

# ROUND FLOW CASSETTE

7.1 kW

9.2 kW

12.3 kW

Please see pages 40 & 41  
For Controller Options

A+ / A



Silence

8 Way  
Independent

Fresh Air

Integrated  
Wi-Fi ControlUVC  
Sterilisation

- Low noise level
- 'Fresh air' knockout is incorporated in the chassis to allow fresh air introduction of up to 20% of nominal unit air flow without compromising the cooling capacity. More than 20% of the air conditioner's thermal cooling capacity is penalise.
- Integrated Wi-Fi control
- UVC Sterilisation

Indoor Unit	Model	AB71S25Q2FAH	ABH105H1ERGH	ABH105H1ERGH	ABH125K1ERGH	ABH125K1ERGH
Outdoor Unit	Model	1U71S25T3FA	1U105S25Z2FA	1U105S25S1FB	1U125S25N2FA	1U125S25N2FB
<b>Performance data</b>						
Output power - COOLING	nom (min-max)	kW 7.10 (2.00 - 7.30)	9.20 (2.50 - 10.00)	9.20 (2.30 - 10.00)	12.30 (3.00 - 13.00)	12.40 (3.00 - 13.00)
Output power - HEATING	nom	7.90 (2.50 - 8.00)	10.10 (3.00 - 10.50)	10.50 (3.00 - 11.00)	12.70 (3.50 - 13.50)	12.80 (3.50 - 13.50)
Absorbed power - COOLING	nom (min-max)	kW 2.00 (0.50 - 2.60)	3.12 (0.50 - 4.00)	3.25 (0.50 - 4.00)	4.84 (1.00 - 6.00)	4.81 (1.00 - 6.00)
Absorbed power - HEATING	nom (min-max)	kW 2.11 (0.50 - 2.60)	2.91 (0.50 - 4.00)	3.10 (0.50 - 4.00)	4.44 (1.00 - 6.00)	4.41 (1.00 - 6.00)
Energy class	EER	W/W 5.55	3.00	3.00	2.54	2.58
	COP	W/W 5.75	3.50	3.50	2.86	2.93
COOLING P <sub>design</sub>	35 °C	kW 7.10	9.20	9.20	12.30	12.40
HEATING P <sub>design</sub>	(-10 °C)	kW 5.00	7.00	6.00	8.50	8.50
Energy class	SEER	6.85 (A++)	5.90 (A++)	5.90 (A+)	5.68 (A+)	5.71 (A+)
	SCOP	4.23 (A+)	3.80 (A)	3.91 (A)	3.93 (A)	3.96 (A)
Annual Energy Consumption - COOLING	kWh/a	406	555	555	740	736
Annual Energy Consumption - HEATING	kWh/a	1831	2780	2156	3032	3003
<b>Indoor Unit</b>						
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	1/220-240/50/60
Treated air volume	(H/M/L/Q)	m <sup>3</sup> /h 1260/1070/820/680	1680/1590/1520/1190	1680/1530/1520/1190	1980/1600/1480/1200	1950/1600/1440/1200
High sound power		dB 57	62	65	64	64
Sound pressure		dB(A) 42/40/38/35	45/42/38/34	45/42/38/34	47/44/38/34	47/44/38/34
Net dimensions	WxDxH	mm 840x840x204	840x840x246	840x840x246	840x840x288	840x840x288
Packaging dimensions	WxDxH	mm 990x990x310	990x990x330	990x990x330	990x990x380	990x990x380
Net/gross weight		kg 27.0/32.0	31.0/36.0	31.0/36.0	32.0/38.0	32.0/38.0
Panel	Model	PB-950KB(H)	PB-950KB(H)	PB-950KB(H)	PB-950KB(H)	PB-950KB(H)
Panel Net dimensions		950x950x30	950x950x30	950x950x30	950x950x30	950x950x30
Panel Packaging dimensions		1013x1025x123	1013x1025x123	1013x1025x123	1013x1025x123	1013x1025x123
Panel Net/gross weight		6.5/9.5	6.5/9.5	6.5/9.5	6.5/9.5	6.5/9.5
<b>Outdoor Unit</b>						
Power supply		Ph/V/Hz 1/220-240/50/60	1/220-240/50/60	5/380-415/50/60	1/220-240/50/60	5/380-415/50/60
Power cable		N x mm <sup>2</sup> 3 x 4.0	3 x 4.0	3 x 4.0	3 x 6.0	3 x 6.0
Interconnection cable		N x mm <sup>2</sup> 4 x 2.5	4 x 2.5	4 x 2.5	4 x 2.5	4 x 2.5
Sound power	H	dB 68	66	68	72	72
Sound pressure	H	dB(A) 54	53	54	58	58
Running current cooling/heating	Max	A 15.1	16.5	6.8	26.0	30.0
Starting current cooling/heating	Max	A 2.0	3.0	1.0	4.0	2.0
Net dimensions	WxDxH	mm 890x540x705	920x372x765	920x372x765	990x370x965	990x370x965
Packaging dimensions	WxDxH	mm 1046x406x780	1036x478x820	1085x485x830	1050x485x1130	1090x485x1130
Net/gross weight		kg 44.0/48.0	60.0/65.0	61.0/66.0	80.0/90.0	80.0/90.0
Compressor type		Twin rotary inverter/Twin rotary inverter/Twin rotary inverter/Twin rotary inverter/Twin rotary inverter				
<b>Installation data</b>						
Refrigerant		R32	R32	R32	R32	R32
Liquid pipe	Ø	mm (inch) 9.52 (5/8)	9.52 (5/8)	9.52 (5/8)	9.52 (5/8)	9.52 (5/8)
Gas pipe	Ø	mm (inch) 15.88 (5/8)	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	30
Maximum pipe length	m	50	50	50	50	50
Maximum H <sub>2</sub> O elevation	m	30	30	30	30	30
Refrigerant charge in the factory	kg	1.25	1.70	1.70	2.50	2.50
Refrigerant charge in the factory	T CO <sub>2</sub> eq	0.83	1.15	1.15	1.55	1.55
Additional ref. charge over std length	g/m	45	45	45	45	45
Outdoor operating limits - COOLING	min-max	°C	-20-46			
Outdoor operating limits - HEATING	min-max	°C	-20-24			



