

Mechanical Specification Sheets

1. Tech Sub - MVHR 01 & 02 - CF5³-0-EH-S-R0
2. Samsung AM022ANMPKH
3. DVM S2 High Efficiency Heat Recovery (3-Pipe)
4. Samsung WindFree™ High Wall Deluxe

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PROJECT DETAILS

Tootal Building, Manchester

We thank you for your valued enquiry and have pleasure in submitting our quotation for the supply of AirSource Ventilation products and services as detailed below.

SPECIFICATIONS

COUNTERFLOW UNIT CONSTRUCTION

Casework: 50-45mm Aluminium pentapost construction complete monobloc interference fit riveted corners.
 Inner skin: 0.9mm self-colour galvanised mild steel
 Outer skin: 0.9mm self-colour galvanised mild steel
 Insulation: 40mm thick glass fibre. Suspended units have additional acoustic treatment as standard.

Mounting: Suspended units will be fitted with integral fixings suitable for drop rod supports fitted to ceiling.

Build Standard: Casing Strength: D1
 Casing Leakage: L3

SCHEDULE

Unit Type	Reference		Qty	
CF5-0-EH-S-R0	MVHR 01 & 02 Prewired RDM BACnet controls		2	
	Electric Heater battery		2	
	Co2 and temperature sensor		2	
	Enabling of BACnet Communication		2	
	Touchscreen interface for air balancing and fault monitoring		1	
	Standard delivery, Normal Hours, Flat Bed Truck		1	
			Total:	

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TECH SUB

GENERAL NOTES

Please refer to the Quotation Reference Q8430/0 in any future correspondence.
Please refer to the inclusions / exclusions list, which must be read in conjunction with our offer.
Please check our offer meets with your own, AND your clients' requirements.
The quotation is based on the following:
External Static Pressure (ESP) advised by yourselves.
No allowance has been included for velocity pressure caused by sudden changes in direction, size or shape of the duct work at the unit discharge.
Fan selection has been based off the above points with a small motor safety margin applied, in line with good practice guidelines.
Delivery period is from receipt of approval of drawings, not date of order placement.

UNIT NOTES

Counterflow Unit Notes & Qualifications

INCLUSIONS

Units have backward-curved direct-driven EC plug fans, with integrated inverter, on supply and extract.
Units are suitable for internal mounting, within a ceiling void
Units use a Counterflow Heat Exchanger for heat recovery.
Heat exchanger will be provided with condensate pump supplied fitted with tube connection on side of units.
Prewired unit with BACnet compatible controller in the panel.
Electric Heater Batteries

EXCLUSIONS

Attenuators

Notes: If a controls commissioning visit is required, we can offer this for a fee of £500 per visit. Please note we could commission up to 5 units per day, dependant on unit positioning and accessibility.

We trust you will find our quotation satisfactory but, should you require any further information or assistance, please do not hesitate to contact the undersigned.

Yours faithfully

Lisa Barry

Internal Sales Manager

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TECH SUB

STANDARD EXCLUSIONS

- Retentions and/or liquidated/ascertained damages, or any other associated damages.
- Contractor discounts.
- Performance bonds.
- Collateral warranty.
- Offloading, positioning, erection and site supervision.
- Protection on site.
- Packaging in cases or crates other than as stated in our quotation.
- Mains power and field wiring to remote sensors and equipment.
- Network cables and fire alarm interface.
- Head end graphics and networking of controls.
- Air balancing.
- Any pipe work, or valves, external to the unit, unless otherwise detailed in our quotation.
- Condensate drain trap and pipe work / tubing to drain.

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TECH SUB

CF HRU

STANDARD SPECIFICATION: VOID MOUNTED HEAT RECOVERY UNIT

The AirSource void mounted heat recovery unit is designed to offer quiet and efficient demand-controlled ventilation. Packaged options include BMS control philosophies, duct mounted attenuators, acoustic casework.

CONSTRUCTION

50-45mm aluminium pentapost frame with 40mm double skinned panel construction. Upgraded high specification acoustic casework is available where low noise levels are required. Each unit will be fitted with external lugs suitable for drop rod supports fitted to soffit.

