

Haier

NEW

DUCTED MEDIUM PRESSURE



- 3,5 kW
- 5,0 kW
- 7,1 kW
- 10,5 kW
- 12,5 kW
- 13,4 kW
- 14,0 kW
- 16,0 kW



Integrated
Wi-Fi Control



Recommended controls
HW-BA101ABT or HW-SA301AFK

Please see pages 31 & 32
For Controller Options

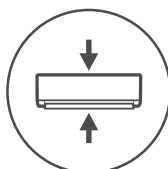


Designed for ultimate flexibility, this compact unit (just 248mm high) can fit in low ceiling spaces and offers dual air return options (rear or bottom) for adaptable installation. With 150Pa max ESP and left/right drain outlets, setup is effortless. The built-in 1000mm lift drain pump and 2-screw access panel simplify maintenance, while Air Guard technology delivers 99.9% antibacterial filtration and UVC sterilization for purified air. Wi-Fi control via hOn App and optional fresh-air intake make this a smart, hygienic solution.

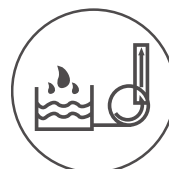
KEY FEATURES



Silence



Compact
Design



Condensate
Drain Pump



Flexible
Installation



UVC
Sterilisation

MODEL	Indoor NEW		AD35S2SM9FA(H)	AD50S2SM9FA(H)	AD71S2SM9FA(H)
	Outdoor		1U35S2SM1FA-2	1U50S2SJ2FA-2	1U71S2ST1FA
Performance data					
Output power - COOLING	nom (min-max)	kW	3,5 (0,9~4,5)	5,0 (1,8~6,0)	7,1 (2,0~7,3)
Output power - HEATING	nom (min-max)	kW	4,0 (1,0~4,8)	6,0 (2,0~6,2)	7,6 (2,5~8)
Absorbed power – COOLING	nom (min-max)	kW	1,08 (0,28~1,80)	1,55 (0,55~2,00)	2,08 (0,5~2,6)
Absorbed power – HEATING	nom (min-max)	kW	1,08 (0,28~1,80)	1,48 (0,60~2,00)	2,00 (0,5~2,6)
Energy class	EER	W/W	3,23	3,42	3,01
	COP	W/W	3,71	3,8	3,5
COOLING Pdesign	35 °C	kW	3,5	5,0	6,8
HEATING Pdesign	(-10 °C)	kW	2,7	4,5	5
Energy class	SEER		6,10 (A++)	6,10 (A++)	6,83 (A++)
	SCOP		4,00 (A+)	4,00 (A+)	4,25 (A+)
Annual Energy Consumption - COOLING		kWh/a	215	291	406
Annual Energy Consumption - HEATING		kWh/a	1020	1782	1831
Indoor Unit					
Power supply		Ph/V/Hz	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60
Treated air volume	H/M/L/Q	m3/h	840/720/600/450	1020/900/780/550	1440/1260/1100/900
External static pressure		L/h	25(default)/37/50/70/90/100/110/120/130/150		
High sound power		dB	55	56	60
Sound pressure		dB(A)	41/35/28/26	43/37/30/28	44/41/39/36
Net dimensions	WxDxH	mm	700x700x248	1100x700x248	1100x700x248
Packaging dimensions	WxDxH	mm	914x866x318	1316x866x318	1316x866x318
Net/gross weight		kg	26,0/30,0	31,0/35,0	31,0/35,0
Outdoor Unit					
Power supply		Ph/V/Hz	1/220~240/50	1/220~240/50	1/220~240/50/60
Power cable		N x mm2	3 x 1,5	3 x 1,5	3 x 4,0
Interconnection cable		N x mm2	4 x 1,0	4 x 1,0	4 x 2,5
Sound power	H	dB	61	63	68
Sound pressure	H	dB(A)	48	51	54
Running current cooling/heating	Max	A	8,0	10,68	13,1
Starting current cooling/heating	Max	A	2,0	2,0	2,0
Net dimensions	WxDxH	mm	800x275x553	820x305x643	890x340x705
Packaging dimensions	WxDxH	mm	902x375x605	940x390x697	1046x460x780
Net/gross weight		kg	30,0/32,9	35,7/38,5	44,0/48,0
Compressor type			Rotary inverter	Rotary inverter	Twin rotary inverter
Installation data					
Refrigerant			R32	R32	R32
Liquid pipe	Ø	mm (inch)	6,35 (1/4)	6,35 (1/4)	9,52 (3/8)
Gas pipe	Ø	mm (inch)	9,52 (3/8)	12,70 (1/2)	15,88 (5/8)
Standard pipe length without refrigerant charge		m	7	7	10
Maximum pipe length		m	20	25	50
Maximum IU - OU elevation		m	10	15	30
Refrigerant charge in the factory		kg	0,78	1,10	1,23
Refrigerant charge in the factory		TCO2eq	0,53	0,74	0,88
Additional ref. charge over std length		g/m	20	20	45
Operating limits - COOLING (in/out)	min-max	°C	-20~43	-20~43	-20~46
Operating limits - HEATING (in/out)	min-max	°C	-20~24	-20~24	-20~24

