

DUCTED SPLIT SYSTEM

Multiplex



ACSON[®]
International
Air Conditioners

ACSON DUCTED SPLIT SYSTEM

Acson Ducted Split System is designed to cool multiple spaces simultaneously by distributing cool air via a ducting system, allowing for a flexible and wide range of applications, Using high air flow, high external static pressure and long piping installations, cool air is circulated to where it is needed to achieve a cool and comfortable indoor climate without the presence of indoor units. Acson Ducted Split System is suitable for hotel, office, hall, shopping mall, supermarket or factory.



Model: A5DB 80-750H

Cooling Capacity: 80,000 - 750,000 BTU/h

Static Pressure: 0.4 - 1.4 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



Common Features

Flexibility Of Air Supply

- Air can be distribute evenly to every corner of room through ducting.
- Belt driven blower is utilized which allows for air volume and static pressure adjustment. This flexibility allows wider range of application.

*Applicable for A5DB125H, A5DSB125H and above.

Partial Loading

Acson Ducted Split System is designed with two or more separate refrigerant circuits with multiple individual compressors. By doing so, the unit has part load capabilities. This will improve the reliability and energy efficiency especially during low loading operations.

*Applicable for multiple outdoor set.



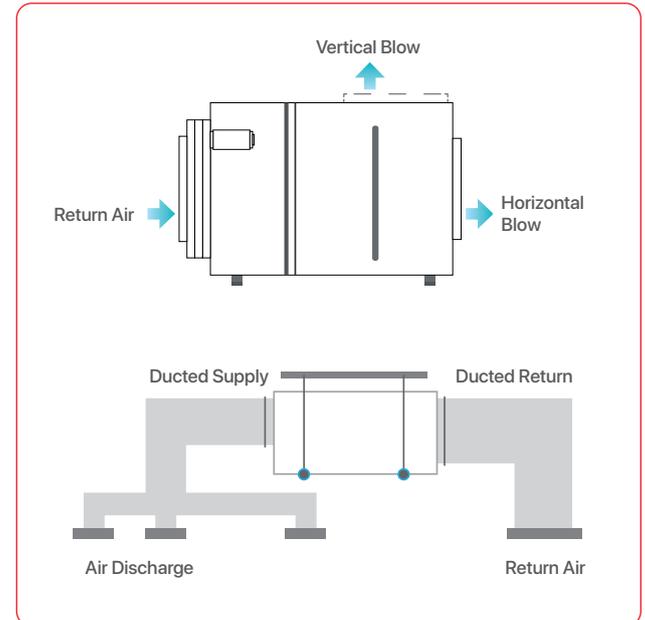
Safety Features

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

Convertible Discharge

Air discharge can be converted from horizontal to vertical discharge or vice versa which provides flexibility in installation at site.

* Applicable for certain unit



Easy Maintenance

Easy to access from the service panel by loosening few screws.

Fresh Air Intake (Optional)

Fresh air can be introduced into the building through the design of fresh air intakes which help to improve the indoor air quality. Adding fresh air to the system accomplishes 2 primary Indoor Air Quality (IAQ) goals:

- It controls building pressure that help to keep pollutants out.
- it increases IAQ by diluting polluted or stale indoor air.

Adding fresh air inlet to the system is relatively simple and inexpensive solution.

Ducted Blower with Microchannel Heat Exchanger (MCHE)

Microchannel Heat Exchanger (MCHE) is now widely used in residential and commercial air conditioning systems as well as in refrigeration equipment driven by energy efficiency and reduction of the refrigerant charge.

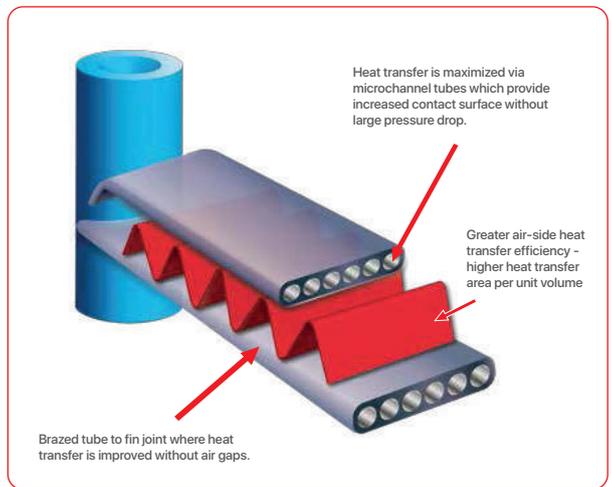
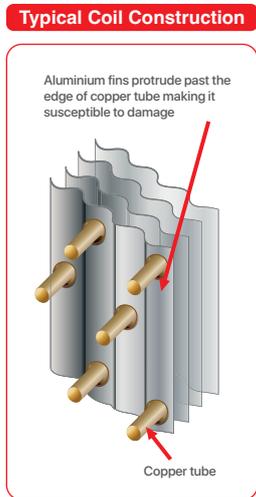
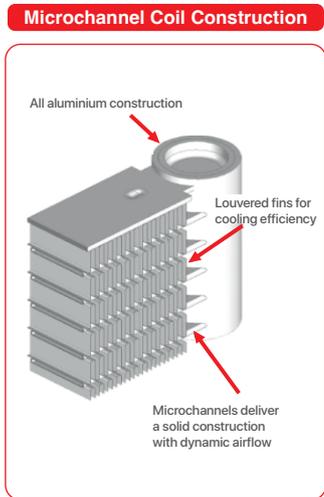
Features