DAMPERS

Opposed blade shut off dampers for supply and exhaust complete with actuators available as standard.

FILTRATION

Supply air and return air shall have G4 panels. All filters are complete with pressure switches.

HEAT RECOVERY

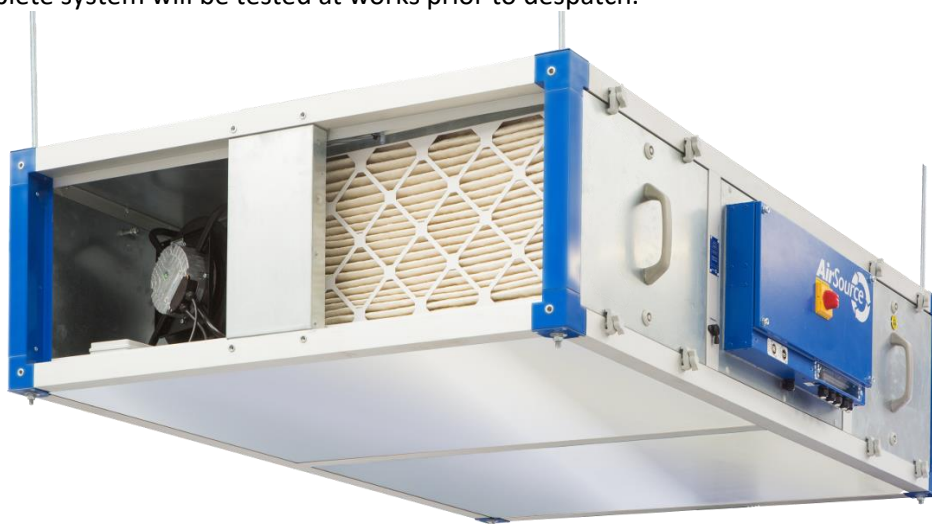
The unit uses a counterflow plate heat exchanger (aluminium construction) to provide a minimum of 80% energy recovery from the exhaust air to the supply air path.

FANS

Low energy EC plug fans with backward curved impellor complete with integrated inverters wired to an external isolator and pressure switch.

CONTROLS

The unit is offered complete with a pre-wired, pre-programmed BMS Control system to provide tempered air control from a fresh air sensor. The panel will be mounted on the side of the unit. The controls will be fitted with all the integrated starters, contactors, and relays. The unit will come complete with pressure switches, damper actuators, and sensors. The complete system will be tested at works prior to despatch.



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TECH SUB

Reference:	MVHR 01 & 02
Model:	CF5 ³ -0-EH-S-R0

Selected duty:	0.800 m³/s @	200 Pa ESP
Speed controlled duty:	61%	

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SAMSUNG
Climate Solutions



Medium Static Ducted With Condensate Pump

Medium Static Ducted With Condensate Pump

- Equipped with Sirocco fans direct driven by a single motor.
 - Long-life washable HD 40 permanent filter is included.
 - Auto Restart function.
- Automatic ESP setting.
 - Built-in condensation drain pump.
 - Can be controlled by Smartphone via Wi-Fi Kit (Optional).