Additional technical specifications on next page →

DUCTED MEDIUM PRESSURE



MODEL	Indoor NEW		AD105S2SM9FA(H)	AD105S2SM9FA(H)	AD125S2SM9FA(H)	AD125S2SM9FA(H)		
	Outdoor		1U105S2SS2FA	1U105S2SS1FB	1U125S2SN2FA	1U125S2SN2FB		
Performance data								
Output power - COOLING	nom (min-max)	kW	9,5 (2,5~10,0)	9,5 (2,5~10,0)	12,3 (3,0~13,0)	12,4 (3,0~13,0)		
Output power - HEATING	nom (min-max)	kW	10,2 (3,0~10,5)	10,5 (3,0~11)	12,7 (3,5~13,5)	12,8 (3,5~13,5)		
Absorbed power – COOLING	nom (min-max)	kW	3,16 (0,5~4,0)	3,27 (0,5~4,0)	4,6 (1,0~6,0)	4,51 (1,0~6,0)		
Absorbed power – HEATING	nom (min-max)	kW	2,91 (0,5~4,0)	3,00 (0,5~4,0)	3,93 (1,0~6,0)	3,87 (1,0~6,0)		
Energy class	EER	W/W	3,01	2,9	2,67	2,75		
	COP	W/W	3,5	3,5	3,23	3,31		
COOLING Pdesign	35 °C	kW	9,5	9,5	12,3	12,4		
HEATING Pdesign	(-10 °C)	kW	7,2	6	8	8		
Energy class	SEER		6,10 (A++)	6,00 (A+)	5,72 (A+)	5,85 (A+)		
	SCOP		3,80 (A)	3,91 (A)	3,93 (A)	3,96 (A)		
Annual Energy Consumption - COOLING		kWh/a	544	569	735	718		
Annual Energy Consumption - HEATING		kWh/a	2792	2094	3032	3003		
Indoor Unit								
Power supply		Ph/V/Hz	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60		
Treated air volume	H/M/L/Q	m3/h	1600/1480/1360/1240	1600/1480/1360/1240	2250/1960/1680/1500	2250/1960/1680/1500		
External static pressure		Pa	25/37(default)/50/70/90/100/110/120/130/150					
High sound power		dB	61	61	65	65		
Sound pressure		dB(A)	47/44/40/37	47/44/40/37	48/45/42/39	48/45/42/39		
Net dimensions	WxDxH	mm	1100x700x248	1100x700x248	1500x700x248	1500x700x248		
Packaging dimensions	WxDxH	mm	1316x866x318	1316x866x318	1711x870x325	1711x870x325		
Net/gross weight		kg	38,0/42,0	38,0/42,0	48,0/57,0	48,0/57,0		
Outdoor Unit								
Power supply		Ph/V/Hz	1/220~240/50/60	3/380~415/50/60	1/220~240/ 50/60	3/380~415/ 50/60		
Power cable		N x mm2	3 x 4,0	5 x 4,0	3 x 6,0	5 x 4,0		
Interconnection cable		N x mm2	4 x 2,5	4 x 2,5	4 x 2,5	4 x 2,5		
Sound power	H	dB	66	68	72	72		
Sound pressure	H	dB(A)	53	54	58	58		
Running current cooling/heating	Max	A	16,5	6,8	26,0	10,0		
Starting current cooling/heating	Max	A	3,0	1,0	4,0	2,0		
Net dimensions	WxDxH	mm	920x372x765	920x372x765	950x370x965	950x370x965		
Packaging dimensions	WxDxH	mm	1036x478x820	1085x485x830	1050x485x1130	1050x485x1130		
Net/gross weight		kg	60,0/65,0	61,0/66,0	84,0/89,0	85,0/90,0		
Compressor type			Twin rotary inverter	Twin rotary inverter	Twin rotary inverter	Twin rotary inverter		
Installation data								
Refrigerant			R32	R32	R32	R32		
Liquid pipe	Ø	mm (inch)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)		
Gas pipe	Ø	mm (inch)	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)		
Standard pipe length without refrigerant charge		m	30	30	30	30		
Maximum pipe length		m	50	50	50	50		
Maximum IU - OU elevation		m	30	30	30	30		
Refrigerant charge in the factory		kg	1,70	1,70	2,30	2,30		
Refrigerant charge in the factory		TCO2eq	1,15	1,15	1,55	1,55		
Additional ref. charge over std length		g/m	45	45	45	45		
Operating limits - COOLING (in/out)	min-max	°C	-20~46	-20~46	-20~46	-20~46		
Operating limits - HEATING (in/out)	min-max	°C	-20~24	-20~24	-20~24	-20~24		