i Compact design

Smaller coil is used compared to conventional coil of equivalent performance which leads to reduced footprint and smarter logistic solutions

iv Greater air-side heat transfer efficiency

Higher heat transfer area per unit volume compared to conventional heat exchangers (consistent contact between the microchannel tube surface and ambient air).



ii Light Weight

Added in the properties of aluminium, MCHE is lighter than conventional coils which resulting smaller overall product size and lighter units with equal performance.

v Reduced Air Pressure Drop

The design of the microchannel where the air can flow easily through leads reduction of air-side pressure drop. This will improve of energy efficiency as the power input of fan can be reduced also due to lower resistance.

iii All aluminium

Microchannel coil is more robust compared to conventional exchanger. MCHE fins are metallurgical bonded to the microchannel tubes which makes it more durable against accidental damage during handling unit. The strong durability of MCHE coil allow cleaning process to be much easier by using medium-pressure water spray.

vi Low Usage of Refrigerant Charge

Microchannel condensing design can reduce the refrigerant charge amount compared to conventional unit.

vii. Al-Ti Microchannel

Al-Ti Microchannel undergoes SWAAT[ASTM G85-A3] & CASS[ASTM B 368] testings to prove its performance against corrosion resistance. Its is proven that MCHC is capable to withstand these corrosion test with respective to the number of required test hours (Very much dependent on the type of aluminium alloy and zinc layer on the aluminium tube).



Al-Ti Microchannel



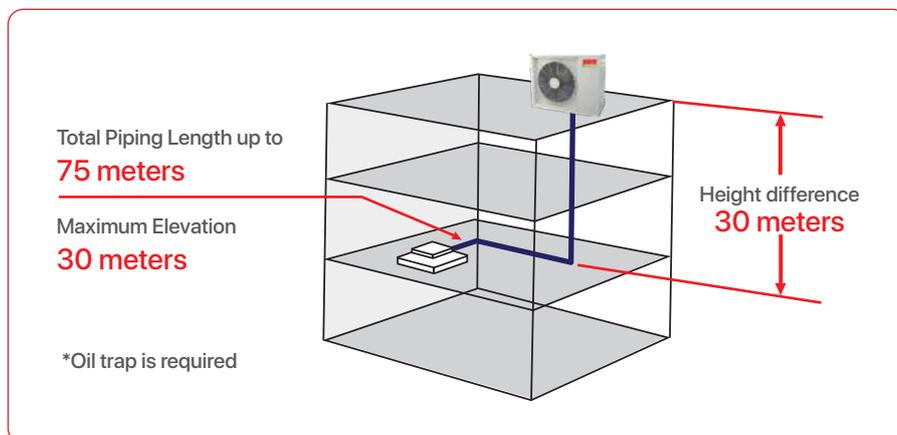
E-coated Microchannel

***SWAAT Test** is to test the relative resistance to corrosion of coated or uncoated aluminium alloys and other metals, when exposed to changing climate of acidified synthetic seawater spray, followed by a high humidity, both at an elevated temperature.

***CASS Test** is a highly reliable method that evaluated how well a given aluminium alloy hold up in a moisture-rich environment. With additive of copper chloride, it stimulates the observation of iron found on the surface of MCHC in Malaysia application.

