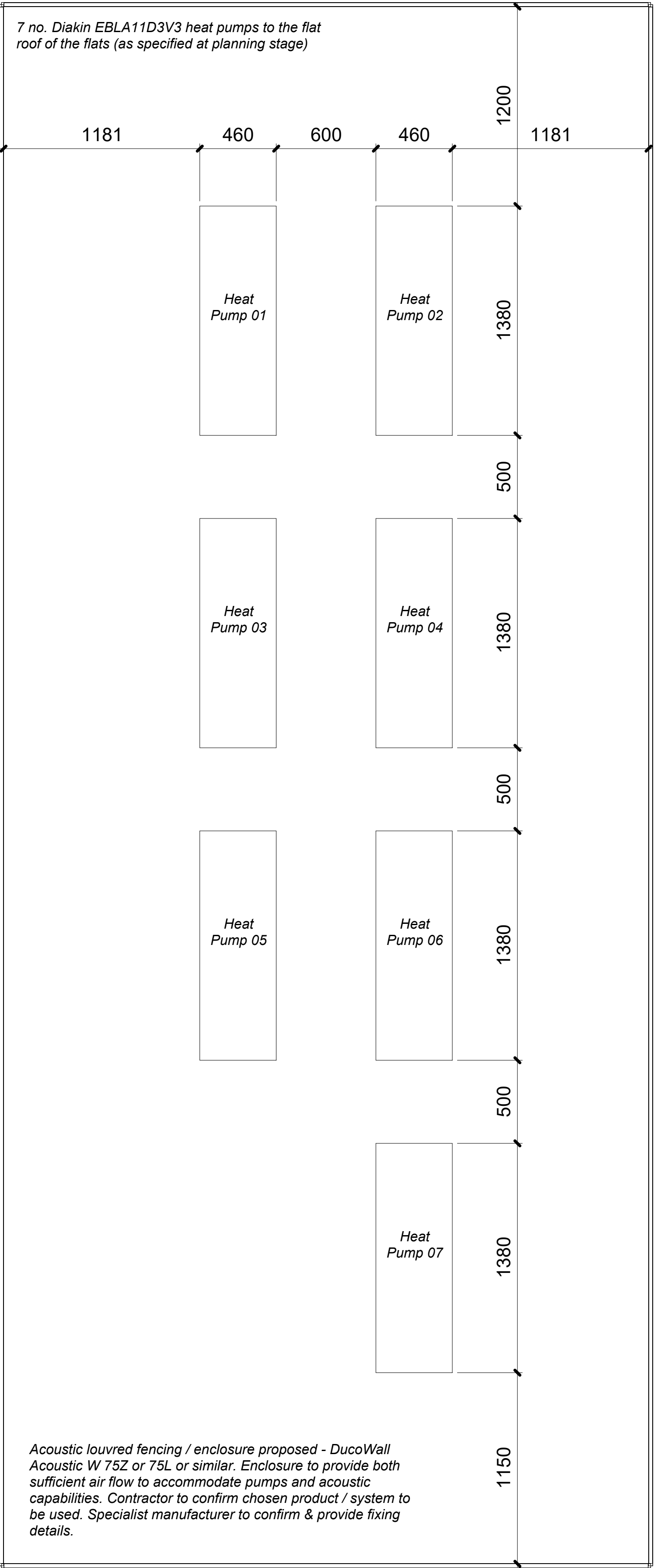
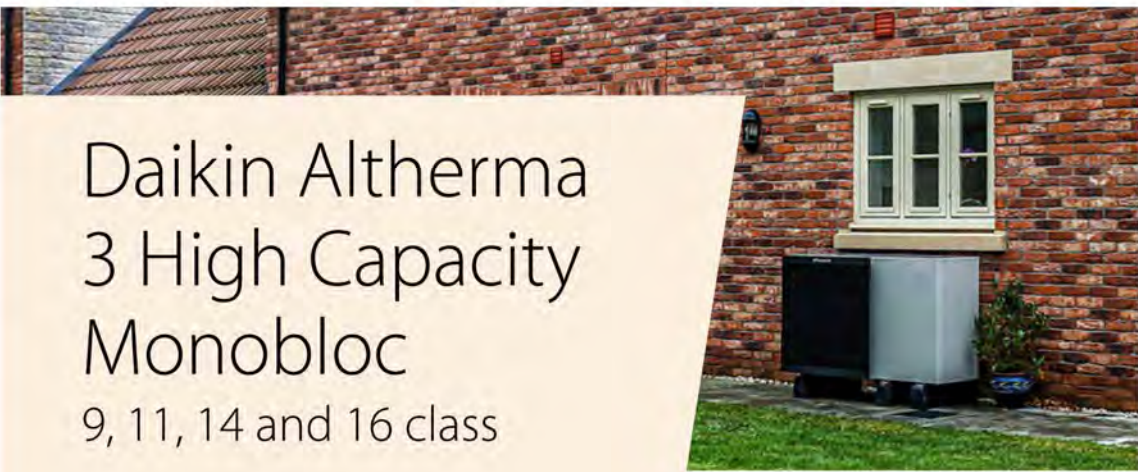