	AD140S2SM9FA(H)	AD140S2SM9FA(H)	AD140S2SM9FA(H)	AD140S2SM9FA(H)	AD160S2SM9FA(H)
	1U140S2SN1FA	1U140S2SN1FB	1U140S2SP2FA	1U140S2SP2FB	1U160S2SP1FB
	13,4 (3,5~14,0)	13,4 (3,5~14,0)	13,4 (4,0~15,0)	13,4 (4,0~15,0)	16,0 (4,5~16,5)
	15,0 (4,0~15,5)	15,0 (4,0~15,5)	15,0 (4,5~16,0)	15,0 (4,5~16,0)	17,0 (5,0~18,0)
	5,28 (1,0~6,5)	5,18 (1,0~6,5)	4,14 (1,0~6,0)	4,15 (1,0~6,0)	5,48 (1,0~6,5)
	4,92 (1,0~6,5)	4,79 (1,0~6,5)	4,03 (1,0~6,0)	4,02 (1,0~6,0)	4,82 (1,0~6,5)
	2,54	2,59	3,24	3,23	2,92
	3,05	3,13	3,72	3,73	3,53
	13,4	13,4	13,4	13,4	16
	8,5	8,5	11	11	11
	5,62 (A+)	5,64 (A+)	6,16 (A++)	6,19 (A++)	5,94 (A+)
	3,93 (A)	3,96 (A)	4,06 (A+)	4,06 (A+)	4,06 (A+)
	835	832	761	758	943
	3032	3003	3796	3798	3798
	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60
	2500/2160/1780/1500	2500/2160/1780/1500	2500/2160/1780/1500	2500/2160/1780/1500	2500/2160/1780/1500
	25/37(default)/50/70/90/100/110/120/130/150				
	66	66	66	66	67
	48/45/42/39	48/45/42/39	48/45/42/39	48/45/42/39	48/45/42/39
	1500x700x248	1500x700x248	1500x700x248	1500x700x248	1500x700x248
	1711x870x325	1711x870x325	1711x870x325	1711x870x325	1711x870x325
	48,0/57,0	48,0/57,0	48,0/57,0	48,0/57,0	48,0/57,0
	1/220~240/ 50/60	3/380~415/ 50/60	1/220~240/50/60	3/380~415/50/60	3/380~415/50/60
	3 x 6,0	5 x 4,0	3 x 6,0	5 x 4,0	5 x 4,0
	4 x 2,5	4 x 2,5	4 x 2,5	4 x 2,5	4 x 2,5
	72	72	70	70	72
	58	58	53	53	58
	30,0	10,0	32,0	10,0	10,0
	5,0	2,0	6,0	2,0	2,0
	950x370x965	950x370x965	950x370x1350	950x370x1350	950x370x1350
	1050x485x1130	1050x485x1130	1050x485x1500	1050x485x1500	1050x485x1500
	84,0/89,0	85,0/90,0	105,0/118,0	101,0/116,0	101,0/116,0
	Twin rotary inverter	Twin rotary inverter	Twin rotary inverter	Twin rotary inverter	Twin rotary inverter
	R32	R32	R32	R32	R32
	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)
	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)	19,05 (3/4)
	30	30	30	30	30
	70	70	70	70	70
	30	30	30	30	30
	2,30	2,30	2,90	3,50	3,50
	1,55	1,55	1,96	2,36	2,36
	45	45	45	45	60
	-20~46	-20~46	-20~46	-20~46	-20~46
	-20~24	-20~24	-20~24	-20~24	-20~24