Longer Piping Applications

- Total piping length allowed is longer when oil trap is included.
- Easily accommodate various building design with less restriction



Specifications

Ducted Blower System (A5DB-H/A5MC-H)

Model		Indoor Unit		A5DB 80H	A5DB 100H	A5DB 125H	A5DB 150H		
		Outdoor Unit		A5MC 80H	A5MC 100H	A5MC 125H	A5MC 150H		
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		7,100	10,000	11,350	14,800		
Nominal Running Current		A		12.50	17.10	19.70	28.70		
EER		BTU/h/W		11.27	10.00	11.01	10.14		
		W/W		3.30	2.93	3.22	2.97		
Power Source		V/Ph/Hz		IDU: 220 - 240 / 1 / 50 ODU: 380 - 415 / 3 / 50		380 - 415 / 3 / 50			
Indoor Unit		Control		Operation		WIRED CONTROL (FIELD SUPPLY)			
				Air Discharge		HORIZONTAL & NON - CONVERTIBLE		HORIZONTAL & CONVERTIBLE	
		Air Flow		High	l/s / CFM	1,085 / 2,300	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	56
		Unit Dimension		Height	mm/in	553 / 21.77		776 / 30.55	
				Width	mm / in	1,402 / 55.2		1,540 / 60.63	
				Depth	mm / in	605 / 23.82		850 / 33.46	
		Packing Dimension		Height	mm / in	700 / 27.56		920 / 36.22	
				Width	mm / in	1,522 / 59.92		1,783 / 70.2	
Depth	mm / in			880 / 34.65		1,184 / 46.61			
Unit Weight		kg / lb		83 / 182.98	84 / 185.19	159 / 350.53			
Outdoor Unit		Air Flow		l/s / CFM	2,077 / 4,400	3,020 / 6,400	3,256 / 6,900	4,908 / 10,400	
		Sound Pressure Level		dBA		69	65	70	
		Unit Dimension		Height	mm / in	929 / 36.57	1,067 / 42		1,166 / 45.91
				Width	mm / in	1,235 / 48.62	880 / 34.65	980 / 38.58	
				Depth	mm / in	496 / 19.53	880 / 34.65	980 / 38.58	
		Packing Dimension		Height	mm / in	1,085 / 42.72	1,231 / 48.46		1,321 / 52.01
				Width	mm / in	1,385 / 54.53	1,030 / 40.55	1,130 / 44.49	
				Depth	mm / in	684 / 26.93	1,058 / 41.65	1,158 / 45.59	
		Unit Weight		kg / lb		111 / 244.71	135 / 297.62	157 / 346.13	177 / 390.22
		Pipe Connection		Type		BRAZED			
Size				Liquid	mm / in	12.7 / 1/2		15.88 / 5/8	
Refrigerant		Type		R410A					
		Charge		kg / lb	2.5 / 5.51	3.4 / 7.5	4.8 / 10.58	5.2 / 11.46	

Note:

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. Nominal cooling capacity are based on the conditions below:

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

4. Indoor sound pressure level are according to JIS B 8615 standard.

Horizontal Discharge : Position of the measurement point 1.5m below the unit.

(With 1m duct connect to the inlet and 2m duct connect to the outlet)

Vertical Discharge : Position of the measurement point is 1m away from every side of the unit and 1m above floor level.

(With Tested with 2m length duct at discharge only)

Specifications

Ducted Blower System (A5DB-H/A5MC-H)

Model		Indoor Unit		A5DB 200H2	A5DB 250H2	A5DB 300H2	A5DB 300H3		
		Outdoor Unit		A5MC 100H x 2	A5MC 125H x 2	A5MC 150H x 2	A5MC 100H x 3		
Nominal Capacity		BTU/h		200,000	250,000	300,000			
		W		58,600	73,200	88,000			
Nominal Total Input Power		W		19,700	23,880	30,520	29,710		
Nominal Running Current		A		35.10	40.60	58.70	52.60		
EER		BTU/h/W		10.15	10.47	9.83	10.10		
		W/W		2.97	3.07	2.88	2.96		
Power Source		V/Ph/Hz		380 - 415 / 3 / 50					
Indoor Unit		Control		Operation		WIRED CONTROL (FIELD SUPPLY)			
				Air Discharge		HORIZONTAL & CONVERTIBLE	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		200 / 0.8					
Sound Pressure Level		dBA		61	63	66	66		
Unit Dimension		Height	mm/in	885 / 34.84	1,231 / 48.43				
		Width	mm / in	1,794 / 70.63	1,766 / 69.53				
		Depth	mm / in	850 / 33.46	1,069 / 42.09				
Packing Dimension		Height	mm / in	1,154 / 45.43	1,506 / 59.29				
		Width	mm / in	2,052 / 80.79	2,034 / 80.08				
		Depth	mm / in	1,188 / 46.77	1,412 / 55.59				
Unit Weight		kg / lb		196 / 432.11	323 / 712.09	337 / 742.96			
Outdoor Unit		Air Flow		l/s / CFM	3,020 / 6,400	3,256 / 6,900	4,908 / 10,400	3,020 / 6,400	
		Sound Pressure Level		dBA		67	65	70	65
		Unit Dimension		Height	mm / in	1,067 / 42		1,166 / 43.94	1,067 / 42
				Width	mm / in	880 / 34.65	980 / 38.58		880 / 34.65
				Depth	mm / in	880 / 34.65	980 / 38.58		880 / 34.65
		Packing Dimension		Height	mm / in	1,231 / 48.46	1,231 / 48.46	1,321 / 52.01	1,231 / 48.46
				Width	mm / in	1,030 / 40.55	1,130 / 44.49		1,030 / 40.55
				Depth	mm / in	1,058 / 41.65	1,158 / 45.59		1,058 / 41.65
		Unit Weight		kg / lb		135 / 297.62	157 / 346.13	177 / 390.22	135 / 297.62
		Pipe Connection		Type		BRAZED			
Size				Liquid	mm / in		12.7 / 1/2	15.88 / 5/8	12.7 / 1/2
				Gas	mm / in		25.4 / 1	28.58 / 1 1/8	34.92 / 1 3/8
Refrigerant		Type		R410A					
		Charge	kg / lb	3.6 x 2 / 7.94 x 2	4.0 x 2 / 8.82 x 2	4.7 x 2 / 10.36 x 2	3.2 x 3 / 7.05 x 3		

