Planning Application rev. 1
Original date: 7th April 2026
Revision Date: 19th May 2026

Site address: 25 North Grove, London, N6 4SH

Reason for planning application: Request for air-conditioning condenser unit to be placed on roof

Included in this document:

- Photos
    - Property from the street
    - Photo from centre of the roof
- Specification of condenser unit
    - Model: Daikin 3MXM68A8
    - Type: Condensing Unit Inverter Heat Pump
    - Size: H734mm x D408mm x W974mm (0.29m3)
    - Max sound level: 61dBA / night quiet mode 58dBA

Proposed usage: only for use on days in the summer months when the internal temperature in the bedrooms reaches intolerable levels and therefore impairs sleep quality

Proposed location: to the rear centre of the roof, away from neighbouring properties on both sides, and to ensure it is not visible from the street

Proposed unit is a new high quality unit with a quiet night setting. It has a max sound level equivalent to normal conversation and so will not cause any disruption to our neighbours. It will be used at a minimum level to cool bedrooms only during hot spells in the summer.

Photo of property from street
Neighbours water tanks are not visible from street level and are taller than proposed unit (water tanks 110cm high, vs condenser unit 73.4cm high)

Photo from centre of roof
This photo was taken at eye level (165cm) from the centre of the roof, the street is not visible from this position, and the condenser unit height is significantly lower than this at 73.4cm high

2 Specifications

2 - 1 Specifications

Technical specifications					3MXM40A8	3MXM52A8	3MXM68A8
Refrigerant	Charge			tCO2Eq	1.22		1.35
Casing	Colour				Ivory white		
Dimensions	Unit	Height		mm	734		
		Width		mm	974		
		Depth		mm	408		
	Packed unit	Height		mm	820		
		Width		mm	1,050		
		Depth		mm	480		
Weight	Unit			kg	57		62
	Packed unit			kg	63		67
Heat exchanger	Length			mm	920		
	Rows	Quantity			2		
	Fin pitch			mm	1.40		
	Stages	Quantity			32		
	Passes	Quantity			6.40		
	Tube type				HI-XA		
	Tube diameter			mm	8.0		
	Fin	Type			WHS8 FIN-HYDROPHILIC		
		Treatment			Anti-corrosion treatment		
Fan	Type				Propeller fan		
	Discharge direction				Horizontal		
	Quantity				1		
	Air flow rate	Cooling	High	m^3/min	42.0		46.5
				cfm	1,483		1,642
			Medium	m^3/min	42.0		42.5
				cfm	1,483		1,501
			Low	m^3/min	24.0		24.1
				cfm	847		851
		Heating	High	m^3/min	41.0		43.8
				cfm	1,447		1,547
			Medium	m^3/min	41.0		43.8
				cfm	1,447		1,547
			Low	m^3/min	24.0		16.1
				cfm	847		569
Fan motor	Quantity				1		
	Model				D55F-31		
Fan motor	Output			W	55		
	Speed	Cooling	High	rpm	700		760
			Medium	rpm	700		
			Low	rpm	420		
		Heating	High	rpm	680		720
			Low	rpm	420		300
			Medium	rpm	680		720
Compressor	Quantity				1		
	Model				2YC40JXD#C		2YC71DXD#C
	Oil Amount			cm^3	650		900
	Type				Hermetically sealed swing compressor		
	Output			W	1,300		2,400
	Oil Type				FW68DA		
Operation range	Cooling	Ambient	Min.	°CDB	-10		
			Max.	°CDB	50		
	Heating	Ambient	Min.	°CDB	-20		
			Max.	°CDB	24		
Sound power level	Cooling	Max		dBA	63		
		Nom.		dBA	59		61
		Night quiet mode		dBA	58		59
		Tonal adjustment		dBA	0		
	Heating	Max		dBA	63		
		Nom.		dBA	59		61
		Night quiet mode		dBA	58		59
		Tonal adjustment		dBA	0		
Sound power level - Low sound mode (Stb. 2020, 189)	Cooling	Max.		dBA	62		61
		Night quiet mode		dBA	57		58
		Tonal adjustment		dBA	0		
	Heating	Max.		dBA	62		61
		Night quiet mode		dBA	57		58
		Tonal adjustment		dBA	0		
Sound pressure level	Cooling	Nom.		dBA	46		48
	Heating	Nom.		dBA	47		48

2 Specifications

2 - 1 Specifications

Technical specifications					3MXM40A8	3MXM52A8	3MXM68A8
Refrigerant	Type				R-32		
	Charge			kg	1.80		2.00
	Charge			tCO2Eq	1.22		1.35
	Control				Expansion valve		
Refrigerant	GWP				675		
Piping connections	Liquid	Quantity			3		
		OD		mm	6.35		
	Gas	Quantity			1		
		OD		mm	9.5		
	Drain	Quantity			1		
		OD		mm	16 (inner diameter of connecting hose)		
	Gas 2	Quantity			2		
		OD		mm	12.7		
	Piping length	OU - IU	Min.	m	3 (1)		
			Max.	m	25 (1)		
		System	Chargeless	m	30		
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 30m)		
	Level difference	IU - OU	Max.	m	15		
		IU - IU	Max.	m	7.5		
	Heat insulation				Both liquid and gas pipes		
	Total piping length	System	Actual	m	50 (2)		50
Capacity control	Method				Variable (inverter)		

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Drain cap;Quantity: 3;

Standard accessories: Drain plug;Quantity: 1;

Standard accessories: Reducer assembly;Quantity: 1;

Standard accessories: Screw bag;Quantity: 1;

Standard accessories: FTXJ42A2V1BS;Quantity: ;

Standard accessories: FVXM25B2V1B;Quantity: ;

Electrical specifications				3MXM40A8	3MXM52A8	3MXM68A8
Power supply	Phase			1~		
	Frequency		Hz	50		
	Voltage		V	220-240		
Wiring connections	For power supply	Quantity		3		
		Remark		Earth wire included		
	For connection with indoor	Quantity		4		
		Remark		Earth wire included		

(1)For one room |
(2)For combination with CVXM-A, FVXM-A - maximum piping length is 30m. |
(3)See separate drawing for operation range |
(4)See separate drawing for electrical data |
(5)Contains fluorinated greenhouse gases