DUCTED MEDIUM PRESSURE



MODEL	Indoor NEW		AD71S2SM9FA(H)	AD105S2SM9FA(H)	
	Outdoor NEW		1U71S2SR3FA	1U105S2SQ1FA	
Performance data					
Output power - COOLING	nom (min-max)	kW	7,1 (2,0-8,2)	9,5 (2,5-10,0)	
Output power - HEATING	nom (min-max)	kW	7,6 (2,5-8,5)	10,5 (3,0-12,5)	
Absorbed power – COOLING	nom (min-max)	kW	2,10 (0,5-3,0)	2,79 (0,5-4,0)	
Absorbed power – HEATING	nom (min-max)	kW	2,00 (0,5-2,6)	2,80 (0,5-4,0)	
Energy class	EER	W/W	3,28	3,40	
	COP	W/W	3,80	3,75	
COOLING Pdesign	35 °C	kW	7,10	9,50	
HEATING Pdesign	(-10 °C)	kW	5,00	7,20	
Energy class	SEER		6,21 (A++)	6,20 (A++)	
	SCOP		4,20 (A+)	4,05 (A+)	
Annual Energy Consumption - COOLING		kWh/a	390	544	
Annual Energy Consumption - HEATING		kWh/a	1800	2792	
Indoor Unit					
Power supply		Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	
Treated air volume	H/M/L/Q	m3/h	1440/1260/1100/900	1600/1480/1360/1240	
External static pressure		Pa	25(default)/37/50/70/ 90/100/110/120/130/150	25/37(default)/50/70/ 90/100/110/120/130/150	
High sound power		dB	58	61	
Sound pressure		dB(A)	44/41/39/36	47/44/40/37	
Net dimensions	WxDxH	mm	1100x700x248	1100x700x248	
Packaging dimensions	WxDxH	mm	1316x866x318	1316x866x318	
Net/gross weight		kg	31,0/35,0	38,0/42,0	
Outdoor Unit					
Power supply		Ph/V/Hz	1/220-240/50/60	1/220-240/50/60	
Power cable		N x mm2	3 x 4,0	3 x 4,0	
Interconnection cable		N x mm2	4 x 2,5	4 x 2,5	
Sound power	H	dB	68	68	
Sound pressure	H	dB(A)	54	54	
Running current cooling/heating	Max	A	13,1	16,5	
Starting current cooling/heating	Max	A	2,0	3,0	
Net dimensions	WxDxH	mm	890x340x700	950x370x815	
Packaging dimensions	WxDxH	mm	985x430x720	1085x465x850	
Net/gross weight		kg	37,0/42,0	56,0/60,0	
Compressor type			Twin rotary inverter	Twin rotary inverter	
Installation data					
Refrigerant			R32	R32	
Liquid pipe	Ø	mm (inch)	9,52 (3/8)	9,52 (3/8)	
Gas pipe	Ø	mm (inch)	15,88 (5/8)	15,88 (5/8)	
Standard pipe length without refrigerant charge		m	10	30	
Maximum pipe length		m	50	50	
Maximum IU - OU elevation		m	30	30	
Refrigerant charge in the factory		kg	1,30	1,70	
Refrigerant charge in the factory		TCO2eq	0,87	1,14	
Additional ref. charge over std length		g/m	45	45	
Operating limits - COOLING (in/out)	min-max	°C	-20-46	-20-46	
Operating limits - HEATING (in/out)	min-max	°C	-20-24	-20-24	