Specifications



Model			AM022ANMPKH/EU	AM028ANMPKH/EU	AM036ANMPKH/EU	AM045ANMPKH/EU	AM056ANMPKH/EU
Electrical							
Power Supply		Ø, #, V, Hz	1Ø, 2, 220–240 V, 50 Hz	1Ø, 2, 220–240 V, 50 Hz	1Ø, 2, 220–240 V, 50 Hz	1Ø, 2, 220–240 V, 50 Hz	1Ø, 2, 220–240 V, 50 Hz
MCA		A	0.67	0.67	0.81	0.89	1.08
MFA		A	15	15	15	15	15
Interconnecting Communication Cable		mm²	Screened 0.75-1.5mm², 2 Core, F1 F2 Connection				
Performance¹							
Nominal Cooling Capacity	Total Cooling (Sensible Cooling)	kW	2.2 (1.6)	2.8 (2.0)	3.6 (2.6)	4.5 (3.3)	5.6 (4.2)
UK Cooling Capacity	Total Cooling (Sensible Cooling)	kW	1.8 (1.4)	2.3 (1.8)	2.9 (2.3)	3.7 (3.1)	4.6 (3.8)
Nominal Heating Capacity		kW	2.5	3.2	4.0	5.0	6.3
Fan							
Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
Number of Fans		ea	2	2	2	2	2
Fan Motor	Model	-	BLDC	BLDC	BLDC	BLDC	BLDC
	Output x n	W	153 x 1	153 x 1	153 x 1	153 x 1	153 x 1
Airflow Rate	H/M/L	m³/min	10.5 / 9 / 7	10.5 / 9 / 7	12 / 9.5 / 7.5	14 / 11 / 8	16 / 13.5 / 9
		l/s	175 / 150 / 117	175 / 150 / 117	208 / 158 / 125	233 / 183 / 133	267 / 225 / 150
Static Pressure	Min/Std/Max	Pa	0 / 24.52 / 147.1	0 / 24.52 / 147.1	0 / 24.52 / 147.1	0 / 29.42 / 147.1	0 / 29.42 / 147.1
Piping Connections							
Liquid Pipe		ø, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
Gas Pipe		ø, mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)
Drain Pipe		ø, mm	VP25	VP25	VP25	VP25	VP25
Refrigerant							
Type			R410A (Fluorinated greenhouse gas, GWP=2088)				
Control Method			EEV included	EEV included	EEV included	EEV included	EEV included
Sound							
Sound Pressure Level	H/M/L	dB(A)	28 / 26 / 24	28 / 26 / 24	30 / 27 / 24	31 / 28 / 25	32 / 29 / 25
Sound Power Level	Cooling	dB(A)	50	51	53	54	57
Dimensions							
Net Weight		kg	27.9	27.9	27.5	27.5	27.5
Net Dimensions	(W x H x D)	mm	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700
Drain Pump							
Internal Model		-	Drain Pump Included	Drain Pump Included	Drain Pump Included	Drain Pump Included	Drain Pump Included
External Model		-	-	-	-	-	-
Max Lifting Height / Displacement		mm / litres/h	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24

1 Performances are based on the following design conditions:
- Nominal Cooling Capacity: Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB
- Nominal Heating Capacity: Indoor temperature 20°C DB, Outdoor temperature 7°C DB, 6°C WB
- UK Cooling Capacity: Indoor temperature 23°C DB, 16°C WB, Outdoor temperature 30°C DB

Accessories					
Wireless Remote Controller	Touch Wired Controller	Premium Wired Controller	Wireless Receiver Kit	Wi-Fi Kit	External Room Sensor
AR-EH03E (to be matched with MRK-A10N)	MWR-SH11N	MWR-WG00JN	MRK-A10N (to be matched with AR-EH03E)	MIM-H04EN	MRW-TA

