Supporting Statement

Address: 69 Denecroft Crescent, Uxbridge, UB10 9HY

Proposal: Retrospective planning application for the installation and retention of outdoor air source heat pump (air conditioning) units.

1. Introduction

This statement has been prepared in support of a **retrospective full planning application** for the retention of outdoor air source heat pump (air conditioning) units installed at the above property. The application seeks to regularise the development through the formal planning process.

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2. Site and Surroundings

The application property is a two-storey semi-detached dwelling located within an established residential area of Denecroft Crescent, Uxbridge. The surrounding area is predominantly residential in character, comprising similar dwellinghouses with associated domestic equipment.

The site is not located within a Conservation Area, and the property is not a Listed Building nor within the curtilage of a Listed Building.

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3. Description of the Development

The development comprises the **installation of outdoor air source heat pump (air conditioning) units**, which have already been installed at the property. The units are domestic in scale and are positioned externally in locations that are typical for such equipment and ancillary to the residential use of the dwelling.

No additional works are proposed as part of this application, which relates solely to the **retention of the installed units**.

The details of the installed outdoor units are as follows:

- Unit 1: Samsung Outdoor Unit – **Model:** AR12TXFCAWKXEU / **Serial:** 0GNBPDPW700048B
- Unit 2: Samsung Outdoor Unit – **Model:** AC035RXADKG/EU / **Serial:** 0TUPPAFWB00220D

Both units are fixed to the exterior of the building in suitable locations that comply with the relevant policies.

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4. Planning Considerations

Principle of Development

The installation of air source heat pump and air conditioning equipment is considered acceptable in principle within residential areas, subject to appropriate siting, scale, and impact on residential amenity. The development is ancillary to the lawful residential use of the property and supports modern energy and comfort requirements.

Visual Impact

The installed units are modest in size and discreetly located. They do not appear visually dominant and do not detract from the character or appearance of the host dwelling or the surrounding residential area.

Residential Amenity

The positioning of the units ensures that there is no unacceptable impact on neighbouring occupiers in terms of noise or disturbance. The equipment operates within manufacturer specifications and is consistent with similar domestic installations commonly found within residential environments.

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5. Planning Policy

The proposal has been assessed against the relevant policies of the Hillingdon Local Plan and the objectives of the National Planning Policy Framework (NPPF). The development is considered to comply with policies relating to residential amenity, design, and sustainable development.

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6. Conclusion

This statement supports a **retrospective planning application** for the installation and retention of outdoor air source heat pump (air conditioning) units at 69 Denecroft Crescent.

The installation is modest, visually acceptable, and does not result in any material harm to residential amenity or the character of the

area. It is therefore respectfully requested that the Local Planning Authority grants permission for the development as installed.

The mitigation measures in Section 8.5 have been considered and are shown in the drawings, as suggested in the Noise Impact Assessment. Once the application is granted, the applicant will adopt the recommended mitigation measures.

With this mitigation recommended in the NIA in place, the predicted noise level at the nearest receptor is below the existing background noise level, and according to BS 4142, the AC unit noise is expected to have a low impact with no significant adverse effects.

Please see below the attached documents related to the outdoor AC Units i.e. Commissioning Report, Specifications, Annual Service Form and EPC.

Basildon ACR Ltd.,

Tel: 01268 281752 Email: info@basildonacr.co.uk. Website: www.basildonacr.co.uk

Date: **Job No:**

Company: Basildon ACR Ltd.,	**Customer**:
Address: 214 Trafford House, Basildon, Essex	**Address:**
Post Code: SS16 5FY	**Post Code:**

Commissioning Report

No	Make	Outdoor Unit: Model / Serial #	Indoor Unit: Model / Serial #	Ref	(l)Pipe	(g)Pipe	(p)Length	(ADC)	Air-In	Air-Out	R-Amps	P-test	Vac
1	Samsung	AR12TXFCAWKXEU / 0GNBPDPW700048B	AR12TXFCAWKNEU / 0GNAPDAT907977R	R 32	1/4	3/8	6 m	0	28	16	3.58 A	578	29.89
2		AC035RXADKG/EU / 0TUPPAFWB00220D	AC035RNJDKG/EU / 0U1CPAGW800071H				6 m		29	17	4.52 A	579	29.91
3													
4													
5													
6													
7													
8													

Terms & Conditions of Parts & Labour Warranties

Manufacturer's Parts only Warranty: Manufacturer's Parts Only Warranty: Requires annual service throughout the Warranty Period; without it, the warranty becomes void. Basildon Ltd. will contact the customer by the end of the subsequent year to schedule the service. The parts warranty duration is confirmed on our supply and installation invoice, already provided to the customer.