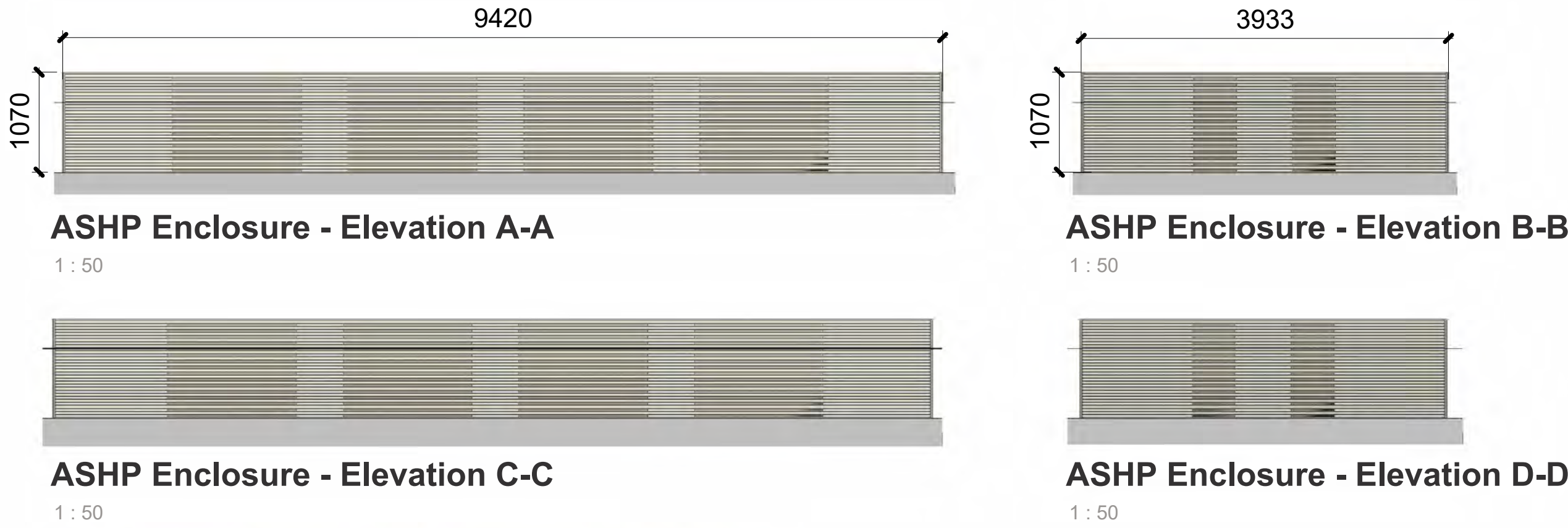