Specifications



Model			AM071ANMPKH/EU	AM090ANMPKH/EU	AM112ANMPKH/EU	AM128ANMPKH/EU	AM140ANMPKH/EU
Electrical							
Power Supply		Φ, #, V, Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz	1Φ, 2, 220–240 V, 50 Hz
MCA		A	1.48	1.78	1.97	2.17	2.38
MFA		A	15	15	15	15	15
Interconnecting Communication Cable		mm ²	Screened 0.75-1.5mm ² , 2 Core, F1 F2 Connection				
Performance ¹							
Nominal Cooling Capacity	Total Cooling (Sensible Cooling)	kW	7.1 (5.4)	9.0 (7.1)	11.2 (8.6)	12.8 (9.9)	14.0 (10.8)
UK Cooling Capacity	Total Cooling (Sensible Cooling)	kW	5.8 (5.0)	7.3 (6.5)	9.1 (7.7)	10.4 (8.9)	11.4 (9.7)
Nominal Heating Capacity		kW	8.0	10.0	12.5	13.8	16.0
Fan							
Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
Number of Fans		ea	2	3	3	3	3
Fan Motor	Model	-	BLDC	BLDC	BLDC	BLDC	BLDC
	Output x n	W	153 x 1	153 x 1	244 x 1	244 x 1	244 x 1
Airflow Rate	H/M/L	m ³ /min	21 / 18 / 13	27 / 22 / 16	30 / 25 / 18	36 / 30 / 23	40 / 34 / 24
		l/s	350 / 300 / 217	450 / 367 / 267	500 / 417 / 300	600 / 500 / 383	667 / 567 / 400
Static Pressure	Min/Std/Max	Pa	0 / 29.42 / 147.1	0 / 39.23 / 147.1	0 / 50.99 / 147.1	0 / 50.99 / 147.1	0 / 50.99 / 147.1
Piping Connections							
Liquid Pipe		ø, mm (inch)	9.52 (3/8)	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)	15.88 (5/8)
Drain Pipe		ø, mm	VP25	VP25	VP25	VP25	VP25
Refrigerant							
Type			R410A (Fluorinated greenhouse gas, GWP=2088)				
Control Method			EEV included	EEV included	EEV included	EEV included	EEV included
Sound							
Sound Pressure Level	H/M/L	dB(A)	36 / 32 / 27	37 / 33 / 29	36 / 33 / 30	37 / 34 / 31	39 / 36 / 33
Sound Power Level	Cooling	dB(A)	60	61	61	62	64
Dimensions							
Net Weight		kg	27.5	35	39.5	39.5	39.5
Net Dimensions	(W x H x D)	mm	850 x 250 x 700	1200 x 250 x 700	1300 x 300 x 700	1300 x 300 x 700	1300 x 300 x 700
Drain Pump							
Internal Model		-	Drain Pump Included	Drain Pump Included	Drain Pump Included	Drain Pump Included	Drain Pump Included
External Model		-	-	-	-	-	-
Max Lifting Height / Displacement		mm / litres/h	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24

1 Performances are based on the following design conditions:
- Nominal Cooling Capacity: Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB
- Nominal Heating Capacity: Indoor temperature 20°C DB, Outdoor temperature 7°C DB, 6°C WB
- UK Cooling Capacity: Indoor temperature 23°C DB, 16°C WB, Outdoor temperature 30°C DB

SAMSUNG Climate Solutions



DVM S2 High Efficiency Heat Recovery (3-Pipe)

DVM S2 High Efficiency Heat Recovery (3-Pipe)

- Erp (Ecodesign) compliant and Eurovent certified.
 - Advanced Flash Injection™ technology.
 - Active AI Pressure Control.
 - Active AI Defrost.
- Active AI Refrigerant analysis.
 - Durafin™ Ultra Heat Exchanger Fin.
 - Optional Slimmer Liquid Pipe.
 - On-device Inverter Checker™.