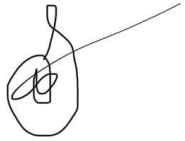
Cost of Annual Service: The Annual PPM Service cost is £75.00 plus VAT per system, payable post-service. Subsequent service costs may increase with market prices after the first year.

Installer's Labour Warranty: The installer provides a 1-year free labour warranty from the installation date, as indicated below. All callouts and labour will be subject to standard rates. Note that this warranty does not cover annual service.

Exclusions: The 1-Year Labour Warranty on new installations excludes coverage for parts and labour, failures resulting from issues such as thermostat misconfigurations, leaving doors/windows open during operation, switched-off emergency disconnects, clogged filters, tripped circuit breakers, and blown fuses due to power outages. Unnecessary service calls will incur charges at prevailing rates, borne by the customer.

Customer's Signature: Please sign below to confirm satisfaction with the functionality of the Air Conditioning systems supplied and installed at your property. This also acknowledges your understanding and acceptance of the Manufacturer's Parts Only Warranty terms, including the annual service requirement. Your confirmation enables us to register and validate your Parts Warranty with the Manufacturer.

Installer's Signature: Installer's Signature is necessary below to confirm compliance with F-Gas Regulations and the accuracy of the provided data. Also, to affirm provision of 1-year labour warranty from the date of this report.

Contractor: Hoji **FGAS:** FGAS2000945 **Engineer Name:** Hoji **Signatures:** 	**Customer:** **Title:** **Name:** **Signatures:** 

Basildon ACR Ltd

Air Conditioning Sales, Installations, & Service all over UK
Tel: 01268 281752. Email: info@basildonacr.co.uk Website: www.basildonacr.co.uk

Annual PPM Air Conditioning Systems Service

Date: 8/10/2025 **Job No:** 13731

Company: Basildon ACR Ltd.,	**Account/ Customer:** -UB-10 Diljit Chawla *24/03
Address: 214 Trafford House, Basildon, Essex	**Site Address:** 69 Denecroft Crescent, Uxbridge, Hillingdon UB10 9HY
Post Code: SS16 5FY	**Billing Address:** 69 Denecroft Crescent Uxbridge, Hillingdon UB10 9HY

Check List			
1. Check air filters, and clean them	Yes	**5. Check condensate drain for blockage, clean as necessary**	Yes
2. Check Evaporator & Condenser and clean if necessary	Yes	**6. Check vibration and noise**	Yes
3. Check and record suction and discharge pressures	Yes	**7. Check and record running and starting amperages**	Yes
4. Tighten electrical connections at equipment	Yes	**8. Recommendations of any needed repairs**	No

Systems Serviced

No	Make	OU: Model / Serial #	IU: Model / Serial #	Function*	Remarks
1	Samsung	AR12TXFCAWKXEU / 0GNBPDPW700048B	AR12TXFCAWKNEU / 0GNAPDAT907977R	G/O	
2	Samsung	AC035RXADKG/EU / 0TUPPAFWB00220D	AC035RNJDKG/EU / 0U1CPAGW800071H	G/O	
3					
4					
5					
6					
7					
8					

***G/O = In Good Order A/R = Attention required**

Cost of Annual Service: **The Annual PPM Service cost is £75.00 plus VAT per system, payable post-service. Subsequent service costs may increase with market prices after the first year. Manufacturer's Parts Only Warranty: Requires annual service throughout the Warranty Period; without it, the warranty becomes void.**