Note:

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

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

4. Indoor sound pressure level are according to JIS B 8615 standard.

Horizontal Discharge : Position of the measurement point 1.5m below the unit.

(With 1m duct connect to the inlet and 2m duct connect to the outlet)

Vertical Discharge : Position of the measurement point is 1m away from every side of the unit and 1m above floor level.

(With Tested with 2m length duct at discharge only)

Specifications

Ducted Blower System (A5DB-H/A5MC-H)

Model	Indoor Unit			A5DB 350H3		A5DB 400H4	A5DB 450H3		
	Outdoor Unit			A5MC 100H	A5MC 125H x 2	A5MC 100H x 4	A5MC 150H x 3		
Nominal Capacity	BTU/h			350,000		400,000	450,000		
	W			102,500		117,200	131,900		
Nominal Total Input Power	W			34,550		39,330	45,930		
Nominal Running Current	A			60.4		70.20	89.30		
EER	BTU/h/W			10.13		10.17	9.80		
	W/W			2.97		2.98	2.87		
Power Source	V/Ph/Hz			380 - 415 / 3 / 50					
Indoor Unit	Control	Operation			WIRED CONTROL (FIELD SUPPLY)				
		Air Discharge			VERTICAL & CONVERTIBLE				
	Air Flow		High	l/s / CFM	4,955 / 10,500		5,710 / 12,000	6,420 / 13,500	
	External Static Pressure With Filter			Pa / in.wg		200 / 0.8		250 / 1.0	
	Sound Pressure Level			dBA		66		68	
	Unit Dimension	Height		mm / in	1,486 / 58.50				
		Width		mm / in	2,022 / 79.61		2,174 / 85.59		
		Depth		mm / in	1,069 / 42.09		1,336 / 52.6		
	Packing Dimension	Height		mm / in	1,766 / 69.53		1,766 / 69.53		
		Width		mm / in	2,279 / 89.72		2,431 / 95.71		
Depth		mm / in	1,412 / 55.59		1,684 / 66.3				
Unit Weight			kg / lb	431 / 950.19		488 / 1,075.86	533 / 1,175.06		
Outdoor Unit	Air Flow		l/s / CFM	3,020 / 6,400		3,256 / 6,900	3,020 / 6,400	4,908 / 10,400	
	Sound Pressure Level			dBA		65		70	
	Unit Dimension	Height		mm / in	1,067 / 42.00				
		Width		mm / in	880 / 34.65	980 / 38.58	880 / 34.65	980 / 38.58	
		Depth		mm / in	880 / 34.65	980 / 38.58	880 / 34.65	980 / 38.58	
	Packing Dimension	Height		mm / in	1,231 / 48.46				
		Width		mm / in	1,030 / 40.55	1,130 / 44.49	1,030 / 40.55	1,130 / 44.49	
		Depth		mm / in	1,058 / 41.65	1,158 / 45.59	1,058 / 41.65	1,158 / 45.59	
	Unit Weight			kg / lb	135 / 297.62		157 / 346.13	135 / 297.62	177 / 390.22
	Pipe Connection	Type		BRAZED					
Size		Liquid	mm / in	12.7 / 1/2			15.88 / 5/8		
		Gas	mm / in	25.4 / 1	28.58 / 1 1/8	25.4 / 1	34.92 / 1 3/8		
Refrigerant	Type		R410A						
	Charge		kg / lb	3.1 / 6.83		4.7 x 2 / 10.36 x 2	3.4 x 4 / 7.50 x 4	4.6 x 3 / 10.14 x 3	

Note:

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- All units are being tested and comply to ISO 13253.
- 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 sound pressure level are according to JIS B 8615 standard.

