

- All specifications are subjected to change by the manufacturer without prior notice.
- All units are being tested and comply to ISO 13253.
- Indoor rated CFM is with the filter attached.
- Nominal cooling capacity are based on the conditions below:

Cooling	
Indoor	27 °C DB / 19 °C WB
Outdoor	35 °C DB / 24 °C WB

SPECIFICATION

DOUBLE SKIN DUCTED BLOWER SYSTEM (A5DSB-J, A52DSB-5* / A5MC-J)(Modular Units)

Model	Indoor Unit			A5DSB 200J2	A5DSB 250J2	A5DSB 300J2	A5DSB 300J3
	Outdoor Unit			A5MC 100J x 2	A5MC 125J x 2	A5MC 150J x 2	A5MC 100J x 3
Nominal Capacity	BTU/h			200,000	244,400	287,000	300,000
	W			58,620	71,630	84,120	87,930
Nominal Total Input Power	W			19,700	23,880	30,520	29,710
Nominal Running Current	A			28.87	41.22	59.48	43.31
EER	BTU/h/W			10.17	10.24	9.42	10.10
	W/W			2.98	3.00	2.76	2.96
Power Source			V/Ph/Hz	IDU: 380-415 / 3 / 50 ODU: 380-415 / 3 / 50			
Refrigerant	Type			R410A			
	Charge		kg / lb	6.50 x 2 / 14.33 x 2	7.80 x 2 / 17.20 x 2	8.60 x 2 / 18.96 x 2	6.50 x 3 / 14.33 x 3
Indoor Unit	Control	Air Discharge		HORIZONTAL / VERTICAL & CONVERTIBLE			
	Air Flow	High	l/s / CFM	2,832 / 6,000	3,540 / 7,500	4,248 / 9,000	4,248 / 9,000
	External Static Pressure with Filter		Pa / in.wg	150 / 0.6	200 / 0.8		
	Sound Pressure Level		dbA	61	63	66	66
	Unit Dimension (25mm)	Height	mm / in	932 / 36.69	1,282 / 50.47		
		Width	mm / in	1,770 / 69.69	1,770 / 69.69		
		Depth	mm / in	950 / 37.4	1,170 / 46.06		
	Unit Dimension (50mm)	Height	mm / in	982 / 38.66	1,332 / 52.44		
		Width	mm / in	1,820 / 69.69	1,820 / 71.65		
		Depth	mm / in	1,000 / 39.37	1,220 / 48.03		
	Packing Dimension (25 & 50mm)	Height	mm / in	1,190 / 46.85	1,490 / 58.66		
		Width	mm / in	2,060 / 81.10	2,032 / 80.00		
		Depth	mm / in	1,275 / 50.20	1,482 / 58.35		
	Unit Weight		kg / lb	218 / 481	350 / 772	364 / 802	364 / 802
Outdoor Unit	Air Flow		l/s / CFM	3,351 / 7,100	3,540 / 7,500	5,522 / 11,700	3,351 / 7,100
	Sound Pressure Level		dBA	70	71	74	70
	Unit Dimension	Height	mm / in	1,042 / 41.02	1,127 / 44.37	1,127 / 44.37	1,042 / 41.02
		Width	mm / in	900 / 35.43	1,020 / 40.16	1,020 / 40.16	900 / 35.43
		Depth	mm / in	954 / 37.56	990 / 38.98	990 / 38.98	954 / 37.56
	Packing Dimension	Height	mm / in	1,224 / 48.20	1,300 / 51.18	1,300 / 51.18	1,224 / 48.20
		Width	mm / in	1,092 / 42.99	1,211 / 47.68	1,211 / 47.68	1,092 / 42.99
		Depth	mm / in	1,127 / 44.37	1,162 / 45.75	1,162 / 45.75	1,127 / 44.37
	Unit Weight		kg / lb	156 / 343.92	185 / 407.86	198 / 436.52	156 / 343.92
	Pipe Connection	Size	Liquid	mm / in	12.70 / 1/2	15.88 / 5/8	12.70 / 1/2
			Gas	mm / in	25.40 / 1	34.92 / 1 3/8	25.40 / 1

Notes:

1. All specifications are subjected to change by the manufacturer without prior notice.
2. All units are being tested and comply to ISO 13253.
3. Indoor rated CFM is with the filter attached.
4. Nominal cooling capacity are based on the conditions below:

Cooling	
Indoor	27 °C DB / 19 °C WB
Outdoor	35 °C DB / 24 °C WB

SPECIFICATION

DOUBLE SKIN DUCTED BLOWER SYSTEM (A5DSB-J, A52DSB-5* / A5MC-J)(Modular Units)