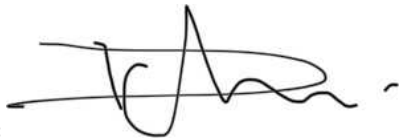
Customer's Signature: **Kindly express your satisfaction by signing below, confirming your contentment with the service delivered by the engineers, and acknowledging their commendable conduct. We value your feedback on the service provided; please share your thoughts and any suggestions for improvement. Your input is highly appreciated.**

Installer's Signature: **Installer's Signature is necessary below to confirm the service is performed in compliance with F-Gas Regulations and the accuracy of the provided data.**

Contractor: Hoji Air Conditioning **Name:** -EN-5 Hoji Asfandyar
FGAS: REF1021254

Signature: 

Signee Name: Mr Diljit Chawla

Signature: 

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Tel: 01268 281752. Email: info@basildonacr.co.uk Website: www.basildonacr.co.uk

Energy performance certificate (EPC)

69 Denecroft Crescent UXBRIDGE UB10 9HY	Energy rating **D**	Valid until:	**11 October 2035**
		Certificate number:	**6035-9520-4509-0541-5202**

Property type	End-terrace house
Total floor area	119 square metres

Rules on letting this property

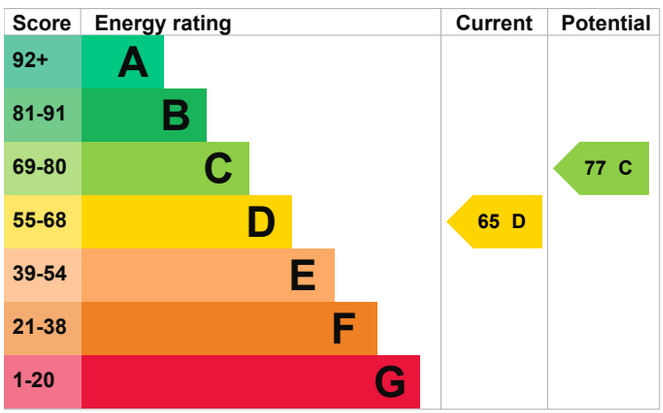
Properties can be let if they have an energy rating from A to E.

You can read guidance for landlords on the regulations and exemptions (https://www.gov.uk/guidance/domestic-private-rented-property-minimum-energy-efficiency-standard-landlord-guidance).

Energy rating and score

This property's energy rating is D. It has the potential to be C.

See how to improve this property's energy efficiency.



The graph shows this property's current and potential energy rating.

Properties get a rating from A (best) to G (worst) and a score. The better the rating and score, the lower your energy bills are likely to be.

For properties in England and Wales:

the average energy rating is D
the average energy score is 60

Breakdown of property’s energy performance

Features in this property

Features get a rating from very good to very poor, based on how energy efficient they are. Ratings are not based on how well features work or their condition.

Assumed ratings are based on the property’s age and type. They are used for features the assessor could not inspect.

Feature	Description	Rating
Wall	Solid brick, as built, no insulation (assumed)	Very poor
Wall	Solid brick, as built, insulated (assumed)	Good
Roof	Pitched, insulated (assumed)	Average
Roof	Roof room(s), no insulation (assumed)	Very poor
Window	Fully double glazed	Poor
Main heating	Boiler and radiators, mains gas	Good
Main heating control	Programmer, room thermostat and TRVs	Good
Hot water	From main system	Good
Lighting	Good lighting efficiency	Good
Floor	Suspended, no insulation (assumed)	N/A
Floor	Solid, insulated (assumed)	N/A
Air tightness	(not tested)	N/A
Secondary heating	None	N/A

Primary energy use

The primary energy use for this property per year is 200 kilowatt hours per square metre (kWh/m2).

Smart meters

This property had **no smart meters** when it was assessed.

Smart meters help you understand your energy use and how you could save money. They may help you access better energy deals.

Find out how to get a smart meter (https://www.smartenergygb.org/)

How this affects your energy bills

An average household would need to spend **£1,566 per year on heating, hot water and lighting** in this property. These costs usually make up the majority of your energy bills.

You could **save £367 per year** if you complete the suggested steps for improving this property's energy rating.

This is **based on average costs in 2025** when this EPC was created. People living at the property may use different amounts of energy for heating, hot water and lighting.