Roof Plan - Plant

1 : 20

Acoustic louvred fencing / enclosure proposed - DucoWall Acoustic W 75Z or 75L or similar. Enclosure to provide both sufficient air flow to accommodate pumps and acoustic capabilities. Contractor to confirm chosen product / system to be used. Specialist manufacturer to confirm & provide fixing details.



Daikin Altherma 3 High Capacity Monobloc

9, 11, 14 and 16 class

The Daikin Altherma 3 High Capacity Monobloc is the first all-in-one Monobloc unit to be added to the third-generation Daikin Altherma range. It features the latest controls, along with our low environmental impact R32 technology.

The Daikin Altherma 3 range offers higher capacity monobloc units, in 9, 11, 14 and 16 class, all delivered in a market leading compact single fan casing, making it ideal for new buildings and large renovations.

High performance in low ambient conditions

Operation range is down to -25°C, ensuring the system delivers in the harshest of conditions. The unit also has high performance of 60°C leaving water temperature down to -4°C ambient.

The capacities vary depending on the design conditions, ambient temperature and leaving water temperature selected. Please check the capacity curves in the data books available on my.daikin.co.uk, or use our Heating Solutions Navigator design tool on Stand By Me to complete your selection.

At typical design conditions of -18°C and 45°C leaving water temperature, the 9 and 11 class units hold or even exceed their capacity. However for the 14 and 16 class units, you will need to check the design conditions more carefully depending on the requirements of your customer.

This ability to reliably deliver higher capacities - and even perform beyond the headline capacity in some cases - really makes the Daikin Altherma 3 High Capacity Monobloc a stand-out solution for all kinds of properties where space saving is also a priority.

A redesigned outdoor unit

The Daikin Altherma 3 High Capacity Monobloc offers a modern, single fan design with compact dimensions. The sleek black grill provides an unobtrusive and versatile outdoor unit suitable for a wide range of house types.

High performance single fan

Daikin have optimised the design of the Monobloc unit, replacing the double fan arrangement with a larger, single fan. This new gull wing fan design reduces drag to improve system air flow and create a quieter outdoor unit, with a low sound level of just 62 dBA.

All-in-one Monobloc unit

The Daikin Altherma 3 High Capacity Monobloc is an outdoor unit including an enclosed refrigerant circuit. It is an all-in-one concept with all key hydraulics included such as the pump, flow sensor, and water pressure sensor in the outdoor unit. The system requires no indoor unit, only a wiring centre and a stand-alone domestic hot water tank.