Specifications



Model			AM080AXVGGR/EU	AM100AXVGGR/EU	AM120AXVGGR/EU	AM140AXVGGR/EU	AM160AXVGGR/EU
Electrical							
Power Supply		Φ, #, V, Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz
Minimum SSC value		MVA	3.0	3.4	4.0	4.4	5.2
MCA		A	18.0	21.2	25.0	27.0	32.0
MFA		A	25	32	32	32	40
Interconnecting Communication Cable		mm²	Screened 0.75-1.5mm², 2 Core, F1 F2 Connection				
Performance¹							
Horsepower		HP	8	10	12	14	16
Capacity (Rated)	Nominal Cooling Capacity	kW	22.4	28.0	33.6	40.0	45.0
	Nominal Heating Capacity	kW	22.4	28.0	33.6	40.0	45.0
	Max Heating Capacity	kW	25.2	31.5	37.8	45.0	50.4
Operating Temperature Range	Cooling	°C	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50
	Heating	°C	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24
Maximum quantity of connectable indoor units		ea	14	18	21	26	29
Energy Efficiency²							
Seasonal Efficiency (Ducted)	SEER	W/W	7.20	6.90	6.90	6.70	6.90
	SCOP	W/W	4.50	4.40	4.56	4.25	4.30
	ηs,c	%	285.0	273.0	273.0	265.0	273.0
	ηs,h	%	177.0	173.0	179.4	167.0	169.0
Seasonal Efficiency (Cassettes)	SEER	W/W	7.78	7.22	7.22	6.94	7.25
	SCOP	W/W	4.53	4.39	4.41	4.35	4.35
	ηs,c	%	308.2	285.8	285.8	274.6	287
	ηs,h	%	178.2	172.6	173.4	171.0	171.0
Fan							
Type		-	Propeller	Propeller	Propeller	Propeller	Propeller
Discharge Direction			Top	Top	Top	Top	Top
Number of Fans		ea	1	1	1	2	2
Fan Motor	Model	-	BLDC	BLDC	BLDC	BLDC	BLDC
	Output x n	W	630 x 1	630 x 1	630 x 1	620 x 2	620 x 2
Airflow Rate		m³/min	164	181	196	291	292
		l/s	2738	3019	3260	4852	4866
Static Pressure	Max	Pa	110	110	110	110	110
Compressor							
Type		-	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1
Output x n		kW	4.60 x 1	6.67 x 1	6.67 x 1	6.67 x 1	8.93 x 1
Piping Connections							
Liquid Pipe		ø, mm (inch)	9.52 (3/8)	9.52 (3/8)	12.70 (1/2)	12.70 (1/2)	12.70 (1/2)
Gas Pipe		ø, mm (inch)	19.05 (3/4)	22.22 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
Discharge Gas Pipe		ø, mm (inch)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)	22.22 (7/8)	22.22 (7/8)
Refrigerant							
Type			R410A (Fluorinated greenhouse gas, GWP=2088)				
Factory Charging		kg	7.0	7.0	7.0	8.0	10.5
		tCO₂e	14.62	14.62	14.62	16.70	21.92
Sound							
Sound Pressure Level	Cooling	dB(A)	53	56	61	58	58
	Heating	dB(A)	58	60	63	61	61
Sound Power Level		dB(A)	75	78	81	81	81
Dimensions							
Net Weight		kg	199	211	211	237	268
Net Dimensions	(W x H x D)	mm	930 x 1695 x 765	930 x 1695 x 765	930 x 1695 x 765	1295 x 1695 x 765	1295 x 1695 x 765

1 Performances are based on the following test conditions.
- Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
- Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
- Equivalent refrigerant pipe length 7.5m, Level differences 0m