Heating this property

Estimated energy needed in this property is:

- 14,977 kWh per year for heating
- 3,079 kWh per year for hot water

Impact on the environment

This property's environmental impact rating is D. It has the potential to be C.

Properties get a rating from A (best) to G (worst) on how much carbon dioxide (CO2) they produce each year.

Carbon emissions

An average household produces	6 tonnes of CO2
This property produces	4.4 tonnes of CO2
This property's potential production	3.1 tonnes of CO2

You could improve this property's CO2 emissions by making the suggested changes. This will help to protect the environment.

These ratings are based on assumptions about average occupancy and energy use. People living at the property may use different amounts of energy.

Steps you could take to save energy

Step	Typical installation cost	Typical yearly saving
1. Internal wall insulation	£7,500 - £11,000	£290
2. Floor insulation (suspended floor)	£5,000 - £10,000	£78
3. Solar photovoltaic panels	£8,000 - £10,000	£241

Advice on making energy saving improvements

Get detailed recommendations and cost estimates (www.gov.uk/improve-energy-efficiency)

Help paying for energy saving improvements

You may be eligible for help with the cost of improvements:

- Insulation: Great British Insulation Scheme (www.gov.uk/apply-great-british-insulation-scheme)
- Heat pumps and biomass boilers: Boiler Upgrade Scheme (www.gov.uk/apply-boiler-upgrade-scheme)
- Help from your energy supplier: Energy Company Obligation (www.gov.uk/energy-company-obligation)

Who to contact about this certificate

Contacting the assessor

If you're unhappy about your property's energy assessment or certificate, you can complain to the assessor who created it.

Assessor's name	Boota Gill
Telephone	07951 972627
Email	epc4u@hotmail.co.uk

Contacting the accreditation scheme

If you're still unhappy after contacting the assessor, you should contact the assessor's accreditation scheme.

Accreditation scheme	Elmhurst Energy Systems Ltd
Assessor's ID	EES/029487
Telephone	01455 883 250
Email	enquiries@elmhurstenergy.co.uk

About this assessment

Assessor's declaration	No related party
Date of assessment	9 October 2025
Date of certificate	12 October 2025
Type of assessment	RdSAP

1. System and Performance Data

Category	Item	Unit	Value
System	Indoor Unit Model Name		**AC035RNJDKG/EU**
	Outdoor Unit Model Name		**AC035RXADKG/EU**
	Mode	-	HEAT PUMP
Performance	Cooling Capacity (Min/Std/Max)	kW	1.2 / 3.5 / 3.9
	Cooling Capacity (Min/Std/Max)	Btu/h	4,100 / 11,940 / 13,510
	Heating Capacity (Min/Std/Max)	kW	1.1 / 4.0 / 4.6
	Heating Capacity (Min/Std/Max)	Btu/h	3,750 / 13,650 / 15,700
Power	Cooling Power Input (Min/Std/Max)	kW	0.25 / 1.12 / 1.50
	Heating Power Input (Min/Std/Max)	kW	0.21 / 1.30 / 1.80
	Cooling Current Input (Min/Std/Max)	A	1.6 / 5.5 / 7.5
	Heating Current Input (Min/Std/Max)	A	1.3 / 5.9 / 10.5

Current	MCA	A	11.0
	MFA	A	12.5
Efficiency	EER (Cooling)	-	3.12
	COP (Heating)	-	3.07
	SEER (Cooling Energy Grade)	-	**6.1 (A++)**
	SCOP (Heating Energy Grade)	-	**4.1 (A+)**
	Pdesignh	kW	2.0
Piping Connections	Liquid Pipe Type	-	Flare connection
	Liquid Pipe (Φ, mm (inch))		6.35 (1/4)
	Gas Pipe Type	-	Flare connection
	Gas Pipe (Φ, mm (inch))		9.52 (3/8)
	Heat Insulation	-	Both liquid and gas pipes
Piping Length (ODU-IDU)	Standard	m	5
	Max.	m	20
	Elevation	m	15
	Chargeless	m	20

Wiring Connections	Communication (Min.)	mm^2	0.75
	Remark	-	F1, F2
Refrigerant	Type	-	**R32**
	Factory Charging	kg	0.9
	tCO_2e		0.61