Horizontal Discharge : Position of the measurement point 1.5m below the unit.

(With 1m duct connect to the inlet and 2m duct connect to the outlet)

Vertical Discharge : Position of the measurement point is 1m away from every side of the unit and 1m above floor level.

(With Tested with 2m length duct at discharge only)

Specifications

Ducted Blower System (A5DB-H/A5MC-H)

Model		Indoor Unit		A5DB 500H4	A5DB 600H4	A5DB 750H5	
		Outdoor Unit		A5MC 125H x 4	A5MC 150H x 4	A5MC 150H x 5	
Nominal Capacity		BTU/h		500,000	600,000	750,000	
		W		146,500	175,850	219,900	
Nominal Total Input Power		W		49,990	61,620	78,640	
Nominal Running Current		A		85.60	118.90	152.10	
EER		BTU/h/W		10.00	9.74	9.54	
		W/W		2.93	2.85	2.80	
Power Source		V/Ph/Hz		380 - 415 / 3 / 50			
Indoor Unit	Control	Operation		WIRED CONTROL			
		Air Discharge		VERTICAL & CONVERTIBLE	VERTICAL & FACTORY CONVERTIBLE	VERTICAL & FACTORY CONVERTIBLE	
	Air Flow		High	l/s / CFM	7,135 / 15,000	8,560 / 18,000	10,700 / 22,500
	External Static Pressure With Filter		Pa / in.wg		250 / 1.0	300 / 1.2	350 / 1.4
	Sound Pressure Level		dBA		68	70	71
	Unit Dimension		Height	mm/in	1,486 / 58.50	1,918 / 75.51	2,197 / 86.5
			Width	mm / in	2,174 / 85.59		
			Depth	mm / in	1,336 / 52.6	1,775 / 69.88	
	Packing Dimension		Height	mm / in	1,766 / 69.53	2,122 / 83.54	2,401 / 94.53
			Width	mm / in	2,431 / 95.71	2,399 / 94.45	
			Depth	mm / in	1,684 / 66.3	2,005 / 78.94	
Unit Weight		kg / lb		580 / 1,278.68	899 / 1,981.96	946 / 2,085.57	
Outdoor Unit	Air Flow		l/s / CFM	3,256 / 6,900	4,908 / 10,400	4,908 / 10,400	
	Sound Pressure Level		dBA		65	70	
	Unit Dimension		Height	mm / in	1,067 / 42	1,166 / 45.91	
			Width	mm / in	980 / 38.58	980 / 38.58	
			Depth	mm / in	980 / 38.58	980 / 38.58	
	Packing Dimension		Height	mm / in	1,231 / 48.46	1,321 / 52.01	
			Width	mm / in	1,130 / 44.49	1,130 / 44.49	
			Depth	mm / in	1,158 / 45.59	1,158 / 45.59	
	Unit Weight		kg / lb		157 / 346.13	177 / 390.22	
	Pipe Connection	Type		BRAZED			
		Size	Liquid	mm / in	12.7 / 1/2	15.88 / 5/8	
	Gas		mm / in	28.58 / 1 1/8	34.92 / 1 3/8		
Refrigerant		Type		R410A			
		Charge	kg / lb	4.5 x 4 / 9.92 x 4	4.7 x 4 / 10.36 x 4	4.5 x 5 / 9.92 x 5	

Note:

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

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

4. Indoor sound pressure level are according to JIS B 8615 standard.

Horizontal Discharge : Position of the measurement point 1.5m below the unit.

(With 1m duct connect to the inlet and 2m duct connect to the outlet)

Vertical Discharge : Position of the measurement point is 1m away from every side of the unit and 1m above floor level.