	AD125S2SM9FA(H)	AD125S2SM9FA(H)	AD140S2SM9FA(H)	AD140S2SM9FA(H)
	1U125S2SN3FA	1U125S2SN3FB	1U140S2SN2FA	1U140S2SN2FB
	12,4 (3,0~13,0)	12,4 (3,0~13,0)	13,4 (4,0~15,0)	13,4 (4,0~15,0)
	13,6 (4,0~15,5)	13,6 (4,0~15,5)	15,0 (4,0~16,0)	15,0 (4,0~16,0)
	4,13 (1,0~6,0)	4,13 (1,0~6,0)	5,00 (1,0~6,0)	5,00 (1,0~6,0)
	3,66 (1,0~6,0)	3,66 (1,0~6,0)	4,10 (1,0~6,0)	4,10 (1,0~6,0)
	3,00	3,00	2,55	2,55
	3,72	3,72	3,30	3,30
	12,40	12,40	13,40	13,40
	8,30	8,30	8,50	8,50
	6,15 (A++)	6,15 (A++)	6,10 (A++)	6,10 (A++)
	4,05 (A+)	4,05 (A+)	4,00 (A+)	4,00 (A+)
	710	710	820	820
	2980	2980	3020	3020
	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60	1/220~240/50/60
	2250/1960/1680/1500	2250/1960/1680/1500	2500/2160/1780/1500	2500/2160/1780/1500
	25/37(default)/50/70/90/100/110/120/130/150	25/37(default)/50/70/90/100/110/120/130/150	25/37(default)/50/70/90/100/110/120/130/150	25/37(default)/50/70/90/100/110/120/130/150
	65	65	66	66
	48/45/42/39	48/45/42/39	48/45/42/39	48/45/42/39
	1500x700x248	1500x700x248	1500x700x248	1500x700x248
	1711x870x325	1711x870x325	1711x870x325	1711x870x325
	48,0/57,0	48,0/57,0	48,0/57,0	48,0/57,0
	1 /220~240/ 50/60	3 /380~415/50/60	1 /220~240/50/60	3 /380~415/50/60
	3 x 6,0	3 x 6,0	3 x 6,0	3 x 6,0
	4 x 2,5	4 x 2,5	4 x 2,5	4 x 2,5
	72	72	74	74
	58	58	58	58
	26,0	26,0	30,0	30,0
	4,0	4,0	5,0	5,0
	950x370x965	950x370x965	950x370x965	950x370x965
	1050x485x1130	1050x485x1130	1050x485x1130	1050x485x1130
	63,0/73,0	63,0/73,0	68,0/78,0	68,0/78,0
	Twin rotary inverter	Twin rotary inverter	Twin rotary inverter	Twin rotary inverter
	R32	R32	R32	R32
	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)
	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)
	30	30	30	30
	50	50	70	70
	30	30	30	30
	2,30	2,30	2,50	2,50
	1,55	1,55	1,68	1,68
	45	45	45	45
	-20~46	-20~46	-20~46	-20~46
	-20~24	-20~24	-20~24	-20~24