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2. Indoor Unit Data (AC035RNJDKG/EU)

Category	Item	Unit	Value
Power Supply	Ø, #, V, Hz		1, 2, 220-240, 50
Heat Exchanger	Type	-	F&T
Material	Fin	-	Al
	Tube	-	Cu
	Fin Treatment	-	Green Hydrophile
Fan	Type	-	Turbo
	Quantity	EA	1
Air Flow Rate	Cooling (H/M/L)	m^3/min	8.5 / 7.2 / 6.2
	Cooling (H/M/L)	l/s	142 / 120 / 103
	Heating (H/M/L)	m^3/min	9.0 / 8.2 / 7.2

	Heating (H/M/L)	l/s	150 / 137 / 120
Fan Motor	Type	-	BLDC
	Output	W x n	35 x 1
Drain	Drain Pipe (Φ, mm)		ID18mm Hose
Sound	Sound Pressure Level (High/Mid/Low/(Silent))	dB(A)	38 / 34 / 30 / **24**
	Sound Power Level	dB(A)	55
External Dimension	Net Weight	kg	16.0
	Shipping Weight	kg	20.5
	Net Dimensions (WxHxD)	mm	720 x 620 x 199
	Shipping Dimensions (WxHxD)	mm	805 x 705 x 297
Casing	Material	-	ABS
Control System	Infrared remote control	-	Included
	Wired remote control	-	MWR-WE13N MWR-WG00*N
Additional Accessories	Air Filter	-	Removable / Washable

	Virus Doctor	-	**Included**

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3. Outdoor Unit Data (AC035RXADKG/EU)

Category	Item	Unit	Value
Power Supply	Ø, #, V, Hz		1, 2, 220-240, 50
Heat Exchanger	Type	-	Fin & Tube
Material	Fin	-	Al
	Tube	-	Cu
	Fin Treatment	-	Anti-Corrosion
Compressor	Model Name		UB9AK5090FER
	Type	-	Single BLDC
	Output	kW	0.86
Oil	Type	-	POE
	Initial charge	cc	320
Fan	Type	-	Propeller
	Discharge direction	-	Front
	Quantity	EA	1
Air Flow Rate		m^3/min	30

		l/s	500
Fan Motor	Type	-	BLDC Motor
	Output	W x n	40 x 1
Sound	Sound Pressure Level (Cooling)	dB(A)	48
	Sound Pressure Level (Heating)[1]	dB(A)[2]	48[3]
	Sound Power Level[4]	dB(A)[5]	61[6]
External Dimension[7]	Net Weight[8]	kg[9]	32.5[10]
	Shipping Weight[11]	kg[12]	35.5[13]
	Net Dimensions (WxHxD)[14]	mm[15]	790 x 548 x 285[16]
	Shipping Dimensions (WxHxD)[17]	mm[18]	913 x 622 x 371[19]
Casing[20]	Material (Body)[21]	-[22]	EGI Steel Plate[23]
Operating Temp. Range[24]	Cooling[25]	℃[26]	-15~46[27]
	Heating[28]	℃[29]	-[30]20 ~ 24

SAMSUNG

Wind-Free™ Comfort

Intelligent cooling.
No cold drafts.

samsung.com/wind-free

Introducing the Samsung Wind-Free™ Comfort

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

Wind-Free™ Cooling

Wind-Free™ technology enhances your indoor comfort by using thousands of micro-holes to disperse fresh air uniformly without any unpleasant blasts of cold wind. In Wind-Free™ mode, air is spread softly and silently, creating a 'Still Air' environment[1] that provides you total well-being day and night.

Smart Operation

AI Auto Comfort[2] introduces you to an intelligent way of living. It analyses your room conditions and usage patterns[3], and then automatically adjusts the temperature. Temperatures can also be managed remotely using the SmartThings App[4]. Turning it on and off, selecting the cooling mode or scheduling its operation is just one touch away.

Energy Efficiency

Samsung's compressor with Digital Inverter Boost technology helps you to save on energy consumption. Its strong neodymium magnets and muffler increase efficiency, cooling quickly without wasting energy, while keeping vibrations and noise levels to a minimum. When cooling, the compressor optimises power usage which allows to minimise energy consumption.