(With Tested with 2m length duct at discharge only)

Indoor & Outdoor Units

R410A Ducted Blower H Series with Microchannel Heat Exchanger (MCHE) System

Capacity (BTU/h)	Indoor Unit	Outdoor Unit	Capacity (BTU/h)	Indoor Unit	Outdoor Unit
80,000	 A5DB 80H	 A5MC 80H	300,000	 A5DB 300H3	 A5MC 100H x 3
100,000	 A5DB 100H	 A5MC 100H	350,000	 A5DB 350H3	 A5MC 100H + A5MC 125H x 2
125,000	 A5DB 125H	 A5MC 125H	400,000	 A5DB 400H4	 A5MC 100H x 4
150,000	 A5DB 150H	 A5MC 150H	450,000	 A5DB 450H3	 A5MC 150H x 3
200,000	 A5DB 200H2	 A5MC 100H x 2	500,000	 A5DB 500H4	 A5MC 125H x 4
250,000	 A5DB 250H2	 A5MC 125H x 2	600,000	 A5DB 600H4	 A5MC 150H x 4
300,000	 A5DB 300H2	 A5MC 150H x 2	750,000	 A5DB 750H5	 A5MC 150H x 5

* All pictures shown are for illustration purpose only.

Ducted Split System Unit Line-up

Model	Capacity Range ('000 BTU/h)															
	40	50	60	70	100	125	200	250	300	350	400	450	500	600	750	
H-series				•	•	•	•	•	•	•	•	•	•	•	•	
Convertible Discharge						•	•	•	•	•	•	•	•			

Note:

A5DB 125H - 500H4 have convertible discharge.

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

DOUBLE SKIN DUCTED BLOWER SYSTEM

(A5DSB-H/A5MC-H)

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-H)

Microchannel Heat Exchanger (MCHE)

Simple, thin profile, all-aluminium design that is lightweight and prevents galvanic corrosion.

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



Specifications

Double Skin Ducted Blower System (A5DSB-H,A52DSB-5*/A5MC-H)

Model		Indoor Unit		A5DSB 80H	A5DSB 100H	A5DSB 125H	A5DSB 150H	
		Outdoor Unit		A5MC 80H	A5MC 100H	A5MC 125H	A5MC 150H	
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		7,100	10,000	11,350	14,800	
Nominal Running Current		A		12.50	17.10	19.70	28.70	
EER		BTU/h/W		11.27	10.00	11.01	10.14	
		W/W		3.30	2.93	3.22	2.97	
Power Source		V/Ph/Hz		IDU: 220 - 240 / 1 / 50 ODU: 380 - 415 / 3 / 50		380 - 415 / 3 / 50		
Indoor Unit	Control	Operation		WIRED CONTROL (FIELD SUPPLY)				
		Air Discharge		HORIZONTAL & NON - CONVERTIBLE		HORIZONTAL & CONVERTIBLE		
	Air Flow		High	l/s / CFM	1,085 / 2,300	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	56
	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	2,077 / 4,400	3,020 / 6,400	3,256 / 6,900	4,908 / 10,400	
	Sound Pressure Level		dBA	69	65	65	70	
	Unit Dimension		Height	mm / in	929 / 36.57	1,067 / 42		1,166 / 45.91
			Width	mm / in	1,235 / 48.62	880 / 34.65	980 / 38.58	
			Depth	mm / in	496 / 19.53	880 / 34.65	980 / 38.58	
	Packing Dimension		Height	mm / in	1,085 / 42.72	1,231 / 48.46		1,321 / 52.01
			Width	mm / in	1,385 / 54.53	1,030 / 40.55	1,130 / 44.49	
			Depth	mm / in	684 / 26.93	1,058 / 41.65	1,158 / 45.59	
	Unit Weight		kg / lb		111 / 244.71	135 / 297.62	157 / 346.13	177 / 390.22
	Pipe Connection	Type		BRAZED				
		Size	Liquid	mm / in	12.7 / 1/2		15.88 / 5/8	
	Gas		mm / in	22.23 / 7/8	25.4 / 1	28.58 / 1 1/8	34.92 / 1 3/8	
Refrigerant		Type		R410A				
		Charge	kg / lb	2.5 / 5.51	3.4 / 7.5	4.8 / 10.58	5.2 / 11.46	

Note:

- A52DSB-H* refer to to 50mm double skin PU Insulation Panel
- All specifications are subjected to change by the manufacturer without prior notice.
- All units are being tested and comply to ISO 13253.
- 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 sound pressure level are according to JIS B 8615 standard.

Horizontal Discharge : Position of the measurement point 1.5m below the unit.

(With 1m duct connect to the inlet and 2m duct connect to the outlet)

Vertical Discharge : Position of the measurement point is 1m away from every side of the unit and 1m above floor level.