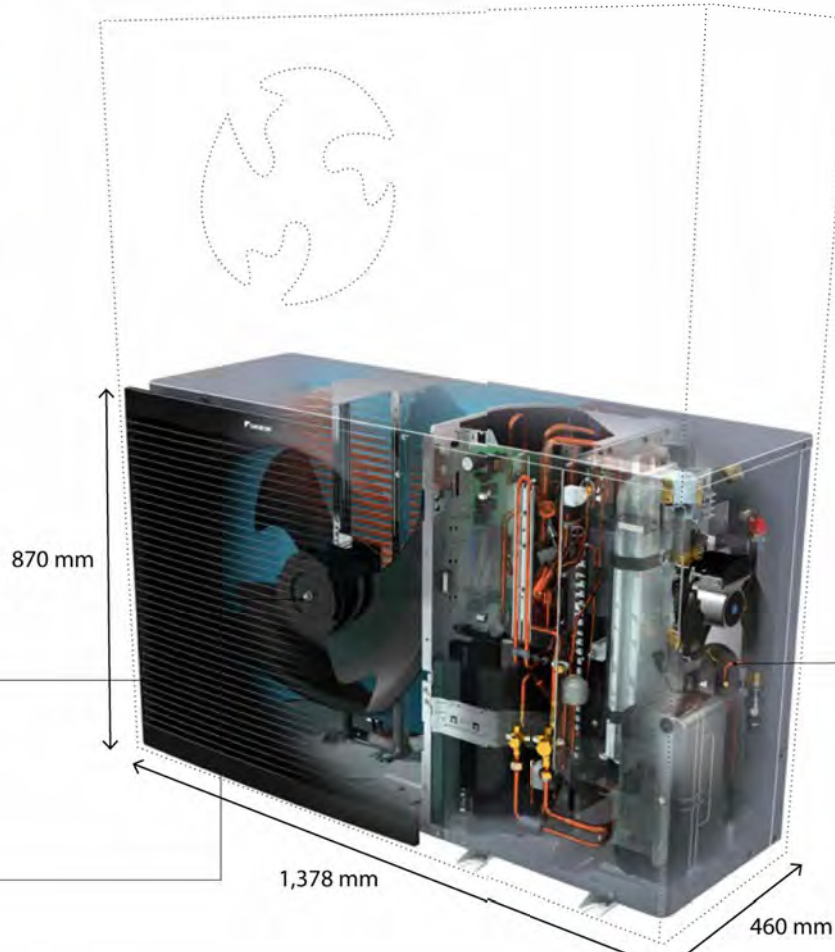
Because there are only water connections to the indoor heating system, you don't need F-gas qualifications to install it. The Daikin Altherma 3 High Capacity Monobloc is designed for a fast and easy installation, making it ideal for heating engineers just starting out into the world of renewables, as well as experienced heat pump installers looking to increase the range of space-efficient solutions they can offer.

Reduced environmental impact

Daikin Altherma 3 High Capacity Monobloc uses R32 refrigerant, which is more energy efficient and has a lower global warming potential (GWP) than refrigerants such as R410A. Requiring 30% less refrigerant charge than an R410A equivalent unit, the Daikin Altherma 3 Monobloc achieves 79% lower CO₂ emissions than previous Monobloc units. This means that you can reduce your customer's environmental impact even further by installing a Daikin Altherma 3 Monobloc heat pump with R32.

Ideal where space is at a premium

The Daikin Altherma 3 High Capacity Monobloc is the ideal solution for homes where indoor space is at a premium, as no additional indoor unit is required. With a reduced size casing of only 870mm height, the outdoor unit can fit right under a window to save outdoor space. With a total volume of less than 0.6m³, the unit meets permitted development rights requirements, leading to a quicker project completion time as there will be no delay for planning approvals.



Additional features

- Available in heating only, reversible heating and cooling, one-phase and three-phase
- Integrated electric back-up heater for total reliability
- WLAN card inserts into the user interface and allows connection to the wireless local area network for access to settings via smartphone and cloud API
- Smart grid ready with the ability to connect to a PV system



DucoWall Acoustic W 75Z & 75L

The DucoWall Acoustic W 75Z and W 75L are sound-absorbing louvre wall systems, manufactured from extruded aluminium sections profiles that feature sound absorbing, non-combustible mineral wool. The louvre blade can be selected in the Z-shape and L-shape for different aesthetic finishes.

DIMENSIONS AND MULLIONS

Type of mullion	5012	2158	5016	5017S
Loouvre pitch	40° mm			
Loouvre depth	67 mm			
Installation depth	75Z: 79 mm 75L: 81 mm	117 mm 125 mm	117 mm 125 mm	142 mm 200 mm
Maximum span between 2 mullions	75Z: 1700 mm 75L: 1650 mm			

VENTILATION VALUES

Property	75Z	75L
Visual free area	75 %	75 %
Physical free area	28 %	28 %
Cd (higher is better)	0.196	0.196
Cd (higher is better)	0.183	0.182
K-FACTOR	26.03	22.25
ENHANCE	29.86	15.02

STND and +OPT version, see page 5

SOUND ABSORPTION

Attenuation value Rw (C,Ctr)	W 75Z	W 75L
6 (0;-11) dB		

WATER RESISTANCE

Air velocity	75Z	75L
0 m/s	STND	+OPT
0.5 m/s	B	B
1 m/s	C	C
1.5 m/s	D	D
2 m/s	D	D
2.5 m/s	D	D