[1] ASHRAE (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.
[2] A Wi-Fi connection and Samsung SmartThings application account are required. [3] Stores user data, preferences and usage patterns to suggest the most useful options.
[4] Available on Android and iOS devices. A Wi-Fi connection and Samsung SmartThings application account are required.

Step 1

The front panel opens, and Fast Cooling mode cools the room quickly from corner to corner.

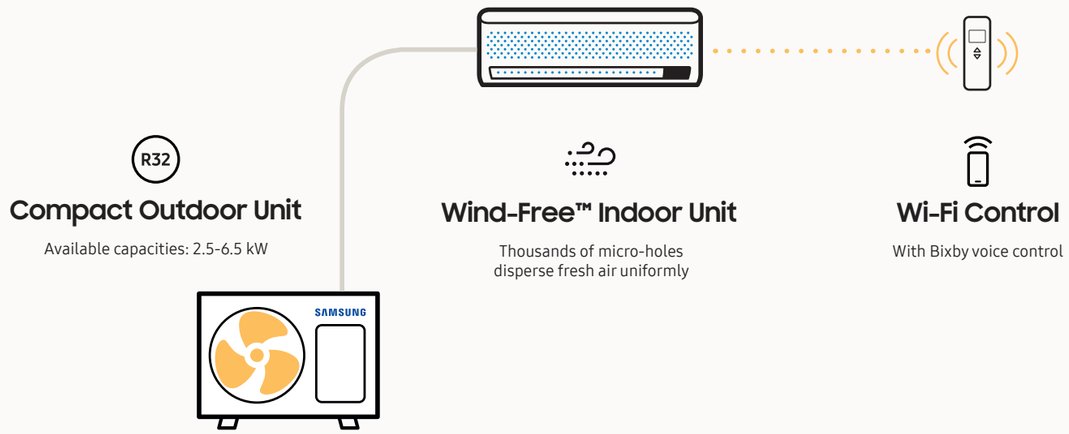
Step 2

The set temperature is reached in Fast Cooling mode, and the front panel closes.

Step 3

Wind-Free™ mode spreads fresh air uniformly through thousands of micro-holes.

Unique Samsung Solution



Compact Outdoor Unit

Available capacities: 2.5-6.5 kW

Wind-Free™ Indoor Unit

Thousands of micro-holes disperse fresh air uniformly

Wi-Fi Control

With Bixby voice control

AI Auto Comfort

AI Auto Comfort[1] introduces you to an intelligent way of living. To make life simpler and more efficient, it analyses room conditions and usage patterns[2]. Based on your preference and the temperatures outside, it automatically adjusts the temperature to optimise the room's climate conditions, guaranteeing total comfort at all times.

[1] AI = Artificial Intelligence. A Wi-Fi connection and Samsung SmartThings application account are required. [2] Stores user data, preferences and usage patterns to suggest the most useful options.

Wi-Fi Control

Temperatures in your home can be managed remotely using the SmartThings App[1]. 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) system[2] analyses and predicts your needs so it can suggest the best settings for inside your home.

[1] Available on Android and iOS devices. A Wi-Fi connection and Samsung SmartThings account are required. [2] Voice control is supported in English (US, UK, Indian), Chinese, Korean, French, German, Italian and Spanish. Portuguese is scheduled to be supported by the end of 2019.

SmartThings

Samsung SmartThings adds smartness to your home. Connect, automate and manage all your Samsung and SmartThings-compatible appliances and electronics with a single, easy-to-use App[1]. Getting started is easy with a Samsung Account. Once you have created your SmartThings profile, the App automatically finds compatible devices[2].

[1] Available on Android and iOS devices. A Wi-Fi connection and Samsung SmartThings account are required. [2] Consult relevant user guide/manual to ensure product compatibility with Samsung SmartThings.