(With Tested with 2m length duct at discharge only)

Specifications

Double Skin Ducted Blower System (A5DSB-H,A52DSB-5*/A5MC-H)

Model		Indoor Unit		A5DSB 200H2	A5DSB 250H2	A5DSB 300H2	A5DSB 300H3	
		Outdoor Unit		A5MC 100H x 2	A5MC 125H x 2	A5MC 150H x 2	A5MC 100H x 3	
Nominal Capacity		BTU/h		200,000	250,000	300,000		
		W		58,600	73,200	88,000		
Nominal Total Input Power		W		19,700	23,880	30,520	29,710	
Nominal Running Current		A		35.10	40.60	58.70	52.60	
EER		BTU/h/W		10.15	10.47	9.83	10.1	
		W/W		2.97	3.07	2.88	2.96	
Power Source		V/Ph/Hz		380 - 415 / 3 / 50				
Indoor Unit		Control		WIRED CONTROL (FIELD SUPPLY)				
		Air Discharge		HORIZONTAL & 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	66	
Unit Dimension (25mm)		Height	mm / in	932 / 36.69	1,282 / 50.47			
		Width	mm / in	1,770 / 69.69				
		Depth	mm / in	950 / 37.4	1,170 / 46.06			
Unit Dimension (50mm)		Height	mm / in	982 / 38.66	1332 / 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		
Outdoor Unit		Air Flow		l/s / CFM	3,020 / 6,400	3,256 / 6,900	4,908 / 10,400	3,020 / 6,400
Sound Pressure Level		dBA		65	65	70	65	
Unit Dimension		Height	mm / in	1,067 / 42	1,067 / 42	1,166 / 45.91	1,067 / 42	
		Width	mm / in	880 / 34.65	980 / 38.58		880 / 34.65	
		Depth	mm / in	880 / 34.65	980 / 38.58		880 / 34.65	
Packing Dimension		Height	mm / in	1,231 / 48.46		1,321 / 52.01	1,231 / 48.46	
		Width	mm / in	1,030 / 40.55	1,130 / 44.49		1,030 / 40.55	
		Depth	mm / in	1,058 / 41.65	1,158 / 45.59		1,058 / 41.65	
Unit Weight		kg / lb		135 / 297.62	157 / 346.13	177 / 390.22	135 / 297.62	
Pipe Connection		Type		BRAZED				
		Size	Liquid	mm / in	12.7 / 1/2		15.88 / 5/8	12.7 / 1/2
Refrigerant			Type		R410A			
		Charge		kg / lb	3.6 x 2 / 7.94 x 2	4.0 x 2 / 8.82 x 2	4.7 x 2 / 10.36 x 2	3.2 x 3 / 7.05 x 3

- Note:
- A52DSB-H* refer to 50mm double skin PU Insulation Panel
 - All specifications are subjected to change by the manufacturer without prior notice.
 - All units are being tested and comply to ISO 13253.
 - 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 sound pressure level are according to JIS B 8615 standard.
 Horizontal Discharge : Position of the measurement point 1.5m below the unit.
 (With 1m duct connect to the inlet and 2m duct connect to the outlet)
 Vertical Discharge : Position of the measurement point is 1m away from every side of the unit and 1m above floor level.
 (With Tested with 2m length duct at discharge only)

Specifications

Double Skin Ducted Blower System (A5DSB-H,A52DSB-5*/A5MC-H)

Model		Indoor Unit		A5DSB 350H3		A5DSB 400H4			
		Outdoor Unit		A5MC 100H	A5MC 125H x 2	A5MC 100H x 4			
Nominal Capacity		BTU/h		350,000		400,000			
		W		102,500		117,200			
Nominal Total Input Power		W		34,630		39,401			
Nominal Running Current		A		60.40		70.20			
EER		BTU/h/W		10.11		10.15			
		W/W		2.96		2.97			
Power Source		V/Ph/Hz		380 - 415 / 3 / 50					
Indoor Unit		Control		WIRED CONTROL (FIELD SUPPLY)					
		Operation		HORIZONTAL & CONVERTIBLE					
		Air Discharge							
		Air Flow	High	I/s / CFM	4,955 / 10,500	5,710 / 12,000			
		External Static Pressure With Filter		Pa / in.wg	200 / 0.8	250 / 1.0			
		Sound Pressure Level		dBa	66				
Unit Dimension (25mm)		Height	mm / in	1,540 / 60.63					
		Width	mm / in	2,020 / 79.53		2,170 / 85.43			
		Depth	mm / in	1,170 / 46.06		1,370 / 53.94			
Unit Dimension (50mm)		Height	mm / in	1,590 / 62.60					
		Width	mm / in	2,070 / 81.50		2,220 / 87.4			
		Depth	mm / in	1,220 / 48.03		1,420 / 55.9			
Packing Dimension (25 & 50mm)		Height	mm / in	1,790 / 70.47		1,856 / 73.07			
		Width	mm / in	2,282 / 89.84		2,432 / 95.75			
		Depth	mm / in	1,532 / 60.31		1,732 / 68.19			
Unit Weight				kg / lb	462 / 1,019	523 / 1,153			
Outdoor Unit		Air Flow		I/s / CFM	3,020 / 6,400	3,256 / 6,900	3,020 / 6,400		
		Sound Pressure Level		dBa	65				
		Unit Dimension		Height	mm / in	1,067 / 42.00			
				Width	mm / in	880 / 34.65	980 / 38.58	880 / 34.65	
				Depth	mm / in	880 / 34.65	980 / 38.58	880 / 34.65	
		Packing Dimension		Height	mm / in	1,231 / 48.46			
				Width	mm / in	1,030 / 40.55	1,130 / 44.49	1,030 / 40.55	
				Depth	mm / in	1,058 / 41.65	1,158 / 45.59	1,058 / 41.65	
		Unit Weight				kg / lb	135 / 297.62	157 / 346.13	135 / 297.62
		Pipe Connection		Type		BRAZED			
Size	Liquid			mm / in	12.7 / 1/2				
			Gas	mm / in	25.4 / 1	28.58 / 1 1/8	25.4 / 1		
Refrigerant		Type		R410A					
		Charge	kg / lb	3.1 / 6.83	4.7 x 2 / 10.36 x 2	3.4 x 4 / 7.50 x 4			