Model	Indoor Unit			A5DSB 350J3		A5DSB 400J4	A5DSB 450J3	A5DSB 500J4
	Outdoor Unit			A5MC 100J x 1	A5MC 125J x 2	A5MC 100J x 4	A5MC 150J x 3	A5MC 125J x 4
Nominal Capacity	BTU/h			350,000		400,000	422,000	500,000
	W			102,580		117,230	123,680	146,540
Nominal Total Input Power	W			34,550		39,330	45,930	49,990
Nominal Running Current	A			57.99		57.78	90.57	87.04
EER	BTU/h/W			10.13		10.17	9.18	10.00
	W/W			2.97		2.98	2.69	2.93
Power Source	V/Ph/Hz			IDU: 380-415 / 3 / 50 ODU: 380-415 / 3 / 50				
Refrigerant	Type			R410A				
	Charge		kg / lb	6.50	7.80 x 2	6.50 x 4	8.60 x 3	7.80 x 4 / 17.20 x 4
Indoor Unit	Control	Air Discharge		HORIZONTAL / VERTICAL & CONVERTIBLE				
	Air Flow	High	l/s / CFM	4,955 / 10,500		5,663 / 12,000	6,371 / 13,500	6,371 / 15,000
	External Static Pressure with Filter		Pa / in.wg	200 / 0.8		250 / 1.01	250 / 1.01	
	Sound Pressure Level		dba	66			68	
	Unit Dimension (25mm)	Height	mm / in	2,020 / 79.53		2,170 / 85.43	1,540 / 60.63	
		Width	mm / in	1,170 / 46.06		1,370 / 53.94	2,170 / 85.43	
		Depth	mm / in	1,590 / 62.60			1,370 / 53.94	
	Unit Dimension (50mm)	Height	mm / in	2,070 / 81.50		2,220 / 87.4	1,590 / 62.60	
		Width	mm / in	1,220 / 48.03		1,420 / 55.9	2,220 / 87.40	
		Depth	mm / in	1,790 / 70.47		1,856 / 73.07	1,420 / 55.90	
	Packing Dimension (25 & 50mm)	Height	mm / in	2,282 / 89.84		2,432 / 95.75	1,856 / 73.07	
		Width	mm / in	1,532 / 60.31		1,732 / 68.19	2,432 / 95.75	
		Depth	mm / in	462 / 1,019		523 / 1,153	1,732 / 68.19	
	Unit Weight		kg / lb	462 / 1,019		523 / 1,153	568 / 1,252	614 / 1,354
Outdoor Unit	Air Flow		l/s / CFM	3,351 / 7,100	3,540 / 7,500	3,351 / 7,100	5,522 / 11,700	3,540 / 7,500
	Sound Pressure Level		dba	70	71	70	74	71
	Unit Dimension	Height	mm / in	1,042 / 41.02	1,127 / 44.37	1,042 / 41.02	1,127 / 44.37	
		Width	mm / in	900 / 35.43	1,020 / 40.16	900 / 35.43	1,020 / 40.16	
		Depth	mm / in	954 / 37.56	990 / 38.98	954 / 37.56	990 / 38.98	
	Packing Dimension	Height	mm / in	1,224 / 48.20	1,300 / 51.18	1,224 / 48.20	1,300 / 51.18	
		Width	mm / in	1,092 / 42.99	1,211 / 47.68	1,092 / 42.99	1,211 / 47.68	
		Depth	mm / in	1,127 / 44.37	1,162 / 45.75	1,127 / 44.37	1,162 / 45.75	
	Unit Weight		kg / lb	156 / 343.92	185 / 407.86	156 / 343.92	198 / 436.52	185 / 407.86
	Pipe Connection	Size	Liquid	mm / in	12.70 / 1/2		15.88 / 5/8	12.70 / 1/2
			Gas	mm / in	25.40 / 1	28.58 / 1 1/8	25.40 / 1	34.92 / 1 3/8

Notes:

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4. Nominal cooling capacity are based on the conditions below:

Cooling	
Indoor	27 °C DB / 19 °C WB
Outdoor	35 °C DB / 24 °C WB



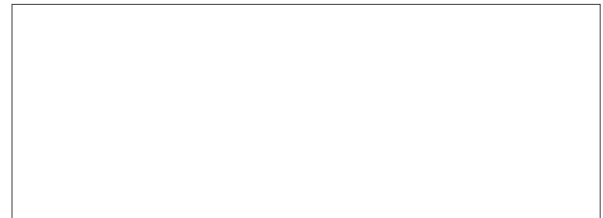
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