Specifications

Wind-Free™ Comfort

Wind-Free™ Cooling

Wi-Fi Control

AI Auto Comfort

R32 refrigerant

Indoor Unit / Outdoor Unit			AR09TXFCAWKNEU / AR09TXFCAWKXEU	AR12TXFCAWKNEU / AR12TXFCAWKXEU	AR18TXFCAWKNEU / AR18TXFCAWKXEU	AR24TXFCAWKNEU / AR24TXFCAWKXEU
Capacity						
Capacity	Cooling (Nominal)	kW	2.5	3.5	5.0	6.5
	Cooling (Min–Max)	kW	0.9–3.4	0.9–4.0	1.6–6.7	1.4–7.6
	Heating @ +7 °C	kW	3.2	3.5	6.0	7.4
	Heating (Min–Max)	kW	0.9–4.5	0.9–5.0	1.3–8.0	1.2–9.4
	Heating @ -5 °C	kW	2.74	3.09	4.84	6.00
	Heating @ -10 °C	kW	2.48	2.87	4.57	5.55
	Heating @ -15 °C	kW	2.29	2.58	4.58	5.66
Performance						
Energy Efficiency Cooling	SEER[1]	W/W	6.7/ A++	6.5/ A++	6.8/ A++	6.4/ A++
	Power Consumption	kWh/a	131	188	257	355
	Pdesignc	kW	2.5	3.5	5.0	6.5
	EER	W/W	3.57	2.87	3.60	3.33
Energy Efficiency Heating	SCOP[1]	W/W	4.0/ A+	4.0/ A+	3.8/ A	3.8/ A
	Power Consumption	kWh/a	735	770	1,400	1,511
	Pdesignh (average)	kW	2.1	2.2	3.8	4.1
	COP[1]	W/W	3.81	3.72	3.51	3.15
Moisture Removal		l/h	1.0	1.5	2.0	2.5
Maximum Airflow (Cooling)	Indoor Unit	m^3/min	10.3	10.7	16.6	17.3
	Outdoor Unit	m^3/min	28.0	28.0	50.0	50.0
Sound Power	Indoor Unit (Cooling)	dB(A)	54	56	58	62
	Outdoor Unit (Cooling)	dB(A)	63	64	65	68
Sound Pressure	Indoor Unit High/Silent Mode	dB(A)	37/19	38/19	41/25	45/26
	Outdoor Unit High	dB(A)	46	47	51	54
Operating Temperature Range	Cooling	°C	-10~46	-10~46	-10~46	-10~46
	Heating	°C	-15~24	-15~24	-15~24	-15~24
Electrical Data						
Power Source		Φ, V, Hz	1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz	1Φ, 220~240 V, 50 Hz
Compressor Type	Outdoor Unit	Type	BLDC Rotary	BLDC Rotary	BLDC Rotary	BLDC Rotary
Power Consumption	Cooling	W	700	1,200	1,390	1,950
	Heating	W	840	940	1,710	2,350
Operating Current	Cooling	A	3.4	4.5	6.4	8.8
	Heating	A	3.7	5.1	7.8	10.5
Dimensions						
Net Dimensions (W x H x D)	Indoor Unit	mm	820 x 299 x 215	820 x 299 x 215	1,055 x 299 x 215	1,055 x 299 x 215
	Outdoor Unit	mm	660 x 475 x 242	660 x 475 x 242	880 x 638 x 310	880 x 638 x 310
Net Weight	Indoor Unit	kg	8.9	8.9	11.5	11.6
	Outdoor Unit	kg	23.0	23.0	39.7	43.2
Refrigerant						
Refrigerant	Type		R32 (contains fluorinated greenhouse gases. GWP = 675)			
	Charging (for 5 m)	kg	0.70	0.70	1.30	1.15
	Charging Ton Equivalent CO_2	tCO_2e	0.47	0.47	0.88	0.78
	Additional Refrigerant Charging	g/m	15	15	15	15
Piping Connections	Liquid Pipe	ø, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas Pipe	ø, mm (inch)	9.52 (3/8)	9.52 (3/8)	12.70 (1/2)	15.88 (5/8)
Piping Length	Min/Max (ODU to IDU)	m	3/15	3/15	3/30	3/30
Piping Height	Max	m	8	8	15	15
Piping Connections	Drain Pipe	ø, mm	ø16.3, 550 mm	ø16.3, 550 mm	ø16.3, 550 mm	ø16.3, 550 mm

Accessory

Wireless Remote Controller (included)

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

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