Note:

- A52DSB-H* refer to 50mm double skin PU Insulation Panel
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- All units are being tested and comply to ISO 13253.
- 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 sound pressure level are according to JIS B 8615 standard.

Horizontal Discharge : Position of the measurement point 1.5m below the unit.
(With 1m duct connect to the inlet and 2m duct connect to the outlet)

Vertical Discharge : Position of the measurement point is 1m away from every side of the unit and 1m above floor level.
(With Tested with 2m length duct at discharge only)

Specifications

Double Skin Ducted Blower System (A5DSB-H,A52DSB-5*/A5MC-H)

Model		Indoor Unit		A5DSB 450H3		A5DSB 500H4			
		Outdoor Unit		A5MC 150H x 3		A5MC 125H x 4			
Nominal Capacity		BTU/h		450,000		500,000			
		W		131,900		146,500			
Nominal Total Input Power		W		45,930		49,990			
Nominal Running Current		A		89.30		85.60			
EER		BTU/h/W		9.80		10.00			
		W/W		2.87		2.93			
Power Source		V/Ph/Hz		380 - 415 / 3 / 50					
Indoor Unit		Control		WIRED CONTROL (FIELD SUPPLY)					
		Operation		HORIZONTAL & CONVERTIBLE					
		Air Discharge							
		Air Flow		High		l/s / CFM			
				6,420 / 13,500		7,135 / 15,000			
		External Static Pressure With Filter		Pa / in.wg		250 / 1.0			
		Sound Pressure Level		dBA		68			
Unit Dimension (25mm)		Height		mm / in		1,540 / 60.63			
		Width		mm / in		2,170 / 85.43			
		Depth		mm / in		1,370 / 53.94			
Unit Dimension (50mm)		Height		mm / in		1,590 / 62.60			
		Width		mm / in		2,220 / 87.40			
		Depth		mm / in		1,420 / 55.90			
Packing Dimension (25 & 50mm)		Height		mm / in		1,856 / 73.07			
		Width		mm / in		2,432 / 95.75			
		Depth		mm / in		1,732 / 68.19			
Unit Weight		kg / lb		568 / 1,252		614 / 1,354			
Outdoor Unit		Air Flow		l/s / CFM		4,908 / 10,400			
		Sound Pressure Level		dBA		70			
		Unit Dimension		Height		mm / in		1,166 / 43.94	
				Width		mm / in		980 / 38.58	
				Depth		mm / in		980 / 38.58	
		Packing Dimension		Height		mm / in		1,231 / 48.46	
				Width		mm / in		1,130 / 44.49	
				Depth		mm / in		1,158 / 45.59	
		Unit Weight		kg / lb		177 / 390.22		157 / 346.13	
		Pipe Connection		Type		BRAZED			
				Size		Liquid		mm / in	
						15.88 / 5/8		12.7 / 1/2	
				Gas		mm / in			
				34.92 / 1 3/8		28.58 / 1 1/8			
Refrigerant		Type		R410A					
		Charge		kg / lb		4.7 x 2 / 10.36 x 2			
						4.5 X 4 / 9.92 x 4			

Note:

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- All specifications are subjected to change by the manufacturer without prior notice.
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(With Tested with 2m length duct at discharge only)



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