2 Efficiencies shown are according to EU No 2016/2281 (LOT 21) Ecodesign requirements for heat pumps/air conditioners.

Specifications



Model			AM180AXVGGR/EU	AM200AXVGGR/EU	AM220AXVGGR/EU	AM240AXVGGR/EU	AM260AXVGGR/EU
Electrical							
Power Supply		Φ, #, V, Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz
Minimum SSC value		MVA	6.4	7.0	7.4	9.3	10.2
MCA		A	39.2	43.0	46.0	55.0	60.0
MFA		A	50	63	63	63	75
Interconnecting Communication Cable		mm ²	Screened 0.75-1.5mm ² , 2 Core, F1 F2 Connection				
Performance ¹							
Horsepower		HP	18	20	22	24	26
Capacity (Rated)	Nominal Cooling Capacity	kW	50.4	56.0	61.6	67.2	72.8
	Nominal Heating Capacity	kW	50.4	56.0	61.6	67.2	68.0
	Max Heating Capacity	kW	56.7	63.0	69.3	75.6	81.9
Operating Temperature Range	Cooling	°C	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50
	Heating	°C	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24
Maximum quantity of connectable indoor units		ea	32	36	40	43	47
Energy Efficiency ²							
Seasonal Efficiency (Ducted)	SEER	W/W	7.50	6.50	6.20	5.90	5.40
	SCOP	W/W	4.80	4.50	4.30	3.90	3.90
	ηs,c	%	297.0	257.0	245.0	233.0	213.0
	ηs,h	%	189.0	177.0	169.0	153.0	153.0
Seasonal Efficiency (Cassettes)	SEER	W/W	7.05	6.81	7.04	5.94	5.45
	SCOP	W/W	4.45	4.27	4.39	3.9	3.90
	ηs,c	%	279.0	269.4	278.6	234.6	215.0
	ηs,h	%	175.0	167.8	172.6	153.0	153.0
Fan							
Type		-	Propeller	Propeller	Propeller	Propeller	Propeller
Discharge Direction			Top	Top	Top	Top	Top
Number of Fans		ea	2	2	2	2	2
Fan Motor	Model	-	BLDC	BLDC	BLDC	BLDC	BLDC
	Output x n	W	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2
Airflow Rate		m ³ /min	313	313	342	365	365
		l/s	5209	5209	5698	6089	6089
Static Pressure	Max	Pa	110	110	110	80	80
Compressor							
Type		-	Inverter Scroll x1	Inverter Scroll x1	Inverter Scroll x2	Inverter Scroll x2	Inverter Scroll x2
Output x n		kW	8.93 x1	8.93 x1	6.67 x2	6.67 x2	6.67 x2
Piping Connections							
Liquid Pipe		ø, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)
Gas Pipe		ø, mm (inch)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	34.92 (1-3/8)	34.92 (1-3/8)
Discharge Gas Pipe		ø, mm (inch)	22.22 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
Refrigerant							
Type			R410A (Fluorinated greenhouse gas, GWP=2088)				
Factory Charging		kg	10.5	10.5	10.5	14.0	14.0
		tCO ₂ e	21.92	21.92	21.92	29.23	29.23
Sound							
Sound Pressure Level	Cooling	dB(A)	59	61	64	65	65
	Heating	dB(A)	63	63	65	67	67
Sound Power Level		dB(A)	81	84	86	87	87
Dimensions							
Net Weight		kg	274	274	309	332	332
Net Dimensions	(W x H x D)	mm	1295 x 1695 x 765	1295 x 1695 x 765	1295 x 1695 x 765	1295 x 1695 x 765	1295 x 1695 x 765

1 Performances are based on the following test conditions.
- Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
- Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
- Equivalent refrigerant pipe length 7.5m, Level differences 0m
2 Efficiencies shown are according to EU No 2016/2281 (LOT 21) Ecodesign requirements for heat pumps/air conditioners.

SAMSUNG



Samsung WindFree™ High Wall Deluxe

The Samsung WindFree™ range keeps you comfortably cool without any cold drafts. It provides intelligent indoor climate comfort thanks to smart controls that adapt to your personal preferences, automatically maintaining optimal conditions.

WindFree™ Cooling

WindFree™ technology enhances your indoor comfort by using thousands of micro-holes to disperse fresh air uniformly without any unpleasant blasts of cold wind. In WindFree™ mode, air is spread softly and silently, creating a 'Still Air' environment¹ that provides you total well-being day and night.

Smart Operation

AI Auto Comfort² introduces you to an intelligent way of living. It analyses your room conditions and usage patterns³, and then automatically adjusts the temperature. Temperatures can also be managed remotely using the SmartThings App⁴. Turning it on and off, selecting the cooling mode or scheduling its operation is just one touch away.

WiFi Control

Temperatures in your building can be managed remotely using the SmartThings App⁵. Turning it on and off, selecting the cooling mode, scheduling its operation or monitoring the power consumption is just one touch away. The Bixby 2.0 Artificial Intelligence (AI) system⁶ analyses and predicts your needs so it can suggest the best settings for inside your home.

¹ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) defines "Still Air" as air currents at speeds below 0.15m/s which lacks the presence of cold drafts.

²A Wi-Fi connection and Samsung SmartThings application account are required.

³Stores user data, preferences and usage patterns to suggest the most useful options.

⁴Available on Android and iOS devices. A Wi-Fi connection and Samsung SmartThings application account are required.

⁵Available on Android and iOS devices. A Wi-Fi connection and Samsung SmartThings account are required.

⁶Voice control is supported in English.

Samsung WindFree™ High Wall Deluxe

- Three-step cooling: Fast Cooling mode.
- WindFree™ Cooling Mode.
- Wi-Fi Control with SmartThings and Bixby voice controls (optional).
- Equipped with Easy Filter Plus.