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Indoor Unit	Model	ABH140K1ERGH1	ABH140K1ERGH1	ABH140K1ERGH1	ABH140K1ERGH1	ABH160K1ERGH1
Outdoor Unit	Model	1U140S2S1F1A	1U140S2S1F1B	1U140S2S2F1A	1U140S2S2F1B	1U160S2S1F1B
<b>Performance data</b>						
Output power - COOLING	nom (Inn-max)	13,40 (4,50-14,00)	13,40 (4,50-14,00)	13,60 (4,00-15,00)	13,60 (4,00-15,00)	15,00 (4,50-16,00)
Output power - HEATING	nom (Inn-max)	15,00 (4,00-15,50)	15,00 (4,00-15,50)	15,00 (4,50-16,00)	15,00 (4,50-16,00)	16,00 (5,00-17,00)
Absorbed power - COOLING	nom (Inn-max)	5,51 (1,00-6,50)	5,28 (1,00-6,50)	4,86 (1,00-6,00)	4,98 (1,00-6,00)	5,03 (1,00-6,50)
Absorbed power - HEATING	nom (Inn-max)	5,77 (1,00-6,50)	5,70 (1,00-6,50)	4,73 (1,00-6,00)	4,67 (1,00-6,00)	5,26 (1,00-6,50)
Energy class	EER	W/W	2,43	2,54	2,80	2,73
	COP	W/W	2,60	2,65	3,10	3,06
COOLING Pdesign	35 °C	kW	13,40	13,40	13,60	13,60
HEATING Pdesign	(-10 °C)	kW	8,50	8,50	10	10
Energy class	SEER		5,60 (A+)	5,62 (A+)	5,70 (A+)	5,70 (A+)
	SCOP		3,93 (A)	3,96 (A)	3,94 (A)	3,99 (A)
Annual Energy Consumption - COOLING	kWh/a		838	834	800	782
Annual Energy Consumption - HEATING	kWh/a		3032	3003	3768	3746

Indoor Unit		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
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	1/220-240/50/60
Treated air volume	(HVM/L)Q	1950/1600/1440/1200	1850/1600/1440/1200	1950/1600/1440/1200	1950/1600/1440/1200	2050/1800/1440/1200
High sound power	dB	64	64	64	64	65
Sound pressure	dB(A)	47/44/38/34	47/44/38/34	47/44/38/34	47/44/38/34	48/44/38/34
Net dimensions	WxDxH	840x840x288	840x840x288	840x840x288	840x840x288	840x840x288
Packaging dimensions	WxDxH	990x990x380	990x990x380	990x990x380	990x990x380	990x990x380
Net/gross weight	kg	32,0/38,0	32,0/38,0	32,0/38,0	32,0/38,0	32,0/38,0
Panel	Model	P8-910K(B)H	P8-910K(B)H	P8-910K(B)H	P8-910K(B)H	P8-910K(B)H
Panel Net dimensions		910x910x50	910x910x50	910x910x50	910x910x50	910x910x50
Panel Packaging dimensions		1013x1023x123	1013x1023x123	1013x1023x123	1013x1023x123	1013x1023x123
Panel Net/gross weight		6,5/9,5	6,5/9,5	6,5/9,5	6,5/9,5	6,5/9,5

Outdoor Unit		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	
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	3/380-415/50/60	
Power cable	N x mm2	3 x 6,0	5 x 6,0	3 x 6,0	5 x 4,0	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	4 x 2,5	
Sound power	H	72	70	72	70	72	
Sound pressure	H	dB(A)	58	58	53	58	
Running current cooling/heating	Max	A	30,0	10,0	32,0	10,0	
Starting current cooling/heating	Max	A	5,0	2,0	6,0	2,0	
Net dimensions	WxDxH	950x370x965	950x370x965	950x370x1350	950x370x1350	950x370x1350	
Packaging dimensions	WxDxH	1050x485x1150	1050x485x1150	1050x485x1500	1050x485x1500	1050x485x1500	
Net/gross weight	kg	84,0/89,0	85,0/90,0	105,0/118,0	101,0/116,0	101,0/116,0	
Compressor type		Twin rotary inverter/Twin rotary inverter/Twin rotary inverter/Twin rotary inverter/Twin rotary inverter					

Installation data			R32	R32	R32	R32	R32
Refrigerant			R32	R32	R32	R32	R32
Liquid pipe	Ø	mm (inch)	9,52 (5/8)	9,52 (5/8)	9,52 (5/8)	9,52 (5/8)	9,52 (5/8)
Gas pipe	Ø	mm (inch)	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)	19,05 (5/4)
Standard pipe length without refrigerant charge	m		30	30	30	30	30
Maximum pipe length	m		70	70	70	70	70
Maximum IU - OU elevation	m		30	30	30	30	30
Refrigerant charge in the factory	kg		2,30	2,30	2,90	3,50	3,50
Refrigerant charge in the factory	TCO2eq		1,55	1,55	1,96	2,36	2,36
Additional ref. charge over std length	g/m		45	45	45	45	60
Outdoor operating limits - COOLING min-max	°C				-20-46		
Outdoor operating limits - HEATING min-max	°C				-20-24		