R-32

ETLA

Daikin Altherma 3 High Capacity Monobloc

Outdoor Unit	Time-Phase						Time-Phase					
	ECER6000-9	Class 9	Class 11	Class 14	Class 16	Class 18	ECER6000-9	Class 11	Class 14	Class 16	Class 18	
Description	Heating Only											
Dimensions (H x W x D) mm	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	870 x 1380 x 460	
Weight	106 kg	106 kg	106 kg	106 kg	106 kg	106 kg	106 kg	106 kg	106 kg	106 kg	106 kg	
Nominal capacity	9.3 kW	11.3 kW	14.3 kW	16.3 kW	18.3 kW	21.3 kW	24.3 kW	28.3 kW	32.3 kW	36.3 kW	40.3 kW	
Net input	Heating (kW)	9.3	11.3	14.3	16.3	18.3	21.3	24.3	28.3	32.3	36.3	
CoP	Heating (kW)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Seasonal space heating efficiency	Heating (kW)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Space heating efficiency (average climate 10°C)	Heating (kW)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Space heating efficiency (average climate 10°C)	Heating (kW)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
ESR	Heating (kW)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Operation range	Heating (kW)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Sound power level	Heating (dB)	62	62	62	62	62	62	62	62	62	62	
Refrigerant charge (kg)	Heating (kg)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
Power supply	1 phase / 230V / 50Hz	1 phase / 230V / 50Hz	1 phase / 230V / 50Hz	1 phase / 230V / 50Hz	1 phase / 230V / 50Hz	1 phase / 230V / 50Hz	1 phase / 230V / 50Hz	1 phase / 230V / 50Hz	1 phase / 230V / 50Hz	1 phase / 230V / 50Hz	1 phase / 230V / 50Hz	
Recommended fuse	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	
Pump	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	16 A	
Expansion vessel volume	0.5 l	0.5 l	0.5 l	0.5 l	0.5 l	0.5 l	0.5 l	0.5 l	0.5 l	0.5 l	0.5 l	
Water connection (diameter)	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	
Minimum water volume	20 l	20 l	20 l	20 l	20 l	20 l	20 l	20 l	20 l	20 l	20 l	
Minimum flow rate	0.05 m/s	0.05 m/s	0.05 m/s	0.05 m/s	0.05 m/s	0.05 m/s	0.05 m/s	0.05 m/s	0.05 m/s	0.05 m/s	0.05 m/s	
Maximum piping distance to tank	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m	
Maximum level difference	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m	10 m	
SAF ID	107781 / 107782 / 107783 / 107784 / 107785 / 107786 / 107787 / 107788 / 107789 / 107790 / 107791 / 107792 / 107793 / 107794 / 107795 / 107796 / 107797 / 107798 / 107799 / 107800 / 107801 / 107802 / 107803 / 107804 / 107805 / 107806 / 107807 / 107808 / 107809 / 107810 / 107811 / 107812 / 107813 / 107814 / 107815 / 107816 / 107817 / 107818 / 107819 / 107820 / 107821 / 107822 / 107823 / 107824 / 107825 / 107826 / 107827 / 107828 / 107829 / 107830 / 107831 / 107832 / 107833 / 107834 / 107835 / 107836 / 107837 / 107838 / 107839 / 107840 / 107841 / 107842 / 107843 / 107844 / 107845 / 107846 / 107847 / 107848 / 107849 / 107850 / 107851 / 107852 / 107853 / 107854 / 107855 / 107856 / 107857 / 107858 / 107859 / 107860 / 107861 / 107862 / 107863 / 107864 / 107865 / 107866 / 107867 / 107868 / 107869 / 107870 / 107871 / 107872 / 107873 / 107874 / 107875 / 107876 / 107877 / 107878 / 107879 / 107880 / 107881 / 107882 / 107883 / 107884 / 107885 / 107886 / 107887 / 107888 / 107889 / 107890 / 107891 / 107892 / 107893 / 107894 / 107895 / 107896 / 107897 / 107898 / 107899 / 107900 / 107901 / 107902 / 107903 / 107904 / 107905 / 107906 / 107907 / 107908 / 107909 / 107910 / 107911 / 107912 / 107913 / 107914 / 107915 / 107916 / 107917 / 107918 / 107919 / 107920 / 107921 / 107922 / 107923 / 107924 / 107925 / 107926 / 107927 / 107928 / 107929 / 107930 / 107931 / 107932 / 107933 / 107934 / 107935 / 107936 / 107937 / 107938 / 107939 / 107940 / 107941 / 107942 / 107943 / 107944 / 107945 / 107946 / 107947 / 107948 / 107949 / 107950 / 107951 / 107952 / 107953 / 107954 / 107955 / 107956 / 107957 / 107958 / 107959 / 107960 / 107961 / 107962 / 107963 / 107964 / 107965 / 107966 / 107967 / 107968 / 107969 / 107970 / 107971 / 107972 / 107973 / 107974 / 107975 / 107976 / 107977 / 107978 / 107979 / 107980 / 107981 / 107982 / 107983 / 107984 / 107985 / 107986 / 107987 / 107988 / 107989 / 107990 / 107991 / 107992 / 107993 / 107994 / 107995 / 107996 / 107997 / 107998 / 107999 / 108000											