Specifications

Model No.	Indoor Unit		AC026TNXDKG/EU		AC035TNXDKG/EU		AC052TNXDKG/EU		AC071TNXDKG/EU			
	Outdoor Unit (1-phase)		AC026RXADKG/EU		AC035RXADKG/EU		AC052RXADKG/EU		AC071RXADKG/EU			
Capacity	Cooling	kW	2.60(1.0-4.00)		3.50(1.0-4.50)		5.0(1.50-6.80)		7.1(2.0-8.7)			
	Heating		3.3 (0.8-4.0)		4.0 (0.8-4.8)		6.0 (1.0-6.5)		8.0 (1.6-9.0)			
UK Capacity	Sensible cooling	kW	2.27		2.63		3.97		5.10			
Efficiency	EER	W/W	4.06		3.50		3.57		3.09			
	COP ¹		3.75		3.31		3.43		3.40			
	SEER ¹	W/W	7.0/		6.9/		6.9/		6.8/			
	SCOP ¹		4.1/		4.1/		3.9/		4.0/			
Annual Energy Consumption	Cooling	kWh/a	130		178		254		365			
	Heating		717		717		862		1260			
Sound Pressure	Indoor (H/Silent)	dB(A)	36/21		40/23		42/25		44/30			
	Outdoor (Cooling only)		46		48		48		49			
Sound Power	Indoor Unit	dB(A)	56		59		60		61			
	Outdoor Unit		59		61		62		65			
Airflow Rate	Indoor	Cooling (H/M/L)	172/140/117		203/163 /132		278/232/197		297/253/220			
		Heating (H/M/L)	187/155/132		203/163 /132		278/232/197		318/275/242			
	Outdoor		500		500		667		850			
Dimensions (W x H x D)	Indoor	mm	820 x 299 x 215		820 x 299 x 215		1,055 x 299 x 215		1,055 x 299 x 215			
	Outdoor		790 x 548 x 285		790 x 548 x 285		880 x 638 x 310		880 x 798 x 310			
Net Weight	Indoor Unit	kg	9.1		9.1		11.7		12.7			
	Outdoor Unit		32.5		32.5		43.0		51.0			
Refrigerant	Pipe Size	Gas	3/8		3/8		1/2		5/8			
	Liquid		ø, inch	1/4		1/4		1/4		1/4		
				Std/Max Pipe Length (Height)		5/20(15)		5/20(15)		5/30(20)		5/50(30)
	Pre Charge to		5		5		5		5			
	Factory Charging		kg		0.9		0.9		1.2		1.7	
	Additional Charge		g/m		20		20		10		15	
	CO ₂ Equivalent (R32 - GWP 675)		tCO ₂ e		0.61		0.61		0.81		1.15	
Electrical	Power Supply		V, Hz		220~240 V, 50 Hz		220~240 V, 50 Hz		220~240 V, 50 Hz		220~240 V, 50 Hz	
	Power Input	Cooling	kW		0.18/0.64/1.20		0.19/1.00/1.40		0.24/1.40/2.20		0.39/2.30/3.40	
		Heating	0.15/0.88/1.35		0.15/1.21/1.40		0.20/1.75/2.05		0.33/2.35/3.30			
	Current Input	Cooling	A		1.4/3.1/5.5		1.4/4.6/6.0		1.5/6.3/9.6		2.5/10.0/14.7	
		Heating	1.2/4.2/6.0		1.2/5.6/6.2		1.3/7.8/8.8		2.0/10.3/14.5			
Interconnecting Communication Cable			mm ²		Screened 0.75-1.5mm ² , 2 Core, F1 F2 Connection							

¹Energy labels as shown are according to EU No 626/2011 (LOT10) label classification 2019, on a scale from D to A+++.

Accessories			
Wireless Remote Controller	Touch Controller	Wired Remote Controller	Wi-Fi Kit
AR-EH03E	MWR-SH11N	MWR-WG00JN	MIM-H04EN