Notes:

- User interface (UI) is supplied with outdoor unit.
- UI must be installed if glycol is present within the system.
- Only one optional remote sensor can be installed.
- UI Card (BPM0401) must be purchased for the BSL-0401 connection.
- BPM0401 has the same functionality but will only be required in case of back connectivity in location of the user interface.

Features:

- WLAN cartridge connection (optional)
- Possible to combine with domestic hot water tanks
- Reversible or heating only air-to-water heat pump
- Monobloc all-in-one concept including all hydraulic parts
- An optional built-in 3kW electric back-up heater or a separate back-up heater kit are available for additional heating
- Available in one phase and three phase



Back-up heater kit (optional):

Description	Back-up heater R32 (kW)
Heating only	3
Dimensions	210 mm
Depth	210 mm
Height	210 mm
Power supply	1 phase / 230V / 50Hz
Recommended fuse	16 A
Water connection	1/2"

Daikin Altherma R32 Monobloc Wiring Centre (optional):

Description	Wiring centre
10 m cable	10 m
10 m cable (10 m)	10 m
Dimensions (Wiring Centre)	210 mm
Depth	210 mm
Height	210 mm
Dimensions (10 m Cable)	10 m
Depth	10 m
Height	10 m

Note: 1. Wiring centre also compatible with the low capacity monobloc range (EBLA09-09010) 2. Wiring centre not compatible with Pre-Plumbed Cylinder

PROJECT	Highgate Residential Flats	SCALE AT A1:	As indicated	DATE:	23.04.26	DRAWN:	JA	CHECKED:	RM
DRAWING TITLE	Roof Plant Plan, Details & Spec	PROJECT NO:	D01-03	DRAWING NO:	451	REVISION:			
CLIENT	Highgate Care Ltd	NOTE: DO NOT SCALE. USE FIGURED DIMENSIONS ONLY. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELATED DESIGN TEAM AND SUB-CONSULTANT INFORMATION AND DOES NOT RELY ON ANY PART OF THIS DRAWING. ALL DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK OR THE PRODUCTION OF ANY SHOP DRAWING. ALL DISCREPANCIES TO BE REPORTED TO RM DESIGN GROUP. THIS DRAWING IS COPYRIGHT © OF RM DESIGN GROUP LIMITED.							
DRAWING STATUS	PLANNING								
REV	DESCRIPTION	BY	DATE						